



MERGED
PODCAST

**THROUGH THE GREAT FILTER:
A SPACETIME SEARCH FOR UAP**
WITH ROBIN HANSON



1
00:00:00,000 --> 00:00:01,416
On the general topic of aliens

2
00:00:01,416 --> 00:00:04,228
I think the way most people frame it as,

3
00:00:04,228 --> 00:00:05,983
we officially know nothing,

4
00:00:05,983 --> 00:00:07,390
we have no information

5
00:00:07,731 --> 00:00:09,583
and therefore serious work

6
00:00:09,583 --> 00:00:10,796
just can't be done.

7
00:00:10,796 --> 00:00:12,203
I think that's false,

8
00:00:12,203 --> 00:00:14,283
about both of these topics

9
00:00:14,283 --> 00:00:17,466
both UAPs and aliens.

10
00:00:17,466 --> 00:00:20,721
So, in our "Grabby Aliens" work

11
00:00:20,721 --> 00:00:22,166
we're claiming that

12
00:00:22,166 --> 00:00:24,583
We know quite a bit about the

13
00:00:24,583 --> 00:00:26,875

distribution of aliens in space-time, and

14

00:00:26,875 --> 00:00:28,708

you might say, "But we've never seen one,

15

00:00:28,708 --> 00:00:30,458

so how could we know anything?"

16

00:00:30,458 --> 00:00:32,916

And the point is, we do see other data

17

00:00:32,916 --> 00:00:35,125

that's relevant, and we can put that

18

00:00:35,125 --> 00:00:36,291

together cleverly to

19

00:00:36,291 --> 00:00:37,291

learn a lot about aliens.

20

00:00:37,291 --> 00:00:38,583

There are these historical

21

00:00:38,583 --> 00:00:40,375

examples where it switched over.

22

00:00:40,375 --> 00:00:42,083

Some sort of evidence was enough to make

23

00:00:42,083 --> 00:00:43,333

people take it out of the

24

00:00:43,333 --> 00:00:45,166

superstition-crazy realm.

25

00:00:45,166 --> 00:00:46,208

So what would it take

26

00:00:46,208 --> 00:00:46,916

to do that with UAPs?

27

00:00:47,625 --> 00:00:49,583

Basically, they're saying, "This is so

28

00:00:49,583 --> 00:00:51,208

crazy unlikely." If we say, "Why?"

29

00:00:51,208 --> 00:00:52,916

because cosmologists have told us so, and

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00:00:52,916 --> 00:00:53,875

I say, "No, they haven't."

31

00:00:53,875 --> 00:00:54,958

That's where I'm trying to go and say,

32

00:00:54,958 --> 00:00:58,750

"Look, from what we know about cosmology,

33

00:00:58,750 --> 00:01:00,375

this is not crazy unlikely.

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00:01:00,375 --> 00:01:02,291

It might be unlikely, but it's not crazy

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00:01:02,291 --> 00:01:03,875

unlikely. That's the key difference.

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00:01:05,000 --> 00:01:06,416

Can we get people to

37

00:01:06,416 --> 00:01:12,000

accept it's not crazy unlikely?"

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00:01:18,000 --> 00:01:19,958

The UAP is a pioneer in the field of

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00:01:19,958 --> 00:01:22,416

AI-driven comparative and qualitative

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00:01:22,416 --> 00:01:24,416

analysis, and was established with the

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00:01:24,416 --> 00:01:26,291

primary goal of uncovering the hidden

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00:01:26,291 --> 00:01:29,041

value left behind in complex data sets.

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00:01:37,000 --> 00:01:38,583

To find valuable insights that can help

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00:01:38,583 --> 00:01:40,875

drive growth, formulate competitive

45

00:01:40,875 --> 00:01:43,208

strategy, and to identify key patterns in

46

00:01:43,208 --> 00:01:44,708

targeted demographics, head

47

00:01:44,708 --> 00:01:46,083

to their site to learn more.

48

00:01:46,083 --> 00:01:48,083

coeus.institute

49

00:01:51,625 --> 00:01:54,416

So what originally brought you to my

50

00:01:54,416 --> 00:01:56,208

attention was the Grabby Aliens paper

51
00:01:56,208 --> 00:01:57,791
that you did. That was my first exposure

52
00:01:57,791 --> 00:02:01,500
to you on Lex Friedman.

53
00:02:10,416 --> 00:02:12,458
I loved how you were able to integrate

54
00:02:12,458 --> 00:02:15,916
UAP into the model itself to work through

55
00:02:15,916 --> 00:02:17,250
some assumptions. I'll let you speak to

56
00:02:17,250 --> 00:02:20,916
that. Why do you think that we don't see

57
00:02:20,916 --> 00:02:21,916
more academics

58
00:02:21,916 --> 00:02:23,041
engaging in this type of work?

59
00:02:23,041 --> 00:02:24,625
Because it seems like there's a lot to

60
00:02:24,625 --> 00:02:26,750
really unfold there.

61
00:02:27,291 --> 00:02:28,958
I'm not the first person to notice

62
00:02:28,958 --> 00:02:32,750
there's a taboo here. It's pretty strong.

63
00:02:32,750 --> 00:02:35,416

It's remarkably strong and even

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00:02:35,416 --> 00:02:38,166

puzzlingly strong. It's worth wondering

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00:02:38,166 --> 00:02:39,916

exactly why. But it's pretty clear.

66

00:02:40,083 --> 00:02:42,500

So I started out in physics a long time

67

00:02:42,500 --> 00:02:45,375

ago, and physicists are just really

68

00:02:45,375 --> 00:02:46,833

strongly of the opinion that there's like

69

00:02:46,833 --> 00:02:48,958

a certain kind of pseudoscience that they

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00:02:48,958 --> 00:02:51,416

should just dump all over. And then this

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00:02:51,416 --> 00:02:53,875

has been classified in that category of

72

00:02:53,875 --> 00:02:56,791

pseudoscience. And elites, especially in

73

00:02:56,791 --> 00:02:59,500

our world, they're eager to show that

74

00:02:59,500 --> 00:03:00,916

they're different from ordinary people

75

00:03:00,916 --> 00:03:03,291

and they sort of share the opinions of

76

00:03:03,291 --> 00:03:05,000

elites and not the opinions

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00:03:05,000 --> 00:03:06,000

of foolish ordinary people.

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00:03:06,000 --> 00:03:06,791

And this is one of

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00:03:06,791 --> 00:03:07,916

those things on the list.

80

00:03:08,916 --> 00:03:11,291

Interesting.

81

00:03:11,291 --> 00:03:13,750

So what have you received any any

82

00:03:13,750 --> 00:03:15,250

kickback? And I know you haven't just

83

00:03:15,250 --> 00:03:16,625

jumped onto the scene. You've been

84

00:03:16,625 --> 00:03:18,500

writing papers about this to some degree

85

00:03:18,500 --> 00:03:20,500

since the 90s. Is that correct?

86

00:03:20,500 --> 00:03:22,166

About aliens. Yeah. Correct. Yeah.

87

00:03:22,166 --> 00:03:25,375

Although there's much less about the

88

00:03:25,375 --> 00:03:28,541

taboo about aliens than about UAPs.

89

00:03:29,083 --> 00:03:30,791

Well, let's talk about that difference.

90

00:03:30,791 --> 00:03:33,666

So UAP, from my perspective, now the

91

00:03:33,666 --> 00:03:35,583

terminology is unidentified anomalous

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00:03:35,583 --> 00:03:38,000

phenomenon. So we're classifying that as

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00:03:38,000 --> 00:03:41,416

a domain agnostic observation that

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00:03:41,416 --> 00:03:43,458

doesn't fit our expectations. Right.

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00:03:43,458 --> 00:03:46,458

Be loose. And we're we're now starting to

96

00:03:46,458 --> 00:03:48,166

track that and gather numbers about that

97

00:03:48,166 --> 00:03:50,833

so we can we can learn more about that.

98

00:03:50,833 --> 00:03:51,833

So it's a it's a

99

00:03:51,833 --> 00:03:52,916

practical issue that we're seeing.

100

00:03:53,791 --> 00:03:55,375

But then we separate that and we say,

101
00:03:55,375 --> 00:03:57,041
let's look out into the universe as if

102
00:03:57,041 --> 00:03:59,750
we're separate from it. And we say, do we

103
00:03:59,750 --> 00:04:01,666
see anything out there?

104
00:04:01,666 --> 00:04:05,291
I presumably within our light cone, but

105
00:04:05,291 --> 00:04:08,625
we don't. And that's that's part of the

106
00:04:08,625 --> 00:04:10,000
confusion. I think that people have in

107
00:04:10,000 --> 00:04:11,666
this because we're potentially there's

108
00:04:11,666 --> 00:04:14,208
the opportunity for something to be in

109
00:04:14,208 --> 00:04:15,833
our backyard that we don't see anywhere

110
00:04:15,833 --> 00:04:16,833
else in the universe.

111
00:04:17,250 --> 00:04:19,583
Can you maybe perhaps describe how you've

112
00:04:19,583 --> 00:04:21,916
integrated those two categories of

113
00:04:21,916 --> 00:04:24,541

anomalous activities here, aliens as in

114

00:04:24,541 --> 00:04:27,166

the wider universe and what perhaps is in

115

00:04:27,166 --> 00:04:29,333

our sky that we can't identify?

116

00:04:29,333 --> 00:04:32,583

I realize that's a big question. So the

117

00:04:32,583 --> 00:04:35,083

general topic of aliens, I think the way

118

00:04:35,083 --> 00:04:38,250

most people frame it as we officially

119

00:04:38,250 --> 00:04:40,000

know nothing. So if you're going to talk

120

00:04:40,000 --> 00:04:40,583

about it, we're just

121

00:04:40,583 --> 00:04:41,708

going fun speculation.

122

00:04:42,166 --> 00:04:44,041

And in fun speculation, you can make a

123

00:04:44,041 --> 00:04:46,541

movie and you can you know, you can play

124

00:04:46,541 --> 00:04:48,458

with it. And that's OK as long as you're

125

00:04:48,458 --> 00:04:50,083

in fun speculation mode.

126

00:04:50,083 --> 00:04:52,208

But the official story is we know

127

00:04:52,208 --> 00:04:54,708

nothing. We have no information. And

128

00:04:54,708 --> 00:04:55,791

therefore, serious

129

00:04:55,791 --> 00:04:58,416

work just can't be done.

130

00:04:58,416 --> 00:05:02,583

I think that's false in essence about

131

00:05:02,583 --> 00:05:05,125

both of these topics,

132

00:05:05,125 --> 00:05:06,916

both UAPs and aliens.

133

00:05:07,750 --> 00:05:11,625

So in our grabby aliens work, we're

134

00:05:11,625 --> 00:05:14,333

claiming that we know quite a bit about

135

00:05:14,333 --> 00:05:17,958

the distribution of aliens in space time.

136

00:05:17,958 --> 00:05:19,666

And you might say, but we've never seen

137

00:05:19,666 --> 00:05:22,333

one. So how could we know anything? And

138

00:05:22,333 --> 00:05:25,083

the point is, well, we do see other data

139

00:05:25,083 --> 00:05:27,750

that's relevant and we can put that

140

00:05:27,750 --> 00:05:29,250

together cleverly to

141

00:05:29,250 --> 00:05:29,916

learn a lot about aliens.

142

00:05:30,333 --> 00:05:34,250

You think what? So I like the analogy of

143

00:05:34,250 --> 00:05:36,291

long ago in ancient Greece, they managed

144

00:05:36,291 --> 00:05:40,000

to figure out how far away the sun was.

145

00:05:40,000 --> 00:05:41,500

And you might think, how could you

146

00:05:41,500 --> 00:05:43,208

possibly look up into the sky and figure

147

00:05:43,208 --> 00:05:44,916

out how far away the sun is?

148

00:05:44,916 --> 00:05:47,833

They had this clever thing about the

149

00:05:47,833 --> 00:05:50,250

shadow length at one latitude versus

150

00:05:50,250 --> 00:05:52,291

another latitude on the

151

00:05:52,291 --> 00:05:54,583

peak noon on those days.

152

00:05:54,583 --> 00:05:56,375

And they could use that in the distance

153

00:05:56,375 --> 00:05:57,750

to these took places to figure out how

154

00:05:57,750 --> 00:05:58,916

far away the sun was.

155

00:05:59,125 --> 00:06:01,000

I'd say similarly, we actually have some

156

00:06:01,000 --> 00:06:02,875

data that we can use to figure out the

157

00:06:02,875 --> 00:06:03,833

distribution of some

158

00:06:03,833 --> 00:06:05,500

kinds of aliens in space time.

159

00:06:05,500 --> 00:06:08,125

You just have to be clever about it. So

160

00:06:08,125 --> 00:06:10,375

we have a three parameter model and each

161

00:06:10,375 --> 00:06:12,125

of those parameters is fit

162

00:06:12,125 --> 00:06:14,375

to concrete data we have.

163

00:06:14,375 --> 00:06:17,125

And so the story is then we know this

164

00:06:17,125 --> 00:06:19,416

model roughly. It's a stochastic model of

165

00:06:19,416 --> 00:06:20,916

where aliens are in space time.

166

00:06:21,291 --> 00:06:23,625

And we say we kind of have to believe it

167

00:06:23,625 --> 00:06:26,041

because of another key data, which is

168

00:06:26,041 --> 00:06:27,791

that we are early in the

169

00:06:27,791 --> 00:06:29,041

history of the universe.

170

00:06:29,041 --> 00:06:31,958

And so the date on the clock is a key

171

00:06:31,958 --> 00:06:34,625

piece of data. And it tells you there are

172

00:06:34,625 --> 00:06:37,083

aliens out there right now.

173

00:06:37,083 --> 00:06:39,375

And using these other pieces of data, we

174

00:06:39,375 --> 00:06:41,041

can get the distribution in space time.

175

00:06:41,041 --> 00:06:42,750

So I know when you're hearing this,

176

00:06:42,750 --> 00:06:43,916

you're going, that can't be right.

177

00:06:44,250 --> 00:06:46,541

But it's being as clever as those ancient

178

00:06:46,541 --> 00:06:49,666

Greeks did to figure out how far away the

179

00:06:49,666 --> 00:06:53,625

sun is from just a few pieces of infamy

180

00:06:53,625 --> 00:06:54,333

you couldn't figure.

181

00:06:54,333 --> 00:06:56,500

And we can do the same thing with aliens.

182

00:06:56,500 --> 00:07:00,000

So the three pieces of data we have are

183

00:07:00,000 --> 00:07:02,458

the date on the clock that is now 14

184

00:07:02,458 --> 00:07:03,166

million years since the

185

00:07:03,166 --> 00:07:04,750

beginning of the universe.

186

00:07:04,750 --> 00:07:06,708

There's the piece of data that at the

187

00:07:06,708 --> 00:07:07,625

moment we don't see

188

00:07:07,625 --> 00:07:09,916

anything in the sky. That's data.

189

00:07:10,333 --> 00:07:11,833

And the third piece of data is when we

190

00:07:11,833 --> 00:07:14,250

look at the history of life on Earth, we

191

00:07:14,250 --> 00:07:15,708

can see certain key events

192

00:07:15,708 --> 00:07:17,166

happened at certain dates.

193

00:07:17,166 --> 00:07:20,000

And that gives us a key clue to basically

194

00:07:20,000 --> 00:07:22,208

how many hard steps life had to go

195

00:07:22,208 --> 00:07:23,333

through to get to where we are.

196

00:07:23,333 --> 00:07:25,666

And that's another key parameter. So with

197

00:07:25,666 --> 00:07:28,500

those three parameters, each one of them

198

00:07:28,500 --> 00:07:29,916

tells us about one of the three

199

00:07:29,916 --> 00:07:32,333

parameters in this three parameter model.

200

00:07:32,333 --> 00:07:33,750

And that tells us where

201

00:07:33,750 --> 00:07:34,916

aliens are in space time.

202

00:07:35,833 --> 00:07:37,708

Wow, that is very clever. Let's talk

203

00:07:37,708 --> 00:07:39,416

about some of the assumptions in there.

204

00:07:39,416 --> 00:07:41,666

One of the assumptions, I believe, is

205

00:07:41,666 --> 00:07:44,208

that some of those hard steps may have

206

00:07:44,208 --> 00:07:45,833

had to occur off of Earth.

207

00:07:45,833 --> 00:07:46,916

Is that correct? Using

208

00:07:46,916 --> 00:07:49,083

a panspermia concept?

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00:07:49,083 --> 00:07:51,583

So in our simple grabby aliens model, we

210

00:07:51,583 --> 00:07:53,916

make the simplest assumption that life on

211

00:07:53,916 --> 00:07:55,791

Earth started on Earth and had no

212

00:07:55,791 --> 00:07:56,291

ancestors before that.

213

00:07:57,291 --> 00:08:01,041

And in that simplest model, we are an

214

00:08:01,041 --> 00:08:04,458

independent origin from aliens. And

215

00:08:04,458 --> 00:08:06,416

basically, advanced life like us would

216

00:08:06,416 --> 00:08:10,041

appear roughly once per million galaxies.

217

00:08:10,041 --> 00:08:12,583

And then it would spread out at near half

218

00:08:12,583 --> 00:08:14,666

the speed of light, roughly. And then we

219

00:08:14,666 --> 00:08:16,708

might meet it in roughly a billion years

220

00:08:16,708 --> 00:08:18,708

if we were to expand to be like that.

221

00:08:18,708 --> 00:08:22,333

So it's really rare. Under that simplest

222

00:08:22,333 --> 00:08:24,291

model, there's no way

223

00:08:24,291 --> 00:08:24,916

there's any aliens near here.

224

00:08:25,916 --> 00:08:28,458

The chance that anyone would have

225

00:08:28,458 --> 00:08:30,666

originated that close is crazy low

226

00:08:30,666 --> 00:08:31,458

because they appear

227

00:08:31,458 --> 00:08:33,458

once per million galaxies.

228

00:08:33,458 --> 00:08:36,166

So the simplest model just doesn't let

229

00:08:36,166 --> 00:08:38,125

aliens be anywhere near. But we can

230

00:08:38,125 --> 00:08:39,208

modify that model in a

231

00:08:39,208 --> 00:08:42,000

plausible way to make a correlation.

232

00:08:42,000 --> 00:08:45,083

So aliens could be siblings. That is, we

233

00:08:45,083 --> 00:08:48,000

could have had a common origin, a

234

00:08:48,000 --> 00:08:51,166

previous planet before Earth, that there

235

00:08:51,166 --> 00:08:51,916

was plenty of time for that.

236

00:08:52,250 --> 00:08:55,000

So we are now at 14 billion years. Our

237

00:08:55,000 --> 00:08:56,208

planet started about four

238

00:08:56,208 --> 00:08:57,333

and a half billion years ago.

239

00:08:57,333 --> 00:08:59,000

That leaves nine and a half billion years

240

00:08:59,000 --> 00:09:00,458

at the beginning of the universe for

241

00:09:00,458 --> 00:09:02,166

other stuff to happen.

242

00:09:02,166 --> 00:09:04,375

The peak of when stars were forming was

243

00:09:04,375 --> 00:09:05,375

about four billion

244

00:09:05,375 --> 00:09:06,500

years after the origin.

245

00:09:06,500 --> 00:09:09,208

So if a star had formed then and a planet

246

00:09:09,208 --> 00:09:12,708

around it, it would have had, you know,

247

00:09:12,708 --> 00:09:17,125

another six billion years when life could

248

00:09:17,125 --> 00:09:17,916

have been evolving on it.

249

00:09:18,666 --> 00:09:22,416

And then life from that original Eden

250

00:09:22,416 --> 00:09:24,708

could have moved via a rock that smashed,

251
00:09:24,708 --> 00:09:25,916
you know, some rock smashed into the

252
00:09:25,916 --> 00:09:26,583
planet, knocks off a

253
00:09:26,583 --> 00:09:27,500
rock that has lived on it.

254
00:09:27,500 --> 00:09:29,625
It drifts and it could have seeded the

255
00:09:29,625 --> 00:09:32,583
stellar nursery where Earth was formed.

256
00:09:32,583 --> 00:09:34,708
So stars are formed in nurseries with

257
00:09:34,708 --> 00:09:37,250
roughly a thousand stars all formed

258
00:09:37,250 --> 00:09:39,583
together in the same place in time,

259
00:09:39,583 --> 00:09:41,000
really close to each other with lots of

260
00:09:41,000 --> 00:09:42,500
rocks flying back and forth.

261
00:09:42,500 --> 00:09:44,333
And when we say this life, we're talking

262
00:09:44,333 --> 00:09:44,916
about microbial life.

263
00:09:45,708 --> 00:09:49,541

Right. Yeah, something very simple. But

264

00:09:49,541 --> 00:09:51,000

life could have started.

265

00:09:51,000 --> 00:09:53,208

But the most complex, perhaps at this

266

00:09:53,208 --> 00:09:55,041

point in history in this local group.

267

00:09:55,041 --> 00:09:57,416

So life had to go from really simple at

268

00:09:57,416 --> 00:09:59,083

the beginning all the way to really

269

00:09:59,083 --> 00:10:00,291

complicated where we are.

270

00:10:00,291 --> 00:10:02,125

And the plausibly that was just really

271

00:10:02,125 --> 00:10:03,208

hard. There were a lot of hard things

272

00:10:03,208 --> 00:10:04,833

that had to happen to make that happen.

273

00:10:04,833 --> 00:10:07,041

So in order for that to happen in the

274

00:10:07,041 --> 00:10:09,166

last four billion years of our life on

275

00:10:09,166 --> 00:10:10,291

Earth, life on Earth

276

00:10:10,291 --> 00:10:11,583

had to get really lucky.

277

00:10:12,541 --> 00:10:14,125

A bunch of things that were really hard

278

00:10:14,125 --> 00:10:17,041

happened to happen especially fast.

279

00:10:17,041 --> 00:10:19,500

And so an analogy is cancer in the human

280

00:10:19,500 --> 00:10:21,500

body. So basically in your body, there

281

00:10:21,500 --> 00:10:23,291

are trillions of cells.

282

00:10:23,291 --> 00:10:24,958

And in order for you to get cancer, one

283

00:10:24,958 --> 00:10:28,625

of those cells has to have six mutations.

284

00:10:28,625 --> 00:10:30,333

And it's really unlikely for any one cell

285

00:10:30,333 --> 00:10:32,250

to even have one mutation.

286

00:10:32,250 --> 00:10:34,000

And so it's especially unlikely for a

287

00:10:34,000 --> 00:10:35,333

cell to have six mutations.

288

00:10:35,333 --> 00:10:37,166

But by the end of your life, you have a

289

00:10:37,166 --> 00:10:38,791

40 percent chance of having cancer

290

00:10:38,791 --> 00:10:39,916

somewhere in your body.

291

00:10:40,208 --> 00:10:42,291

So one of those cells had all six

292

00:10:42,291 --> 00:10:43,833

mutations. It got really lucky, that one

293

00:10:43,833 --> 00:10:45,833

cell, in the sense of all those things

294

00:10:45,833 --> 00:10:47,416

happening in that one cell.

295

00:10:47,416 --> 00:10:49,875

So the analogy is with Earth is there's

296

00:10:49,875 --> 00:10:52,500

all these planets, and maybe many of them

297

00:10:52,500 --> 00:10:53,375

start out at the

298

00:10:53,375 --> 00:10:56,458

beginning of this life path.

299

00:10:56,458 --> 00:10:58,250

But it's really hard to go down each

300

00:10:58,250 --> 00:10:59,208

step. And most of them

301

00:10:59,208 --> 00:11:00,583

never get past the first step.

302

00:11:00,583 --> 00:11:01,916

They never even get to the first step.

303

00:11:02,375 --> 00:11:05,541

But some lucky planets go through all of

304

00:11:05,541 --> 00:11:08,083

these mutations and finally get to a

305

00:11:08,083 --> 00:11:10,166

place where we are before the deadline

306

00:11:10,166 --> 00:11:11,000

where that planet no

307

00:11:11,000 --> 00:11:12,666

longer supports life.

308

00:11:12,666 --> 00:11:15,500

And the idea is Earth was really lucky.

309

00:11:15,500 --> 00:11:17,583

And that's why we're so rare.

310

00:11:17,583 --> 00:11:21,625

But if there was a longer period of time

311

00:11:21,625 --> 00:11:24,208

when life started on some Eden, then it

312

00:11:24,208 --> 00:11:25,541

would have had a lot more time to go

313

00:11:25,541 --> 00:11:27,583

through all those steps and makes that

314

00:11:27,583 --> 00:11:28,916

whole process a lot more likely.

315

00:11:29,500 --> 00:11:32,083

And so life could have gone halfway down

316

00:11:32,083 --> 00:11:35,083

the path to a much more complicated than

317

00:11:35,083 --> 00:11:36,166

the very basic life.

318

00:11:36,166 --> 00:11:38,250

And then some rock knocked it off, and

319

00:11:38,250 --> 00:11:40,250

then it seeded our stellar nursery with

320

00:11:40,250 --> 00:11:41,958

some intermediate complexity life.

321

00:11:41,958 --> 00:11:44,333

And then that continued to evolve for the

322

00:11:44,333 --> 00:11:45,458

last four billion years

323

00:11:45,458 --> 00:11:47,041

to get to where we are.

324

00:11:47,041 --> 00:11:48,666

And seeding that stellar nursery would

325

00:11:48,666 --> 00:11:50,750

have seeded basically all of those stars

326

00:11:50,750 --> 00:11:52,833

with life at that level of complexity.

327

00:11:53,000 --> 00:11:55,958

And then all the stars drifted apart

328

00:11:55,958 --> 00:11:57,166

quickly, and they formed

329

00:11:57,166 --> 00:11:58,916

a ring around the galaxy.

330

00:11:58,916 --> 00:12:00,125

And we can actually see them out there

331

00:12:00,125 --> 00:12:01,458

because they have exactly the same

332

00:12:01,458 --> 00:12:03,291

chemical composition as our star.

333

00:12:03,291 --> 00:12:04,916

Our star, because it came from the same

334

00:12:04,916 --> 00:12:06,125

nurseries, we can actually

335

00:12:06,125 --> 00:12:08,166

identify many of them out there.

336

00:12:08,166 --> 00:12:10,750

And the idea is one of those other stars

337

00:12:10,750 --> 00:12:13,708

had a planet which life evolved like on

338

00:12:13,708 --> 00:12:16,833

Earth, but it got to our level first.

339

00:12:18,500 --> 00:12:20,583

And they had an advanced civilization

340

00:12:20,583 --> 00:12:23,041

there, and then they came here.

341

00:12:23,041 --> 00:12:25,000

And that's how there could be aliens

342

00:12:25,000 --> 00:12:26,500

here, but not anywhere else

343

00:12:26,500 --> 00:12:28,333

for the next million galaxies.

344

00:12:28,333 --> 00:12:29,750

All right. There's a local cluster of

345

00:12:29,750 --> 00:12:30,708

life that popped up.

346

00:12:30,708 --> 00:12:31,708

Right, exactly.

347

00:12:31,708 --> 00:12:32,958

Well, let's talk a little

348

00:12:32,958 --> 00:12:36,625

bit about that stellar nursery.

349

00:12:36,625 --> 00:12:38,416

This is how you calculate

350

00:12:38,416 --> 00:12:39,916

your priors for this, correct?

351

00:12:39,916 --> 00:12:42,083

And would you mind defining that, how you

352

00:12:42,083 --> 00:12:43,958

kind of calculate a probability based off

353

00:12:43,958 --> 00:12:44,916

of what you just said?

354

00:12:45,416 --> 00:12:48,375

So the key idea for UAPs

355

00:12:48,375 --> 00:12:50,875

would be, what the hell?

356

00:12:50,875 --> 00:12:52,208

What are these things?

357

00:12:52,208 --> 00:12:53,500

We have four major

358

00:12:53,500 --> 00:12:54,958

categories of theories.

359

00:12:54,958 --> 00:12:56,291

You know, they could be just

360

00:12:56,291 --> 00:12:57,458

mistakes and hallucinations.

361

00:12:57,458 --> 00:12:59,375

They could be lies and hoaxes.

362

00:12:59,375 --> 00:13:01,833

They could be some hidden Earth

363

00:13:01,833 --> 00:13:03,416

organization with amazing powers, or it

364

00:13:03,416 --> 00:13:05,041

could be some alien

365

00:13:05,041 --> 00:13:06,916

organization with amazing powers.

366

00:13:06,916 --> 00:13:09,750

So in order to guess the relative chances

367

00:13:09,750 --> 00:13:12,000

of those hypotheses, we need to have two

368

00:13:12,000 --> 00:13:12,916

things for each hypothesis.

369

00:13:14,083 --> 00:13:16,500

One is what's called a likelihood, the

370

00:13:16,500 --> 00:13:18,708

chance that the evidence we see would

371

00:13:18,708 --> 00:13:21,000

happen if that were the truth.

372

00:13:21,000 --> 00:13:22,708

And another thing we need is a prior.

373

00:13:22,708 --> 00:13:24,458

What's the chance that that sort of thing

374

00:13:24,458 --> 00:13:27,041

would happen, ignoring the evidence?

375

00:13:27,041 --> 00:13:29,166

And if we can multiply those two things

376

00:13:29,166 --> 00:13:29,958

together, normalize

377

00:13:29,958 --> 00:13:30,916

over these four options,

378

00:13:30,916 --> 00:13:33,500

and then that's how we get our posterior,

379

00:13:33,500 --> 00:13:34,375

i.e., the chance that

380

00:13:34,375 --> 00:13:34,916

each hypothesis is true.

381

00:13:35,833 --> 00:13:39,291

So because I did this grabby-aliens work,

382

00:13:39,291 --> 00:13:42,000

I decided I'm kind of an expert on the

383

00:13:42,000 --> 00:13:43,958

prior for aliens hypothesis.

384

00:13:43,958 --> 00:13:46,000

I got to say, you know, what's the a

385

00:13:46,000 --> 00:13:49,416

priori chance that this would be true?

386

00:13:49,416 --> 00:13:51,583

And in order to do that, what I need to

387

00:13:51,583 --> 00:13:54,166

do is come up with the most plausible

388

00:13:54,166 --> 00:13:55,833

hypothesis that could be consistent with

389

00:13:55,833 --> 00:13:58,375

what we know about the UFO phenomena and

390

00:13:58,375 --> 00:13:58,916

the rest of the universe.

391

00:13:59,916 --> 00:14:02,875

And then for each component of the

392

00:14:02,875 --> 00:14:06,625

hypothesis, penalize it for how specific,

393

00:14:06,625 --> 00:14:09,000

unusual an assumption I'm making in order

394

00:14:09,000 --> 00:14:11,166

to make the story work.

395

00:14:11,166 --> 00:14:13,708

So I've come up with what I think is the

396

00:14:13,708 --> 00:14:17,625

best story I can for if UFOs were aliens,

397

00:14:17,625 --> 00:14:19,250

how that could make any sense.

398

00:14:19,250 --> 00:14:20,916

And it's got several components.

399

00:14:21,000 --> 00:14:23,541

And when I put those components together,

400

00:14:23,541 --> 00:14:25,541

I come up with a prior of, say, roughly

401
00:14:25,541 --> 00:14:27,291
one in a thousand, one in ten or a

402
00:14:27,291 --> 00:14:29,791
hundred thousand in that range.

403
00:14:29,791 --> 00:14:32,333
And the important point is that's high

404
00:14:32,333 --> 00:14:33,375
enough that you really

405
00:14:33,375 --> 00:14:34,791
got to look at the evidence.

406
00:14:34,791 --> 00:14:35,625
That's the key point.

407
00:14:35,625 --> 00:14:39,000
So in a murder trial, you're asked to

408
00:14:39,000 --> 00:14:41,875
believe that A, murdered B, okay?

409
00:14:41,875 --> 00:14:43,916
The prior probability on that is

410
00:14:43,916 --> 00:14:44,916
basically one in a million.

411
00:14:44,916 --> 00:14:46,541
That is, only one in a thousand people

412
00:14:46,541 --> 00:14:48,291
get killed, and they probably have a

413
00:14:48,291 --> 00:14:49,208

thousand people nearby

414

00:14:49,208 --> 00:14:49,916

who might have done it.

415

00:14:50,500 --> 00:14:52,833

And so to believe that A killed B, you're

416

00:14:52,833 --> 00:14:54,166

being asked to overcome a

417

00:14:54,166 --> 00:14:55,416

prior of one in a million.

418

00:14:55,416 --> 00:14:56,625

But often you can do that.

419

00:14:56,625 --> 00:14:58,416

Concrete evidence in a murder trial will

420

00:14:58,416 --> 00:15:01,166

convince you that, yeah, A killed B.

421

00:15:01,166 --> 00:15:03,458

And so that's why you don't

422

00:15:03,458 --> 00:15:04,458

dismiss a murder accusation.

423

00:15:04,458 --> 00:15:05,291

You don't just say

424

00:15:05,291 --> 00:15:06,250

murder's crazy unlikely.

425

00:15:06,250 --> 00:15:07,166

That couldn't have happened.

426

00:15:07,166 --> 00:15:08,708

Just ignore it, right?

427

00:15:08,708 --> 00:15:11,458

And so—but many people for the UFOs as

428

00:15:11,458 --> 00:15:14,000

aliens hypothesis, they

429

00:15:14,000 --> 00:15:16,083

basically say, that's so crazy.

430

00:15:16,083 --> 00:15:16,791

I don't even have to

431

00:15:16,791 --> 00:15:17,291

look at this evidence.

432

00:15:17,291 --> 00:15:19,166

That's so unlikely that it's

433

00:15:19,166 --> 00:15:20,208

just so neat to look at it.

434

00:15:20,208 --> 00:15:23,375

No unlikely. Let's not even quantify it.

435

00:15:23,375 --> 00:15:24,083

Right.

436

00:15:24,083 --> 00:15:25,875

Now, there are some kinds of hypothesis

437

00:15:25,875 --> 00:15:27,333

you might think are so unlikely that

438

00:15:27,333 --> 00:15:28,125

you're just not even

439

00:15:28,125 --> 00:15:29,375
going to consider them.

440

00:15:29,375 --> 00:15:31,083
But I'd say in this

441

00:15:31,083 --> 00:15:33,250
case, isn't one of them.

442

00:15:33,250 --> 00:15:34,625
This is the sort of thing you'll have to

443

00:15:34,625 --> 00:15:35,541
look at the evidence for.

444

00:15:35,541 --> 00:15:36,708
That would be the main point.

445

00:15:36,708 --> 00:15:38,583
But that's my contribution to this whole

446

00:15:38,583 --> 00:15:42,333
issue, is to say, first of all, the prior

447

00:15:42,333 --> 00:15:43,916
likelihood is high enough that you got to look at the evidence.

448

00:15:44,375 --> 00:15:46,083
You can't just dismiss it on the basis of

449

00:15:46,083 --> 00:15:47,541
that seems crazy unlikely.

450

00:15:47,541 --> 00:15:49,333
And then furthermore, well, what

451

00:15:49,333 --> 00:15:51,000

specifically is the most likely

452

00:15:51,000 --> 00:15:52,500

hypothesis that could make sense of this?

453

00:15:52,500 --> 00:15:54,000

Because that's the sort of thing you

454

00:15:54,000 --> 00:15:55,916

should kind of believe if you end up

455

00:15:55,916 --> 00:15:58,791

believing that you're a piece of aliens.

456

00:15:58,791 --> 00:16:00,500

Well, before we talk about some of that

457

00:16:00,500 --> 00:16:04,125

evidence, let me just ask you with what

458

00:16:04,125 --> 00:16:05,625

you just said about stellar nurseries and

459

00:16:05,625 --> 00:16:06,916

our ability to detect

460

00:16:06,916 --> 00:16:07,916

them and identify them.

461

00:16:09,083 --> 00:16:12,208

One, is there a way to perhaps use that

462

00:16:12,208 --> 00:16:14,125

proactively, that information, that

463

00:16:14,125 --> 00:16:16,375

knowledge to further

464

00:16:16,375 --> 00:16:19,041

refine that calculation?

465

00:16:19,041 --> 00:16:21,083

And two, would that perhaps be useful

466

00:16:21,083 --> 00:16:22,833

that what you just stated that

467

00:16:22,833 --> 00:16:24,208

observation would that be useful and

468

00:16:24,208 --> 00:16:27,500

perhaps for SETI or for James Webb

469

00:16:27,500 --> 00:16:31,250

Telescope as a target list of potential

470

00:16:31,250 --> 00:16:32,916

solar systems for further observation?

471

00:16:33,375 --> 00:16:35,250

Perhaps there are microorganisms that are

472

00:16:35,250 --> 00:16:36,750

producing gas in these atmosphere. James

473

00:16:36,750 --> 00:16:38,041

Webb might be able to detect them.

474

00:16:38,041 --> 00:16:41,166

Do you think that might be a legitimate

475

00:16:41,166 --> 00:16:43,708

path to pursue for more proactive

476

00:16:43,708 --> 00:16:46,083

observations of life?

477

00:16:46,083 --> 00:16:49,166

If Panspermia's siblings hypothesis is

478

00:16:49,166 --> 00:16:51,708

true, then in fact, there's these

479

00:16:51,708 --> 00:16:54,625

thousand other stars out there where

480

00:16:54,625 --> 00:16:56,416

planets around them plausibly will

481

00:16:56,416 --> 00:16:57,916

actually be hosting life at the moment.

482

00:16:58,083 --> 00:16:59,708

They are a good candidate for looking

483

00:16:59,708 --> 00:17:01,458

through telescopes to see

484

00:17:01,458 --> 00:17:03,583

if life is at those planets.

485

00:17:03,583 --> 00:17:05,125

And, you know, standard signature is to

486

00:17:05,125 --> 00:17:07,208

look in their atmosphere and see, say, do

487

00:17:07,208 --> 00:17:09,125

they have a lot of free oxygen, because

488

00:17:09,125 --> 00:17:10,416

that's a signature in our

489

00:17:10,416 --> 00:17:12,625

atmosphere that there's life here.

490

00:17:12,625 --> 00:17:14,541

The problem is, at the moment, say, our

491

00:17:14,541 --> 00:17:17,833

best telescopes can see some kinds of,

492

00:17:17,833 --> 00:17:20,500

you know, gases in atmospheres relatively

493

00:17:20,500 --> 00:17:22,958

close, maybe, you know, a

494

00:17:22,958 --> 00:17:24,791

10 or 100 light years away.

495

00:17:25,500 --> 00:17:27,666

These thousand planets are basically, you

496

00:17:27,666 --> 00:17:30,500

know, five or 10,000 light years away

497

00:17:30,500 --> 00:17:34,041

because they're spread in a circle around

498

00:17:34,041 --> 00:17:36,083

the center of the galaxy.

499

00:17:36,083 --> 00:17:37,500

Oh, that's right. They've been taking

500

00:17:37,500 --> 00:17:38,833

four billion years to

501
00:17:38,833 --> 00:17:40,416
spread out. It's interesting.

502
00:17:40,416 --> 00:17:42,000
So, yeah, they're basically a ring around

503
00:17:42,000 --> 00:17:43,833
the galaxy. Right. And so

504
00:17:43,833 --> 00:17:45,500
some of that ring is close.

505
00:17:45,500 --> 00:17:47,000
And so there's probably something that's

506
00:17:47,000 --> 00:17:48,125
the closest one. And we

507
00:17:48,125 --> 00:17:48,916
should try to look at that.

508
00:17:50,083 --> 00:17:52,875
But that wouldn't be clear evidence

509
00:17:52,875 --> 00:17:55,583
because maybe only a third or a tenth of

510
00:17:55,583 --> 00:17:56,500
them have been seated

511
00:17:56,500 --> 00:17:57,666
with life or something.

512
00:17:57,666 --> 00:17:59,500
So maybe a particular star wouldn't

513
00:17:59,500 --> 00:18:01,000

happen to have planets in the right place

514

00:18:01,000 --> 00:18:03,083

or whatever, the right type.

515

00:18:03,083 --> 00:18:04,291

But still, yeah, it

516

00:18:04,291 --> 00:18:05,875

would be a way to check.

517

00:18:05,875 --> 00:18:08,041

Interesting. And you're not claiming that

518

00:18:08,041 --> 00:18:11,500

that ring wouldn't be the only hospitable

519

00:18:11,500 --> 00:18:13,625

place in our galaxy, but only hospitable

520

00:18:13,625 --> 00:18:16,333

for potentially life that would be

521

00:18:16,333 --> 00:18:16,916

immediately

522

00:18:16,916 --> 00:18:17,916

recognizable as congruent to us.

523

00:18:18,250 --> 00:18:20,666

Well, it's just the place that it would

524

00:18:20,666 --> 00:18:22,333

be if we had a common origin.

525

00:18:22,333 --> 00:18:25,000

Got it. Right. In the stellar nursery.

526

00:18:25,000 --> 00:18:26,500

Right. So any place out

527

00:18:26,500 --> 00:18:27,416

there maybe could have life.

528

00:18:27,416 --> 00:18:29,833

But again, we've got this like really low

529

00:18:29,833 --> 00:18:32,333

chance that any one thing gets very far.

530

00:18:32,333 --> 00:18:34,375

But the stellar siblings might have

531

00:18:34,375 --> 00:18:35,708

gotten a lot farther because they have

532

00:18:35,708 --> 00:18:36,583

this because we know

533

00:18:36,583 --> 00:18:38,250

that we got a long way.

534

00:18:38,250 --> 00:18:40,166

And that means our siblings have a much

535

00:18:40,166 --> 00:18:41,500

higher chance of having gone

536

00:18:41,500 --> 00:18:42,916

further than a random place.

537

00:18:43,041 --> 00:18:45,791

Have you spoke with any astronomers or

538

00:18:45,791 --> 00:18:47,625

others that work directly

539

00:18:47,625 --> 00:18:49,666

in this field that on this?

540

00:18:49,666 --> 00:18:51,958

No, but I would it's going to be a while

541

00:18:51,958 --> 00:18:53,500

before we get this sort of confirmation.

542

00:18:53,500 --> 00:18:56,000

But yeah, but I think many people already

543

00:18:56,000 --> 00:18:58,458

kind of know that this is one of the more

544

00:18:58,458 --> 00:18:59,250

interesting places to look

545

00:18:59,250 --> 00:19:00,875

is in our stellar siblings.

546

00:19:00,875 --> 00:19:02,791

All right. Well, let's talk a little bit

547

00:19:02,791 --> 00:19:04,125

about that evidence, perhaps.

548

00:19:04,125 --> 00:19:05,625

My assumption, maybe it's not correct, is

549

00:19:05,625 --> 00:19:08,541

that there's been renewed interest from

550

00:19:08,541 --> 00:19:09,833

you or involvement in this recently.

551
00:19:10,208 --> 00:19:11,791
Or has there been a pretty consistent

552
00:19:11,791 --> 00:19:14,708
drum beat on this for you?

553
00:19:14,708 --> 00:19:19,666
So among a lot of people, the idea of

554
00:19:19,666 --> 00:19:21,625
aliens is interesting and just the

555
00:19:21,625 --> 00:19:22,500
overall history of life

556
00:19:22,500 --> 00:19:23,958
on Earth is interesting.

557
00:19:23,958 --> 00:19:28,375
And I tapped into that subject 25 years

558
00:19:28,375 --> 00:19:30,708
ago when I wrote about what

559
00:19:30,708 --> 00:19:32,666
I called the Great Filter.

560
00:19:32,666 --> 00:19:34,541
And many people thought that was an

561
00:19:34,541 --> 00:19:36,000
interesting topic, but it wasn't

562
00:19:36,000 --> 00:19:37,375
something anybody thought you could get a

563
00:19:37,375 --> 00:19:37,916

job with or get funding.

564

00:19:38,500 --> 00:19:40,666

And so only a few people like me who

565

00:19:40,666 --> 00:19:42,291

would on the side play with

566

00:19:42,291 --> 00:19:43,666

it, you know, played with that.

567

00:19:43,666 --> 00:19:46,541

But over time, other people have come to

568

00:19:46,541 --> 00:19:48,625

use this phrase, the Great Filter, to

569

00:19:48,625 --> 00:19:50,583

describe the basic puzzle of why the

570

00:19:50,583 --> 00:19:53,416

universe seems so empty.

571

00:19:53,416 --> 00:19:54,375

And again, I wrote

572

00:19:54,375 --> 00:19:55,458

about that 25 years ago.

573

00:19:55,458 --> 00:19:57,500

And then I set that aside as well because

574

00:19:57,500 --> 00:19:59,541

I was trying to get a career going and

575

00:19:59,541 --> 00:20:01,958

get tenure in economics, which I did.

576

00:20:01,958 --> 00:20:02,625

And, you know, my

577

00:20:02,625 --> 00:20:03,916

colleagues said, you shouldn't.

578

00:20:04,375 --> 00:20:05,791

This is a distraction from

579

00:20:05,791 --> 00:20:07,416

your career in getting economics.

580

00:20:07,416 --> 00:20:09,208

And I took that to heart.

581

00:20:09,208 --> 00:20:11,375

But then a few years ago, I came back to

582

00:20:11,375 --> 00:20:15,291

the topic because I read a paper that was

583

00:20:15,291 --> 00:20:17,666

talking about very long-lived stars, most

584

00:20:17,666 --> 00:20:19,333

stars are much longer than ours,

585

00:20:19,333 --> 00:20:22,291

and about how this hard steps model that

586

00:20:22,291 --> 00:20:23,666

I talked about, that life has to go

587

00:20:23,666 --> 00:20:26,000

through many hard steps, has an

588

00:20:26,000 --> 00:20:28,583

interesting implication that life would

589

00:20:28,583 --> 00:20:30,333

be much more likely to show up on these

590

00:20:30,333 --> 00:20:31,791

long-lived stars than

591

00:20:31,791 --> 00:20:32,916

our short-lived star.

592

00:20:33,541 --> 00:20:35,541

And that clued me into the fact that

593

00:20:35,541 --> 00:20:36,916

people in this area had been neglecting

594

00:20:36,916 --> 00:20:38,125

this hard steps model

595

00:20:38,125 --> 00:20:39,916

when thinking about aliens.

596

00:20:39,916 --> 00:20:41,458

And so that's why I came back to this

597

00:20:41,458 --> 00:20:44,250

topic three years ago, because I had the

598

00:20:44,250 --> 00:20:45,375

sense they were missing

599

00:20:45,375 --> 00:20:46,916

that, which they were.

600

00:20:46,916 --> 00:20:49,791

And so often, you know, the key to making

601
00:20:49,791 --> 00:20:51,875
progress is to, like, keep in your mind a

602
00:20:51,875 --> 00:20:54,041
list of interesting topics and then wait

603
00:20:54,041 --> 00:20:55,291
until you have an angle on one.

604
00:20:55,291 --> 00:20:56,500
You're just like, oh, I've got an angle

605
00:20:56,500 --> 00:20:57,916
on this one that other people don't have,

606
00:20:57,916 --> 00:20:58,791
and let's pursue that

607
00:20:58,791 --> 00:20:59,916
angle and go with it.

608
00:21:00,041 --> 00:21:02,083
But that was my angle, which was this

609
00:21:02,083 --> 00:21:04,500
hard steps model people had neglected.

610
00:21:04,500 --> 00:21:07,125
So the key interesting point is, if life

611
00:21:07,125 --> 00:21:08,666
has to go through a number of hard steps

612
00:21:08,666 --> 00:21:11,625
before it can get to our point, then the

613
00:21:11,625 --> 00:21:14,375

longer the duration of a planet to go

614

00:21:14,375 --> 00:21:16,500

through all those hard steps, the more

615

00:21:16,500 --> 00:21:19,333

likely it is to succeed, and not just

616

00:21:19,333 --> 00:21:20,916

proportionally, but to a power.

617

00:21:21,541 --> 00:21:23,875

So if there were six hard steps that life

618

00:21:23,875 --> 00:21:25,583

had to go through, which is a roughly

619

00:21:25,583 --> 00:21:28,375

best estimate for a life to get to our

620

00:21:28,375 --> 00:21:31,500

level at this point, then the chance of

621

00:21:31,500 --> 00:21:33,333

advanced life appearing would go to the

622

00:21:33,333 --> 00:21:35,083

time duration of the planet to the power

623

00:21:35,083 --> 00:21:37,458

of six, which is the same in your body.

624

00:21:37,458 --> 00:21:39,666

That is, cancer in your body needs to go

625

00:21:39,666 --> 00:21:41,083

through roughly six steps

626

00:21:41,083 --> 00:21:43,083

in order to get the mutation.

627

00:21:43,083 --> 00:21:44,833

And the chance of your getting cancer as

628

00:21:44,833 --> 00:21:46,250

a function of time is roughly the power

629

00:21:46,250 --> 00:21:47,916

of six of your lifetime.

630

00:21:48,291 --> 00:21:49,500

That is, you're almost certainly to get

631

00:21:49,500 --> 00:21:51,458

it near the end of your life, not in the

632

00:21:51,458 --> 00:21:53,708

middle or the beginning.

633

00:21:53,708 --> 00:21:56,750

So the key point now here is that

634

00:21:56,750 --> 00:21:58,958

long-lived stars should be much more

635

00:21:58,958 --> 00:22:01,083

likely to have advanced life than

636

00:22:01,083 --> 00:22:02,333

short-lived stars, and we

637

00:22:02,333 --> 00:22:03,916

are on a short-lived star.

638

00:22:04,583 --> 00:22:08,000

So our planet will run out of room for

639

00:22:08,000 --> 00:22:10,541
life in another billion years, and

640

00:22:10,541 --> 00:22:11,541
therefore there's only, right, a

641

00:22:11,541 --> 00:22:14,541
five-billion-year window on Earth for us

642

00:22:14,541 --> 00:22:17,041
to appear, but the average star lasts for

643

00:22:17,041 --> 00:22:19,458
five trillion years, a

644

00:22:19,458 --> 00:22:19,958
thousand times longer.

645

00:22:20,625 --> 00:22:23,416
And so if the chance of life showing up

646

00:22:23,416 --> 00:22:26,000
on that should be a thousand times more

647

00:22:26,000 --> 00:22:28,125
raised to the power of six, or ten to the

648

00:22:28,125 --> 00:22:30,250
eighteen, which makes

649

00:22:30,250 --> 00:22:32,916
us crazy early unlikely.

650

00:22:32,916 --> 00:22:35,583
That is, why would life show up on Earth,

651

00:22:35,583 --> 00:22:37,625

which is a short-lived star with a

652

00:22:37,625 --> 00:22:39,833

short-lived planet, as opposed to on one

653

00:22:39,833 --> 00:22:42,666

of these much longer-lived stars and much

654

00:22:42,666 --> 00:22:44,291

later in the history of the universe?

655

00:22:44,291 --> 00:22:45,541

Can we talk about red dwarfs?

656

00:22:45,541 --> 00:22:46,041

Yes, exactly.

657

00:22:47,041 --> 00:22:49,166

So would that be a place—so if we

658

00:22:49,166 --> 00:22:51,583

consider our stellar nursery and the

659

00:22:51,583 --> 00:22:53,583

output from that as our cousins, if you

660

00:22:53,583 --> 00:22:56,541

will, would looking at life around red

661

00:22:56,541 --> 00:22:58,875

dwarfs be more applicable to looking at

662

00:22:58,875 --> 00:23:01,708

perhaps older, more mature civilizations?

663

00:23:01,708 --> 00:23:03,791

Well, if we were later in the history of

664

00:23:03,791 --> 00:23:04,333

the universe, that's where

665

00:23:04,333 --> 00:23:06,750

we'd look, but we're now early.

666

00:23:06,750 --> 00:23:09,083

So they're all these—even the red dwarf

667

00:23:09,083 --> 00:23:10,375

stars, they have only been around for a

668

00:23:10,375 --> 00:23:11,208

few billion years, right?

669

00:23:11,208 --> 00:23:12,500

They haven't been around for trillions of

670

00:23:12,500 --> 00:23:13,041

years because the

671

00:23:13,041 --> 00:23:13,875

universe isn't that old.

672

00:23:14,416 --> 00:23:17,208

So the puzzle here is that we do a

673

00:23:17,208 --> 00:23:19,416

calculation that says, if the universe

674

00:23:19,416 --> 00:23:21,250

would sit and wait empty for advanced

675

00:23:21,250 --> 00:23:23,500

life to show up, then it should show up

676

00:23:23,500 --> 00:23:26,416

much later than now.

677

00:23:26,416 --> 00:23:29,458

And the answer to this puzzle is the

678

00:23:29,458 --> 00:23:30,916

universe would not sit and wait empty.

679

00:23:32,291 --> 00:23:35,083

Right now, the universe is filling up.

680

00:23:35,083 --> 00:23:37,833

Aliens are right now out there taking the

681

00:23:37,833 --> 00:23:40,291

universe, reshaping it, making it the way

682

00:23:40,291 --> 00:23:42,958

they want, and they're expanding, and in

683

00:23:42,958 --> 00:23:43,750

roughly a billion years

684

00:23:43,750 --> 00:23:45,583

or so, it'll all be taken.

685

00:23:45,583 --> 00:23:47,125

And there won't be any place

686

00:23:47,125 --> 00:23:48,708

for life like us to appear.

687

00:23:48,708 --> 00:23:51,000

We had to appear before that deadline,

688

00:23:51,000 --> 00:23:51,958

and that's the answer

689

00:23:51,958 --> 00:23:53,708

to why we're so early.

690

00:23:53,708 --> 00:23:55,666

All advanced life has to appear before

691

00:23:55,666 --> 00:23:57,208

the deadline of when the

692

00:23:57,208 --> 00:23:57,916

universe gets filled up.

693

00:23:59,666 --> 00:24:02,416

And that's the reason why we are early,

694

00:24:02,416 --> 00:24:03,833

and that's why the reason why the data on

695

00:24:03,833 --> 00:24:04,750

the clock is telling

696

00:24:04,750 --> 00:24:07,125

you they're out there.

697

00:24:07,125 --> 00:24:09,416

But then to fill out this model, we need

698

00:24:09,416 --> 00:24:12,291

to make a full statistical model of the

699

00:24:12,291 --> 00:24:14,208

distribution of aliens in space-time.

700

00:24:14,208 --> 00:24:15,708

And so that's what we've done with the

701
00:24:15,708 --> 00:24:17,916
three-parameter model, fit to three

702
00:24:17,916 --> 00:24:20,500
pieces of data that tells us roughly

703
00:24:20,500 --> 00:24:22,875
where they are and when we'll meet them.

704
00:24:22,875 --> 00:24:25,000
Very cool. And I know you actually were

705
00:24:25,000 --> 00:24:26,916
able to calculate a date. It's nothing on our calendar, but—

706
00:24:27,500 --> 00:24:29,500
What we show is there's a probability

707
00:24:29,500 --> 00:24:31,541
distribution over the date, and there's a

708
00:24:31,541 --> 00:24:33,000
small chance it could be much earlier,

709
00:24:33,000 --> 00:24:34,625
but the middle of the distribution is

710
00:24:34,625 --> 00:24:35,875
roughly a billion years.

711
00:24:35,875 --> 00:24:37,916
It depends on some parameters, so it's a

712
00:24:37,916 --> 00:24:40,166
very rough estimate, but it's not soon.

713
00:24:40,166 --> 00:24:42,500

By chance. That would be a chance.

714

00:24:42,500 --> 00:24:44,125

Right. So there's a bunch

715

00:24:44,125 --> 00:24:45,916

of random variables in here.

716

00:24:45,916 --> 00:24:47,708

How early are we in the distribution of

717

00:24:47,708 --> 00:24:49,000

alien civilization? We could be very

718

00:24:49,000 --> 00:24:49,916

early. We could be very late.

719

00:24:50,750 --> 00:24:53,083

They appear once per million galaxies,

720

00:24:53,083 --> 00:24:54,791

but at random. Didn't one happen to

721

00:24:54,791 --> 00:24:55,666

appear much closer to

722

00:24:55,666 --> 00:24:57,458

us or much farther away?

723

00:24:57,458 --> 00:24:59,208

Those random elements means we can't set

724

00:24:59,208 --> 00:25:02,708

the exact date because we're not sure how

725

00:25:02,708 --> 00:25:03,958

early we are or how

726

00:25:03,958 --> 00:25:05,083

close the nearest one is.

727

00:25:05,083 --> 00:25:06,500

I guess what I'm trying to get at here is

728

00:25:06,500 --> 00:25:08,333

if we then look at the model and say,

729

00:25:08,333 --> 00:25:10,750

"Okay, UAP do represent something from

730

00:25:10,750 --> 00:25:13,500

somewhere else," that much lower

731

00:25:13,500 --> 00:25:15,541

probability becomes a certainty.

732

00:25:15,541 --> 00:25:16,541

And how does that

733

00:25:16,541 --> 00:25:17,041

incorporate into that model?

734

00:25:17,625 --> 00:25:19,291

Right. So the simple grabby aliens model,

735

00:25:19,291 --> 00:25:22,250

as I said before, just doesn't find it at

736

00:25:22,250 --> 00:25:22,958

all plausible. There

737

00:25:22,958 --> 00:25:24,916

could be any aliens nearest.

738

00:25:24,916 --> 00:25:28,958

It says, "No, that's just kind of crazy."

739

00:25:28,958 --> 00:25:31,000

But there's a simple way to modify it,

740

00:25:31,000 --> 00:25:33,500

which is to assume that the aliens are

741

00:25:33,500 --> 00:25:36,166

siblings, panspermia siblings to us, that

742

00:25:36,166 --> 00:25:37,916

they evolved from the same

743

00:25:37,916 --> 00:25:40,000

original planet that we did,

744

00:25:40,000 --> 00:25:41,833

where life spread from that planet to our

745

00:25:41,833 --> 00:25:45,375

cell nursery, and then we drifted apart,

746

00:25:45,375 --> 00:25:45,916

but we had the same origin.

747

00:25:46,500 --> 00:25:48,166

And that would be a way

748

00:25:48,166 --> 00:25:50,750

to allow aliens being here.

749

00:25:50,750 --> 00:25:53,083

What are they doing?

750

00:25:53,083 --> 00:25:56,541

Well, so we have to add something more to

751

00:25:56,541 --> 00:25:58,375

this story to have it make sense.

752

00:25:58,375 --> 00:26:01,333

So if panspermia siblings showed up

753

00:26:01,333 --> 00:26:06,083

before us, the statistics say they

754

00:26:06,083 --> 00:26:08,625

couldn't have shown up just a thousand

755

00:26:08,625 --> 00:26:09,666

years ago or a million years ago.

756

00:26:09,666 --> 00:26:10,791

That would be an amazing

757

00:26:10,791 --> 00:26:11,291

coincidence in their timing.

758

00:26:11,916 --> 00:26:13,666

Plausibly, they would have appeared a

759

00:26:13,666 --> 00:26:16,583

hundred million years ago or even longer.

760

00:26:16,583 --> 00:26:18,791

And in our galaxy, like a few thousand

761

00:26:18,791 --> 00:26:21,000

light years away, a hundred million years

762

00:26:21,000 --> 00:26:23,625

ago, a hundred million years is plenty of

763

00:26:23,625 --> 00:26:26,666

time for civilization that allows it to

764

00:26:26,666 --> 00:26:29,083

just expand, fill the whole galaxy, fill

765

00:26:29,083 --> 00:26:31,833

the neighboring hundred galaxies,

766

00:26:32,958 --> 00:26:35,666

and make a huge difference such that we

767

00:26:35,666 --> 00:26:37,250

wouldn't be here now. That is, they could

768

00:26:37,250 --> 00:26:39,833

have come to Earth a long time ago and

769

00:26:39,833 --> 00:26:42,375

remade Earth and remade everything nearby

770

00:26:42,375 --> 00:26:45,000

into whatever civilization they wanted.

771

00:26:45,000 --> 00:26:47,041

Clearly, they didn't do that.

772

00:26:47,041 --> 00:26:49,166

So in order to make sense of the story

773

00:26:49,166 --> 00:26:50,750

that aliens are here now, and they showed

774

00:26:50,750 --> 00:26:52,250

up as our siblings a hundred million

775

00:26:52,250 --> 00:26:53,541

years ago, we have to add a

776

00:26:53,541 --> 00:26:55,250

next element to our story,

777

00:26:55,250 --> 00:26:56,666

and we're going to have to penalize our

778

00:26:56,666 --> 00:26:58,208

hypothesis for this next element, which

779

00:26:58,208 --> 00:26:59,708

is they, for some

780

00:26:59,708 --> 00:27:00,916

reason, did not want to expand.

781

00:27:02,000 --> 00:27:05,291

They did not want to allow this remaking

782

00:27:05,291 --> 00:27:07,833

of the galaxy and the universe. They had

783

00:27:07,833 --> 00:27:09,458

a rule against that.

784

00:27:09,458 --> 00:27:11,000

Now, if we talk to people today, there's

785

00:27:11,000 --> 00:27:12,250

a lot of people who think that would be a

786

00:27:12,250 --> 00:27:14,041

good idea. So it's not so crazy.

787

00:27:14,041 --> 00:27:15,958

A lot of people are kind of wary of us

788

00:27:15,958 --> 00:27:16,583

going out in the

789

00:27:16,583 --> 00:27:17,583

universe and remaking it.

790

00:27:17,583 --> 00:27:20,375

They think that's somewhat of a harm to

791

00:27:20,375 --> 00:27:21,916

nature. It's arrogant, et cetera.

792

00:27:22,875 --> 00:27:25,500

And in addition, it would break our

793

00:27:25,500 --> 00:27:28,000

civilization permanently into fragments

794

00:27:28,000 --> 00:27:30,291

that couldn't be unified together by a

795

00:27:30,291 --> 00:27:32,458

single central governance or community.

796

00:27:32,458 --> 00:27:34,250

I just want to say real quick, too, we're

797

00:27:34,250 --> 00:27:36,875

using the speed of light as a travel and

798

00:27:36,875 --> 00:27:38,291

communication limit in this theory.

799

00:27:38,291 --> 00:27:41,666

Yes. So if you assume the speed of light

800

00:27:41,666 --> 00:27:42,833

is not a limit, you

801
00:27:42,833 --> 00:27:43,916
have a much bigger puzzle,

802
00:27:45,166 --> 00:27:48,125
because if you could go faster than speed

803
00:27:48,125 --> 00:27:50,708
of light, then any civilization anywhere

804
00:27:50,708 --> 00:27:52,875
in the universe could fill the entire

805
00:27:52,875 --> 00:27:54,000
universe in space time all

806
00:27:54,000 --> 00:27:55,416
the way back to the beginning.

807
00:27:55,416 --> 00:27:57,000
So the fact the universe is empty would

808
00:27:57,000 --> 00:27:58,375
be a much bigger puzzle.

809
00:27:58,375 --> 00:28:01,250
It would say no civilization anywhere in

810
00:28:01,250 --> 00:28:02,791
space time wanted to

811
00:28:02,791 --> 00:28:05,083
come here and do stuff here.

812
00:28:05,083 --> 00:28:07,333
So either you'd have to believe there was

813
00:28:07,333 --> 00:28:09,833

only very few of them who decided not to

814

00:28:09,833 --> 00:28:10,916

expand or there's none other out there.

815

00:28:11,833 --> 00:28:15,833

So I think it's a much more plausible

816

00:28:15,833 --> 00:28:17,833

hypothesis to believe that the speed of

817

00:28:17,833 --> 00:28:19,083

light is a solid limit,

818

00:28:19,083 --> 00:28:20,833

in which case you only have to explain

819

00:28:20,833 --> 00:28:22,375

why stuff in our backward light cone

820

00:28:22,375 --> 00:28:24,875

isn't here, not why nothing

821

00:28:24,875 --> 00:28:26,916

in the entire universe is here.

822

00:28:26,916 --> 00:28:28,375

To review, we're trying to

823

00:28:28,375 --> 00:28:31,333

make sense of UAPs as aliens.

824

00:28:31,333 --> 00:28:33,208

And we're asking what story can we make

825

00:28:33,208 --> 00:28:36,541

up that fits what we see and is the most

826

00:28:36,541 --> 00:28:37,916

likely in order to—

827

00:28:38,291 --> 00:28:39,416

and then at the end of it we're going to

828

00:28:39,416 --> 00:28:41,291

ask, how likely is that?

829

00:28:41,291 --> 00:28:43,375

Is that crazy unlikely or just only

830

00:28:43,375 --> 00:28:45,500

somewhat unlikely in the

831

00:28:45,500 --> 00:28:46,958

analogy with the murder trial?

832

00:28:46,958 --> 00:28:48,708

OK, so one thing we had to assume,

833

00:28:48,708 --> 00:28:51,500

panspermia siblings, like the nearest

834

00:28:51,500 --> 00:28:52,541

other aliens are a

835

00:28:52,541 --> 00:28:53,750

million light years away—

836

00:28:53,750 --> 00:28:57,291

I'm sorry, a million galaxies away—and

837

00:28:57,291 --> 00:29:00,166

they are here near us coincidentally

838

00:29:00,166 --> 00:29:01,666

because they had the same origin for us,

839

00:29:01,666 --> 00:29:02,541

panspermia siblings.

840

00:29:03,000 --> 00:29:05,166

The other thing we've got to assume is

841

00:29:05,166 --> 00:29:06,916

for some reason they did not want to go

842

00:29:06,916 --> 00:29:08,291

out and conquer the

843

00:29:08,291 --> 00:29:10,125

universe and fill it up with stuff.

844

00:29:10,125 --> 00:29:12,625

They chose to prevent anyone in their

845

00:29:12,625 --> 00:29:13,875

civilization from doing that because it

846

00:29:13,875 --> 00:29:14,541

would have just taken

847

00:29:14,541 --> 00:29:16,750

one deviant to do it.

848

00:29:16,750 --> 00:29:18,625

And they managed to enforce this rule for

849

00:29:18,625 --> 00:29:20,291

100 million years or

850

00:29:20,291 --> 00:29:22,125

more. Pretty impressive.

851

00:29:22,125 --> 00:29:25,208

Does that penalize your model as well?

852

00:29:25,208 --> 00:29:27,291

Somewhat. Yeah, you have to say how

853

00:29:27,291 --> 00:29:28,541

plausible it is that it could have lasted

854

00:29:28,541 --> 00:29:29,458

for 100 million years

855

00:29:30,208 --> 00:29:31,208

for those to make this

856

00:29:31,208 --> 00:29:33,666

assumption of no expansion.

857

00:29:33,666 --> 00:29:34,833

And then you have to ask, what's the

858

00:29:34,833 --> 00:29:35,875

chance they would have made

859

00:29:35,875 --> 00:29:38,125

this rule of no expansion?

860

00:29:38,125 --> 00:29:40,208

But once you make those assumptions, now

861

00:29:40,208 --> 00:29:41,208

we have an explanation

862

00:29:41,208 --> 00:29:42,833

for why they'd be here.

863

00:29:42,833 --> 00:29:44,958

We'd say, well, they know that if they're

864

00:29:44,958 --> 00:29:46,958
making this rule and some other

865

00:29:46,958 --> 00:29:50,041
panspermia sibling shows up and expands,

866

00:29:50,041 --> 00:29:51,541
then that defeats the

867

00:29:51,541 --> 00:29:52,875
purpose of their rule.

868

00:29:52,875 --> 00:29:54,500
Somebody else will go fill the universe.

869

00:29:54,500 --> 00:29:56,000
And if they don't want that, then they've

870

00:29:56,000 --> 00:29:57,833
got to come here to

871

00:29:57,833 --> 00:29:58,916
do something about it.

872

00:29:59,916 --> 00:30:00,583
Obviously, one thing they

873

00:30:00,583 --> 00:30:02,291
could have done is just destroy us.

874

00:30:02,291 --> 00:30:03,583
They could have just sent a bomb from a

875

00:30:03,583 --> 00:30:04,000
distance, and that

876

00:30:04,000 --> 00:30:05,833

would be the end of it.

877

00:30:05,833 --> 00:30:07,583

Easy peasy.

878

00:30:07,583 --> 00:30:09,666

But we'll have to also add the assumption

879

00:30:09,666 --> 00:30:12,583

that they didn't want to just destroy us.

880

00:30:12,583 --> 00:30:14,833

They would rather persuade us.

881

00:30:14,833 --> 00:30:16,416

So now we have a story for

882

00:30:16,416 --> 00:30:17,500

why they made it an exception.

883

00:30:17,500 --> 00:30:18,500

Because if they're going to have this

884

00:30:18,500 --> 00:30:19,458

rule against no expansion,

885

00:30:19,458 --> 00:30:20,916

they can't be allowing very many

886

00:30:20,916 --> 00:30:22,291

expeditions away from home.

887

00:30:22,291 --> 00:30:23,250

Every expedition

888

00:30:23,250 --> 00:30:23,916

risks breaking this rule.

889

00:30:24,291 --> 00:30:26,833

And again, they managed it for 100

890

00:30:26,833 --> 00:30:28,166

million years. They had to be pretty anal

891

00:30:28,166 --> 00:30:31,000

about this, right, to manage this.

892

00:30:31,000 --> 00:30:32,791

Nobody leaves for 100 million years.

893

00:30:32,791 --> 00:30:34,416

Every monitoring station would be an

894

00:30:34,416 --> 00:30:35,291

exception, potentially.

895

00:30:35,291 --> 00:30:37,166

Right, exactly. And every expedition away

896

00:30:37,166 --> 00:30:38,041

would be an exception.

897

00:30:38,041 --> 00:30:39,875

So they can't allow very many exceptions,

898

00:30:39,875 --> 00:30:41,750

but they chose to

899

00:30:41,750 --> 00:30:44,791

allow an exception for us.

900

00:30:44,791 --> 00:30:47,041

And so this expedition is going to come

901
00:30:47,041 --> 00:30:47,916
here, and its purpose, mainly,

902
00:30:48,708 --> 00:30:50,416
and do other things as well, is to

903
00:30:50,416 --> 00:30:54,583
convince us not to expand.

904
00:30:54,583 --> 00:30:59,500
And without killing us, preferably.

905
00:30:59,500 --> 00:31:02,958
And in addition, they don't want the

906
00:31:02,958 --> 00:31:05,125
strategy that this expedition has to be,

907
00:31:05,125 --> 00:31:06,333
require a lot of discretion

908
00:31:06,333 --> 00:31:08,500
or judgment or creativity,

909
00:31:08,500 --> 00:31:09,750
because any one of those things is going

910
00:31:09,750 --> 00:31:12,791
to risk this thing going rogue.

911
00:31:12,791 --> 00:31:14,083
So they need to

912
00:31:14,083 --> 00:31:14,916
approve a strategy from home.

913
00:31:15,958 --> 00:31:17,166

Okay, we're going to send this thing out,

914

00:31:17,166 --> 00:31:18,750

and it's going to only have the equipment

915

00:31:18,750 --> 00:31:19,625

and materials it needs

916

00:31:19,625 --> 00:31:21,750

to implement our strategy.

917

00:31:21,750 --> 00:31:23,500

And they're just going to do what we told

918

00:31:23,500 --> 00:31:24,541

them to, and they're not

919

00:31:24,541 --> 00:31:26,083

going to have a lot of discretion.

920

00:31:26,083 --> 00:31:28,208

So they can't have chosen the strategy

921

00:31:28,208 --> 00:31:29,583

based on many details about us,

922

00:31:29,583 --> 00:31:30,708

because they wouldn't know very many

923

00:31:30,708 --> 00:31:32,166

details about us, and our

924

00:31:32,166 --> 00:31:33,291

details change over time.

925

00:31:33,291 --> 00:31:36,375

So not just something, not just an

926

00:31:36,375 --> 00:31:37,916

expedition from that society,

927

00:31:38,500 --> 00:31:41,583

but a sufficient enough technology, a

928

00:31:41,583 --> 00:31:43,625

representation of that society, perhaps,

929

00:31:43,625 --> 00:31:46,416

would even break that rule.

930

00:31:46,416 --> 00:31:47,916

An artificial intelligence that they

931

00:31:47,916 --> 00:31:50,000

created, perhaps, however we define it.

932

00:31:50,000 --> 00:31:52,375

They needed to have strong political

933

00:31:52,375 --> 00:31:54,291

officers, if you will, inside this

934

00:31:54,291 --> 00:31:55,416

expedition to make sure

935

00:31:55,416 --> 00:31:57,666

it followed their rules.

936

00:31:57,666 --> 00:31:59,750

And so it needs to have a very simple

937

00:31:59,750 --> 00:32:01,625

strategy and just execute it.

938

00:32:01,625 --> 00:32:04,500

So then that's our next question.

939

00:32:04,500 --> 00:32:05,416

What quarter strategy

940

00:32:05,416 --> 00:32:06,916

could they have picked?

941

00:32:07,458 --> 00:32:09,666

And we also need to explain one more

942

00:32:09,666 --> 00:32:12,375

piece of data to combine these together.

943

00:32:12,375 --> 00:32:14,250

So the one other puzzling thing about

944

00:32:14,250 --> 00:32:16,791

UAPs is the following.

945

00:32:16,791 --> 00:32:19,416

A hundred million year old civilization

946

00:32:19,416 --> 00:32:22,625

would be either quite capable of being

947

00:32:22,625 --> 00:32:24,166

completely obvious or

948

00:32:24,166 --> 00:32:26,000

being completely invisible.

949

00:32:26,000 --> 00:32:27,000

Both of those would have

950

00:32:27,000 --> 00:32:28,916

been easy for them to do.

951

00:32:29,666 --> 00:32:32,625

And yet they chose a third option, which

952

00:32:32,625 --> 00:32:35,875

is to be at the edge of visibility, not

953

00:32:35,875 --> 00:32:37,541

making themselves really clear,

954

00:32:37,541 --> 00:32:40,083

and not being completely invisible.

955

00:32:40,083 --> 00:32:42,125

Which many people have noted is kind of a

956

00:32:42,125 --> 00:32:43,958

strange thing for them to do.

957

00:32:43,958 --> 00:32:47,750

Why hang out at the edge of visibility?

958

00:32:47,750 --> 00:32:50,041

So we're trying to explain that, and in

959

00:32:50,041 --> 00:32:52,000

addition we're saying they had to have a

960

00:32:52,000 --> 00:32:53,916

strategy to come here to persuade us.

961

00:32:54,375 --> 00:32:55,750

So we're trying to combine these two

962

00:32:55,750 --> 00:32:59,041

things into our story of why aliens would

963

00:32:59,041 --> 00:33:01,000

be here if they exist.

964

00:33:01,000 --> 00:33:04,875

So the answer I can think of to combine

965

00:33:04,875 --> 00:33:05,625

these two things

966

00:33:05,625 --> 00:33:09,875

together is domestication.

967

00:33:09,875 --> 00:33:14,125

So humans have always had a status

968

00:33:14,125 --> 00:33:15,833

hierarchy, and basically most social

969

00:33:15,833 --> 00:33:16,833

animals that are relatively

970

00:33:16,833 --> 00:33:17,916

smart have a status hierarchy.

971

00:33:18,958 --> 00:33:21,375

In a status hierarchy, the higher status

972

00:33:21,375 --> 00:33:23,916

animals are respected and deferred to by

973

00:33:23,916 --> 00:33:25,583

the lower status animals.

974

00:33:25,583 --> 00:33:27,625

And this is in fact how humans have

975

00:33:27,625 --> 00:33:30,291

usually domesticated other animals and

976
00:33:30,291 --> 00:33:32,416
domesticated ourselves.

977
00:33:32,416 --> 00:33:33,500
Basically we sit at the top

978
00:33:33,500 --> 00:33:34,958
of their status hierarchy.

979
00:33:34,958 --> 00:33:35,958
We are the top dog, the

980
00:33:35,958 --> 00:33:38,416
top horse, whatever it is.

981
00:33:38,416 --> 00:33:39,666
We show up and we are

982
00:33:39,666 --> 00:33:41,166
the top of their hierarchy.

983
00:33:41,166 --> 00:33:43,083
We show that we are stronger, more

984
00:33:43,083 --> 00:33:45,916
capable, and also somewhat friendly.

985
00:33:46,083 --> 00:33:47,333
That is, we aren't

986
00:33:47,333 --> 00:33:48,333
enemies trying to destroy them.

987
00:33:48,333 --> 00:33:51,708
We're there with them and above them.

988
00:33:51,708 --> 00:33:53,666

And we earn their respect, and we've done

989

00:33:53,666 --> 00:33:54,541

that when humans,

990

00:33:54,541 --> 00:33:56,375

like emperors of empires,

991

00:33:56,375 --> 00:33:58,541

this is how emperors have domesticated

992

00:33:58,541 --> 00:33:59,791

their empires, right?

993

00:33:59,791 --> 00:34:01,458

They have the biggest palace, the biggest

994

00:34:01,458 --> 00:34:03,583

crown, the biggest army, and they are the

995

00:34:03,583 --> 00:34:04,875

most impressive, the most

996

00:34:04,875 --> 00:34:05,916

articulate, the richest.

997

00:34:06,541 --> 00:34:08,791

And humans have domesticated ourselves

998

00:34:08,791 --> 00:34:12,875

and other animals by showing up, being

999

00:34:12,875 --> 00:34:14,416

more impressive,

1000

00:34:14,416 --> 00:34:16,916

being relatively peaceful,

1001
00:34:16,916 --> 00:34:18,166
and making it

1002
00:34:18,166 --> 00:34:19,458
somewhat clear what you want.

1003
00:34:19,458 --> 00:34:20,541
And then people go

1004
00:34:20,541 --> 00:34:21,750
along with what they want.

1005
00:34:21,750 --> 00:34:23,666
That's the history of

1006
00:34:23,666 --> 00:34:25,250
humans and other animals.

1007
00:34:25,250 --> 00:34:28,250
So the hypothesis is that the aliens,

1008
00:34:28,250 --> 00:34:29,625
that's also true for their social

1009
00:34:29,625 --> 00:34:30,875
animals, that's true for them.

1010
00:34:30,875 --> 00:34:31,916
They have a status hierarchy.

1011
00:34:32,166 --> 00:34:34,750
They've domesticated other animals by

1012
00:34:34,750 --> 00:34:36,958
that sort of strategy in the past, and so

1013
00:34:36,958 --> 00:34:39,541

they figure that could work for us.

1014

00:34:39,541 --> 00:34:40,958

And it's a simple strategy.

1015

00:34:40,958 --> 00:34:43,333

You show up, you're nearby, you're

1016

00:34:43,333 --> 00:34:45,333

peaceful, and you're really impressive,

1017

00:34:45,333 --> 00:34:47,125

and you make it clear what you want.

1018

00:34:47,125 --> 00:34:48,333

And that's it.

1019

00:34:48,333 --> 00:34:50,041

Are we clear what they want?

1020

00:34:50,041 --> 00:34:52,708

Well, I would say we can figure it out.

1021

00:34:52,708 --> 00:34:54,083

Now, maybe we haven't so

1022

00:34:54,083 --> 00:34:56,250

far, but it's not that hard.

1023

00:34:56,250 --> 00:34:58,666

That is, under what I just told you, we

1024

00:34:58,666 --> 00:35:00,625

know what they want, right?

1025

00:35:01,291 --> 00:35:03,958

So all we have to—all they had to

1026

00:35:03,958 --> 00:35:05,666

assume is that we could figure this out.

1027

00:35:05,666 --> 00:35:08,083

We could figure out that they had to be a

1028

00:35:08,083 --> 00:35:09,791

rare panspermia of siblings, that they

1029

00:35:09,791 --> 00:35:10,541

did not conquer the

1030

00:35:10,541 --> 00:35:12,041

universe, therefore they did not—

1031

00:35:12,041 --> 00:35:14,416

they had a rule against that, and that

1032

00:35:14,416 --> 00:35:16,041

they made an exception to come here.

1033

00:35:16,041 --> 00:35:18,375

So, duh, the reason they're here is to

1034

00:35:18,375 --> 00:35:20,250

get us to go along with their rule.

1035

00:35:20,250 --> 00:35:21,833

Maybe that's what they afford, just the

1036

00:35:21,833 --> 00:35:23,000

opportunity to see the

1037

00:35:23,000 --> 00:35:25,541

rationale behind their behavior.

1038

00:35:25,541 --> 00:35:26,875

Right. So under this theory, all we need

1039

00:35:26,875 --> 00:35:27,916

to see is that they're here.

1040

00:35:28,500 --> 00:35:30,541

They're not from here. They're

1041

00:35:30,541 --> 00:35:33,333

peaceful. They're impressive.

1042

00:35:33,333 --> 00:35:35,333

That's all we need to know, and we should

1043

00:35:35,333 --> 00:35:36,375

be able to figure out why

1044

00:35:36,375 --> 00:35:38,458

they're here and what they want.

1045

00:35:38,458 --> 00:35:39,500

That would be the story. So they

1046

00:35:39,500 --> 00:35:42,208

don't—I mean, I think, but why not, you

1047

00:35:42,208 --> 00:35:43,750

know, be really obvious?

1048

00:35:43,750 --> 00:35:45,875

Why not do that? Obviously, being

1049

00:35:45,875 --> 00:35:47,375

invisible won't work for this strategy.

1050

00:35:47,375 --> 00:35:49,625

Why wouldn't be really obvious work?

1051

00:35:49,625 --> 00:35:51,125

Wouldn't that be much clearer? Why risk

1052

00:35:51,125 --> 00:35:52,541

any miscommunication?

1053

00:35:53,458 --> 00:35:55,875

What would you expect from feedback from

1054

00:35:55,875 --> 00:35:56,583

something like this if you

1055

00:35:56,583 --> 00:35:59,500

were to poke it, essentially?

1056

00:35:59,500 --> 00:36:00,916

Now, if this thing is there for

1057

00:36:00,916 --> 00:36:03,750

monitoring with limited

1058

00:36:03,750 --> 00:36:05,125

ability to interact, you know,

1059

00:36:05,125 --> 00:36:06,708

what does that tell you about the

1060

00:36:06,708 --> 00:36:08,916

potential domain of

1061

00:36:08,916 --> 00:36:10,416

responses or behaviors?

1062

00:36:10,416 --> 00:36:14,291

So even today, a powerful warrior in full

1063

00:36:14,291 --> 00:36:17,041

regalia, if punched by a two-year-old

1064

00:36:17,041 --> 00:36:19,916

toddler, won't retaliate violently

1065

00:36:20,500 --> 00:36:22,500

because they feel very confident they

1066

00:36:22,500 --> 00:36:24,000

can't be hurt by the toddler.

1067

00:36:24,000 --> 00:36:27,291

Their usual norm is to laugh it off and

1068

00:36:27,291 --> 00:36:30,291

to find it funny and engaging that the

1069

00:36:30,291 --> 00:36:31,750

two-year-old toddler

1070

00:36:31,750 --> 00:36:33,625

would even try to hit them.

1071

00:36:33,625 --> 00:36:35,708

So we have a general norm that if you're

1072

00:36:35,708 --> 00:36:37,500

too much more powerful than somebody

1073

00:36:37,500 --> 00:36:40,041

else, you take small attacks

1074

00:36:40,041 --> 00:36:42,541

and you let them slide off.

1075

00:36:42,541 --> 00:36:44,500

And that's often a way you show that

1076
00:36:44,500 --> 00:36:46,250
you're so much more powerful that you

1077
00:36:46,250 --> 00:36:47,791
can't even be bothered to respond to

1078
00:36:47,791 --> 00:36:48,916
somebody's pitiful attack.

1079
00:36:49,333 --> 00:36:51,000
I might not, you know, hit the child

1080
00:36:51,000 --> 00:36:52,750
back, but I definitely would not hit the

1081
00:36:52,750 --> 00:36:54,041
child back. Let's make that clear.

1082
00:36:54,041 --> 00:36:54,500
Okay, good.

1083
00:36:54,500 --> 00:36:55,666
All right.

1084
00:36:55,666 --> 00:36:56,416
It's very clear.

1085
00:36:56,416 --> 00:36:57,875
But I might move out of the way. I might

1086
00:36:57,875 --> 00:36:58,916
respond in some fashion.

1087
00:36:58,916 --> 00:37:00,250
Right.

1088
00:37:00,250 --> 00:37:03,333

And so, you know, as we, you know, these

1089

00:37:03,333 --> 00:37:05,958

questions are interesting to me because

1090

00:37:05,958 --> 00:37:07,500

I'm actively engaged in

1091

00:37:07,500 --> 00:37:08,791

different efforts to now detect

1092

00:37:08,791 --> 00:37:12,625

and perhaps consider what the purpose or

1093

00:37:12,625 --> 00:37:14,875

at least pattern of these objects are.

1094

00:37:15,083 --> 00:37:17,708

And so one of the things I've considered

1095

00:37:17,708 --> 00:37:19,083

even professionally when I was working in

1096

00:37:19,083 --> 00:37:20,541

the defense industry

1097

00:37:20,541 --> 00:37:21,750

against normal adversaries,

1098

00:37:21,750 --> 00:37:24,000

but even against these, is how do we

1099

00:37:24,000 --> 00:37:25,916

provide a certain stimulus so we can, you

1100

00:37:25,916 --> 00:37:28,166

know, build a very simple model,

1101
00:37:28,166 --> 00:37:29,791
stimulate that model, that environment,

1102
00:37:29,791 --> 00:37:30,916
and see how it responds

1103
00:37:30,916 --> 00:37:33,291
to learn more about it.

1104
00:37:33,291 --> 00:37:35,791
So that's perhaps the area I'm talking

1105
00:37:35,791 --> 00:37:37,708
about now, given any thought.

1106
00:37:37,708 --> 00:37:39,375
Okay. So let's get to that

1107
00:37:39,375 --> 00:37:40,875
after we finish the story.

1108
00:37:40,875 --> 00:37:41,791
Okay.

1109
00:37:41,791 --> 00:37:43,375
I'm joking.
Yeah, because that's a

1110
00:37:43,375 --> 00:37:45,166
great next point to get to.

1111
00:37:45,166 --> 00:37:48,750
So in the story, their strategy is merely

1112
00:37:48,750 --> 00:37:52,541
to be impressive and visible nearby and

1113

00:37:52,541 --> 00:37:54,750

let us get it and figure it out.

1114

00:37:54,750 --> 00:37:56,583

But there's this question, why wouldn't

1115

00:37:56,583 --> 00:37:58,250

they just be completely obvious?

1116

00:37:58,250 --> 00:37:59,875

Why hang out at the edge of visibility?

1117

00:37:59,875 --> 00:38:03,041

And the story there could be that even

1118

00:38:03,041 --> 00:38:06,166

among humans, we often hate other humans

1119

00:38:06,166 --> 00:38:08,541

for relatively minor differences.

1120

00:38:09,333 --> 00:38:11,166

And we're really quite capable of seeing

1121

00:38:11,166 --> 00:38:13,541

them as another instead of us on the

1122

00:38:13,541 --> 00:38:15,250

basis of pretty small things.

1123

00:38:15,250 --> 00:38:17,083

These are actual aliens who are actually

1124

00:38:17,083 --> 00:38:18,333

going to be different from us

1125

00:38:18,333 --> 00:38:20,083

in a lot of pretty big ways.

1126

00:38:20,083 --> 00:38:21,000

Maybe they eat babies.

1127

00:38:21,000 --> 00:38:21,541

They don't think it's a

1128

00:38:21,541 --> 00:38:23,666

big deal, but we might.

1129

00:38:23,666 --> 00:38:25,166

They're afraid, right?

1130

00:38:25,166 --> 00:38:27,416

So this whole strategy won't work if they

1131

00:38:27,416 --> 00:38:29,458

reveal too much about themselves.

1132

00:38:29,458 --> 00:38:32,041

And the same way that, like, elites of an

1133

00:38:32,041 --> 00:38:33,833

empire might not get the loyalty of the

1134

00:38:33,833 --> 00:38:35,583

empire if they show too many internal

1135

00:38:35,583 --> 00:38:37,916

ways that those elites act differently from the rest of the people.

1136

00:38:39,041 --> 00:38:41,666

So often in the past, elites of an empire

1137

00:38:41,666 --> 00:38:45,166

would keep themselves apart and just show

1138

00:38:45,166 --> 00:38:46,208
their impressiveness but

1139
00:38:46,208 --> 00:38:48,291
not show all their details.

1140
00:38:48,291 --> 00:38:50,458
And so the aliens are just going to be

1141
00:38:50,458 --> 00:38:51,708
different in more ways, and there's just

1142
00:38:51,708 --> 00:38:53,541
going to be something about them we hate.

1143
00:38:53,541 --> 00:38:55,333
So they can't risk revealing

1144
00:38:55,333 --> 00:38:56,791
that much about themselves.

1145
00:38:56,791 --> 00:38:57,500
But with their

1146
00:38:57,500 --> 00:38:59,750
strategy, they don't need to.

1147
00:38:59,750 --> 00:39:01,541
All they need to do is be here, be

1148
00:39:01,541 --> 00:39:02,791
impressive, and make it clear what they

1149
00:39:02,791 --> 00:39:03,916
want, and that'll be enough.

1150
00:39:04,958 --> 00:39:10,291
So the implication here is all these UFP

1151

00:39:10,291 --> 00:39:12,458

sightings are just about them showing off

1152

00:39:12,458 --> 00:39:14,958

their abilities, and plausibly there's

1153

00:39:14,958 --> 00:39:16,416

nothing else they're trying to say.

1154

00:39:16,416 --> 00:39:18,583

There's no more clues to be gotten, and

1155

00:39:18,583 --> 00:39:19,500

they actually don't want

1156

00:39:19,500 --> 00:39:20,291

you to get any more clues.

1157

00:39:20,291 --> 00:39:21,791

And if you're trying to probe them to get

1158

00:39:21,791 --> 00:39:23,166

information and they figure that out,

1159

00:39:23,166 --> 00:39:26,500

they're just going to, you know, resist

1160

00:39:26,500 --> 00:39:29,541

your probes and not respond in a way that

1161

00:39:29,541 --> 00:39:30,416

would be informative to you.

1162

00:39:30,416 --> 00:39:30,916

They're just going to be— Right.

1163

00:39:31,583 --> 00:39:34,500

They're just going to try to be opaque.

1164

00:39:34,500 --> 00:39:35,666

All they're trying to do is make you see

1165

00:39:35,666 --> 00:39:36,458

they're there and that

1166

00:39:36,458 --> 00:39:38,125

they're impressive and peaceful.

1167

00:39:38,125 --> 00:39:39,500

That's it.

1168

00:39:39,500 --> 00:39:41,000

And clearly, like, they're

1169

00:39:41,000 --> 00:39:42,583

not trying to help, right?

1170

00:39:42,583 --> 00:39:44,583

They haven't been interfering much.

1171

00:39:44,583 --> 00:39:45,333

I'm certainly not taking

1172

00:39:45,333 --> 00:39:47,541

any credit for it to help us.

1173

00:39:47,541 --> 00:39:49,000

They didn't, like, take one side of World

1174

00:39:49,000 --> 00:39:50,833

War II or something, or they didn't,

1175

00:39:50,833 --> 00:39:52,125

like, take out the nuclear

1176

00:39:52,125 --> 00:39:55,500
bombs in Cold War, right?

1177

00:39:55,500 --> 00:39:57,500
There's lots of things

1178

00:39:57,500 --> 00:39:59,208
they could have done for us.

1179

00:39:59,208 --> 00:39:59,916
They didn't do anything.

1180

00:40:00,541 --> 00:40:03,500
They're not here to do something for us.

1181

00:40:03,500 --> 00:40:04,291
They're not trying to

1182

00:40:04,291 --> 00:40:05,125
give us information.

1183

00:40:05,125 --> 00:40:06,958
And so if they don't want us to know, and

1184

00:40:06,958 --> 00:40:08,250
they're 100 million years more advanced

1185

00:40:08,250 --> 00:40:10,500
than us, what's the chance we're going to

1186

00:40:10,500 --> 00:40:11,083
figure out more than

1187

00:40:11,083 --> 00:40:13,250
they want us to know?

1188

00:40:13,250 --> 00:40:15,083

And so that's just a status quo, then,

1189

00:40:15,083 --> 00:40:16,083

that we should expect

1190

00:40:16,083 --> 00:40:17,750

for the foreseeable future.

1191

00:40:17,750 --> 00:40:18,208

Right.

1192

00:40:18,208 --> 00:40:21,458

I mean, we might coordinate more to

1193

00:40:21,458 --> 00:40:23,125

decide that, okay, we really did see

1194

00:40:23,125 --> 00:40:26,125

stuff and they really are here, but

1195

00:40:26,125 --> 00:40:26,916

plausibly we won't

1196

00:40:26,916 --> 00:40:28,166

learn any more about them.

1197

00:40:28,166 --> 00:40:28,916

I mean, not even their local base.

1198

00:40:29,583 --> 00:40:31,000

They've got to have some local base,

1199

00:40:31,000 --> 00:40:34,041

right, physically, where they're sitting.

1200

00:40:34,041 --> 00:40:35,250

And presumably they'd be a little more

1201

00:40:35,250 --> 00:40:36,916

vulnerable if we knew where that was.

1202

00:40:36,916 --> 00:40:38,208

They don't want us to know where that is.

1203

00:40:38,208 --> 00:40:39,500

We're not going to find out where that

1204

00:40:39,500 --> 00:40:43,833

is, you know, because they can just hide.

1205

00:40:43,833 --> 00:40:45,000

It's not a pretty picture.

1206

00:40:45,000 --> 00:40:46,083

It's not an inspiring

1207

00:40:46,083 --> 00:40:49,041

picture, necessarily.

1208

00:40:49,041 --> 00:40:50,875

What does this say to our, you know, our

1209

00:40:50,875 --> 00:40:52,833

attempts and our thoughts of better

1210

00:40:52,833 --> 00:40:53,916

understanding of this?

1211

00:40:55,291 --> 00:40:57,291

It suggests that the main thing was we

1212

00:40:57,291 --> 00:41:00,333

should just decide if we already know

1213

00:41:00,333 --> 00:41:03,166
enough and we should draw a conclusion of

1214
00:41:03,166 --> 00:41:04,875
what we already know.

1215
00:41:04,875 --> 00:41:08,458
So in a lot of the UAP world, people who

1216
00:41:08,458 --> 00:41:10,541
talk about this stuff, there is this norm

1217
00:41:10,541 --> 00:41:12,500
that we shouldn't talk much about what

1218
00:41:12,500 --> 00:41:14,083
the evidence implies.

1219
00:41:14,083 --> 00:41:15,791
We should just be trying harder to

1220
00:41:15,791 --> 00:41:17,291
collect more evidence to convince people

1221
00:41:17,291 --> 00:41:18,916
the evidence is really there.

1222
00:41:19,750 --> 00:41:22,750
I think that's unfortunate because maybe

1223
00:41:22,750 --> 00:41:25,958
we already know enough to conclude as

1224
00:41:25,958 --> 00:41:26,833
much as we're ever going

1225
00:41:26,833 --> 00:41:28,916
to conclude for a while.

1226

00:41:28,916 --> 00:41:30,875

And we're never necessarily going to get

1227

00:41:30,875 --> 00:41:33,125

that much stronger evidence because they

1228

00:41:33,125 --> 00:41:34,583

don't want us to have

1229

00:41:34,583 --> 00:41:36,500

that much more evidence.

1230

00:41:36,500 --> 00:41:38,625

So maybe, I mean, they want us to have

1231

00:41:38,625 --> 00:41:39,875

evidence that they exist

1232

00:41:39,875 --> 00:41:41,458

and they really are there.

1233

00:41:41,458 --> 00:41:42,416

They don't mind just, you

1234

00:41:42,416 --> 00:41:43,916

know, being convinced of that.

1235

00:41:44,291 --> 00:41:46,166

But figuring out what their things are

1236

00:41:46,166 --> 00:41:48,791

made out of or kind of physics devices

1237

00:41:48,791 --> 00:41:51,500

they're using or, you know, how they're

1238

00:41:51,500 --> 00:41:52,916
internally socially organized, they don't

1239
00:41:52,916 --> 00:41:54,958
want us to know those things.

1240
00:41:54,958 --> 00:41:56,833
So we're not going to find out.

1241
00:41:56,833 --> 00:41:57,791
Yeah, because really our

1242
00:41:57,791 --> 00:41:59,750
technology will never catch up.

1243
00:41:59,750 --> 00:42:01,125
Well, not for a long time. Yeah.

1244
00:42:01,125 --> 00:42:03,500
Well, unless if we assume that there's an

1245
00:42:03,500 --> 00:42:05,625
end point, right, we would assume—

1246
00:42:05,625 --> 00:42:07,250
I think it would be fair to say that we

1247
00:42:07,250 --> 00:42:08,666
can't catch up if they have millions of

1248
00:42:08,666 --> 00:42:10,916
years on us, assuming we have relatively

1249
00:42:10,916 --> 00:42:12,916
similar ability to gain knowledge and progress.

1250
00:42:14,583 --> 00:42:17,583
And so in a sense, there almost wouldn't

1251

00:42:17,583 --> 00:42:18,583

be a way to catch up.

1252

00:42:18,583 --> 00:42:20,708

There would just be a way to expand our

1253

00:42:20,708 --> 00:42:21,583

feeble amount of knowledge

1254

00:42:21,583 --> 00:42:25,791

about it to a stair step.

1255

00:42:25,791 --> 00:42:26,833

I guess what I'm trying to say is we

1256

00:42:26,833 --> 00:42:28,541

can't just—we can't expect to fully

1257

00:42:28,541 --> 00:42:29,291

understand the situation.

1258

00:42:29,291 --> 00:42:30,916

So what can we as humans comprehend?

1259

00:42:30,916 --> 00:42:32,041

What can we say

1260

00:42:32,041 --> 00:42:32,958

definitively that we know?

1261

00:42:32,958 --> 00:42:34,541

And how do we move to that

1262

00:42:34,541 --> 00:42:36,166

next thing that we don't know?

1263

00:42:36,166 --> 00:42:37,875

Well, first, we should just walk through

1264

00:42:37,875 --> 00:42:38,916

more things we know from this fact.

1265

00:42:39,541 --> 00:42:42,875

So one thing we should probably know is

1266

00:42:42,875 --> 00:42:45,083

their expedition here has some limits on

1267

00:42:45,083 --> 00:42:47,458

its capacity, right?

1268

00:42:47,458 --> 00:42:50,000

And our technology might

1269

00:42:50,000 --> 00:42:51,791

approach theirs at some point.

1270

00:42:51,791 --> 00:42:54,000

And so at some point, they would lose

1271

00:42:54,000 --> 00:42:56,166

control of us if they

1272

00:42:56,166 --> 00:42:57,500

allowed us to go past some limit.

1273

00:42:57,500 --> 00:42:59,958

So there probably is some limit where

1274

00:42:59,958 --> 00:43:01,166

they would either speak

1275

00:43:01,166 --> 00:43:03,416

up, take over, or destroy us.

1276

00:43:03,416 --> 00:43:05,500

We don't know what that limit is.

1277

00:43:05,500 --> 00:43:06,541

Presumably it's

1278

00:43:06,541 --> 00:43:07,041

expansionary in some flavor.

1279

00:43:07,750 --> 00:43:10,041

Right. So one plausible thing is sending

1280

00:43:10,041 --> 00:43:13,583

a probe to another star system.

1281

00:43:13,583 --> 00:43:15,583

Which, if they didn't follow it along and

1282

00:43:15,583 --> 00:43:19,166

keep it under control, would risk them

1283

00:43:19,166 --> 00:43:20,916

having spent a lot bigger budget to keep

1284

00:43:20,916 --> 00:43:22,291

us under control if we expect—

1285

00:43:22,291 --> 00:43:22,916

Presumably they wouldn't

1286

00:43:22,916 --> 00:43:24,250

make those exceptions, right?

1287

00:43:24,250 --> 00:43:28,000

Because that would lead to just

1288

00:43:28,000 --> 00:43:28,875
uncontrolled growth.

1289
00:43:28,875 --> 00:43:30,000
Right. So they have this

1290
00:43:30,000 --> 00:43:30,791
message, "Don't expand."

1291
00:43:30,791 --> 00:43:31,500
But we don't know where

1292
00:43:31,500 --> 00:43:33,291
the line of expand is.

1293
00:43:33,291 --> 00:43:35,500
My guess would be it's okay to expand

1294
00:43:35,500 --> 00:43:36,000
into the solar system.

1295
00:43:36,583 --> 00:43:37,375
I see.

1296
00:43:37,375 --> 00:43:39,916
But not beyond the solar system.

1297
00:43:39,916 --> 00:43:43,416
Because one plausible story is where they

1298
00:43:43,416 --> 00:43:45,916
drew the line was at being able to

1299
00:43:45,916 --> 00:43:46,875
maintain some internal

1300
00:43:46,875 --> 00:43:48,375
coherence to their civilization,

1301

00:43:48,375 --> 00:43:50,500

where some sort of community of elites

1302

00:43:50,500 --> 00:43:51,833

discussed things together and decided

1303

00:43:51,833 --> 00:43:53,166

things together about what to do.

1304

00:43:53,166 --> 00:43:54,666

And that's feasible within a solar

1305

00:43:54,666 --> 00:43:56,416

system, and it's not really very feasible

1306

00:43:56,416 --> 00:43:58,833

across multiple solar systems, because

1307

00:43:58,833 --> 00:44:02,125

the time delays just get really huge.

1308

00:44:02,125 --> 00:44:03,333

So that would be my guess

1309

00:44:03,333 --> 00:44:04,916

about the line, but we don't know.

1310

00:44:05,458 --> 00:44:06,541

So how do we move this

1311

00:44:06,541 --> 00:44:07,875

conversation forward?

1312

00:44:07,875 --> 00:44:09,750

You've identified that it might be very

1313

00:44:09,750 --> 00:44:11,583
difficult to further understand this

1314
00:44:11,583 --> 00:44:14,625
based off of really the intent of these

1315
00:44:14,625 --> 00:44:16,500
objects, to not let us better understand.

1316
00:44:16,500 --> 00:44:17,000
I don't think we're going to

1317
00:44:17,000 --> 00:44:18,666
be satisfied with that answer.

1318
00:44:18,666 --> 00:44:22,333
So how can we better understand this?

1319
00:44:22,333 --> 00:44:25,083
One thing we could do is just get a big

1320
00:44:25,083 --> 00:44:28,208
enough telescope to go look at all the

1321
00:44:28,208 --> 00:44:31,083
stellar siblings and maybe identify the

1322
00:44:31,083 --> 00:44:32,666
ones with life around, or maybe even the

1323
00:44:32,666 --> 00:44:33,166
one with civilization around.

1324
00:44:33,625 --> 00:44:36,625
They probably have a whole solar

1325
00:44:36,625 --> 00:44:39,000
system-wide civilization around their

1326

00:44:39,000 --> 00:44:40,041
star, and that's going to

1327

00:44:40,041 --> 00:44:42,000
have some telltale signs.

1328

00:44:42,000 --> 00:44:43,166
So we could probably

1329

00:44:43,166 --> 00:44:45,375
find their home world.

1330

00:44:45,375 --> 00:44:46,458
And that would

1331

00:44:46,458 --> 00:44:49,333
confirm that they're there.

1332

00:44:49,333 --> 00:44:51,458
A stellar sibling, a home world with a

1333

00:44:51,458 --> 00:44:53,791
civilization around it, we would go, "Oh,

1334

00:44:53,791 --> 00:44:54,625
all the more? I guess

1335

00:44:54,625 --> 00:44:55,125
they're really here."

1336

00:44:56,250 --> 00:44:58,208
It won't reveal much about them other

1337

00:44:58,208 --> 00:44:59,833
than, say, the scale of their

1338

00:44:59,833 --> 00:45:01,291
civilization. We won't tell them about

1339
00:45:01,291 --> 00:45:03,083
their priorities or methods perhaps,

1340
00:45:03,083 --> 00:45:05,166
because we couldn't see very much.

1341
00:45:05,166 --> 00:45:07,458
But we could at least see that

1342
00:45:07,458 --> 00:45:08,916
there's a civilization there.

1343
00:45:08,916 --> 00:45:10,333
So this would be a bit of a—flipping

1344
00:45:10,333 --> 00:45:12,333
the script a little bit, instead of

1345
00:45:12,333 --> 00:45:14,375
trying to better understand what they're

1346
00:45:14,375 --> 00:45:17,083
telling us to look at in a sense, look

1347
00:45:17,083 --> 00:45:19,000
beyond that to try to get a sense of

1348
00:45:19,000 --> 00:45:19,916
where they come from.

1349
00:45:20,666 --> 00:45:22,916
Just confirm that they really are there,

1350
00:45:22,916 --> 00:45:24,833
and they really have an advanced

1351

00:45:24,833 --> 00:45:26,125
civilization, how big it is.

1352

00:45:26,125 --> 00:45:28,833
I mean, for example, if you just dropped

1353

00:45:28,833 --> 00:45:30,833
a little bit of nuclear waste into a

1354

00:45:30,833 --> 00:45:33,000
star, we could see that in the stellar

1355

00:45:33,000 --> 00:45:35,041
spectrum from a long way off.

1356

00:45:35,041 --> 00:45:38,125
So little things like that would probably

1357

00:45:38,125 --> 00:45:39,875
show us there's a civilization there.

1358

00:45:39,875 --> 00:45:41,958
It won't tell us that much about them,

1359

00:45:41,958 --> 00:45:43,458
but it confirms they exist.

1360

00:45:43,458 --> 00:45:44,541
And then we could look at the others and

1361

00:45:44,541 --> 00:45:46,666
see that there's only one probably and

1362

00:45:46,666 --> 00:45:47,916
confirm it's just the one.

1363

00:45:48,708 --> 00:45:51,583

Do we know if the James Webb Telescope

1364

00:45:51,583 --> 00:45:54,625

has any of these candidates, these

1365

00:45:54,625 --> 00:45:57,958

stellar nursery stars on its list?

1366

00:45:57,958 --> 00:46:00,875

I don't know. But again, it's probably

1367

00:46:00,875 --> 00:46:03,875

only a few of them. So the odds of

1368

00:46:03,875 --> 00:46:06,708

finding the one are probably low, but

1369

00:46:06,708 --> 00:46:07,916

might as well get started.

1370

00:46:09,625 --> 00:46:11,666

We might learn more about them, but it

1371

00:46:11,666 --> 00:46:14,041

does seem like the biggest thing to learn

1372

00:46:14,041 --> 00:46:19,500

here is if we learn, that is, can we

1373

00:46:19,500 --> 00:46:22,625

decide together that we've learned this

1374

00:46:22,625 --> 00:46:25,416

and to absorb all its implications?

1375

00:46:25,416 --> 00:46:28,250

It seems to me that this would change

1376

00:46:28,250 --> 00:46:30,666

civilization substantially if we came to

1377

00:46:30,666 --> 00:46:31,750

believe that this is

1378

00:46:31,750 --> 00:46:33,000

the situation we're in.

1379

00:46:33,000 --> 00:46:34,916

What's stopping us from believing it now?

1380

00:46:36,666 --> 00:46:40,458

Well, that's a good question.

1381

00:46:40,458 --> 00:46:42,916

It's a social science puzzle in some

1382

00:46:42,916 --> 00:46:46,333

sense, why we aren't already persuaded.

1383

00:46:46,333 --> 00:46:48,500

I think most people out there hearing

1384

00:46:48,500 --> 00:46:49,875

this will think, well, just the evidence

1385

00:46:49,875 --> 00:46:50,875

isn't strong enough. You

1386

00:46:50,875 --> 00:46:53,458

just need more evidence.

1387

00:46:53,458 --> 00:46:56,333

I've got to say, as I've looked at the

1388

00:46:56,333 --> 00:46:58,250
evidence, there's an awful lot of cases

1389
00:46:58,250 --> 00:46:59,916
with an awful lot of evidence.

1390
00:47:00,833 --> 00:47:02,833
And yeah, I can see how you might want

1391
00:47:02,833 --> 00:47:04,416
even stronger evidence, but it's not

1392
00:47:04,416 --> 00:47:05,958
clear we're going to get that much

1393
00:47:05,958 --> 00:47:07,708
stronger evidence than the sort of

1394
00:47:07,708 --> 00:47:10,916
evidence we have, especially since the

1395
00:47:10,916 --> 00:47:12,666
evidence we have is often in a military

1396
00:47:12,666 --> 00:47:14,000
context where they're

1397
00:47:14,000 --> 00:47:14,916
shy about revealing it.

1398
00:47:16,291 --> 00:47:23,083
So, yeah, I mean, it seems like it is a

1399
00:47:23,083 --> 00:47:24,500
sticking point for us. So there's

1400
00:47:24,500 --> 00:47:27,041
this—some political scientists who have

1401

00:47:27,041 --> 00:47:29,458

a theory about why we're so reluctant to

1402

00:47:29,458 --> 00:47:31,166

believe in UFOs,

1403

00:47:31,166 --> 00:47:32,375

especially why authorities are.

1404

00:47:32,375 --> 00:47:34,458

They basically say authorities feel

1405

00:47:34,458 --> 00:47:35,916

threatened by this hypothesis.

1406

00:47:36,458 --> 00:47:38,208

They're supposed to be in charge, and

1407

00:47:38,208 --> 00:47:40,041

this would say they're not in charge. And

1408

00:47:40,041 --> 00:47:42,125

we're supposed to sort of have humanity's

1409

00:47:42,125 --> 00:47:43,583

future in our own hands, and this would

1410

00:47:43,583 --> 00:47:45,208

say we don't really have our future in

1411

00:47:45,208 --> 00:47:48,083

our own hands, and that we so dislike

1412

00:47:48,083 --> 00:47:49,416

this hypothesis that we

1413

00:47:49,416 --> 00:47:52,250
refuse to consider it.

1414
00:47:52,250 --> 00:47:53,666
Not crazy, but I'm not sure I'm

1415
00:47:53,666 --> 00:47:55,541
persuaded. But there's

1416
00:47:55,541 --> 00:47:58,500
definitely an obstacle here.

1417
00:47:58,500 --> 00:48:00,541
That doesn't persuade you. How would you

1418
00:48:00,541 --> 00:48:02,416
add to it or build on it? So I feel like

1419
00:48:02,416 --> 00:48:04,291
you have a sense of it.

1420
00:48:05,208 --> 00:48:07,875
Right, so the thing I feel strongest in

1421
00:48:07,875 --> 00:48:09,791
saying, looking at the evidence, is just

1422
00:48:09,791 --> 00:48:11,500
that the honest

1423
00:48:11,500 --> 00:48:13,500
mistake theory doesn't work.

1424
00:48:13,500 --> 00:48:14,791
OK? So, I mean, we can

1425
00:48:14,791 --> 00:48:16,041
talk about your story.

1426

00:48:16,041 --> 00:48:18,375

Like, if I look at your story, I go,

1427

00:48:18,375 --> 00:48:20,291

"Some people are trying to say you made

1428

00:48:20,291 --> 00:48:22,083

an honest mistake because it was a bird

1429

00:48:22,083 --> 00:48:24,791

or a balloon or something, and, you know,

1430

00:48:24,791 --> 00:48:26,458

anybody could make an honest mistake, and

1431

00:48:26,458 --> 00:48:27,916

that's how it played out."

1432

00:48:28,458 --> 00:48:30,000

I think that's pretty unlikely in your

1433

00:48:30,000 --> 00:48:32,333

case, but it's especially unlikely across

1434

00:48:32,333 --> 00:48:34,125

these hundreds of cases that

1435

00:48:34,125 --> 00:48:35,833

they're all honest mistakes.

1436

00:48:35,833 --> 00:48:37,000

That would be quite the

1437

00:48:37,000 --> 00:48:38,458

statistical abnormality.

1438

00:48:39,500 --> 00:48:42,666

So then I got to go with one of the other

1439

00:48:42,666 --> 00:48:44,041

three theories we're talking about,

1440

00:48:44,041 --> 00:48:49,375

right? Either—and that's where I can't

1441

00:48:49,375 --> 00:48:53,958

be as sure, although honestly, like, the

1442

00:48:53,958 --> 00:48:55,208

hoax theory, the liar

1443

00:48:55,208 --> 00:48:57,916

theory, isn't crazy.

1444

00:48:58,250 --> 00:48:59,666

That's the next thing I would go to,

1445

00:48:59,666 --> 00:49:01,375

right, down the list, and I got to say,

1446

00:49:01,375 --> 00:49:05,208

"Well, what if some big organizations,

1447

00:49:05,208 --> 00:49:07,250

say, the U.S. intelligence or military,

1448

00:49:07,250 --> 00:49:09,458

wanted to set this up as a hoax?"

1449

00:49:09,458 --> 00:49:11,125

Right? And there would be a plausible

1450

00:49:11,125 --> 00:49:13,583

reason to do so. So we were in a Cold War

1451

00:49:13,583 --> 00:49:14,958

where they had, you know, thousands of

1452

00:49:14,958 --> 00:49:17,250

missiles trained at us, and if at some

1453

00:49:17,250 --> 00:49:18,416

point they thought they had the

1454

00:49:18,416 --> 00:49:19,583

advantage, they could push the button,

1455

00:49:19,583 --> 00:49:20,625

what we might want to do is just make

1456

00:49:20,625 --> 00:49:22,625

them hesitate by making them think

1457

00:49:22,625 --> 00:49:24,791

there's a third party who has opinions

1458

00:49:24,791 --> 00:49:25,791

about the situation.

1459

00:49:26,083 --> 00:49:27,583

Right? That might make them pause and go,

1460

00:49:27,583 --> 00:49:29,000

"Well, okay, we've got the advantage over

1461

00:49:29,000 --> 00:49:30,583

the Americans, but do we have the

1462

00:49:30,583 --> 00:49:31,666

advantage over this third

1463

00:49:31,666 --> 00:49:32,625
party we don't know much about?"

1464
00:49:32,625 --> 00:49:34,750
So it might be worth spending billions of

1465
00:49:34,750 --> 00:49:37,375
dollars to create that sort of

1466
00:49:37,375 --> 00:49:39,208
uncertainty on the other part about

1467
00:49:39,208 --> 00:49:40,041
whether there's a third

1468
00:49:40,041 --> 00:49:42,041
party who might object.

1469
00:49:42,041 --> 00:49:44,083
Okay? So that would mean they would be

1470
00:49:44,083 --> 00:49:45,916
only willing to spend a lot to do that.

1471
00:49:46,333 --> 00:49:47,291
How would they spend that money? Well,

1472
00:49:47,291 --> 00:49:51,208
they would pay people like you to lie or

1473
00:49:51,208 --> 00:49:53,458
pay someone to fool you with, you know,

1474
00:49:53,458 --> 00:49:55,625
some elaborate thing that they mess with

1475
00:49:55,625 --> 00:49:57,833
your radar and mess with things they put

1476

00:49:57,833 --> 00:49:59,208

up in order to fool you.

1477

00:49:59,208 --> 00:50:00,708

And that would be possible, that you can

1478

00:50:00,708 --> 00:50:03,666

spend enough money to fool people.

1479

00:50:03,666 --> 00:50:06,041

And they could do that to our allies,

1480

00:50:06,041 --> 00:50:07,750

too, right? Maybe they could pay France

1481

00:50:07,750 --> 00:50:10,541

and Brazil and Peru or whatever to

1482

00:50:10,541 --> 00:50:11,625

somebody there to lie

1483

00:50:11,625 --> 00:50:12,916

and set up some fakes.

1484

00:50:13,458 --> 00:50:14,875

And you've got to go, "Well, what's the

1485

00:50:14,875 --> 00:50:17,083

prior probability on that?" And you've

1486

00:50:17,083 --> 00:50:19,291

got to go, "Look, the U.S. military did

1487

00:50:19,291 --> 00:50:21,583

some pretty amazing fakes during World

1488

00:50:21,583 --> 00:50:24,291
War II, and there's some other things

1489
00:50:24,291 --> 00:50:25,375
they've done a pretty good

1490
00:50:25,375 --> 00:50:26,583
job of faking and hiding."

1491
00:50:26,583 --> 00:50:28,000
And so you've got to go, "Maybe they

1492
00:50:28,000 --> 00:50:30,875
might do that." And the thing that makes

1493
00:50:30,875 --> 00:50:32,416
me pause there is you go, "Well, there's

1494
00:50:32,416 --> 00:50:34,916
all these reports of UAPs within the

1495
00:50:34,916 --> 00:50:37,250
Soviet Union during the

1496
00:50:37,250 --> 00:50:37,916
height of the Cold War."

1497
00:50:38,000 --> 00:50:39,458
And it's like they had whole projects and

1498
00:50:39,458 --> 00:50:41,083
they had whole sightings. Like, could the

1499
00:50:41,083 --> 00:50:45,208
U.S. have really arranged for a bunch of

1500
00:50:45,208 --> 00:50:47,000
Soviet people to lie about seeing these

1501

00:50:47,000 --> 00:50:48,166

things and do a bunch

1502

00:50:48,166 --> 00:50:49,708

of fakes on Soviets?

1503

00:50:49,708 --> 00:50:51,000

Like, there's a case where apparently,

1504

00:50:51,000 --> 00:50:53,833

you know, six jets went off to intercept

1505

00:50:53,833 --> 00:50:56,791

some UAP, and two of them went down.

1506

00:50:56,791 --> 00:50:58,083

Could the U.S. really have arranged

1507

00:50:58,083 --> 00:51:00,000

something like that? And I go, "That's

1508

00:51:00,000 --> 00:51:01,750

kind of hard to believe," right?

1509

00:51:02,541 --> 00:51:04,000

But that's the kind of thing I'd have to

1510

00:51:04,000 --> 00:51:06,208

believe, right? That's the next thing on

1511

00:51:06,208 --> 00:51:08,833

the list. If it's not honest mistakes,

1512

00:51:08,833 --> 00:51:10,958

there's a hoax and a lying campaign.

1513

00:51:10,958 --> 00:51:12,333

And that would be the most plausible

1514

00:51:12,333 --> 00:51:13,916

source, and that would be how they do it.

1515

00:51:13,916 --> 00:51:16,375

And the hardest case for them would be to

1516

00:51:16,375 --> 00:51:18,333

take the enemy they're trying to fool,

1517

00:51:18,333 --> 00:51:20,541

get inside their organization enough on a

1518

00:51:20,541 --> 00:51:22,625

pretty large scale to make a bunch of

1519

00:51:22,625 --> 00:51:24,833

fake things happening there.

1520

00:51:24,833 --> 00:51:28,166

That just seems a tall order. And these

1521

00:51:28,166 --> 00:51:29,250

things are reported all around

1522

00:51:29,250 --> 00:51:30,916

the world, even China, right?

1523

00:51:31,458 --> 00:51:32,166

And so that's the thing

1524

00:51:32,166 --> 00:51:35,333

that makes me go, "Eh."

1525

00:51:35,333 --> 00:51:37,208

In addition, this would have been an

1526

00:51:37,208 --> 00:51:39,416

unprecedentedly large, like, hoax

1527

00:51:39,416 --> 00:51:40,500

campaign over an

1528

00:51:40,500 --> 00:51:41,625

unprecedentedly large scale.

1529

00:51:41,625 --> 00:51:42,875

Yeah, and let's not forget you're talking

1530

00:51:42,875 --> 00:51:44,500

about, you know, Cold War area right now,

1531

00:51:44,500 --> 00:51:46,541

but then if we look and, you know, update

1532

00:51:46,541 --> 00:51:48,541

that for modern times and the logic

1533

00:51:48,541 --> 00:51:50,250

behind that, how would that change your

1534

00:51:50,250 --> 00:51:53,166

thought about this being a manipulative

1535

00:51:53,166 --> 00:51:54,333

scale that's now taken

1536

00:51:54,333 --> 00:51:55,916

itself all the way into the 2020s?

1537

00:51:56,375 --> 00:51:57,708

Well, again, the motive would still be

1538

00:51:57,708 --> 00:52:00,250
there. Just make the other side unsure if

1539
00:52:00,250 --> 00:52:01,041
there's a third party

1540
00:52:01,041 --> 00:52:02,708
who might object, right?

1541
00:52:02,708 --> 00:52:04,333
We still have a Cold War. We still are

1542
00:52:04,333 --> 00:52:06,500
worried about them pushing the button. So

1543
00:52:06,500 --> 00:52:07,208
they could still want to

1544
00:52:07,208 --> 00:52:09,833
keep the project going.

1545
00:52:09,833 --> 00:52:13,666
But, you know, maintaining the ability to

1546
00:52:13,666 --> 00:52:15,166
control behind the scenes, like, when

1547
00:52:15,166 --> 00:52:16,666
their entire government collapses and

1548
00:52:16,666 --> 00:52:18,541
they change their government radically,

1549
00:52:18,541 --> 00:52:19,750
still we would manage to keep these

1550
00:52:19,750 --> 00:52:20,833
things going. That

1551

00:52:20,833 --> 00:52:21,916

would be pretty amazing.

1552

00:52:22,208 --> 00:52:23,708

Yeah, it's nuanced at this point. So

1553

00:52:23,708 --> 00:52:25,958

then, you know, you're left with, it

1554

00:52:25,958 --> 00:52:29,416

sounds like, an unexplainable cohort of

1555

00:52:29,416 --> 00:52:30,333

observations that...

1556

00:52:30,333 --> 00:52:32,000

You're left believing there's something

1557

00:52:32,000 --> 00:52:34,750

real with these really amazing abilities

1558

00:52:34,750 --> 00:52:36,083

that either comes from around here or

1559

00:52:36,083 --> 00:52:37,708

comes from somewhere else.

1560

00:52:37,708 --> 00:52:39,375

And now I've got to ask, what's the

1561

00:52:39,375 --> 00:52:41,666

chance there's some secret organization

1562

00:52:41,666 --> 00:52:43,291

on Earth, apparently not

1563

00:52:43,291 --> 00:52:44,916
the U.S. military, right?

1564

00:52:45,375 --> 00:52:47,000
Who could have these amazing ability

1565

00:52:47,000 --> 00:52:48,833
vehicles and then not use it to any

1566

00:52:48,833 --> 00:52:50,875
military or economic advantage, right?

1567

00:52:50,875 --> 00:52:53,000
Because these things are around for half

1568

00:52:53,000 --> 00:52:54,083
a century, at least.

1569

00:52:54,083 --> 00:52:56,000
And you would think you could do enormous

1570

00:52:56,000 --> 00:52:58,166
things if you had this technology. Look

1571

00:52:58,166 --> 00:52:59,791
at all the ways you could use it. And

1572

00:52:59,791 --> 00:53:00,291
apparently this

1573

00:53:00,291 --> 00:53:01,166
organization is not using it.

1574

00:53:01,166 --> 00:53:03,416
Do you think the U.S. would use it? So

1575

00:53:03,416 --> 00:53:05,041
I've stated that perhaps the U.S. would

1576

00:53:05,041 --> 00:53:07,541

not use it because they just would not

1577

00:53:07,541 --> 00:53:10,041

want to tip off other nations that there

1578

00:53:10,041 --> 00:53:12,333

was a "they're there" to explore,

1579

00:53:12,333 --> 00:53:13,750

technologically, perhaps.

1580

00:53:15,250 --> 00:53:18,208

Is that part of the calculus?

1581

00:53:18,208 --> 00:53:20,083

Well, they weren't exploring other techs.

1582

00:53:20,083 --> 00:53:22,791

So why that one? Why reserve that one and

1583

00:53:22,791 --> 00:53:23,708

not all the other ones, right?

1584

00:53:23,708 --> 00:53:26,000

Because we spent many billions of dollars

1585

00:53:26,000 --> 00:53:27,250

exploring a lot of techs, right?

1586

00:53:27,250 --> 00:53:29,291

If we had just stopped exploring tech,

1587

00:53:29,291 --> 00:53:30,083

because we found this one thing and I'd

1588

00:53:30,083 --> 00:53:31,875

say, "Oh, you know,

1589

00:53:31,875 --> 00:53:33,083

we've just got to slay them."

1590

00:53:33,083 --> 00:53:34,208

Maybe we weren't exploring. Maybe we

1591

00:53:34,208 --> 00:53:35,666

already knew that it was effective.

1592

00:53:35,666 --> 00:53:37,500

Right. But then why pay so much for all

1593

00:53:37,500 --> 00:53:39,708

the other worst techs? I mean, why not

1594

00:53:39,708 --> 00:53:41,250

just sit on this one tech you got and not

1595

00:53:41,250 --> 00:53:42,166

improve the other ones because you've

1596

00:53:42,166 --> 00:53:42,916

just got your arsenal, right?

1597

00:53:43,541 --> 00:53:45,250

You don't need anything

1598

00:53:45,250 --> 00:53:47,125

new. This thing works fine.

1599

00:53:47,125 --> 00:53:51,750

I'm not trying to play the counterpoint,

1600

00:53:51,750 --> 00:53:54,875

but I think about how China and Russia,

1601

00:53:54,875 --> 00:53:56,541

if that was the case, they would be

1602

00:53:56,541 --> 00:53:58,708

competing with what we know is

1603

00:53:58,708 --> 00:53:59,208

substandard technology.

1604

00:53:59,583 --> 00:54:03,791

And so we'd be essentially driving a

1605

00:54:03,791 --> 00:54:07,875

useless economic drain on their society,

1606

00:54:07,875 --> 00:54:09,708

thinking that they were economically or

1607

00:54:09,708 --> 00:54:11,833

militarily secure when in fact they

1608

00:54:11,833 --> 00:54:12,791

weren't that—I'm just

1609

00:54:12,791 --> 00:54:14,083

thinking aloud here, right?

1610

00:54:14,083 --> 00:54:16,666

But what I don't see is an incentive for

1611

00:54:16,666 --> 00:54:18,833

China or Russia or someone competing with

1612

00:54:18,833 --> 00:54:20,916

us to withhold that technology.

1613

00:54:20,916 --> 00:54:22,375

We have the advantage and it doesn't

1614

00:54:22,375 --> 00:54:23,833

make—it would make sense to keep it a

1615

00:54:23,833 --> 00:54:24,916

secret until absolutely needed.

1616

00:54:25,166 --> 00:54:27,125

But for other nations, it would make

1617

00:54:27,125 --> 00:54:28,291

sense for me for them to

1618

00:54:28,291 --> 00:54:29,583

integrate that into their economy.

1619

00:54:29,583 --> 00:54:31,666

Right. But if there have been UAP events

1620

00:54:31,666 --> 00:54:33,458

in Soviet Union, then we apparently have

1621

00:54:33,458 --> 00:54:35,708

been demonstrating this technology to the

1622

00:54:35,708 --> 00:54:36,791

Soviets in the Soviet Union.

1623

00:54:36,791 --> 00:54:38,375

So how is it we're trying to keep it

1624

00:54:38,375 --> 00:54:39,666

secret? We're apparently trying to let

1625

00:54:39,666 --> 00:54:41,708

them know it exists.

1626

00:54:41,708 --> 00:54:43,500

Well, I'm not claiming that all of the

1627

00:54:43,500 --> 00:54:45,000

sightings aren't necessarily technology.

1628

00:54:45,000 --> 00:54:45,958

Right. But still,

1629

00:54:45,958 --> 00:54:48,500

there's been quite a few there.

1630

00:54:48,500 --> 00:54:51,833

You know, it's just a thought. OK.

1631

00:54:52,500 --> 00:54:54,041

But that's the second one you want to go

1632

00:54:54,041 --> 00:54:56,375

to, right? If you don't buy the honest

1633

00:54:56,375 --> 00:54:57,375

mistake theory, you've got

1634

00:54:57,375 --> 00:55:00,083

to go second to lies and oaks.

1635

00:55:00,083 --> 00:55:01,541

And then if that doesn't work, you've got

1636

00:55:01,541 --> 00:55:04,833

to go to amazing actual stuff.

1637

00:55:04,833 --> 00:55:07,125

And then the question is, you know, how

1638

00:55:07,125 --> 00:55:08,375

plausible is it there's an Earth

1639

00:55:08,375 --> 00:55:09,708

organization with sort of amazing stuff

1640

00:55:09,708 --> 00:55:11,791

that they could keep secret this long?

1641

00:55:11,791 --> 00:55:13,000

And that gets kind of hard to swallow,

1642

00:55:13,000 --> 00:55:14,333

but then you've got the fourth one, OK?

1643

00:55:14,333 --> 00:55:16,250

It's aliens. And now you have

1644

00:55:16,250 --> 00:55:18,750

to ask, but how crazy is that?

1645

00:55:18,750 --> 00:55:19,833

And you've asked that question.

1646

00:55:19,833 --> 00:55:20,916

Right. I'm saying not that crazy.

1647

00:55:21,666 --> 00:55:22,958

Not as crazy as you might think.

1648

00:55:22,958 --> 00:55:24,291

Right. But crazy enough that you've got

1649

00:55:24,291 --> 00:55:25,583

to look at evidence.

1650

00:55:25,583 --> 00:55:26,333

That's why we're trying to

1651

00:55:26,333 --> 00:55:27,416

walk through the evidence.

1652

00:55:27,416 --> 00:55:28,541

But then you're trying

1653

00:55:28,541 --> 00:55:30,125

to judge these things.

1654

00:55:30,125 --> 00:55:31,833

So I think I mean, I'm happy to talk to

1655

00:55:31,833 --> 00:55:33,041

you, but I think I should always just

1656

00:55:33,041 --> 00:55:34,125

make clear what I'm an

1657

00:55:34,125 --> 00:55:35,916

expert on versus what I'm not.

1658

00:55:35,916 --> 00:55:38,083

Like, I'm not an expert on these cases.

1659

00:55:38,083 --> 00:55:39,791

I mean, there are people who have spent

1660

00:55:39,791 --> 00:55:40,875

their lifetime studying

1661

00:55:40,875 --> 00:55:42,500

these cases, and I respect that.

1662

00:55:42,500 --> 00:55:44,416

And I want to defer to them on these

1663

00:55:44,416 --> 00:55:45,916
cases. That's not my expertise.

1664

00:55:46,416 --> 00:55:48,791
My expertise is maybe on the sort of

1665

00:55:48,791 --> 00:55:50,250
where aliens might be in space, time and

1666

00:55:50,250 --> 00:55:51,750
what agendas they might have and then

1667

00:55:51,750 --> 00:55:53,208
what that implies for society.

1668

00:55:53,208 --> 00:55:55,333
I'm an economist. My specialty is more

1669

00:55:55,333 --> 00:55:56,541
the social science part of it.

1670

00:55:56,541 --> 00:55:58,375
So that's why I want to say that's the

1671

00:55:58,375 --> 00:56:00,166
thing I'm presenting to you as you should

1672

00:56:00,166 --> 00:56:01,291
believe me more because

1673

00:56:01,291 --> 00:56:03,041
that's where my expertise is.

1674

00:56:03,041 --> 00:56:05,750
But I don't want to just taboo the other

1675

00:56:05,750 --> 00:56:06,541
things and say nobody

1676

00:56:06,541 --> 00:56:07,291
should talk about them.

1677

00:56:07,291 --> 00:56:08,500
That's the thing I'm complaining about.

1678

00:56:08,500 --> 00:56:11,041
A part is the taboo here on the social

1679

00:56:11,041 --> 00:56:13,083
science implications.

1680

00:56:13,083 --> 00:56:13,708
Interesting.

1681

00:56:14,416 --> 00:56:18,541
So where are you in your personal model

1682

00:56:18,541 --> 00:56:23,458
on your belief of these options?

1683

00:56:23,458 --> 00:56:24,958
We've basically gone through, I think,

1684

00:56:24,958 --> 00:56:26,666
all of them more or less.

1685

00:56:26,666 --> 00:56:28,291
And you presented some as lower

1686

00:56:28,291 --> 00:56:29,041
probability and we're being

1687

00:56:29,041 --> 00:56:30,083
driven into this other world.

1688

00:56:30,083 --> 00:56:33,291

So are you now at the point in your

1689

00:56:33,291 --> 00:56:35,208

personal life that you've accepted this

1690

00:56:35,208 --> 00:56:37,000

as a high probability

1691

00:56:37,000 --> 00:56:38,791

event worth exploring further?

1692

00:56:38,791 --> 00:56:39,958

I'm not going to say it's true or not.

1693

00:56:39,958 --> 00:56:41,625

It's high enough to be worth exploring.

1694

00:56:42,125 --> 00:56:43,291

So that leaves me in a position of

1695

00:56:43,291 --> 00:56:46,500

saying, OK, what if some UFOs are aliens?

1696

00:56:46,500 --> 00:56:48,625

I've got to go there. I've got to say,

1697

00:56:48,625 --> 00:56:50,916

what does that imply about our world?

1698

00:56:50,916 --> 00:56:52,833

That seems to me the sort of thing I'm

1699

00:56:52,833 --> 00:56:55,541

compelled to do once it seems serious

1700

00:56:55,541 --> 00:56:57,291

enough that it's earned

1701

00:56:57,291 --> 00:56:58,916

the right to be considered.

1702

00:56:58,916 --> 00:57:01,208

The prior is high enough to earn the

1703

00:57:01,208 --> 00:57:02,208

right to be considered and

1704

00:57:02,208 --> 00:57:05,166

the evidence isn't crazy bad.

1705

00:57:05,166 --> 00:57:06,958

I'm not going to give you an exact

1706

00:57:06,958 --> 00:57:08,500

probability for how believable, but it's

1707

00:57:08,500 --> 00:57:10,416

high enough that you've got to take it

1708

00:57:10,416 --> 00:57:10,916

seriously, just like the murder trial.

1709

00:57:11,500 --> 00:57:13,541

You've got to listen to the trial.

1710

00:57:13,541 --> 00:57:15,166

So you've got to ask what would happen if

1711

00:57:15,166 --> 00:57:17,083

we convicted this guy?

1712

00:57:17,083 --> 00:57:18,583

What would we do with him?

1713

00:57:18,583 --> 00:57:20,166

When you start a murder trial, you have

1714

00:57:20,166 --> 00:57:21,291

to have that in your mind.

1715

00:57:21,291 --> 00:57:22,583

The implications of the decision.

1716

00:57:22,583 --> 00:57:23,916

What would we do if we

1717

00:57:23,916 --> 00:57:25,333

had the answer to that?

1718

00:57:25,333 --> 00:57:27,250

So I've got to say, what would we

1719

00:57:27,250 --> 00:57:28,375

conclude now if we

1720

00:57:28,375 --> 00:57:30,625

decided some UFOs are aliens?

1721

00:57:30,625 --> 00:57:32,333

And it's a pretty

1722

00:57:32,333 --> 00:57:34,541

dramatic change in worldview.

1723

00:57:35,500 --> 00:57:37,500

So, you know, roughly we could say the

1724

00:57:37,500 --> 00:57:41,041

ancients saw themselves as not the

1725

00:57:41,041 --> 00:57:42,750

biggest creatures around.

1726

00:57:42,750 --> 00:57:44,000

They had gods above them,

1727

00:57:44,000 --> 00:57:45,916

even emperors above them.

1728

00:57:45,916 --> 00:57:48,250

And there was whole realms above them.

1729

00:57:48,250 --> 00:57:50,000

And they had their place in their realm

1730

00:57:50,000 --> 00:57:51,833

and they did not have the future of the

1731

00:57:51,833 --> 00:57:53,166

universe in their hands.

1732

00:57:53,166 --> 00:57:54,541

That's not how they saw themselves.

1733

00:57:54,541 --> 00:57:55,833

They had the future of their city in

1734

00:57:55,833 --> 00:57:59,166

their hands or their family, their war

1735

00:57:59,166 --> 00:57:59,916

maybe in their hands.

1736

00:57:59,916 --> 00:58:01,500

They did not have the future of the

1737

00:58:01,500 --> 00:58:02,000

universe in their hands.

1738

00:58:02,458 --> 00:58:04,958

That was not something they

1739

00:58:04,958 --> 00:58:07,291

thought was plausible, right?

1740

00:58:07,291 --> 00:58:09,166

We over time have decided that the gods

1741

00:58:09,166 --> 00:58:12,166

they saw above them don't exist.

1742

00:58:12,166 --> 00:58:14,541

And we're the top thing around.

1743

00:58:14,541 --> 00:58:16,291

And our universe looks completely empty.

1744

00:58:16,291 --> 00:58:18,541

And so we're tempted to say, all this

1745

00:58:18,541 --> 00:58:19,333

stuff we can see,

1746

00:58:19,333 --> 00:58:21,958

it's all our inheritance.

1747

00:58:21,958 --> 00:58:23,666

We eventually, if we so choose, can go

1748

00:58:23,666 --> 00:58:24,625

out and do whatever we

1749

00:58:24,625 --> 00:58:26,083

want with all of them.

1750

00:58:26,083 --> 00:58:26,750

That's who we are.

1751

00:58:26,750 --> 00:58:27,791

We are the top dog.

1752

00:58:27,791 --> 00:58:29,625

We are the top of our world.

1753

00:58:29,625 --> 00:58:30,916

And we have an enormous potential future.

1754

00:58:31,500 --> 00:58:32,750

That's pretty exciting.

1755

00:58:32,750 --> 00:58:33,708

And I've really gotten

1756

00:58:33,708 --> 00:58:34,375

into that in my life.

1757

00:58:34,375 --> 00:58:35,458

I'm a bit of a futurist.

1758

00:58:35,458 --> 00:58:37,375

I've written about future possibilities.

1759

00:58:37,375 --> 00:58:38,458

And that's one of the things that makes

1760

00:58:38,458 --> 00:58:40,041

it exciting to think about the future.

1761

00:58:40,041 --> 00:58:41,666

Look at all the places we could go and

1762

00:58:41,666 --> 00:58:43,458

all the things we could do.

1763

00:58:43,458 --> 00:58:45,458

And that means that we today have this

1764

00:58:45,458 --> 00:58:46,333

huge responsibility.

1765

00:58:46,333 --> 00:58:48,958

If choices we make today might influence

1766

00:58:48,958 --> 00:58:51,166

these future directions, then we've got

1767

00:58:51,166 --> 00:58:52,875

to take that seriously, right?

1768

00:58:52,875 --> 00:58:53,875

And I have tried to do that.

1769

00:58:53,875 --> 00:58:54,500

And I'm around other

1770

00:58:54,500 --> 00:58:55,208

people who take that seriously.

1771

00:58:55,208 --> 00:58:58,083

It's very energizing, right, to think

1772

00:58:58,083 --> 00:58:58,916

you're the ruler of the universe

1773

00:58:59,500 --> 00:59:01,416

and responsible for making really big

1774

00:59:01,416 --> 00:59:03,416

decisions about it, right?

1775

00:59:03,416 --> 00:59:05,958

And now we learn, well, you thought you

1776

00:59:05,958 --> 00:59:07,083

were going to be king.

1777

00:59:07,083 --> 00:59:10,791

You're the king's younger brother.

1778

00:59:10,791 --> 00:59:12,500

You're not the king.

1779

00:59:12,500 --> 00:59:12,916

And you know what?

1780

00:59:12,916 --> 00:59:15,666

The king thinks that you should live on a

1781

00:59:15,666 --> 00:59:17,666

little cottage in the back of his estate

1782

00:59:17,666 --> 00:59:19,541

and stay there and not bother anybody and

1783

00:59:19,541 --> 00:59:20,291

certainly not get

1784

00:59:20,291 --> 00:59:23,333

involved in the king's politics.

1785

00:59:23,333 --> 00:59:25,500

That's who you are.

1786

00:59:25,500 --> 00:59:26,416

You thought you were king.

1787

00:59:26,416 --> 00:59:26,916

You didn't know you had an older brother.

1788

00:59:27,791 --> 00:59:29,083

You thought you were going to rule the

1789

00:59:29,083 --> 00:59:32,375

kingdom, but you're not.

1790

00:59:32,375 --> 00:59:35,583

And now how do you come to terms with

1791

00:59:35,583 --> 00:59:37,166

making the best you can about your estate

1792

00:59:37,166 --> 00:59:39,791

in the back of the king's forest?

1793

00:59:39,791 --> 00:59:41,125

I mean, it's a better than most people

1794

00:59:41,125 --> 00:59:42,958

have, honestly, right?

1795

00:59:42,958 --> 00:59:44,916

Being a brother of the king has some

1796

00:59:44,916 --> 00:59:45,875

perks as long as you make

1797

00:59:45,875 --> 00:59:48,666

sure you show fealty to the king.

1798

00:59:48,666 --> 00:59:50,208

But there's some things you could do that

1799

00:59:50,208 --> 00:59:52,375

might threaten the king, and then he

1800

00:59:52,375 --> 00:59:54,916

might eliminate you.

1801

00:59:54,916 --> 00:59:55,708

Or lock you in a

1802

00:59:55,708 --> 00:59:56,208

dungeon or something, right?

1803

00:59:56,833 --> 00:59:59,083

That's where we are, right?

1804

00:59:59,083 --> 01:00:00,875

So now we say, "We're not

1805

01:00:00,875 --> 01:00:02,500

the ruler of this universe.

1806

01:00:02,500 --> 01:00:05,333

There's another power around who, like

1807

01:00:05,333 --> 01:00:09,000

the king, isn't trying to help us.

1808

01:00:09,000 --> 01:00:11,125

They're not like buddy-buddy and like,

1809

01:00:11,125 --> 01:00:12,291

"Look out. I look out for

1810

01:00:12,291 --> 01:00:13,166

you. You look out for me."

1811

01:00:13,166 --> 01:00:14,458

That's the kind of

1812

01:00:14,458 --> 01:00:17,958

relationship they've pitched us, right?

1813

01:00:17,958 --> 01:00:19,666
Their relation is, "We're on top. You're

1814
01:00:19,666 --> 01:00:20,375
down. You should find

1815
01:00:20,375 --> 01:00:21,041
this really obvious.

1816
01:00:21,041 --> 01:00:21,583
You should just

1817
01:00:21,583 --> 01:00:23,250
submit and do what we say.

1818
01:00:23,250 --> 01:00:24,125
We are the king. You

1819
01:00:24,125 --> 01:00:24,916
are the king's brother."

1820
01:00:26,500 --> 01:00:29,083
And that's where we are, right?

1821
01:00:29,083 --> 01:00:31,583
And now your main relationship with them

1822
01:00:31,583 --> 01:00:32,875
is just knowing in the background,

1823
01:00:32,875 --> 01:00:33,958
"They're not going to help you, but if

1824
01:00:33,958 --> 01:00:34,625
you cross a line,

1825
01:00:34,625 --> 01:00:37,708
they're going to squash you."

1826

01:00:37,708 --> 01:00:39,291

That's where you are.

1827

01:00:39,291 --> 01:00:44,041

And how has that updated your worldview?

1828

01:00:44,041 --> 01:00:44,833

Or has it?

1829

01:00:44,833 --> 01:00:46,833

Well, it means you have to sort of pull

1830

01:00:46,833 --> 01:00:47,916

in the scope of your

1831

01:00:47,916 --> 01:00:49,916

ambitions in some sense, right?

1832

01:00:50,875 --> 01:00:54,291

I mean, we still have a—even under the

1833

01:00:54,291 --> 01:00:55,458

worst scenario here, we've got a whole

1834

01:00:55,458 --> 01:00:57,125

solar system we can colonize

1835

01:00:57,125 --> 01:01:00,458

and take advantage of and fill and do

1836

01:01:00,458 --> 01:01:01,125

interesting things with.

1837

01:01:01,125 --> 01:01:03,708

We have a big future, just not as big as

1838

01:01:03,708 --> 01:01:06,416
you otherwise would.

1839

01:01:06,416 --> 01:01:09,000
I don't know if it would. Yeah, I agree.

1840

01:01:09,000 --> 01:01:10,416
It limits our possibilities.

1841

01:01:10,416 --> 01:01:11,500
I don't know if it necessarily has to

1842

01:01:11,500 --> 01:01:14,000
limit our ambition perhaps, but—

1843

01:01:14,000 --> 01:01:15,666
Well, of course, you come to the point,

1844

01:01:15,666 --> 01:01:16,916
could we defy them? Right?

1845

01:01:17,125 --> 01:01:20,291
That may be the first instinct, okay?

1846

01:01:20,291 --> 01:01:21,750
The king's brother might think, "Well,

1847

01:01:21,750 --> 01:01:23,208
could I sneak off and

1848

01:01:23,208 --> 01:01:24,291
talk to some other barons

1849

01:01:24,291 --> 01:01:27,291
and maybe get a resistance going here and

1850

01:01:27,291 --> 01:01:30,041
depose the king and take over?"

1851

01:01:30,041 --> 01:01:32,125

And now you're thinking, "Okay, look,

1852

01:01:32,125 --> 01:01:33,541

they're 100 million years

1853

01:01:33,541 --> 01:01:36,666

more advanced, right, or more.

1854

01:01:36,666 --> 01:01:39,875

What chance do you think you had?"

1855

01:01:39,875 --> 01:01:41,750

But, okay, there is more

1856

01:01:41,750 --> 01:01:45,916

of a chance, so there's rot.

1857

01:01:47,041 --> 01:01:52,416

So in our history, empires, firms,

1858

01:01:52,416 --> 01:01:54,958

families, they've often rotted.

1859

01:01:54,958 --> 01:01:58,000

That is, they grew for a while, and then

1860

01:01:58,000 --> 01:01:59,708

they stopped growing

1861

01:01:59,708 --> 01:02:01,916

and declined and collapsed

1862

01:02:01,916 --> 01:02:02,958

and were replaced by new things.

1863

01:02:02,958 --> 01:02:04,750

And in fact, this is the

1864

01:02:04,750 --> 01:02:06,041

history of biology, basically.

1865

01:02:06,041 --> 01:02:08,166

All organisms rot and die and are

1866

01:02:08,166 --> 01:02:09,250

replaced by new organisms.

1867

01:02:09,250 --> 01:02:11,333

Species even rot.

1868

01:02:11,333 --> 01:02:13,541

We know—and software rots, and we have

1869

01:02:13,541 --> 01:02:14,375

to replace software all

1870

01:02:14,375 --> 01:02:14,916

the time with new stuff.

1871

01:02:15,250 --> 01:02:18,125

And so basically, either you have a world

1872

01:02:18,125 --> 01:02:19,875

where things just keep

1873

01:02:19,875 --> 01:02:22,041

getting replaced with new versions,

1874

01:02:22,041 --> 01:02:23,666

or if you maintain an old

1875

01:02:23,666 --> 01:02:25,666

version long enough, it rots.

1876

01:02:25,666 --> 01:02:28,291

So the question is, if they locked down

1877

01:02:28,291 --> 01:02:30,291

their border and said nobody could leave

1878

01:02:30,291 --> 01:02:31,958

and they had some central governance to

1879

01:02:31,958 --> 01:02:33,041

maintain that, could they

1880

01:02:33,041 --> 01:02:34,791

prevent it from rotting?

1881

01:02:34,791 --> 01:02:36,208

Could they prevent it from slowly

1882

01:02:36,208 --> 01:02:37,291

declining over time and

1883

01:02:37,291 --> 01:02:38,791

becoming less capable?

1884

01:02:38,791 --> 01:02:40,625

And after 100 million years,

1885

01:02:40,625 --> 01:02:41,916

how much rot could they have?

1886

01:02:42,583 --> 01:02:44,125

I guess that would be the second most

1887

01:02:44,125 --> 01:02:46,833

important problem to solve after ensuring

1888

01:02:46,833 --> 01:02:49,833
that you don't have accidental expansion.

1889
01:02:49,833 --> 01:02:51,958
Right.

We need to make sure we don't break their

1890
01:02:51,958 --> 01:02:54,333
rule or do so observed.

1891
01:02:54,333 --> 01:02:56,416
Well, if the biggest thing is to not

1892
01:02:56,416 --> 01:02:58,500
expand and grow, the next thing is,

1893
01:02:58,500 --> 01:03:00,166
how do you stop yourself from stagnating

1894
01:03:00,166 --> 01:03:00,833
or destroying

1895
01:03:00,833 --> 01:03:01,833
yourself without that growth?

1896
01:03:01,833 --> 01:03:03,125
At least that's our question, because

1897
01:03:03,125 --> 01:03:04,375
that's how our natural—

1898
01:03:04,375 --> 01:03:06,291
Sure.
Yeah, I was thinking more in terms of,

1899
01:03:06,291 --> 01:03:08,625
well, how good are they at preventing us

1900

01:03:08,625 --> 01:03:10,000
from expanding or

1901
01:03:10,000 --> 01:03:10,916
watching for us to expand?

1902
01:03:11,250 --> 01:03:12,333
Well, isn't the assumption that they're

1903
01:03:12,333 --> 01:03:14,000
100% good at it because

1904
01:03:14,000 --> 01:03:14,333
they've gone into themselves?

1905
01:03:14,333 --> 01:03:15,791
Well, they were 100 million years ago,

1906
01:03:15,791 --> 01:03:17,708
but if they've been rotting since then,

1907
01:03:17,708 --> 01:03:18,666
how far could their

1908
01:03:18,666 --> 01:03:19,791
abilities have declined?

1909
01:03:19,791 --> 01:03:21,416
Have you integrated any type of

1910
01:03:21,416 --> 01:03:23,916
degradation into your model?

1911
01:03:23,916 --> 01:03:26,333
Well, you'd have to say, well, these UAPs

1912
01:03:26,333 --> 01:03:28,708
are showing abilities, and you have to

1913

01:03:28,708 --> 01:03:30,083

assume, okay, those are live abilities.

1914

01:03:30,083 --> 01:03:31,791

They have those now.

1915

01:03:31,791 --> 01:03:33,375

But how much do they understand them?

1916

01:03:33,375 --> 01:03:35,000

Could they have inherited stuff from long

1917

01:03:35,000 --> 01:03:36,625

ago they don't understand anymore,

1918

01:03:36,625 --> 01:03:38,916

couldn't really modify substantially?

1919

01:03:40,000 --> 01:03:42,583

That would be an extreme rot scenario

1920

01:03:42,583 --> 01:03:44,458

where they just have stuff they

1921

01:03:44,458 --> 01:03:45,625

inherited, but they can't

1922

01:03:45,625 --> 01:03:48,250

really manage it so well anymore.

1923

01:03:48,250 --> 01:03:49,166

Sounds like a situation

1924

01:03:49,166 --> 01:03:50,958

we could find ourselves in.

1925

01:03:50,958 --> 01:03:52,875
Well, we might become later on.

1926
01:03:52,875 --> 01:03:56,000
If they induce us to have the central

1927
01:03:56,000 --> 01:03:57,916
thing that lasts in rots, then we would

1928
01:03:57,916 --> 01:03:58,500
eventually have that problem.

1929
01:03:58,500 --> 01:03:59,958
But at the moment, we might think,

1930
01:03:59,958 --> 01:04:02,875
there's an opening here to slip away, if

1931
01:04:02,875 --> 01:04:05,041
only we can get them to

1932
01:04:05,041 --> 01:04:06,916
sort of misjudge our abilities.

1933
01:04:08,458 --> 01:04:10,666
So the question is like, how thoroughly

1934
01:04:10,666 --> 01:04:11,833
are they monitoring our

1935
01:04:11,833 --> 01:04:13,833
frontier for anything leaving?

1936
01:04:13,833 --> 01:04:15,791
How thoroughly are they monitoring us

1937
01:04:15,791 --> 01:04:17,000
from sending anything out?

1938

01:04:17,000 --> 01:04:21,833

We just have to slip one kilogram slowly

1939

01:04:21,833 --> 01:04:23,875

out of the solar system off to another

1940

01:04:23,875 --> 01:04:27,166

star system far away to break their rule.

1941

01:04:27,166 --> 01:04:29,666

It has to be one kilogram containing much

1942

01:04:29,666 --> 01:04:32,125

more advanced tech than we have now, but

1943

01:04:32,125 --> 01:04:33,666

that's all it would take.

1944

01:04:33,666 --> 01:04:34,166

What about ideas?

1945

01:04:34,666 --> 01:04:36,500

Do you think ideas can be

1946

01:04:36,500 --> 01:04:38,916

expansionary in this context?

1947

01:04:38,916 --> 01:04:39,958

So if we were to beave an

1948

01:04:39,958 --> 01:04:41,958

Al somewhere, that would—

1949

01:04:41,958 --> 01:04:43,583

So this one kilogram would

1950

01:04:43,583 --> 01:04:45,708
contain an AI, say, right?

1951
01:04:45,708 --> 01:04:47,583
Because if you could put a powerful AI in

1952
01:04:47,583 --> 01:04:49,458
one kilogram and slip it

1953
01:04:49,458 --> 01:04:51,250
away, dark and unnoticed,

1954
01:04:51,250 --> 01:04:53,291
and this one kilogram could then land

1955
01:04:53,291 --> 01:04:54,833
somewhere else in a million years and

1956
01:04:54,833 --> 01:04:57,208
then start growing and making a new

1957
01:04:57,208 --> 01:04:59,041
civilization worth its memory of us, that

1958
01:04:59,041 --> 01:05:01,875
would be a way to escape their rules.

1959
01:05:02,375 --> 01:05:03,958
And now the question is, could they

1960
01:05:03,958 --> 01:05:05,833
really have such a thorough monitoring of

1961
01:05:05,833 --> 01:05:08,750
us that they could see just one kilogram

1962
01:05:08,750 --> 01:05:10,041
dark rock slip away?

1963

01:05:10,041 --> 01:05:12,166

Or transmission?

1964

01:05:12,166 --> 01:05:14,500

Well, if you put something somewhere

1965

01:05:14,500 --> 01:05:15,916

else, then you could make a transmission

1966

01:05:15,916 --> 01:05:18,375

to it, but there has to be a receiver at

1967

01:05:18,375 --> 01:05:19,666

the other end first.

1968

01:05:19,666 --> 01:05:20,333

I'm assuming they're

1969

01:05:20,333 --> 01:05:21,708

more clever than us on that.

1970

01:05:21,708 --> 01:05:25,458

So then could we develop, say, an AI out

1971

01:05:25,458 --> 01:05:26,833

of their view so they

1972

01:05:26,833 --> 01:05:28,541

didn't even know we have it?

1973

01:05:28,541 --> 01:05:30,375

And then we could slip it into this rock

1974

01:05:30,375 --> 01:05:30,916

and slip it away, right?

1975

01:05:31,500 --> 01:05:32,708

It's a really long

1976

01:05:32,708 --> 01:05:34,333

shot strategy, honestly.

1977

01:05:34,333 --> 01:05:35,625

But if you're thinking of resisting,

1978

01:05:35,625 --> 01:05:36,208

that's the sort of thing

1979

01:05:36,208 --> 01:05:37,875

you have to be thinking about.

1980

01:05:37,875 --> 01:05:39,625

Because remember, how 100 million years,

1981

01:05:39,625 --> 01:05:41,875

more advanced. Come on.

1982

01:05:41,875 --> 01:05:43,916

Well, let's talk about a little, maybe

1983

01:05:43,916 --> 01:05:45,791

simpler type of resistance, which would

1984

01:05:45,791 --> 01:05:48,333

be attempting to learn

1985

01:05:48,333 --> 01:05:49,333

anything you could about it.

1986

01:05:49,333 --> 01:05:53,041

Because any osmosis of technology or

1987

01:05:53,041 --> 01:05:55,416

understanding would be that, you know, an

1988

01:05:55,416 --> 01:05:57,250

attack vector, if you will, or at least a

1989

01:05:57,250 --> 01:05:59,541

vector to pose a threat at

1990

01:05:59,541 --> 01:06:00,041

some point in the future.

1991

01:06:00,958 --> 01:06:03,375

So the simplest would just be

1992

01:06:03,375 --> 01:06:04,041

acknowledgement, I would

1993

01:06:04,041 --> 01:06:06,000

think, that this is here.

1994

01:06:06,000 --> 01:06:08,083

It does seem like if we believe they were

1995

01:06:08,083 --> 01:06:11,375

here and we coordinated to watch every

1996

01:06:11,375 --> 01:06:13,250

event, we would presumably collect a lot

1997

01:06:13,250 --> 01:06:14,750

more information on these events.

1998

01:06:14,750 --> 01:06:16,750

So I think I had a rest of estimate of

1999

01:06:16,750 --> 01:06:19,541

like at least 100,000 UFO reports in the

2000

01:06:19,541 --> 01:06:22,666
last century or whatever, and maybe even

2001
01:06:22,666 --> 01:06:23,916
a million that weren't reported.

2002
01:06:24,708 --> 01:06:27,541
So clearly, if we were believing these

2003
01:06:27,541 --> 01:06:29,333
things were real and just setting

2004
01:06:29,333 --> 01:06:31,166
ourselves up to get as much information

2005
01:06:31,166 --> 01:06:33,666
on them as we could, we would get more.

2006
01:06:33,666 --> 01:06:35,291
The question is, would it

2007
01:06:35,291 --> 01:06:37,750
be enough? For what purpose?

2008
01:06:37,750 --> 01:06:40,750
Because remember, they're anticipating

2009
01:06:40,750 --> 01:06:42,125
that we're going to try to learn about

2010
01:06:42,125 --> 01:06:43,291
them, and they're trying

2011
01:06:43,291 --> 01:06:45,250
not to reveal too much.

2012
01:06:45,250 --> 01:06:46,958
So in this cat and mouse

2013

01:06:46,958 --> 01:06:49,458
game, do you feel lucky, punk?

2014

01:06:50,333 --> 01:06:52,541
So part of the question would be, how

2015

01:06:52,541 --> 01:06:54,708
much are they adapting their behavior to

2016

01:06:54,708 --> 01:06:56,041
their estimates of our abilities?

2017

01:06:56,041 --> 01:06:57,250
So that's one of the

2018

01:06:57,250 --> 01:06:58,291
interesting things to ask here.

2019

01:06:58,291 --> 01:07:00,291
So some people have said, oh, as cell

2020

01:07:00,291 --> 01:07:01,541
phones have got more common, we don't

2021

01:07:01,541 --> 01:07:04,583
have proportionally more UAP reports, and

2022

01:07:04,583 --> 01:07:07,000
therefore this is all hoax or this is all

2023

01:07:07,000 --> 01:07:07,916
hallucinations, right?

2024

01:07:08,333 --> 01:07:12,041
But if they are adapting how far away

2025

01:07:12,041 --> 01:07:14,208
they are from us to how far they think we

2026
01:07:14,208 --> 01:07:18,666
can see, then they will recede as we look

2027
01:07:18,666 --> 01:07:20,041
more carefully, right?

2028
01:07:20,041 --> 01:07:22,041
That's an idea that I've heard

2029
01:07:22,041 --> 01:07:23,083
communicated before.

2030
01:07:23,083 --> 01:07:25,208
As we get better tools to better

2031
01:07:25,208 --> 01:07:26,666
understand them, they become less

2032
01:07:26,666 --> 01:07:28,916
effective shortly

2033
01:07:28,916 --> 01:07:29,916
afterwards, you could say.

2034
01:07:30,250 --> 01:07:33,666
Right. But I mean, they have apparently,

2035
01:07:33,666 --> 01:07:35,875
if UAP reports are to be leaked, they

2036
01:07:35,875 --> 01:07:37,416
have revealed quite a bit about

2037
01:07:37,416 --> 01:07:39,333
themselves, and apparently they don't

2038

01:07:39,333 --> 01:07:42,916

think that's much of a risk.

2039

01:07:42,916 --> 01:07:45,791

I guess one thing we can already notice

2040

01:07:45,791 --> 01:07:48,416

from what we already know is that they

2041

01:07:48,416 --> 01:07:50,500

are willing to show us in a

2042

01:07:50,500 --> 01:07:51,916

wide range of forms, right?

2043

01:07:52,125 --> 01:07:54,916

There were just like the one flying

2044

01:07:54,916 --> 01:07:56,083

saucer or whatever, and everything was

2045

01:07:56,083 --> 01:07:58,416

that one shape. Well, you might try to

2046

01:07:58,416 --> 01:07:59,291

draw more conclusions

2047

01:07:59,291 --> 01:08:00,625

from that one shape, right?

2048

01:08:00,625 --> 01:08:04,791

But there's a wide range of stuff, and—

2049

01:08:04,791 --> 01:08:05,583

Do you think it's one

2050

01:08:05,583 --> 01:08:07,583
actor or one group of actors?

2051
01:08:07,583 --> 01:08:09,666
Well, under this whole story, it would

2052
01:08:09,666 --> 01:08:12,708
have to be one authority of the

2053
01:08:12,708 --> 01:08:14,916
expedition, right, who keeps this

2054
01:08:14,916 --> 01:08:17,125
expedition from going rogue.

2055
01:08:17,125 --> 01:08:18,875
So however many parts it has, there has

2056
01:08:18,875 --> 01:08:20,916
to be one part that's limiting it.

2057
01:08:21,708 --> 01:08:24,250
Do you feel that the observations of many

2058
01:08:24,250 --> 01:08:26,375
shapes strengthens or weakens your

2059
01:08:26,375 --> 01:08:29,250
argument, or the model?

2060
01:08:29,250 --> 01:08:30,916
I guess is really what I'm getting at.

2061
01:08:30,916 --> 01:08:35,666
Well, it seems to be a way

2062
01:08:35,666 --> 01:08:38,833
to hide, I would think—

2063

01:08:38,833 --> 01:08:39,583

That could be part of

2064

01:08:39,583 --> 01:08:40,833

the edge of perception.

2065

01:08:40,833 --> 01:08:42,541

Right. Basically, if they just give you a

2066

01:08:42,541 --> 01:08:44,041

whole bunch of different shapes and

2067

01:08:44,041 --> 01:08:45,666

contexts, you can't draw as many

2068

01:08:45,666 --> 01:08:46,166

conclusions from it, right?

2069

01:08:47,208 --> 01:08:48,833

Unless you could find the part of the

2070

01:08:48,833 --> 01:08:49,750

parameter—well, they never do these

2071

01:08:49,750 --> 01:08:51,041

sorts of things. That's got to tell you

2072

01:08:51,041 --> 01:08:53,291

something maybe, but

2073

01:08:53,291 --> 01:08:56,416

otherwise it looks like they're—

2074

01:08:56,416 --> 01:08:58,666

Now, one of the things that happens in

2075

01:08:58,666 --> 01:09:01,333
this UAP space is people point to then a

2076
01:09:01,333 --> 01:09:02,750
whole world of what they call the

2077
01:09:02,750 --> 01:09:04,833
paranormal, and they say, "Well, if

2078
01:09:04,833 --> 01:09:06,083
you're going to believe this, maybe you

2079
01:09:06,083 --> 01:09:06,958
got to take all that

2080
01:09:06,958 --> 01:09:07,916
other stuff seriously."

2081
01:09:08,250 --> 01:09:09,791
And then they say, "Well, maybe the

2082
01:09:09,791 --> 01:09:11,333
aliens, if they're doing the UAPs, are

2083
01:09:11,333 --> 01:09:13,166
also doing the ghosts, and they're also

2084
01:09:13,166 --> 01:09:14,166
doing the telepathy."

2085
01:09:14,166 --> 01:09:16,750
And all the other things people point to

2086
01:09:16,750 --> 01:09:18,333
as paranormal phenomena,

2087
01:09:18,333 --> 01:09:19,458
they want to tie that in.

2088

01:09:19,458 --> 01:09:23,500

And of course, if you are believing in

2089

01:09:23,500 --> 01:09:25,083

UAPs but not the other stuff, you're

2090

01:09:25,083 --> 01:09:26,416

trying to draw a line and

2091

01:09:26,416 --> 01:09:28,666

resist that sort of merging.

2092

01:09:29,041 --> 01:09:32,125

But then there's the abduction stories,

2093

01:09:32,125 --> 01:09:33,250

and then there's the stories where the

2094

01:09:33,250 --> 01:09:36,000

UAPs show up in physical form with a

2095

01:09:36,000 --> 01:09:40,125

body. And that's a hard question here.

2096

01:09:40,125 --> 01:09:42,000

Even if I'm convinced there's something

2097

01:09:42,000 --> 01:09:44,458

going on here, I'm not necessarily going

2098

01:09:44,458 --> 01:09:45,791

to go all the way down the line and

2099

01:09:45,791 --> 01:09:47,791

embrace all paranormal

2100

01:09:47,791 --> 01:09:49,541
phenomena as part of the same thing.

2101
01:09:49,541 --> 01:09:51,833
But then there is the honest question,

2102
01:09:51,833 --> 01:09:52,500
"Well, where are you

2103
01:09:52,500 --> 01:09:53,875
going to draw this line?"

2104
01:09:53,875 --> 01:09:56,416
It's a constant line drawing I found.

2105
01:09:57,208 --> 01:09:59,750
Yeah, but I mean, I don't think I want to

2106
01:09:59,750 --> 01:10:02,125
embrace all paranormal phenomena as

2107
01:10:02,125 --> 01:10:04,833
aliens in different forms.

2108
01:10:04,833 --> 01:10:06,833
And I got to say, like, if I go look for

2109
01:10:06,833 --> 01:10:08,416
the strongest evidence for ghosts or

2110
01:10:08,416 --> 01:10:11,416
fairies, it's pretty bad.

2111
01:10:11,416 --> 01:10:13,125
And so I'm willing to think, "Well,

2112
01:10:13,125 --> 01:10:18,458
that's mostly illusions and mistakes and

2113

01:10:18,458 --> 01:10:18,958
frauds or whatever."

2114

01:10:20,541 --> 01:10:23,625
But as you may know, like, ball lightning

2115

01:10:23,625 --> 01:10:24,666
is the sort of thing—if you look for

2116

01:10:24,666 --> 01:10:25,416
the best evidence in

2117

01:10:25,416 --> 01:10:29,000
the wild of it, it's bad.

2118

01:10:29,000 --> 01:10:30,416
You wouldn't be convinced ball lightning

2119

01:10:30,416 --> 01:10:31,541
exists from the best evidence in the

2120

01:10:31,541 --> 01:10:32,791
wild, the evidence that convinced people

2121

01:10:32,791 --> 01:10:35,208
as they made it in the lab. That was it.

2122

01:10:35,208 --> 01:10:37,125
So it shows you there can be real stuff,

2123

01:10:37,125 --> 01:10:38,458
because you confirm in the lab that the

2124

01:10:38,458 --> 01:10:39,125
best evidence in the

2125

01:10:39,125 --> 01:10:40,958
field is pretty weak.

2126
01:10:40,958 --> 01:10:42,375
So that makes you not so

2127
01:10:42,375 --> 01:10:43,916
sure what to believe in, right?

2128
01:10:44,250 --> 01:10:46,791
Well, you talked about some other

2129
01:10:46,791 --> 01:10:48,416
interesting characters,

2130
01:10:48,416 --> 01:10:49,958
fairies, things of that nature.

2131
01:10:49,958 --> 01:10:53,041
I know you have perhaps considered some

2132
01:10:53,041 --> 01:10:56,875
mythological creatures or gods, things of

2133
01:10:56,875 --> 01:10:58,916
that nature could be tied into this story

2134
01:10:58,916 --> 01:10:59,833
that may have been around us

2135
01:10:59,833 --> 01:11:02,500
for a longer period of time.

2136
01:11:02,500 --> 01:11:04,500
Where are you on that topic about perhaps

2137
01:11:04,500 --> 01:11:06,958
how we've been—if these—making the

2138

01:11:06,958 --> 01:11:07,458
assumption that these

2139

01:11:07,458 --> 01:11:07,958
have been around for a while,

2140

01:11:08,416 --> 01:11:10,916
how have we perhaps interfaced with these

2141

01:11:10,916 --> 01:11:13,291
throughout our time on this planet or

2142

01:11:13,291 --> 01:11:14,125
perhaps interpreted it in

2143

01:11:14,125 --> 01:11:17,125
our writings or our stories?

2144

01:11:17,125 --> 01:11:20,958
So under the assumption they started 100

2145

01:11:20,958 --> 01:11:22,916
million years ago, the question is, how

2146

01:11:22,916 --> 01:11:24,166
recently did they show up?

2147

01:11:24,166 --> 01:11:25,708
And you've got to figure, well, they

2148

01:11:25,708 --> 01:11:28,250
probably showed up a while ago, right?

2149

01:11:28,250 --> 01:11:29,833
They wouldn't be trying to time it to

2150

01:11:29,833 --> 01:11:32,500
show up in the last thousand years before

2151
01:11:32,500 --> 01:11:33,541
interesting things happen, right?

2152
01:11:33,541 --> 01:11:34,708
That seems a little risky, because

2153
01:11:34,708 --> 01:11:36,916
they're thousands of light years away. They wouldn't want to take that.

2154
01:11:37,875 --> 01:11:39,833
Especially when you consider how fast

2155
01:11:39,833 --> 01:11:40,500
technology develops.

2156
01:11:40,500 --> 01:11:42,583
Right, right. So presumably they would be

2157
01:11:42,583 --> 01:11:45,083
around for at least, say, 10,000 years.

2158
01:11:45,083 --> 01:11:46,791
So that means there's 10,000 years of

2159
01:11:46,791 --> 01:11:48,041
history wherein they might

2160
01:11:48,041 --> 01:11:50,375
have been part of history, right?

2161
01:11:50,375 --> 01:11:51,916
And then the next question would be,

2162
01:11:51,916 --> 01:11:54,125
well, would they change their former

2163

01:11:54,125 --> 01:11:56,833

style over time to adapt to us, or if

2164

01:11:56,833 --> 01:11:58,875

they had a constant former style?

2165

01:11:58,875 --> 01:12:01,458

That seems like the top question.

2166

01:12:01,458 --> 01:12:03,333

So first of all, can I reject the

2167

01:12:03,333 --> 01:12:03,916

constant former style?

2168

01:12:04,416 --> 01:12:06,791

So if I look at ancient reports that are

2169

01:12:06,791 --> 01:12:09,833

claimed to be like UAPs, the question is,

2170

01:12:09,833 --> 01:12:11,583

are those of a noticeably

2171

01:12:11,583 --> 01:12:15,791

distinct style than recent ones?

2172

01:12:15,791 --> 01:12:17,166

I can't see that difference, but I

2173

01:12:17,166 --> 01:12:17,958

haven't been studying that.

2174

01:12:17,958 --> 01:12:19,291

But if you could show me that difference,

2175

01:12:19,291 --> 01:12:20,291
then I might be convinced, well, that's

2176
01:12:20,291 --> 01:12:22,083
an interesting piece of evidence.

2177
01:12:22,083 --> 01:12:23,500
They have been changing their style.

2178
01:12:23,500 --> 01:12:25,208
So there's one key question you see that

2179
01:12:25,208 --> 01:12:26,958
this is relevant for is, how

2180
01:12:26,958 --> 01:12:28,333
much do they know about us?

2181
01:12:29,583 --> 01:12:32,000
So the more their style has been

2182
01:12:32,000 --> 01:12:34,833
independent of us across space and time,

2183
01:12:34,833 --> 01:12:35,708
the less we know about

2184
01:12:35,708 --> 01:12:37,750
how much they know about us.

2185
01:12:37,750 --> 01:12:38,625
Right?

2186
01:12:38,625 --> 01:12:41,166
So if they've been changing their style

2187
01:12:41,166 --> 01:12:44,333
even in the last 70 years, then that says

2188

01:12:44,333 --> 01:12:47,416

they have been responding to us, and that

2189

01:12:47,416 --> 01:12:49,208

means they know things about us.

2190

01:12:49,208 --> 01:12:51,208

And that's information that's valuable,

2191

01:12:51,208 --> 01:12:53,333

like how much do they know about us?

2192

01:12:53,333 --> 01:12:55,208

So like the rot theory suggests maybe

2193

01:12:55,208 --> 01:12:56,750

they don't know anything about us much.

2194

01:12:56,750 --> 01:12:57,083

Maybe they—

2195

01:12:57,083 --> 01:12:57,791

The rot theory?

2196

01:12:58,458 --> 01:12:59,458

The rot.

2197

01:12:59,458 --> 01:13:00,833

Maybe their civilizations show rot.

2198

01:13:00,833 --> 01:13:02,291

They can't even read our language.

2199

01:13:02,291 --> 01:13:03,166

They have no idea what we're

2200

01:13:03,166 --> 01:13:05,000
saying to each other, right?

2201
01:13:05,000 --> 01:13:06,208
They aren't reading our newspapers.

2202
01:13:06,208 --> 01:13:08,583
They aren't like—they're just maybe

2203
01:13:08,583 --> 01:13:10,375
looking at something like seeing a

2204
01:13:10,375 --> 01:13:11,458
nuclear explosion and

2205
01:13:11,458 --> 01:13:12,500
saying, "Aha, check mark."

2206
01:13:12,500 --> 01:13:13,833
They're past that point in

2207
01:13:13,833 --> 01:13:15,291
the technology level, right?

2208
01:13:15,291 --> 01:13:16,833
And just they have a few check marks like

2209
01:13:16,833 --> 01:13:17,500
that, and that's all pretty

2210
01:13:17,500 --> 01:13:18,291
much all they know about us.

2211
01:13:18,291 --> 01:13:20,125
That would be at one extreme.

2212
01:13:20,125 --> 01:13:21,708
And that would give us then more options

2213

01:13:21,708 --> 01:13:24,791

for evading them if they hardly know

2214

01:13:24,791 --> 01:13:25,291

anything about us, right?

2215

01:13:25,541 --> 01:13:30,041

And under that, we could even consider an

2216

01:13:30,041 --> 01:13:31,958

extreme rot scenario where we're just

2217

01:13:31,958 --> 01:13:34,458

left with artifacts that are proceeding

2218

01:13:34,458 --> 01:13:36,916

in an autonomous fashion to some degree.

2219

01:13:36,916 --> 01:13:38,500

Well, the question is how stupid would

2220

01:13:38,500 --> 01:13:41,583

they get under rot, right?

2221

01:13:41,583 --> 01:13:43,791

Do you think destruction is part of rot,

2222

01:13:43,791 --> 01:13:44,791

like overall destruction?

2223

01:13:44,791 --> 01:13:46,541

Or does rot end at a

2224

01:13:46,541 --> 01:13:48,083

functioning yet degraded state?

2225

01:13:48,083 --> 01:13:49,750

There's a sense which we humans, when

2226

01:13:49,750 --> 01:13:52,041

we're degraded with age,

2227

01:13:52,041 --> 01:13:52,916

are somewhat more stupid.

2228

01:13:53,833 --> 01:13:58,041

Okay, but not enormously, right?

2229

01:13:58,041 --> 01:14:01,125

So even civilizations as they collapse,

2230

01:14:01,125 --> 01:14:03,458

the elites aren't much more stupid than

2231

01:14:03,458 --> 01:14:05,916

they were at their peak.

2232

01:14:05,916 --> 01:14:08,708

So with those sort of examples, I would

2233

01:14:08,708 --> 01:14:10,875

think, well, if they're more stupid,

2234

01:14:10,875 --> 01:14:11,583

under extreme rot is

2235

01:14:11,583 --> 01:14:12,708

not that much more stupid.

2236

01:14:12,708 --> 01:14:13,541

But maybe they—

2237

01:14:13,541 --> 01:14:14,583

They're thinking of Rome.

2238

01:14:14,583 --> 01:14:15,625

But they have less sort

2239

01:14:15,625 --> 01:14:17,166

of organizational capacity.

2240

01:14:17,166 --> 01:14:18,375

They couldn't coordinate on

2241

01:14:18,375 --> 01:14:18,916

bigger scales to do stuff.

2242

01:14:19,416 --> 01:14:22,208

But the individuals might be, you know,

2243

01:14:22,208 --> 01:14:23,500

still—they probably, the individuals

2244

01:14:23,500 --> 01:14:25,000

are still a lot smarter than us.

2245

01:14:25,000 --> 01:14:25,708

Certainly.

2246

01:14:25,708 --> 01:14:27,041

I'm just thinking of, like, you know,

2247

01:14:27,041 --> 01:14:30,041

Roman Rhodes being left over, the society

2248

01:14:30,041 --> 01:14:32,500

that built them not being there.

2249

01:14:32,500 --> 01:14:33,583

Right, but I mean, they're

2250

01:14:33,583 --> 01:14:34,916
around and they're active.

2251

01:14:34,916 --> 01:14:36,875
So I would think, like, this is a basis

2252

01:14:36,875 --> 01:14:38,791
enough that, like, if their homeworld had

2253

01:14:38,791 --> 01:14:40,708
collapsed and destroyed itself, then they

2254

01:14:40,708 --> 01:14:43,791
could reseed it from this expedition if

2255

01:14:43,791 --> 01:14:44,541
that had been allowed

2256

01:14:44,541 --> 01:14:45,041
in the initial plan.

2257

01:14:46,083 --> 01:14:47,750
Depending on the time frames with the

2258

01:14:47,750 --> 01:14:49,916
speed of light and their relative

2259

01:14:49,916 --> 01:14:51,416
proximity, they would need a certain

2260

01:14:51,416 --> 01:14:53,958
amount of automation here, especially if

2261

01:14:53,958 --> 01:14:55,916
the amount of time that we could go from

2262

01:14:55,916 --> 01:14:58,041
nothing to an advanced society is so

2263

01:14:58,041 --> 01:14:59,833

small, it would have to have it.

2264

01:14:59,833 --> 01:15:02,000

So I think that unless they had gone out

2265

01:15:02,000 --> 01:15:04,000

of their way to stop it, they would have

2266

01:15:04,000 --> 01:15:05,500

just become automation.

2267

01:15:05,500 --> 01:15:07,958

They would just be artificial creatures.

2268

01:15:07,958 --> 01:15:10,083

So we're going to remove that distinction

2269

01:15:10,083 --> 01:15:11,041

a bit, which is fine to do

2270

01:15:11,041 --> 01:15:11,916

because it likely makes sense.

2271

01:15:12,041 --> 01:15:13,375

Well, but it opens the question, like,

2272

01:15:13,375 --> 01:15:15,250

there have been these U.A. reports of,

2273

01:15:15,250 --> 01:15:18,625

like, squishy biological creatures.

2274

01:15:18,625 --> 01:15:20,750

So the question is, why?

2275

01:15:20,750 --> 01:15:22,375

Right.

So one story would be, well, they're

2276

01:15:22,375 --> 01:15:23,625

trying to make something we can relate

2277

01:15:23,625 --> 01:15:27,458

to, and they sort of made up some squishy

2278

01:15:27,458 --> 01:15:29,083

biological creatures to show us in their

2279

01:15:29,083 --> 01:15:31,416

displays as a way to, like, make us be

2280

01:15:31,416 --> 01:15:32,875

more relatable, right?

2281

01:15:32,875 --> 01:15:33,541

Potentially.

2282

01:15:33,541 --> 01:15:34,041

Maybe.

2283

01:15:34,125 --> 01:15:36,250

And the other story is part of their

2284

01:15:36,250 --> 01:15:38,750

whole preventing the expansion into the

2285

01:15:38,750 --> 01:15:40,416

universe thing was trying to prevent

2286

01:15:40,416 --> 01:15:41,041

themselves from

2287

01:15:41,041 --> 01:15:42,041

evolving into being weird.

2288

01:15:42,041 --> 01:15:44,000

And so they drew a line and said, we're

2289

01:15:44,000 --> 01:15:46,208

going to save our squishy biological

2290

01:15:46,208 --> 01:15:47,958

parts and preserve them forever.

2291

01:15:47,958 --> 01:15:50,500

And that's why we see these because that

2292

01:15:50,500 --> 01:15:52,541

was part of their whole we're going to

2293

01:15:52,541 --> 01:15:53,500

draw a line on

2294

01:15:53,500 --> 01:15:55,333

progress, basically, you know.

2295

01:15:55,333 --> 01:15:56,916

And there are people today who feel that

2296

01:15:56,916 --> 01:15:59,166

way about us, like if you talk about

2297

01:15:59,166 --> 01:16:00,458

genetic engineering or other things, a

2298

01:16:00,458 --> 01:16:01,250

lot of people going, no,

2299

01:16:01,250 --> 01:16:01,916

we shouldn't allow that.

2300

01:16:02,000 --> 01:16:04,083

We shouldn't allow us to end about

2301

01:16:04,083 --> 01:16:04,750

artificial intelligence.

2302

01:16:04,750 --> 01:16:06,125

People say, you know, we should be scared

2303

01:16:06,125 --> 01:16:07,458

of the eyes replacing us

2304

01:16:07,458 --> 01:16:08,333

because they're not us.

2305

01:16:08,333 --> 01:16:10,416

And we need to make sure this wishy

2306

01:16:10,416 --> 01:16:11,458

biological things get saved.

2307

01:16:11,458 --> 01:16:14,833

And so there's a possibility that they

2308

01:16:14,833 --> 01:16:15,875

saved them and they

2309

01:16:15,875 --> 01:16:18,958

really are those there.

2310

01:16:18,958 --> 01:16:20,000

The possibility.

2311

01:16:20,000 --> 01:16:21,708

I feel like even if that was what you

2312

01:16:21,708 --> 01:16:23,500

wanted to do as a society, space travel

2313

01:16:23,500 --> 01:16:26,166

wouldn't be the particular occupation

2314

01:16:26,166 --> 01:16:26,916

that you would make that statement.

2315

01:16:27,416 --> 01:16:29,333

You would. Yeah, I mean, probably you

2316

01:16:29,333 --> 01:16:31,291

would just send the ship with only

2317

01:16:31,291 --> 01:16:32,875

machines and you'd grow the new bio

2318

01:16:32,875 --> 01:16:35,125

creatures at the other end.

2319

01:16:35,125 --> 01:16:38,500

But no, that's still it's still

2320

01:16:38,500 --> 01:16:39,958

interesting because if we do make the

2321

01:16:39,958 --> 01:16:41,875

assumption that there has to be some

2322

01:16:41,875 --> 01:16:43,125

significant time delay, it has to have

2323

01:16:43,125 --> 01:16:45,166

its own ability to respond to its

2324

01:16:45,166 --> 01:16:47,416

environment based off of data gets.

2325

01:16:47,416 --> 01:16:49,791

That allows us to better define it and

2326

01:16:49,791 --> 01:16:51,875

isolate its scope of

2327

01:16:51,875 --> 01:16:52,916

reactions potentially.

2328

01:16:53,666 --> 01:16:55,416

Right. So again, we have the presumption

2329

01:16:55,416 --> 01:16:56,791

the home world didn't want to allow them

2330

01:16:56,791 --> 01:16:58,250

very much discretion.

2331

01:16:58,250 --> 01:16:59,916

They wanted to give them a very simple

2332

01:16:59,916 --> 01:17:01,833

strategy to execute that they could trust

2333

01:17:01,833 --> 01:17:03,583

and not worry about them going rogue and

2334

01:17:03,583 --> 01:17:05,166

maybe limit their capacities.

2335

01:17:05,166 --> 01:17:07,375

And so that's that's a key question.

2336

01:17:07,375 --> 01:17:08,833

They might be very limited not because

2337

01:17:08,833 --> 01:17:10,708

the home world is that decayed just

2338

01:17:10,708 --> 01:17:13,291

because they they wanted to limit the

2339

01:17:13,291 --> 01:17:13,916

possibility of this going rogue.

2340

01:17:14,583 --> 01:17:17,208

When you think about the game of life,

2341

01:17:17,208 --> 01:17:18,958

Conway's game and, you know, how such

2342

01:17:18,958 --> 01:17:20,625

simple instructions can lead to such

2343

01:17:20,625 --> 01:17:23,000

complex behavior. It's really challenging

2344

01:17:23,000 --> 01:17:26,083

problem to compress the amount of actions

2345

01:17:26,083 --> 01:17:28,416

you could place in a society in order to

2346

01:17:28,416 --> 01:17:29,583

minimize or to steer in

2347

01:17:29,583 --> 01:17:31,666

the direction you want.

2348

01:17:31,666 --> 01:17:32,833

I don't know. You have any thoughts on

2349

01:17:32,833 --> 01:17:35,625

that? It seems like a well, having a

2350

01:17:35,625 --> 01:17:36,916

small amount of framers seems simple on

2351

01:17:36,916 --> 01:17:37,875

its face, but can lead

2352

01:17:37,875 --> 01:17:38,916

to incredible complexity.

2353

01:17:40,041 --> 01:17:41,500

Sure. But they just want to draw some

2354

01:17:41,500 --> 01:17:43,083

borders. So they might like they send out

2355

01:17:43,083 --> 01:17:44,833

this expedition with some tech credit and

2356

01:17:44,833 --> 01:17:46,291

presumably it have some self repair tech.

2357

01:17:46,291 --> 01:17:47,291

Right. Things are going to break and they

2358

01:17:47,291 --> 01:17:48,000

need to be repaired.

2359

01:17:48,000 --> 01:17:49,916

It'll have some ability to collect new

2360

01:17:49,916 --> 01:17:52,250

raw materials to replace old missing

2361

01:17:52,250 --> 01:17:53,708

materials, say to get to

2362

01:17:53,708 --> 01:17:55,333

mine something for fuel. Right.

2363

01:17:55,333 --> 01:17:56,833

So it would have to have some of those

2364

01:17:56,833 --> 01:17:57,708

abilities to repair

2365

01:17:57,708 --> 01:17:59,416

and make things locally.

2366

01:17:59,416 --> 01:18:00,333

But you might think, well, they wanted to

2367

01:18:00,333 --> 01:18:01,500

make sure those abilities

2368

01:18:01,500 --> 01:18:02,875

couldn't allow it to go rogue.

2369

01:18:02,875 --> 01:18:04,291

I eat to send off new

2370

01:18:04,291 --> 01:18:05,625

interstellar colonies.

2371

01:18:05,625 --> 01:18:07,333

So maybe it draws a line at like

2372

01:18:07,333 --> 01:18:07,916

interstellar travel tech.

2373

01:18:08,500 --> 01:18:09,958

So you think it would it would still be a

2374

01:18:09,958 --> 01:18:12,500

quite capable. It wouldn't be over

2375

01:18:12,500 --> 01:18:13,625

optimized for simplicity.

2376

01:18:13,625 --> 01:18:15,916

It would still have some pretty advanced

2377

01:18:15,916 --> 01:18:17,166

behaviors from our perspective.

2378

01:18:17,166 --> 01:18:18,458

As long as they could draw a line to make

2379

01:18:18,458 --> 01:18:20,041

sure this thing couldn't go rogue. Right.

2380

01:18:20,041 --> 01:18:20,833

That would be the key.

2381

01:18:20,833 --> 01:18:22,166

That's a big question right now, even

2382

01:18:22,166 --> 01:18:24,916

with us. Right. But you could imagine

2383

01:18:24,916 --> 01:18:28,083

sending out a particular device or set of

2384

01:18:28,083 --> 01:18:30,333

devices that could repair themselves and

2385

01:18:30,333 --> 01:18:32,291

make these probes we see,

2386

01:18:32,291 --> 01:18:33,750

but not make a starship.

2387

01:18:34,916 --> 01:18:36,583

And maybe you could make a

2388

01:18:36,583 --> 01:18:38,125
device that had that limit.

2389

01:18:38,125 --> 01:18:39,666
That seems like if you had millions of

2390

01:18:39,666 --> 01:18:41,125
years to think about it, you could

2391

01:18:41,125 --> 01:18:41,791
probably come up with

2392

01:18:41,791 --> 01:18:42,500
something like that.

2393

01:18:42,500 --> 01:18:46,500
Do you think that that device would be as

2394

01:18:46,500 --> 01:18:47,666
capable or smart as

2395

01:18:47,666 --> 01:18:48,625
us? Yeah, it could be.

2396

01:18:48,625 --> 01:18:50,291
I mean, be easy to be as smart as us.

2397

01:18:50,291 --> 01:18:52,416
That is, if you limited its physical

2398

01:18:52,416 --> 01:18:53,958
abilities, you don't have to

2399

01:18:53,958 --> 01:18:56,250
limit its mental abilities.

2400

01:18:56,250 --> 01:18:58,500

Although, you know, the question is, if

2401

01:18:58,500 --> 01:19:00,583

you give it any sort of arbitrary

2402

01:19:00,583 --> 01:19:01,125

manufacturing ability,

2403

01:19:01,125 --> 01:19:01,916

couldn't it make anything?

2404

01:19:02,916 --> 01:19:05,000

And then like couldn't it use whatever

2405

01:19:05,000 --> 01:19:07,375

machines you gave it to make an arbitrary

2406

01:19:07,375 --> 01:19:08,000

manufacturing ability?

2407

01:19:08,000 --> 01:19:09,000

It's a very fine line

2408

01:19:09,000 --> 01:19:11,250

there, right? Yeah, it's tricky.

2409

01:19:11,250 --> 01:19:12,916

So I would think maybe something like

2410

01:19:12,916 --> 01:19:16,250

political officers is more the

2411

01:19:16,250 --> 01:19:17,208

straightforward solution.

2412

01:19:17,208 --> 01:19:18,708

I mean, so like in the old Soviet Union,

2413

01:19:18,708 --> 01:19:20,458

like every submarine and other military

2414

01:19:20,458 --> 01:19:21,750

units would have a political officer

2415

01:19:21,750 --> 01:19:24,166

whose main job was to make sure these

2416

01:19:24,166 --> 01:19:27,666

soldiers stayed within the political

2417

01:19:27,666 --> 01:19:28,958

constraints that the

2418

01:19:28,958 --> 01:19:29,916

military wanted to enforce.

2419

01:19:30,833 --> 01:19:33,583

Would you suggest those political

2420

01:19:33,583 --> 01:19:35,083

officers are dealing with more subjective

2421

01:19:35,083 --> 01:19:38,708

problem sets versus quantitative?

2422

01:19:38,708 --> 01:19:40,875

So what I'm going with this is, you know,

2423

01:19:40,875 --> 01:19:41,416

why do we have these

2424

01:19:41,416 --> 01:19:42,125

spongy things in there?

2425

01:19:42,125 --> 01:19:45,416

Like you said, maybe that is a subjective

2426

01:19:45,416 --> 01:19:47,083

leadership experience that

2427

01:19:47,083 --> 01:19:51,458

helps maintain that local less.

2428

01:19:51,458 --> 01:19:53,583

Right. So let's review like what are the

2429

01:19:53,583 --> 01:19:54,250

main things we want to

2430

01:19:54,250 --> 01:19:54,916

know about them, right?

2431

01:19:56,083 --> 01:19:58,375

One thing is, could we defy them? How

2432

01:19:58,375 --> 01:19:59,166

weak are they? How

2433

01:19:59,166 --> 01:20:00,583

thorough are they? Right.

2434

01:20:00,583 --> 01:20:02,250

What's our best shot of slipping off on

2435

01:20:02,250 --> 01:20:03,416

our wares? I mean, they're going to

2436

01:20:03,416 --> 01:20:03,958

already have thought

2437

01:20:03,958 --> 01:20:04,708

this through, too. Right.

2438

01:20:04,708 --> 01:20:06,583

So this is a pretty hard problem. Like

2439

01:20:06,583 --> 01:20:08,083

can we figure out a way we could slip off

2440

01:20:08,083 --> 01:20:08,666

that they haven't thought of?

2441

01:20:08,666 --> 01:20:10,041

Do we really I mean, not to interrupt

2442

01:20:10,041 --> 01:20:12,250

you, but is that is that what we

2443

01:20:12,250 --> 01:20:13,500

immediately want to try to do?

2444

01:20:13,500 --> 01:20:15,541

Or it's not obvious we do, but that's

2445

01:20:15,541 --> 01:20:16,333

that's one of the things we

2446

01:20:16,333 --> 01:20:17,500

might want to know about them.

2447

01:20:17,500 --> 01:20:19,500

Do we even have an option here? Is this

2448

01:20:19,500 --> 01:20:20,416

at all plausible? Right.

2449

01:20:21,375 --> 01:20:23,750

We want to know what their limit is like

2450

01:20:23,750 --> 01:20:26,291

what the line we shouldn't cross.

2451

01:20:26,291 --> 01:20:27,625

And is there a way to figure that out

2452

01:20:27,625 --> 01:20:30,166

from their behavior?

2453

01:20:30,166 --> 01:20:31,708

And then we want to know, do they have

2454

01:20:31,708 --> 01:20:33,958

any other agendas for us? Right.

2455

01:20:33,958 --> 01:20:36,291

Like some people in the UAP community or

2456

01:20:36,291 --> 01:20:37,375

like who have had

2457

01:20:37,375 --> 01:20:40,083

encounters, have had this feelings.

2458

01:20:40,083 --> 01:20:41,708

They've said that they were, you know,

2459

01:20:41,708 --> 01:20:42,458

there was a

2460

01:20:42,458 --> 01:20:43,541

communication of some messages.

2461

01:20:43,541 --> 01:20:45,208

Don't mess with the environment or, you

2462

01:20:45,208 --> 01:20:46,541

know, don't do nuclear weapons or

2463

01:20:46,541 --> 01:20:47,041

whatever it is. Right.

2464

01:20:47,458 --> 01:20:48,166

Do they have some

2465

01:20:48,166 --> 01:20:52,416

other messages or agendas?

2466

01:20:52,416 --> 01:20:54,833

You view those as lines. Do you think

2467

01:20:54,833 --> 01:20:59,500

those are potentially examples of lines?

2468

01:20:59,500 --> 01:21:04,041

Well, so at the moment you and I are in a

2469

01:21:04,041 --> 01:21:06,291

sort of not entirely loyal

2470

01:21:06,291 --> 01:21:08,458

to the aliens mode. Right.

2471

01:21:09,500 --> 01:21:12,916

OK. But I think a big fraction of

2472

01:21:12,916 --> 01:21:15,083

humanity over the coming centuries as

2473

01:21:15,083 --> 01:21:19,000

they came to accept these UAPs as real,

2474

01:21:19,000 --> 01:21:21,791

they would go well beyond this mode into

2475

01:21:21,791 --> 01:21:23,458

more of a supplicant mode.

2476

01:21:23,458 --> 01:21:27,583

They would accept aliens as like our top

2477

01:21:27,583 --> 01:21:29,791

status people, even our gods.

2478

01:21:29,791 --> 01:21:31,708

And they would more want to know what the

2479

01:21:31,708 --> 01:21:33,875

gods want, not out of

2480

01:21:33,875 --> 01:21:34,916

figuring out if you can defy them,

2481

01:21:35,500 --> 01:21:37,083

but because you want to

2482

01:21:37,083 --> 01:21:39,750

do what the gods want.

2483

01:21:39,750 --> 01:21:41,500

Is there a risk of option?

2484

01:21:41,500 --> 01:21:44,333

Right. So I think it's not just that you

2485

01:21:44,333 --> 01:21:45,750

honestly respect them. You

2486

01:21:45,750 --> 01:21:46,875

honestly look up to them.

2487

01:21:46,875 --> 01:21:50,375

You honestly do think they are wise and

2488

01:21:50,375 --> 01:21:53,375

that what they think is a good idea is

2489

01:21:53,375 --> 01:21:56,291

for that reason to you a good idea.

2490

01:21:56,291 --> 01:21:58,333

So that's strange to us to imagine this.

2491

01:21:58,333 --> 01:21:59,458

But I think that's the kind of thing you

2492

01:21:59,458 --> 01:22:00,875

have to get your head around here,

2493

01:22:00,875 --> 01:22:01,500

because that's how

2494

01:22:01,500 --> 01:22:02,916

most of human history was.

2495

01:22:03,333 --> 01:22:05,166

Most of human history, we not just feared

2496

01:22:05,166 --> 01:22:08,125

the gods, we respected the gods and we

2497

01:22:08,125 --> 01:22:09,500

wanted to be like the gods

2498

01:22:09,500 --> 01:22:11,291

and to do what the gods wanted.

2499

01:22:11,291 --> 01:22:13,166

Is there something that we need to change

2500

01:22:13,166 --> 01:22:15,375

as a society so we don't lose ourselves

2501

01:22:15,375 --> 01:22:18,375

in that parental relationships, perhaps?

2502

01:22:18,375 --> 01:22:20,833

Well, that's the question. Is that losing

2503

01:22:20,833 --> 01:22:22,166

ourselves or is that finding ourselves?

2504

01:22:22,166 --> 01:22:24,750

That is, we see it as losing ourselves,

2505

01:22:24,750 --> 01:22:26,458

but they will see it as finding

2506

01:22:26,458 --> 01:22:28,750

themselves if that's the way we go.

2507

01:22:29,500 --> 01:22:31,125

Sure, our ancestors who looked up to the

2508

01:22:31,125 --> 01:22:31,833

gods, they didn't think

2509

01:22:31,833 --> 01:22:33,583

they had lost themselves.

2510

01:22:33,583 --> 01:22:34,541

Yeah, that's very true.

2511

01:22:34,541 --> 01:22:36,125

They thought that was

2512

01:22:36,125 --> 01:22:37,375

the right way to be.

2513

01:22:37,375 --> 01:22:39,708

Is this a religious question, you think,

2514

01:22:39,708 --> 01:22:42,083

as well as sociological?

2515

01:22:42,083 --> 01:22:43,833

And how do you really define the two or

2516

01:22:43,833 --> 01:22:46,916

draw the line between the two, perhaps?

2517

01:22:46,916 --> 01:22:49,416

In the last year, I did a lot of work on

2518

01:22:49,416 --> 01:22:51,375

the concept of the sacred.

2519

01:22:51,375 --> 01:22:53,208

And the high level point to notice is

2520

01:22:53,208 --> 01:22:56,166

that religion is in decline over the last

2521

01:22:56,166 --> 01:22:57,916

century or so, but the sacred is not.

2522

01:22:58,500 --> 01:23:00,500

So once upon a time, the sacred was all

2523

01:23:00,500 --> 01:23:01,833

mixed up with religion.

2524

01:23:01,833 --> 01:23:04,000

But now we treat many things as sacred

2525

01:23:04,000 --> 01:23:05,000

without really the

2526

01:23:05,000 --> 01:23:06,041

religious backing or support.

2527

01:23:06,041 --> 01:23:07,375

It's just treated as sacred.

2528

01:23:07,375 --> 01:23:11,000

So I would more think the aliens would be

2529

01:23:11,000 --> 01:23:13,958

treated as sacred

2530

01:23:13,958 --> 01:23:16,708

pretty obviously, I think.

2531

01:23:16,708 --> 01:23:18,916

Whether that counts as religious, I'm not

2532

01:23:18,916 --> 01:23:21,250

sure it matters so much.

2533

01:23:21,250 --> 01:23:23,375

But, you know, so clearly once upon a

2534

01:23:23,375 --> 01:23:24,458

time, there were gods

2535

01:23:24,458 --> 01:23:25,916

who didn't say much.

2536

01:23:26,625 --> 01:23:28,041

And then we had the set of religions

2537

01:23:28,041 --> 01:23:29,875

where gods had a local

2538

01:23:29,875 --> 01:23:31,333

messenger on earth who said a lot.

2539

01:23:31,333 --> 01:23:32,458

And then that was very

2540

01:23:32,458 --> 01:23:33,791

influential in behavior, right?

2541

01:23:33,791 --> 01:23:34,458

Jesus or Rahab.

2542

01:23:34,458 --> 01:23:36,708

And people wanted to go along with what

2543

01:23:36,708 --> 01:23:37,625

they said because that

2544

01:23:37,625 --> 01:23:39,708

was supposedly God talking.

2545

01:23:39,708 --> 01:23:42,000

Well, I could see this forming either

2546

01:23:42,000 --> 01:23:43,958

strengthening or forming new religions,

2547

01:23:43,958 --> 01:23:46,541

which could be very

2548

01:23:46,541 --> 01:23:47,916

powerful, frankly, sociologically,

2549

01:23:48,875 --> 01:23:51,166

but counter perhaps to what the

2550
01:23:51,166 --> 01:23:53,041
government's goals are because it would

2551
01:23:53,041 --> 01:23:56,291
be a separate authority figure that is

2552
01:23:56,291 --> 01:23:57,083
validated, perhaps,

2553
01:23:57,083 --> 01:23:58,666
if there is firm proof.

2554
01:23:58,666 --> 01:24:00,083
Do you think there's a

2555
01:24:00,083 --> 01:24:00,916
conflict there, perhaps?

2556
01:24:02,791 --> 01:24:07,041
I think that one of the clear predictions

2557
01:24:07,041 --> 01:24:08,958
if the world comes to believe that many

2558
01:24:08,958 --> 01:24:12,541
UFOs are aliens is that they will be this

2559
01:24:12,541 --> 01:24:16,083
retribution or accounting for all the

2560
01:24:16,083 --> 01:24:19,208
governments who said otherwise, who kind

2561
01:24:19,208 --> 01:24:22,208
of had evidence to the contrary, right?

2562
01:24:22,208 --> 01:24:24,333

There will be some story about how they

2563

01:24:24,333 --> 01:24:26,416

were wrong and they should be shamed.

2564

01:24:26,416 --> 01:24:28,041

And basically, the new governments

2565

01:24:28,041 --> 01:24:28,791

afterwards will

2566

01:24:28,791 --> 01:24:29,916

distance themselves from that.

2567

01:24:30,208 --> 01:24:32,666

Just like we now, say, as democratic

2568

01:24:32,666 --> 01:24:34,583

governments distance ourselves from our

2569

01:24:34,583 --> 01:24:35,583

ancestral monarchy

2570

01:24:35,583 --> 01:24:37,166

governments and say that wasn't us.

2571

01:24:37,166 --> 01:24:37,791

That was them.

2572

01:24:37,791 --> 01:24:38,916

And they did the wrong things and we're

2573

01:24:38,916 --> 01:24:40,041

doing the right things.

2574

01:24:40,041 --> 01:24:41,500

So then there would be some sort of way

2575

01:24:41,500 --> 01:24:43,833

in which new governments would say we're

2576

01:24:43,833 --> 01:24:47,125

the good governments who believe in

2577

01:24:47,125 --> 01:24:48,916

aliens and go along with them, not like

2578

01:24:48,916 --> 01:24:49,791

those bad old

2579

01:24:49,791 --> 01:24:51,125

governments who resisted them.

2580

01:24:51,125 --> 01:24:53,541

There would be a distancing

2581

01:24:53,541 --> 01:24:55,375

from those old governments.

2582

01:24:55,375 --> 01:24:57,041

That would be, therefore, a point at

2583

01:24:57,041 --> 01:24:57,791

which there might be

2584

01:24:57,791 --> 01:24:58,916

political revolutions even.

2585

01:24:59,125 --> 01:25:00,916

Like that could be the basis of some way

2586

01:25:00,916 --> 01:25:04,208

in which there was a great overturning of

2587

01:25:04,208 --> 01:25:07,416

previous political governance regime

2588

01:25:07,416 --> 01:25:08,583

using this as the excuse.

2589

01:25:08,583 --> 01:25:09,625

Those old corrupt

2590

01:25:09,625 --> 01:25:12,458

governments, they refused to believe.

2591

01:25:12,458 --> 01:25:14,833

They even hit it and they actively

2592

01:25:14,833 --> 01:25:16,666

prevented everyone from knowing this key

2593

01:25:16,666 --> 01:25:19,458

thing that we should all know.

2594

01:25:19,458 --> 01:25:21,875

And there would be retribution.

2595

01:25:21,875 --> 01:25:23,125

Let's talk about the

2596

01:25:23,125 --> 01:25:24,916

government and its actions today.

2597

01:25:25,125 --> 01:25:28,375

Maybe you can provide a little background

2598

01:25:28,375 --> 01:25:30,041

on just kind of how you view the events

2599

01:25:30,041 --> 01:25:30,833

of today with the

2600

01:25:30,833 --> 01:25:32,166

government's interaction in it.

2601

01:25:32,166 --> 01:25:34,041

And, you know, this has been in the news.

2602

01:25:34,041 --> 01:25:35,875

There's laws being passed.

2603

01:25:35,875 --> 01:25:37,500

This is now an active topic that's

2604

01:25:37,500 --> 01:25:38,583

getting a lot of attention.

2605

01:25:38,583 --> 01:25:41,583

How do you interpret that?

2606

01:25:41,583 --> 01:25:44,541

My read is that most of the usual elites,

2607

01:25:44,541 --> 01:25:47,708

say physicists, academics, journalists,

2608

01:25:47,708 --> 01:25:50,625

they're still pretty anti-UAP.

2609

01:25:51,208 --> 01:25:53,916

And it's almost a knee-jerk assumption

2610

01:25:53,916 --> 01:25:56,375

among them that you would be, too.

2611

01:25:56,375 --> 01:25:58,833

So there is allowing some government

2612

01:25:58,833 --> 01:26:00,500

agencies to issue some reports and issue

2613

01:26:00,500 --> 01:26:01,625

some things and have

2614

01:26:01,625 --> 01:26:03,541

some congressional hearings.

2615

01:26:03,541 --> 01:26:05,458

And that's more sort of allowing this

2616

01:26:05,458 --> 01:26:07,291

minority to be more

2617

01:26:07,291 --> 01:26:08,416

prominent than it used to be.

2618

01:26:08,416 --> 01:26:10,000

But it's still a minority.

2619

01:26:10,000 --> 01:26:11,750

It's still not just a minority.

2620

01:26:11,750 --> 01:26:13,916

It's a look-down-on minority, right?

2621

01:26:14,958 --> 01:26:17,291

So you might make the analogy to, you

2622

01:26:17,291 --> 01:26:20,375

know, blacks in the U.S. were raised in

2623

01:26:20,375 --> 01:26:21,791

status, say, during World War II, to have

2624

01:26:21,791 --> 01:26:23,750

their own military divisions and fighter

2625

01:26:23,750 --> 01:26:24,791

pilot division or something else.

2626

01:26:24,791 --> 01:26:26,125

And that was certainly raising their

2627

01:26:26,125 --> 01:26:28,291

status relative to before, but it wasn't

2628

01:26:28,291 --> 01:26:29,916

to equality at that point, right?

2629

01:26:30,500 --> 01:26:32,625

So I would think that's the current

2630

01:26:32,625 --> 01:26:36,166

situation, is the UAP community is being

2631

01:26:36,166 --> 01:26:38,875

allowed to be seen as higher than they

2632

01:26:38,875 --> 01:26:44,291

once were, but not equal to the rest.

2633

01:26:44,291 --> 01:26:44,916

Well, OK.

2634

01:26:44,916 --> 01:26:45,750

That's fair.

2635

01:26:45,750 --> 01:26:46,833

That's certainly true.

2636

01:26:47,166 --> 01:26:48,708

Do you think that the government's

2637

01:26:48,708 --> 01:26:50,791

activities outside of boosting up that

2638

01:26:50,791 --> 01:26:52,958

cohort, that minority,

2639

01:26:52,958 --> 01:26:54,083

what about their intentions?

2640

01:26:54,083 --> 01:26:56,000

Because I doubt that was necessarily

2641

01:26:56,000 --> 01:26:58,250

their core intention was to

2642

01:26:58,250 --> 01:27:00,333

prop up that group necessarily.

2643

01:27:00,333 --> 01:27:02,458

Well, the things I've heard suggest that

2644

01:27:02,458 --> 01:27:04,708

the primary causal process here was

2645

01:27:04,708 --> 01:27:06,708

particular politicians

2646

01:27:06,708 --> 01:27:08,750

pushing them to, basically.

2647

01:27:08,750 --> 01:27:10,250

Well, they required them to, and then

2648

01:27:10,250 --> 01:27:11,500

they somehow defied it.

2649

01:27:11,500 --> 01:27:12,875

And then the politicians went back and,

2650

01:27:12,875 --> 01:27:15,166

like, kept retrying to require them to so

2651

01:27:15,166 --> 01:27:15,916

that they couldn't evade the requirement.

2652

01:27:16,708 --> 01:27:19,000

So you see this as more grassroots?

2653

01:27:19,000 --> 01:27:20,208

Well, it's more grassroots

2654

01:27:20,208 --> 01:27:21,500

through the top politicians.

2655

01:27:21,500 --> 01:27:23,291

Like, apparently, several presidents have

2656

01:27:23,291 --> 01:27:25,625

said, "Hey, I tried to go look into this,

2657

01:27:25,625 --> 01:27:27,458

and I got the runaround."

2658

01:27:27,458 --> 01:27:30,333

And then, you know, major heads of the

2659

01:27:30,333 --> 01:27:32,500

Senate and, you know, in Congress

2660

01:27:32,500 --> 01:27:34,625

basically said, "We tried again."

2661

01:27:34,625 --> 01:27:36,791

And, you know, and they just kept trying

2662

01:27:36,791 --> 01:27:38,500

again and again to force

2663

01:27:38,500 --> 01:27:39,916

the government to do more.

2664

01:27:40,166 --> 01:27:41,708

It seems like the government has

2665

01:27:41,708 --> 01:27:44,166

basically said, you know,

2666

01:27:44,166 --> 01:27:45,791

they've done what they had to.

2667

01:27:45,791 --> 01:27:46,791

They haven't been, like,

2668

01:27:46,791 --> 01:27:51,333

eager or, you know, enthusiastic.

2669

01:27:51,333 --> 01:27:55,500

I mean, the question is, how much of a

2670

01:27:55,500 --> 01:27:56,750

hidden part of the government is there

2671

01:27:56,750 --> 01:27:58,791

where they know a lot and they're hiding

2672

01:27:58,791 --> 01:28:00,875

a lot, as opposed to this is just, you

2673

01:28:00,875 --> 01:28:02,833

know, decentralized dysfunction?

2674

01:28:02,833 --> 01:28:05,041

And I don't know the answer to that.

2675

01:28:05,041 --> 01:28:06,916

But either one is plausible.

2676

01:28:07,541 --> 01:28:09,041

Where do you think this goes in the next

2677

01:28:09,041 --> 01:28:10,125

two years from the

2678

01:28:10,125 --> 01:28:11,041

government interaction side?

2679

01:28:11,041 --> 01:28:12,166

Do you think this fizzles out?

2680

01:28:12,166 --> 01:28:12,916

Do you think it continues?

2681

01:28:12,916 --> 01:28:14,583

Yeah, regression to the mean is my usual

2682

01:28:14,583 --> 01:28:16,958

prediction for everything.

2683

01:28:16,958 --> 01:28:18,000

You have a usual history,

2684

01:28:18,000 --> 01:28:18,750

and you have an exception.

2685

01:28:18,750 --> 01:28:19,916

The exception usually goes away.

2686

01:28:19,916 --> 01:28:21,500

Like, that was right after 9/11.

2687

01:28:21,500 --> 01:28:22,833

That was the question, right?

2688

01:28:22,833 --> 01:28:25,375

9/11, people said, "Is this the beginning

2689

01:28:25,375 --> 01:28:27,250

of a whole new trend of much bigger

2690

01:28:27,250 --> 01:28:29,583

terrorist attacks, or is this just an

2691

01:28:29,583 --> 01:28:30,625

unusual exception as

2692

01:28:30,625 --> 01:28:32,000

an unusually big one?"

2693

01:28:32,000 --> 01:28:34,000

Turned out it was the second, right?

2694

01:28:34,000 --> 01:28:34,916

It wasn't a new trend.

2695

01:28:35,500 --> 01:28:37,458

It was for something, but not necessarily

2696

01:28:37,458 --> 01:28:40,125

that specific initial cause.

2697

01:28:40,125 --> 01:28:42,375

Right.

But often when you have an unusual event,

2698

01:28:42,375 --> 01:28:43,416

that's the key question.

2699

01:28:43,416 --> 01:28:46,208

Is this trend breaking, or is this just

2700

01:28:46,208 --> 01:28:47,125
an unusually large

2701

01:28:47,125 --> 01:28:49,041
event in the usual trend?

2702

01:28:49,041 --> 01:28:50,833
And so that second

2703

01:28:50,833 --> 01:28:52,791
theory is the usual theory.

2704

01:28:52,791 --> 01:28:55,041
Usually when there's a deviation, it's

2705

01:28:55,041 --> 01:28:56,958
just an unusual deviation, and the usual

2706

01:28:56,958 --> 01:28:58,208
trend comes back afterwards.

2707

01:28:58,208 --> 01:29:00,208
We're six years in now.

2708

01:29:00,208 --> 01:29:01,125
We seem to still be on

2709

01:29:01,125 --> 01:29:01,916
an upward slope, I'd say.

2710

01:29:02,458 --> 01:29:04,583
So when does it start

2711

01:29:04,583 --> 01:29:08,458
forming to a trend in your mind?

2712

01:29:08,458 --> 01:29:09,541

Well—

It's one of those things that you can

2713

01:29:09,541 --> 01:29:10,500

only look back at and

2714

01:29:10,500 --> 01:29:13,958

realize it was a trend.

2715

01:29:13,958 --> 01:29:16,083

So apparently, like, say in Britain and

2716

01:29:16,083 --> 01:29:18,208

in France, they had a process where,

2717

01:29:18,208 --> 01:29:20,833

like, they revealed all of their records,

2718

01:29:20,833 --> 01:29:21,958

or all the records they

2719

01:29:21,958 --> 01:29:23,083

supposedly had, right?

2720

01:29:23,083 --> 01:29:24,333

And perhaps a couple of

2721

01:29:24,333 --> 01:29:25,458

other countries did that, too?

2722

01:29:25,458 --> 01:29:27,916

Conden Report in the U.K. and

2723

01:29:27,916 --> 01:29:28,958

the name is slipping my name.

2724

01:29:28,958 --> 01:29:29,958

I think it was from France.

2725

01:29:29,958 --> 01:29:30,916

Right.

And it's also a C name, I think, or something.

2726

01:29:31,958 --> 01:29:32,791

Yes.

2727

01:29:32,791 --> 01:29:33,833

Right.

2728

01:29:33,833 --> 01:29:35,583

So it starts with a C. But anyway.

2729

01:29:35,583 --> 01:29:36,375

Okay.

2730

01:29:36,375 --> 01:29:38,875

So those are more dramatic than the U.S.

2731

01:29:38,875 --> 01:29:41,875

has done in some sense, but they still

2732

01:29:41,875 --> 01:29:44,833

didn't change the conversation, really.

2733

01:29:44,833 --> 01:29:45,958

Basically, those governments could then

2734

01:29:45,958 --> 01:29:47,041

just say, "And we've shut this all down.

2735

01:29:47,041 --> 01:29:48,750

We're not doing it anymore."

2736

01:29:48,750 --> 01:29:49,875

And just have that be

2737

01:29:49,875 --> 01:29:52,166
their story after that, right?

2738

01:29:52,166 --> 01:29:54,791
So why isn't that the most odd thing to

2739

01:29:54,791 --> 01:29:55,541
suspect about the U.S.?

2740

01:29:55,541 --> 01:29:57,916
So we'll just do that same thing, right?

2741

01:29:58,083 --> 01:30:01,666
We'll publish a bunch of reports.

2742

01:30:01,666 --> 01:30:02,958
We'll say, "See, we're being open about

2743

01:30:02,958 --> 01:30:04,791
it," and then go back to

2744

01:30:04,791 --> 01:30:07,625
what they were doing before.

2745

01:30:07,625 --> 01:30:10,958
Do you want that to happen?

2746

01:30:10,958 --> 01:30:13,333
Will that signify to you that, "Okay, I

2747

01:30:13,333 --> 01:30:14,625
guess there's nothing here?"

2748

01:30:14,625 --> 01:30:17,083
No.
You can go back to your normal work?

2749

01:30:17,083 --> 01:30:20,291

I think that we already have worldwide

2750

01:30:20,291 --> 01:30:22,125

over the last half century enough

2751

01:30:22,125 --> 01:30:23,750

evidence that you should, like, seriously

2752

01:30:23,750 --> 01:30:24,333

be thinking about what

2753

01:30:24,333 --> 01:30:26,083

the hell is going on here.

2754

01:30:26,083 --> 01:30:26,916

I agree with you.

2755

01:30:27,500 --> 01:30:29,166

And so the question is,

2756

01:30:29,166 --> 01:30:30,750

what more would it take?

2757

01:30:30,750 --> 01:30:32,958

It seems like the thing it would take is

2758

01:30:32,958 --> 01:30:34,833

some sort of consensus

2759

01:30:34,833 --> 01:30:37,916

among intellectual elites.

2760

01:30:37,916 --> 01:30:38,916

I haven't thought about it this much, but

2761

01:30:38,916 --> 01:30:40,625

it looks like the real limiting factor

2762

01:30:40,625 --> 01:30:44,833

here is, say, academic elites.

2763

01:30:44,833 --> 01:30:46,958

I think they are kind of anti, and as

2764

01:30:46,958 --> 01:30:49,125

long as they stay anti, government wants

2765

01:30:49,125 --> 01:30:51,750

to sort of seem respected by them.

2766

01:30:51,750 --> 01:30:52,250

I don't know.

2767

01:30:52,500 --> 01:30:56,000

I mean, if many militaries around the

2768

01:30:56,000 --> 01:30:57,666

government were all to get together and

2769

01:30:57,666 --> 01:31:00,125

issue a joint declaration that, "Hey,

2770

01:31:00,125 --> 01:31:01,791

this is real and this isn't from us,"

2771

01:31:01,791 --> 01:31:03,416

well, that would—but what's

2772

01:31:03,416 --> 01:31:04,208

the chance they would do that?

2773

01:31:04,208 --> 01:31:04,666

I don't know.

2774

01:31:04,666 --> 01:31:07,500

It's tough to get militaries to admit

2775

01:31:07,500 --> 01:31:08,125

uncertainty, because

2776

01:31:08,125 --> 01:31:10,000

that is a vulnerability.

2777

01:31:10,000 --> 01:31:12,083

And I thought it was a big step when the

2778

01:31:12,083 --> 01:31:14,041

United States took this up and said,

2779

01:31:14,041 --> 01:31:15,000

"Hey, we don't know

2780

01:31:15,000 --> 01:31:16,916

what's over our airspace.

2781

01:31:16,916 --> 01:31:18,833

We're going to introduce reporting to

2782

01:31:18,833 --> 01:31:19,916

better understand it."

2783

01:31:21,166 --> 01:31:22,583

There's perhaps—you know, I can

2784

01:31:22,583 --> 01:31:24,875

envision a way where this is approached

2785

01:31:24,875 --> 01:31:27,458

at the UN, and I think

2786

01:31:27,458 --> 01:31:28,500

there's a pitch that can be made.

2787

01:31:28,500 --> 01:31:29,500

We don't want to have

2788

01:31:29,500 --> 01:31:30,958

uncertainty in our combat space.

2789

01:31:30,958 --> 01:31:33,333

Neither side does, because that increases

2790

01:31:33,333 --> 01:31:36,041

the chance for problems.

2791

01:31:36,041 --> 01:31:37,583

Same thing with aviation safety.

2792

01:31:37,583 --> 01:31:38,625

We want to be able to

2793

01:31:38,625 --> 01:31:39,625

address those things.

2794

01:31:39,625 --> 01:31:42,500

So can we admit, perhaps not even just as

2795

01:31:42,500 --> 01:31:43,750

the United States, but as an

2796

01:31:43,750 --> 01:31:45,291

international community, that there is

2797

01:31:45,291 --> 01:31:47,333

something that we don't know what it is

2798

01:31:47,333 --> 01:31:48,333

and look to work

2799

01:31:48,333 --> 01:31:48,916

together to figure it out?

2800

01:31:49,416 --> 01:31:52,000

I think that would be a good step.

2801

01:31:52,000 --> 01:31:54,083

So I have this book, my second book,

2802

01:31:54,083 --> 01:31:54,958

called "The Elephant and the

2803

01:31:54,958 --> 01:31:55,541

Marine—Hidden

2804

01:31:55,541 --> 01:31:57,333

Motives in Everyday Life."

2805

01:31:57,333 --> 01:32:00,208

And just briefly, it's about all sorts of

2806

01:32:00,208 --> 01:32:02,541

ways that we are just wrong about big

2807

01:32:02,541 --> 01:32:04,333

things about our own motives.

2808

01:32:04,333 --> 01:32:06,041

That is, we don't actually

2809

01:32:06,041 --> 01:32:07,291

go to the doctor to get well.

2810

01:32:07,291 --> 01:32:08,416

We go to show that we care.

2811

01:32:08,416 --> 01:32:09,833

We don't actually go to school to learn.

2812

01:32:09,833 --> 01:32:11,666

We go to show that we're conscientious

2813

01:32:11,666 --> 01:32:12,916

and conformist and intelligent.

2814

01:32:13,416 --> 01:32:15,791

There's a bunch of big things in our

2815

01:32:15,791 --> 01:32:18,208

world where we—the evidence is pretty

2816

01:32:18,208 --> 01:32:19,875

clear, and we don't admit it, and that

2817

01:32:19,875 --> 01:32:22,541

goes on for centuries.

2818

01:32:22,541 --> 01:32:24,708

So that doesn't make me terribly

2819

01:32:24,708 --> 01:32:26,583

optimistic that if you discover a thing

2820

01:32:26,583 --> 01:32:29,083

that's true but that the world won't

2821

01:32:29,083 --> 01:32:30,375

admit it, that you're going to get the

2822

01:32:30,375 --> 01:32:32,625

world to admit it soon.

2823

01:32:32,625 --> 01:32:35,041

You might, but some of these things just

2824

01:32:35,041 --> 01:32:37,708

go on for centuries and even longer.

2825

01:32:38,166 --> 01:32:40,583

There's just a lot of things about which

2826

01:32:40,583 --> 01:32:42,166

sort of official authorities don't want

2827

01:32:42,166 --> 01:32:44,708

to admit, because it's awkward.

2828

01:32:44,708 --> 01:32:47,833

Have you found a parameter or a trigger

2829

01:32:47,833 --> 01:32:53,625

that moves it to the other side?

2830

01:32:53,625 --> 01:32:59,083

One interesting example is—I'm blanking

2831

01:32:59,083 --> 01:33:01,875

on the word—superstition.

2832

01:33:03,833 --> 01:33:06,125

So centuries ago, most everyone was

2833

01:33:06,125 --> 01:33:09,958

superstitious, and most everyone kind of

2834

01:33:09,958 --> 01:33:12,083

had to go along with accepting the idea

2835

01:33:12,083 --> 01:33:14,333

that superstition was legitimate.

2836

01:33:14,333 --> 01:33:17,750

There were things to be superstitious of.

2837

01:33:17,750 --> 01:33:20,208

And somehow over the last few centuries,

2838

01:33:20,208 --> 01:33:21,083

certainly among elites,

2839

01:33:21,083 --> 01:33:23,625

that's just become not a thing.

2840

01:33:23,625 --> 01:33:24,875

Elites don't talk that

2841

01:33:24,875 --> 01:33:25,916

much about superstition.

2842

01:33:26,708 --> 01:33:28,208

It's throwing salt over your shoulder,

2843

01:33:28,208 --> 01:33:29,375

and you saw all those little things,

2844

01:33:29,375 --> 01:33:32,041

because it's at odds with the

2845

01:33:32,041 --> 01:33:34,916

usual elite view of the world.

2846

01:33:34,916 --> 01:33:35,916

But that took a while.

2847

01:33:35,916 --> 01:33:37,333

It took a long time.

2848

01:33:37,333 --> 01:33:38,833

It was slow and gradual.

2849

01:33:38,833 --> 01:33:40,625

It just faded away, right?

2850

01:33:40,625 --> 01:33:42,458

Is that associated with our ability to

2851

01:33:42,458 --> 01:33:45,750

not control the wider universe?

2852

01:33:45,750 --> 01:33:48,708

It's associated with science and tech

2853

01:33:48,708 --> 01:33:51,166

just becoming very high status and in

2854

01:33:51,166 --> 01:33:52,916

some sense becoming our new religion.

2855

01:33:53,958 --> 01:33:56,583

It used to be the church was the highest

2856

01:33:56,583 --> 01:33:59,541

authority, and in some sense academic

2857

01:33:59,541 --> 01:34:01,750

science is our highest authority.

2858

01:34:01,750 --> 01:34:03,166

Even journalists defer to it.

2859

01:34:03,166 --> 01:34:05,041

Government defers to it.

2860

01:34:05,041 --> 01:34:07,708

And so it says superstition is stupid,

2861

01:34:07,708 --> 01:34:10,833

and so people are reluctant to seem

2862

01:34:10,833 --> 01:34:12,708

stupid by associating

2863

01:34:12,708 --> 01:34:13,666

themselves with superstition.

2864

01:34:14,833 --> 01:34:17,500

And that superstition has gone along with

2865

01:34:17,500 --> 01:34:19,666

fairies and ghosts and all those other

2866

01:34:19,666 --> 01:34:22,000

things and everything else in that

2867

01:34:22,000 --> 01:34:26,750

category, including UAPs.

2868

01:34:26,750 --> 01:34:29,041

And so the question is, what does it take

2869

01:34:29,041 --> 01:34:30,625

to get out of that category?

2870

01:34:30,625 --> 01:34:31,708

So there's some famous

2871

01:34:31,708 --> 01:34:33,500

examples, like asteroids.

2872

01:34:33,500 --> 01:34:35,541

Once upon a time asteroids were in that

2873

01:34:35,541 --> 01:34:37,875

category, and then some scientists

2874

01:34:37,875 --> 01:34:40,208

managed to go and find enough evidence to

2875

01:34:40,208 --> 01:34:41,666

convince others, oh, rocks

2876

01:34:41,666 --> 01:34:42,916

really do fall from the sky.

2877

01:34:44,458 --> 01:34:47,750

It wasn't deeply an anti-view, but it was

2878

01:34:47,750 --> 01:34:49,541

like, that's kind of a silly sort of

2879

01:34:49,541 --> 01:34:51,583

view, but they were convinced.

2880

01:34:51,583 --> 01:34:54,125

And as you know, like there's these high

2881

01:34:54,125 --> 01:34:55,583

pink lightning high up

2882

01:34:55,583 --> 01:34:56,708

in the atmosphere, right?

2883

01:34:56,708 --> 01:34:59,500

And pilots saw this half a century at

2884

01:34:59,500 --> 01:35:02,500

least ago, and they didn't say much about

2885

01:35:02,500 --> 01:35:04,000

it because they were afraid

2886

01:35:04,000 --> 01:35:06,041

of looking drunk or whatever.

2887

01:35:06,041 --> 01:35:08,125

And then NASA took some pictures of it

2888

01:35:08,125 --> 01:35:09,500

two decades ago or something and said,

2889

01:35:09,500 --> 01:35:10,000

look, here they are.

2890

01:35:10,916 --> 01:35:12,166

And the pilot said, yeah, we've been

2891

01:35:12,166 --> 01:35:13,625

seeing that for a while, but like, I

2892

01:35:13,625 --> 01:35:14,708

didn't really want to say anything

2893

01:35:14,708 --> 01:35:16,666

because we didn't want to look stupid.

2894

01:35:16,666 --> 01:35:19,625

So that crossed the line, switched over.

2895

01:35:19,625 --> 01:35:21,375

The ball lightning, people said, you

2896

01:35:21,375 --> 01:35:22,375

know, no, that's crazy.

2897

01:35:22,375 --> 01:35:23,875

And then they made it in the lab.

2898

01:35:23,875 --> 01:35:26,000

So there are these historical examples

2899

01:35:26,000 --> 01:35:28,833

where it switched over, right?

2900

01:35:28,833 --> 01:35:30,583

Some sort of evidence was enough to make

2901

01:35:30,583 --> 01:35:32,541

people take it out of the superstition

2902

01:35:32,541 --> 01:35:35,958

crazy realm and put it into the thing.

2903

01:35:35,958 --> 01:35:37,708

Now, so what would it

2904

01:35:37,708 --> 01:35:38,916

take to do that with UAPs?

2905

01:35:39,458 --> 01:35:42,541

Now, unfortunately, like the problem is

2906

01:35:42,541 --> 01:35:45,208

that sort of the degree of enthusiasm and

2907

01:35:45,208 --> 01:35:48,916

energy for UAPs is much culturally

2908

01:35:48,916 --> 01:35:50,250

stronger than for these

2909

01:35:50,250 --> 01:35:51,666

other things ever was.

2910

01:35:51,666 --> 01:35:53,541

And that makes elites all the more eager

2911

01:35:53,541 --> 01:35:55,208

to distance themselves from it in order

2912

01:35:55,208 --> 01:35:55,916

to show their elites.

2913

01:35:55,916 --> 01:35:58,000

So there's just a lot more energy among

2914

01:35:58,000 --> 01:36:00,541

elites to show that they are not the sort

2915

01:36:00,541 --> 01:36:03,041

of people who believe in UAPs than there

2916

01:36:03,041 --> 01:36:06,166

ever was about ball lightning or the high

2917

01:36:06,166 --> 01:36:07,916

level of pink spires or asteroids.

2918

01:36:08,750 --> 01:36:12,708

So it's a tougher case.

2919

01:36:12,708 --> 01:36:16,083

But, you know, it still could happen, I

2920

01:36:16,083 --> 01:36:19,208

guess, but it would take a substantial

2921

01:36:19,208 --> 01:36:22,958

coordination of powerful and academic and

2922

01:36:22,958 --> 01:36:25,916

intellectual elites to make that switch.

2923

01:36:25,916 --> 01:36:27,791

I mean, so this is related to like, and

2924

01:36:27,791 --> 01:36:28,958

what's the best strategy to do that?

2925

01:36:28,958 --> 01:36:30,958

Like, so some people in the UAP community

2926

01:36:30,958 --> 01:36:33,541

say our best strategy is we're just going

2927

01:36:33,541 --> 01:36:34,666

to push on some things there.

2928

01:36:34,666 --> 01:36:35,416

We're not going to talk

2929

01:36:35,416 --> 01:36:36,916

about what it is, right?

2930

01:36:37,208 --> 01:36:38,500

And that's their story about how they're

2931

01:36:38,500 --> 01:36:39,125

going to get the world

2932

01:36:39,125 --> 01:36:40,791

to take it seriously.

2933

01:36:40,791 --> 01:36:42,416

I'm not sure that's going to work.

2934

01:36:42,416 --> 01:36:43,583

I have doubts about that.

2935

01:36:43,583 --> 01:36:45,458

I see the spirit of it.

2936

01:36:45,458 --> 01:36:46,750

They're saying if you just make this

2937

01:36:46,750 --> 01:36:48,416

claim and not more claims, then you can't

2938

01:36:48,416 --> 01:36:50,083

object more because in some sense people

2939

01:36:50,083 --> 01:36:51,666

have adrected more to the claim, yeah,

2940

01:36:51,666 --> 01:36:53,875

there's aliens there, right?

2941

01:36:53,875 --> 01:36:55,208

But in some sense, when I reflect on it,

2942

01:36:55,208 --> 01:36:57,083

I go, well, yeah, that's because it is a

2943

01:36:57,083 --> 01:36:59,208

plausible jump from there.

2944

01:36:59,208 --> 01:37:01,250

Once you say the stuff is real, the

2945

01:37:01,250 --> 01:37:02,625

aliens isn't that far away.

2946

01:37:03,083 --> 01:37:04,583

In some sense, I think people are being

2947

01:37:04,583 --> 01:37:06,250

honest there to say, well, if you believe

2948

01:37:06,250 --> 01:37:08,041

this stuff is real, then you do kind of

2949

01:37:08,041 --> 01:37:09,041

have to be taking the

2950

01:37:09,041 --> 01:37:10,291

aliens thing seriously.

2951

01:37:10,291 --> 01:37:12,916

And you're being a little disingenuous by

2952

01:37:12,916 --> 01:37:14,041

pretending there's no connection.

2953

01:37:14,041 --> 01:37:15,416

But that's the catch, because some

2954

01:37:15,416 --> 01:37:16,833

people, you just can't engage them on

2955

01:37:16,833 --> 01:37:18,500

that topic when that is in

2956

01:37:18,500 --> 01:37:20,458

the realm of possibility.

2957

01:37:20,458 --> 01:37:22,666

Unless you go straight to that from the

2958

01:37:22,666 --> 01:37:24,166

cosmology point of view, which is why I'm

2959

01:37:24,166 --> 01:37:26,333

trying to do is say, you know, basically

2960

01:37:26,333 --> 01:37:28,916

they're saying this is so crazy unlikely.

2961

01:37:29,625 --> 01:37:31,583

And if we say why, because cosmologists

2962

01:37:31,583 --> 01:37:33,208

have told us so, and I

2963

01:37:33,208 --> 01:37:35,416

say, no, they haven't.

2964

01:37:35,416 --> 01:37:36,625

That's where I'm trying to go and say,

2965

01:37:36,625 --> 01:37:40,291

look, from what we know about cosmology,

2966

01:37:40,291 --> 01:37:42,000

this is not crazy unlikely.

2967

01:37:42,000 --> 01:37:42,833

It might be unlikely, but

2968

01:37:42,833 --> 01:37:44,500

it's not crazy unlikely.

2969

01:37:44,500 --> 01:37:46,625

That's the key difference.

2970

01:37:46,625 --> 01:37:48,000

Can we get people to

2971

01:37:48,000 --> 01:37:50,791

accept it's not crazy unlikely?

2972

01:37:52,166 --> 01:37:55,250

Do you believe we're maybe this doesn't

2973

01:37:55,250 --> 01:37:56,916

fit into your model anymore, but are we

2974

01:37:56,916 --> 01:37:58,708

on a particular side of the great filter

2975

01:37:58,708 --> 01:38:00,250

based off of this new

2976

01:38:00,250 --> 01:38:02,541

model, in your opinion?

2977

01:38:02,541 --> 01:38:04,708

So I wrote about the great filter in

2978

01:38:04,708 --> 01:38:08,125

1998, and it was about a way of reframing

2979

01:38:08,125 --> 01:38:10,125

the Fermi's question, where is everybody

2980

01:38:10,125 --> 01:38:12,583

in terms of a process that leads from

2981

01:38:12,583 --> 01:38:14,250

simple dead matter all the way to

2982

01:38:14,250 --> 01:38:14,875

something that you could

2983

01:38:14,875 --> 01:38:16,416

see in the visible universe.

2984

01:38:17,500 --> 01:38:19,958

And the great filter is whatever it is

2985

01:38:19,958 --> 01:38:21,958

that makes it hard to go all the way from

2986

01:38:21,958 --> 01:38:24,541

one end to the other of that process.

2987

01:38:24,541 --> 01:38:26,375

We are now not all the way

2988

01:38:26,375 --> 01:38:27,541

to the end of that process.

2989

01:38:27,541 --> 01:38:29,208

So we have passed part of the great

2990

01:38:29,208 --> 01:38:30,416

filter, but not all of it.

2991

01:38:30,416 --> 01:38:32,833

And so when I first wrote about that 25

2992

01:38:32,833 --> 01:38:36,583

years ago, the topic was just how far are

2993

01:38:36,583 --> 01:38:37,250

we down this filter?

2994

01:38:37,250 --> 01:38:38,875

And I couldn't really quantify the size

2995

01:38:38,875 --> 01:38:40,500

of this other than to say the total

2996

01:38:40,500 --> 01:38:42,000

filter is really large, but

2997

01:38:42,000 --> 01:38:42,916

we don't know how far down.

2998

01:38:43,416 --> 01:38:45,541

So my recent grabby aliens work can be

2999

01:38:45,541 --> 01:38:47,625

seen as an attempt to basically make a

3000

01:38:47,625 --> 01:38:50,625

numerical model of the great filter.

3001

01:38:50,625 --> 01:38:52,500

And in that numerical model, I can say

3002

01:38:52,500 --> 01:38:55,000

the great filter is so big as to mean

3003

01:38:55,000 --> 01:38:57,416

it's only passed once every million

3004

01:38:57,416 --> 01:39:00,958

galaxies, and then by about now in the

3005

01:39:00,958 --> 01:39:03,166

history of the universe, and then that

3006

01:39:03,166 --> 01:39:04,416

fills up the universe quickly.

3007

01:39:04,416 --> 01:39:06,458

So it's a way of making the great filter

3008

01:39:06,458 --> 01:39:08,958

precise, but it still leaves the question

3009

01:39:08,958 --> 01:39:10,666

open of how much farther do we have to

3010

01:39:10,666 --> 01:39:11,916

go, but now it's more precise.

3011

01:39:12,166 --> 01:39:14,750

So now the way to say is there's a

3012

01:39:14,750 --> 01:39:16,333

process that leads to a quiet alien,

3013

01:39:16,333 --> 01:39:17,958

which is what we are, and then there's

3014

01:39:17,958 --> 01:39:19,541

the last step of the process that leads

3015

01:39:19,541 --> 01:39:21,166

to a loud alien, which goes out and

3016

01:39:21,166 --> 01:39:21,958

becomes visible, which

3017

01:39:21,958 --> 01:39:23,041

is the stuff we don't see.

3018

01:39:23,041 --> 01:39:24,916

So the question is how much more is left

3019

01:39:24,916 --> 01:39:26,916

is the question of the ratio between

3020

01:39:26,916 --> 01:39:29,625

quiet and loud aliens in the universe.

3021

01:39:29,625 --> 01:39:31,250

So if you do a polls or something, people

3022

01:39:31,250 --> 01:39:32,916

think the ratio might be two to one, five

3023

01:39:32,916 --> 01:39:34,958

to one, maybe even ten to one, not that

3024

01:39:34,958 --> 01:39:37,333

much bigger, but often

3025

01:39:37,333 --> 01:39:38,166

substantially bigger than one.

3026

01:39:38,166 --> 01:39:39,916

That is, they think there are more quiets

3027

01:39:39,916 --> 01:39:40,708

than louds out there.

3028

01:39:41,125 --> 01:39:42,291

How are we coming to that?

3029

01:39:42,291 --> 01:39:43,083

I'm just a poll.

3030

01:39:43,083 --> 01:39:43,833

I just asked people.

3031

01:39:43,833 --> 01:39:44,666

Yeah, I know, but I'm just saying, like,

3032

01:39:44,666 --> 01:39:45,500

how are they coming to it?

3033

01:39:45,500 --> 01:39:46,250

So is there any really

3034

01:39:46,250 --> 01:39:47,750

way to make that assessment?

3035

01:39:47,750 --> 01:39:49,041

You could just think about what would be

3036

01:39:49,041 --> 01:39:50,708

the processes by which a

3037

01:39:50,708 --> 01:39:52,083

quiet might become loud or not.

3038

01:39:52,083 --> 01:39:53,083

So you could say, what's the chance that

3039

01:39:53,083 --> 01:39:54,500

we killed themselves, for example, before

3040

01:39:54,500 --> 01:39:56,041

they got to the point of being loud?

3041

01:39:56,041 --> 01:39:57,375

What's the chance they would choose not

3042

01:39:57,375 --> 01:40:00,875

to become loud by doing the sort of thing

3043

01:40:00,875 --> 01:40:03,208

we're postulating the UFO aliens are

3044

01:40:03,208 --> 01:40:04,625

doing of not allowing

3045

01:40:04,625 --> 01:40:05,125

themselves to expand?

3046

01:40:05,375 --> 01:40:07,125

So but otherwise we don't have much

3047

01:40:07,125 --> 01:40:10,541

evidence, but there's this ratio affects

3048

01:40:10,541 --> 01:40:13,166

where is the nearest quiet alien, which

3049

01:40:13,166 --> 01:40:15,250

affects what are the chances that SETI,

3050

01:40:15,250 --> 01:40:16,583

the search for extraterrestrial

3051

01:40:16,583 --> 01:40:18,500

intelligence, could see anything.

3052

01:40:18,500 --> 01:40:21,541

So remember, if the loud ones occur once

3053

01:40:21,541 --> 01:40:24,375

per million galaxies, and then maybe if

3054

01:40:24,375 --> 01:40:26,000

there was a thousand to one ratio, if

3055

01:40:26,000 --> 01:40:27,708

there was a thousand times as many quiet

3056

01:40:27,708 --> 01:40:30,125

to loud, that would mean the nearest

3057

01:40:30,125 --> 01:40:31,541

quiet one was still

3058

01:40:31,541 --> 01:40:32,916

once per thousand galaxies.

3059

01:40:33,083 --> 01:40:35,291

It means the chance of seeing one is

3060

01:40:35,291 --> 01:40:37,000

really low in our own galaxy, and you

3061

01:40:37,000 --> 01:40:38,666

have to look a far away.

3062

01:40:38,666 --> 01:40:39,875

And that's only the chance of

3063

01:40:39,875 --> 01:40:42,541

seeing one and or their ruins.

3064

01:40:42,541 --> 01:40:45,083

So quiet ones you see would last for some

3065

01:40:45,083 --> 01:40:47,125

duration and then end.

3066

01:40:47,125 --> 01:40:49,375

In order to see a quiet civilization out

3067

01:40:49,375 --> 01:40:51,541

there, you'd have a much better chance of

3068

01:40:51,541 --> 01:40:53,708

seeing its ruins than seeing it, because

3069

01:40:53,708 --> 01:40:55,708

it would have to be active at

3070

01:40:55,708 --> 01:40:56,916

the moment you're seeing it.

3071

01:40:57,875 --> 01:41:00,166

And so we do some calculations in our

3072

01:41:00,166 --> 01:41:03,500

paper to say, unless this ratio is really

3073

01:41:03,500 --> 01:41:05,750

huge, there's the chances for SETI are

3074

01:41:05,750 --> 01:41:07,291

pretty low, at least given current

3075

01:41:07,291 --> 01:41:08,458

technology, you're just not going to see

3076

01:41:08,458 --> 01:41:11,125

anything because they're not that common.

3077

01:41:11,125 --> 01:41:14,583

But that ratio is the same ratio as our

3078

01:41:14,583 --> 01:41:17,000

chances of becoming loud from now, you

3079

01:41:17,000 --> 01:41:17,958

know, assuming we're the

3080

01:41:17,958 --> 01:41:18,916

same as everybody else.

3081

01:41:19,500 --> 01:41:21,541

And so that could still be, say, a

3082

01:41:21,541 --> 01:41:23,583

thousand to one, or at least ten to one,

3083

01:41:23,583 --> 01:41:25,958

which means our chances

3084

01:41:25,958 --> 01:41:28,958

most likely we won't make it.

3085

01:41:28,958 --> 01:41:30,041

But we really don't have

3086

01:41:30,041 --> 01:41:31,500

any sort of basis here.

3087

01:41:31,500 --> 01:41:33,708

It could be it's only, you know, two to

3088

01:41:33,708 --> 01:41:35,000

one, i.e., you know, half of

3089

01:41:35,000 --> 01:41:37,000

them do and half of them don't.

3090

01:41:37,000 --> 01:41:38,500

So that's the part that we just don't

3091

01:41:38,500 --> 01:41:39,625

have any other data to

3092

01:41:39,625 --> 01:41:41,291

pin it down in our analysis.

3093

01:41:41,291 --> 01:41:43,291

We just have to say, here's the

3094

01:41:43,291 --> 01:41:43,916

consequences of different ratios.

3095

01:41:44,541 --> 01:41:47,500

Is there a thought that perhaps the

3096

01:41:47,500 --> 01:41:49,750

expansionary, the grabbingness is

3097

01:41:49,750 --> 01:41:52,083

inherent to the creature instead of

3098

01:41:52,083 --> 01:41:53,416

something that has to change over time?

3099

01:41:53,416 --> 01:41:54,791

It's a natural state

3100

01:41:54,791 --> 01:41:57,500

of that intelligence?

3101

01:41:57,500 --> 01:41:59,333

I mean, presumably, if we had a data set

3102

01:41:59,333 --> 01:42:01,583

about all the quiet aliens and all the

3103

01:42:01,583 --> 01:42:03,500

ones that became loud, we would find

3104

01:42:03,500 --> 01:42:04,541

correlations that predicted

3105

01:42:04,541 --> 01:42:06,125

which quiet ones become loud.

3106

01:42:06,125 --> 01:42:07,750

But we don't know what those are now.

3107

01:42:07,750 --> 01:42:09,250

So it's pretty hard to guess.

3108

01:42:09,250 --> 01:42:10,291

Just didn't know if that was something

3109

01:42:10,291 --> 01:42:10,916

you had thought about at all.

3110

01:42:11,250 --> 01:42:12,291

I mean, a lot of people, I'm sure, would

3111

01:42:12,291 --> 01:42:14,416

have opinions on it.

3112

01:42:14,416 --> 01:42:15,625

We could talk about opinions a little bit

3113

01:42:15,625 --> 01:42:16,416

if you want to get

3114

01:42:16,416 --> 01:42:18,208

outside the model, but...

3115

01:42:18,208 --> 01:42:20,375

Well, so there's long been this history

3116

01:42:20,375 --> 01:42:23,375

in, say, cosmology of people talking

3117

01:42:23,375 --> 01:42:26,125

about how, you know, alien civilizations

3118

01:42:26,125 --> 01:42:28,166

probably wouldn't be expanding because

3119

01:42:28,166 --> 01:42:29,000

that would be

3120

01:42:29,000 --> 01:42:30,125

aggressive and not peaceful.

3121

01:42:30,125 --> 01:42:32,500

So people have said civilizations reach a

3122

01:42:32,500 --> 01:42:34,000

point in their lives where if they don't

3123

01:42:34,000 --> 01:42:35,583

learn to be peaceful, they destroy

3124

01:42:35,583 --> 01:42:36,541

themselves and

3125

01:42:36,541 --> 01:42:37,041

disappear from the picture.

3126

01:42:37,333 --> 01:42:39,000

And so the only things you'll ever see

3127

01:42:39,000 --> 01:42:40,541

later on would be civilizations that

3128

01:42:40,541 --> 01:42:42,291

learn to be peaceful and therefore are

3129

01:42:42,291 --> 01:42:45,375

not grabby and do not have war and do not

3130

01:42:45,375 --> 01:42:46,500

have conflict because

3131

01:42:46,500 --> 01:42:48,041

they're all peaceful.

3132

01:42:48,041 --> 01:42:48,750

That seems to be

3133

01:42:48,750 --> 01:42:50,166

pretty implausible to me.

3134

01:42:50,166 --> 01:42:50,958

It's a nice thought, and

3135

01:42:50,958 --> 01:42:52,125

it's one I've had, but...

3136

01:42:52,125 --> 01:42:54,916

Right. So, but that would be a popular

3137

01:42:54,916 --> 01:42:56,041

theory for a long time, right?

3138

01:42:56,041 --> 01:42:57,833

Which is that it's the peaceful

3139

01:42:57,833 --> 01:43:01,666

civilizations who manage to survive.

3140

01:43:01,666 --> 01:43:02,916

The anthropomorphic, I think, but...

3141

01:43:03,916 --> 01:43:06,541

Right. It's sort of celebrating the thing

3142

01:43:06,541 --> 01:43:08,208

about our current civilizations that

3143

01:43:08,208 --> 01:43:09,625

people are most proud of, perhaps, but I

3144

01:43:09,625 --> 01:43:10,666

don't think it's that

3145

01:43:10,666 --> 01:43:12,583

predictive of the future.

3146

01:43:12,583 --> 01:43:14,500

When I saw your interviews, previews with

3147

01:43:14,500 --> 01:43:16,958

other people and other pilots' things, in

3148

01:43:16,958 --> 01:43:18,791

my mind, the thing that comes to mind is

3149
01:43:18,791 --> 01:43:20,875
these skeptics who say, "You guys were

3150
01:43:20,875 --> 01:43:22,541
just seeing birds in balloons," and they

3151
01:43:22,541 --> 01:43:25,000
draw, like, line diagrams or whatever,

3152
01:43:25,000 --> 01:43:26,541
and they tell you, "This is the velocity

3153
01:43:26,541 --> 01:43:27,791
and the distance, and therefore this is

3154
01:43:27,791 --> 01:43:28,291
all consistent with this."

3155
01:43:28,666 --> 01:43:32,625
And I go, "Wouldn't pilots have seen

3156
01:43:32,625 --> 01:43:35,708
birds in balloons before? Wouldn't that

3157
01:43:35,708 --> 01:43:37,208
be part of their environment? Wouldn't

3158
01:43:37,208 --> 01:43:38,791
they know kind of how to

3159
01:43:38,791 --> 01:43:40,000
notice birds in balloons?"

3160
01:43:40,000 --> 01:43:42,083
But I don't hear you guys saying that, so

3161
01:43:42,083 --> 01:43:43,583

I figure, I mean, it seems to me like

3162

01:43:43,583 --> 01:43:44,375

you'd be kind of

3163

01:43:44,375 --> 01:43:46,083

insulted to have to say this.

3164

01:43:46,083 --> 01:43:48,250

"I'm a fighter pilot with a \$50 million

3165

01:43:48,250 --> 01:43:49,625

machine, and yeah, I've seen birds in

3166

01:43:49,625 --> 01:43:50,583

balloons for God's sake, but

3167

01:43:50,583 --> 01:43:51,750

I know what they look like."

3168

01:43:51,750 --> 01:43:53,250

But I think you should

3169

01:43:53,250 --> 01:43:53,958

say that more directly.

3170

01:43:53,958 --> 01:43:55,166

I feel like I said it at some point. I

3171

01:43:55,166 --> 01:43:55,916

don't know if I've made it in, but...

3172

01:43:56,666 --> 01:44:01,375

So let's talk about that. It's fair. So

3173

01:44:01,375 --> 01:44:02,166

birds, let's talk about

3174

01:44:02,166 --> 01:44:03,333

birds. They're a real issue.

3175

01:44:03,333 --> 01:44:05,291

Did you watch the new Top Gun movie?

3176

01:44:05,291 --> 01:44:06,708

I did, yeah.

3177

01:44:06,708 --> 01:44:08,458

So I thought they did a really good job

3178

01:44:08,458 --> 01:44:10,416

of showing how an emergency happens in

3179

01:44:10,416 --> 01:44:13,166

the jet, so they just got done a very

3180

01:44:13,166 --> 01:44:15,166

difficult and stressful experience, and

3181

01:44:15,166 --> 01:44:16,333

all of a sudden, boom, they got hit in

3182

01:44:16,333 --> 01:44:18,708

the face with a bunch of birds.

3183

01:44:18,708 --> 01:44:20,416

That's how those things tend to happen.

3184

01:44:20,416 --> 01:44:21,083

I believe.

3185

01:44:21,083 --> 01:44:21,791

I thought that was a

3186

01:44:21,791 --> 01:44:22,750

really great example of it.

3187

01:44:23,541 --> 01:44:26,041

So birds are a real problem. They can

3188

01:44:26,041 --> 01:44:27,250

come through the cockpit

3189

01:44:27,250 --> 01:44:28,750

glass and take the pilot out.

3190

01:44:28,750 --> 01:44:31,083

I've seen stories of pilots getting

3191

01:44:31,083 --> 01:44:32,041

knocked out from birds.

3192

01:44:32,041 --> 01:44:33,458

Makes sense.

3193

01:44:33,458 --> 01:44:34,458

Obviously losing engine

3194

01:44:34,458 --> 01:44:36,791

wings, all that stuff.

3195

01:44:36,791 --> 01:44:38,500

So I was trained by the Navy as an

3196

01:44:38,500 --> 01:44:40,458

aviation safety officer, which means I

3197

01:44:40,458 --> 01:44:43,541

spent six weeks in Pensacola, Florida,

3198

01:44:43,541 --> 01:44:45,083

basically becoming the subject matter

3199

01:44:45,083 --> 01:44:48,041

expert on preventing accidents, training

3200

01:44:48,041 --> 01:44:49,916

my squadron to the proper standards.

3201

01:44:50,333 --> 01:44:52,333

Also, if there is a crash, do actually be

3202

01:44:52,333 --> 01:44:54,583

the one responsible for going out there,

3203

01:44:54,583 --> 01:44:56,416

picking the pieces up, and figuring out

3204

01:44:56,416 --> 01:44:57,583

what happened. There's no

3205

01:44:57,583 --> 01:44:58,958

special team that comes in.

3206

01:44:58,958 --> 01:45:01,250

But the question would be, when you

3207

01:45:01,250 --> 01:45:03,500

haven't crashed into the birds yet, do

3208

01:45:03,500 --> 01:45:06,208

you see sometimes them on radar, on your

3209

01:45:06,208 --> 01:45:07,083

infrared, or other

3210

01:45:07,083 --> 01:45:08,916

device, or even by eye?

3211

01:45:08,916 --> 01:45:11,041

Would you then know what that looked

3212

01:45:11,041 --> 01:45:11,833

like? So you know how

3213

01:45:11,833 --> 01:45:12,583

to tell the difference.

3214

01:45:13,208 --> 01:45:15,083

So the difference is that these are

3215

01:45:15,083 --> 01:45:16,583

common occurrences, and a lot of airports

3216

01:45:16,583 --> 01:45:18,916

actually have bird radars. And so every

3217

01:45:18,916 --> 01:45:20,875

day before we go flying, we'll brief the

3218

01:45:20,875 --> 01:45:24,041

bash condition, the bird activity.

3219

01:45:24,041 --> 01:45:26,041

And if it's too high,

3220

01:45:26,041 --> 01:45:27,958

we'll cancel the event.

3221

01:45:27,958 --> 01:45:30,208

We don't necessarily, I don't want to get

3222

01:45:30,208 --> 01:45:32,416

too much, well, I don't want to get too

3223

01:45:32,416 --> 01:45:34,750

much into this, but they're not something

3224

01:45:34,750 --> 01:45:38,541

that's presented to our radar.

3225

01:45:38,541 --> 01:45:39,458

Just leave it at that.

3226

01:45:40,000 --> 01:45:40,916

That would mean these radar

3227

01:45:40,916 --> 01:45:43,500

sightings wouldn't be birds.

3228

01:45:43,500 --> 01:45:45,125

If there's a radar sighting and the birds

3229

01:45:45,125 --> 01:45:46,916

don't show up on the radar, then these

3230

01:45:46,916 --> 01:45:48,333

radar sightings would not be birds? Is

3231

01:45:48,333 --> 01:45:49,333

that a safe assumption?

3232

01:45:49,333 --> 01:45:50,750

It's a safe assumption. I can't say with

3233

01:45:50,750 --> 01:45:52,750

100% a certain date that nothing on a

3234

01:45:52,750 --> 01:45:54,333

radar has ever seen a bird. I'm pretty

3235

01:45:54,333 --> 01:45:55,375

sure you could lock

3236

01:45:55,375 --> 01:45:57,125

one up if you wanted to.

3237

01:45:57,125 --> 01:45:58,666

But you're not going to be presented that

3238

01:45:58,666 --> 01:46:01,291

as like a normal target. It's just too

3239

01:46:01,291 --> 01:46:02,333

far outside of the spectrum.

3240

01:46:02,333 --> 01:46:03,750

And mylar balloons or

3241

01:46:03,750 --> 01:46:04,750

other sorts of balloons.

3242

01:46:05,291 --> 01:46:07,166

Then we talk about some birds are common,

3243

01:46:07,166 --> 01:46:10,916

but very easily identifiable. And then

3244

01:46:10,916 --> 01:46:13,541

balloons, they're not overly common, but

3245

01:46:13,541 --> 01:46:14,250

they're certainly something we

3246

01:46:14,250 --> 01:46:15,250

deal with on a regular basis.

3247

01:46:15,250 --> 01:46:16,708

So there are some that are tethered

3248

01:46:16,708 --> 01:46:18,375

across the U.S. and

3249

01:46:18,375 --> 01:46:20,833

we see those regularly.

3250

01:46:20,833 --> 01:46:22,541

Like you'd expect a balloon, you know,

3251

01:46:22,541 --> 01:46:24,583

kind of bullet shaped with some

3252

01:46:24,583 --> 01:46:25,500

stabilators on the back of it.

3253

01:46:25,500 --> 01:46:27,416

And so you're used to seeing balloons on

3254

01:46:27,416 --> 01:46:29,000

your radar, in your

3255

01:46:29,000 --> 01:46:29,916

infrared, in your other sightings.

3256

01:46:30,458 --> 01:46:32,541

You know roughly what that looks like,

3257

01:46:32,541 --> 01:46:34,416

right? You see them often. So whatever

3258

01:46:34,416 --> 01:46:36,583

other thing you say, and you say this

3259

01:46:36,583 --> 01:46:38,208

isn't a balloon, you're doing it on the

3260

01:46:38,208 --> 01:46:40,166

basis of some background of having seen

3261

01:46:40,166 --> 01:46:41,000

balloons and saying this

3262

01:46:41,000 --> 01:46:41,958

doesn't look like a balloon.

3263

01:46:41,958 --> 01:46:42,541

Very much so.

3264

01:46:42,541 --> 01:46:44,666

And so that would suggest that the theory

3265

01:46:44,666 --> 01:46:47,125

that this is a balloon has some strong

3266

01:46:47,125 --> 01:46:47,916

obstacles in

3267

01:46:47,916 --> 01:46:48,791

accounting for this evidence.

3268

01:46:48,791 --> 01:46:50,875

It has to explain why it is that even

3269

01:46:50,875 --> 01:46:52,083

though you're experienced with balloons,

3270

01:46:52,083 --> 01:46:53,000

somehow to you this

3271

01:46:53,000 --> 01:46:54,208

didn't look like a balloon.

3272

01:46:54,208 --> 01:46:54,541

Exactly.

3273

01:46:54,541 --> 01:46:56,250

And do you think they have adequately

3274

01:46:56,250 --> 01:46:56,916

addressed that issue?

3275

01:46:57,458 --> 01:47:00,041

Yeah, so I guess exactly that's exactly

3276

01:47:00,041 --> 01:47:01,666

right. In our experiences we deal with

3277

01:47:01,666 --> 01:47:03,041

balloons, we deal with birds, some of

3278

01:47:03,041 --> 01:47:04,958

those almost on a daily basis.

3279

01:47:04,958 --> 01:47:07,291

So we are very familiar with them and we

3280

01:47:07,291 --> 01:47:09,458

would not see those as exciting,

3281

01:47:09,458 --> 01:47:11,333

interesting objects to get super hyped

3282

01:47:11,333 --> 01:47:12,166

and bring the admiral

3283

01:47:12,166 --> 01:47:14,125

down to show them it.

3284

01:47:14,125 --> 01:47:16,083

So what specifically is it about these

3285

01:47:16,083 --> 01:47:18,291

sightings that makes you say that's not a

3286

01:47:18,291 --> 01:47:19,666

balloon and that's not a bird?

3287

01:47:19,666 --> 01:47:21,916

Yeah. So the behaviors we'd expect to see

3288

01:47:21,916 --> 01:47:23,166

from a balloon are one of

3289

01:47:23,166 --> 01:47:23,916

three things essentially.

3290

01:47:24,125 --> 01:47:26,416

We would expect it to proceed with the

3291

01:47:26,416 --> 01:47:29,875

wind in some fashion. We'd expect it to

3292

01:47:29,875 --> 01:47:32,666

remain stationary over a loose area.

3293

01:47:32,666 --> 01:47:34,625

Right? So kind of it was tethered and

3294

01:47:34,625 --> 01:47:38,000

drifting around with some radius.

3295

01:47:38,000 --> 01:47:39,916

Or we might even expect if it was perhaps

3296

01:47:39,916 --> 01:47:42,083

an adversarial platform to have some

3297

01:47:42,083 --> 01:47:44,416

limited capabilities in maneuvering for

3298

01:47:44,416 --> 01:47:45,208

short amounts of time.

3299

01:47:45,208 --> 01:47:46,875

For low velocity.

3300

01:47:46,875 --> 01:47:47,916

Yes. At low velocity.

3301

01:47:48,500 --> 01:47:52,541

So that's all good and we see parts of

3302

01:47:52,541 --> 01:47:54,375

that when we're off the eastern seaboard.

3303

01:47:54,375 --> 01:47:55,625

But when you zoom out and you look at all

3304

01:47:55,625 --> 01:47:57,208

the behaviors, you don't see that.

3305

01:47:57,208 --> 01:48:00,083

You see these objects moving quickly,

3306

01:48:00,083 --> 01:48:02,375

250, 350 knots. You see

3307

01:48:02,375 --> 01:48:04,500

them at high and low altitudes.

3308

01:48:04,500 --> 01:48:07,416

You see them performing almost

3309

01:48:07,416 --> 01:48:07,916

balloon-like behaviors.

3310

01:48:08,833 --> 01:48:12,250

And what I mean by that is not overly

3311

01:48:12,250 --> 01:48:13,666

linear flight path, but kind of

3312

01:48:13,666 --> 01:48:16,333

meandering a bit, but against the wind

3313

01:48:16,333 --> 01:48:18,500

for long periods of time.

3314

01:48:18,500 --> 01:48:21,083

Or being perfectly stationary

3315

01:48:21,083 --> 01:48:22,250

in those high winds as well.

3316

01:48:22,250 --> 01:48:24,250

Not just kind of bawling around tightly,

3317

01:48:24,250 --> 01:48:27,375

but stationary fixed at 20,000

3318

01:48:27,375 --> 01:48:30,125

feet, say, in 120 knot winds.

3319

01:48:30,125 --> 01:48:32,208

And although those might be radar

3320

01:48:32,208 --> 01:48:34,000

artifacts, sometimes you see them also

3321

01:48:34,000 --> 01:48:35,958

through other means, which convinces you

3322

01:48:35,958 --> 01:48:36,916

they're not just radar artifacts.

3323

01:48:37,500 --> 01:48:39,083

We were initially seeing them just on a

3324

01:48:39,083 --> 01:48:41,916

radar and we thought they were radar

3325

01:48:41,916 --> 01:48:43,583

artifacts, as you say.

3326

01:48:43,583 --> 01:48:45,125

But then we were able to correlate that

3327

01:48:45,125 --> 01:48:46,875

with our other sensor system, our AT

3328

01:48:46,875 --> 01:48:49,833

FLIR, which is an electro-optical IR,

3329

01:48:49,833 --> 01:48:52,666

infrared energy detection device.

3330

01:48:52,666 --> 01:48:54,666

And so, OK, hey, the radar is dropping

3331

01:48:54,666 --> 01:48:57,000

our camera sensor off essentially at this

3332

01:48:57,000 --> 01:48:58,666

piece of sky and now there's something

3333

01:48:58,666 --> 01:48:59,500

there on our camera.

3334

01:48:59,500 --> 01:49:01,708

So the assumption is at this point that

3335

01:49:01,708 --> 01:49:02,916

they're physical objects.

3336

01:49:04,041 --> 01:49:05,708

And just to be clear, the things that

3337

01:49:05,708 --> 01:49:08,541

were moving at 200 and 300 knots are also

3338

01:49:08,541 --> 01:49:10,833

the things, the same thing that you saw.

3339

01:49:10,833 --> 01:49:12,875

It's not like a separate thing, right?

3340

01:49:12,875 --> 01:49:14,166

That would be the key point.

3341

01:49:14,166 --> 01:49:15,291

Like, this couldn't be a balloon because

3342

01:49:15,291 --> 01:49:17,000

that same thing on the radar was moving

3343

01:49:17,000 --> 01:49:18,708

at 300 knots a few minutes ago.

3344

01:49:18,708 --> 01:49:19,708

Correct.

3345

01:49:19,708 --> 01:49:21,333

So, yes, they would sometimes be

3346

01:49:21,333 --> 01:49:22,958

stationary, perfectly stationary, and

3347

01:49:22,958 --> 01:49:26,166

then begin moving at those high speeds.

3348

01:49:26,166 --> 01:49:27,791

And we'd do these for

3349

01:49:27,791 --> 01:49:28,791

long periods of time.

3350

01:49:28,791 --> 01:49:30,125

So we'd go out there first thing in the

3351

01:49:30,125 --> 01:49:30,625

morning, these

3352

01:49:30,625 --> 01:49:31,125

objects would be out there.

3353

01:49:31,500 --> 01:49:34,291

And as you said earlier, I can conceive

3354

01:49:34,291 --> 01:49:37,000

of trickery, you know, I can conceive of

3355

01:49:37,000 --> 01:49:38,958

perhaps, you know, submarines or some

3356

01:49:38,958 --> 01:49:40,375

devices that were releasing objects over

3357

01:49:40,375 --> 01:49:42,458

a period of time that had, you know, high

3358

01:49:42,458 --> 01:49:44,500

energy density, but also, you know, then

3359

01:49:44,500 --> 01:49:45,708

just went to the ocean or something.

3360

01:49:45,708 --> 01:49:48,041

Right. But that would be, you know, we've

3361

01:49:48,041 --> 01:49:49,791

been seeing it for so long and the

3362

01:49:49,791 --> 01:49:51,291

behaviors that were exhibited just pushes

3363

01:49:51,291 --> 01:49:52,916

that, you know, right.

3364

01:49:52,916 --> 01:49:54,666

Could you make a rough estimate of the

3365

01:49:54,666 --> 01:49:57,125

budget that we required to fool you guys

3366

01:49:57,125 --> 01:49:58,375

over this period of time

3367

01:49:58,375 --> 01:49:58,916

with this scope of activity?

3368

01:49:59,708 --> 01:50:01,000

Like, how big a project

3369

01:50:01,000 --> 01:50:02,375

would that have to be?

3370

01:50:02,375 --> 01:50:03,666

Oh, it would be incredible.

3371

01:50:03,666 --> 01:50:06,375

It would be equivalent, I think, to

3372

01:50:06,375 --> 01:50:08,041

essentially the operations we did in the

3373

01:50:08,041 --> 01:50:10,041

Cold War, where there are stories of, you

3374

01:50:10,041 --> 01:50:11,750

know, arming nuclear weapons and making

3375

01:50:11,750 --> 01:50:13,375

sure that they, you know, they're on a

3376

01:50:13,375 --> 01:50:14,125

timer for a period of time.

3377

01:50:14,125 --> 01:50:15,291

It would be an ongoing, you know,

3378

01:50:15,291 --> 01:50:17,083

multi-billion dollar operation for

3379

01:50:17,083 --> 01:50:17,916

decades at this point.

3380

01:50:19,083 --> 01:50:20,958

You would need, you know, the equivalent

3381

01:50:20,958 --> 01:50:22,500

of probably half of a carrier strike

3382

01:50:22,500 --> 01:50:24,750

group, but underwater or somehow unable

3383

01:50:24,750 --> 01:50:28,000

to be seen, you'd need thousands, perhaps

3384

01:50:28,000 --> 01:50:29,875

tens of thousands of small form factor

3385

01:50:29,875 --> 01:50:31,958

UAVs that would be

3386

01:50:31,958 --> 01:50:34,541

launched and then disposed of.

3387

01:50:34,541 --> 01:50:36,250

And somehow we didn't see that

3388

01:50:36,250 --> 01:50:37,125

intermediary action.

3389

01:50:37,125 --> 01:50:40,041

So like a carrier group is some, what,

3390

01:50:40,041 --> 01:50:42,791

like 5% of the Navy budget or something?

3391

01:50:42,791 --> 01:50:43,791

I don't know that.

3392

01:50:43,791 --> 01:50:44,208

Well, we could look

3393

01:50:44,208 --> 01:50:44,958

it up, whatever it is.

3394

01:50:44,958 --> 01:50:45,916

Like we're talking that level of budget.

3395

01:50:46,583 --> 01:50:47,416

Yeah, that's what you

3396

01:50:47,416 --> 01:50:49,166

would send to a war zone.

3397

01:50:49,166 --> 01:50:50,750

I mean, that's what we go to war.

3398

01:50:50,750 --> 01:50:52,208

So you would have to be spending that

3399

01:50:52,208 --> 01:50:53,458

much to fool you guys.

3400

01:50:53,458 --> 01:50:54,500

You would need, you

3401

01:50:54,500 --> 01:50:56,166

know, manned crews, all that.

3402

01:50:56,166 --> 01:50:56,666

Right.

3403

01:50:56,666 --> 01:50:58,250

And so vastly expensive.

3404

01:50:58,250 --> 01:50:59,500

It would be a huge range of resources.

3405

01:50:59,500 --> 01:51:02,166

So then you get to the point of why, why

3406

01:51:02,166 --> 01:51:03,833

are we doing this to ourselves?

3407

01:51:03,833 --> 01:51:05,416

Why are we doing it in international

3408

01:51:05,416 --> 01:51:07,916

waters where anyone can go underwater and

3409

01:51:07,916 --> 01:51:10,625

under the space and just observe our

3410

01:51:10,625 --> 01:51:12,083

frequencies and our tactics?

3411

01:51:12,083 --> 01:51:12,625

Why don't we use our top secret areas?

3412

01:51:12,625 --> 01:51:13,833

Would somebody see all those submarines

3413

01:51:13,833 --> 01:51:14,625

if they were there or something?

3414

01:51:16,625 --> 01:51:17,833

You would think so, right?

3415

01:51:17,833 --> 01:51:19,208

So I think if somebody was trying to make

3416

01:51:19,208 --> 01:51:20,250

this story happen, it would be just

3417

01:51:20,250 --> 01:51:21,666

cheaper to make you guys lie, right?

3418

01:51:21,666 --> 01:51:23,583

It's just incredibly complicated.

3419

01:51:23,583 --> 01:51:24,916

Would it be?

3420

01:51:24,916 --> 01:51:26,041

I mean, how much can it

3421

01:51:26,041 --> 01:51:28,541

cost to get 100 sailors to lie?

3422

01:51:28,541 --> 01:51:29,125

Yeah.

3423

01:51:29,125 --> 01:51:30,625

Especially to tell them this is your job.

3424

01:51:30,625 --> 01:51:31,541

This is, you know, NASA's

3425

01:51:31,541 --> 01:51:33,500

like, you must lie, right?

We don't have a pretty good liars.

3426

01:51:33,500 --> 01:51:34,833

So it would be incredibly difficult.

3427

01:51:34,833 --> 01:51:36,291

And then there's the why and then the

3428

01:51:36,291 --> 01:51:37,625

period of time and then all the other

3429

01:51:37,625 --> 01:51:38,958

lying that would have to go around to

3430

01:51:38,958 --> 01:51:41,000

support it in a very public fashion that

3431

01:51:41,000 --> 01:51:43,000

for me, the thought that it is our

3432

01:51:43,000 --> 01:51:43,916

government doing this is pretty close to zero for me at the moment.

3433

01:51:44,791 --> 01:51:47,041

Or at least the part of the government

3434

01:51:47,041 --> 01:51:48,250

you know of or just any

3435

01:51:48,250 --> 01:51:48,666

part of the government?

3436

01:51:48,666 --> 01:51:50,333

I would say the part of government that I

3437

01:51:50,333 --> 01:51:51,250

know of and that I know

3438

01:51:51,250 --> 01:51:52,625

that I don't know about.

3439

01:51:52,625 --> 01:51:54,083

I don't know the unknowns, but I know

3440

01:51:54,083 --> 01:51:55,083

there's a black world

3441

01:51:55,083 --> 01:51:55,875

that they're lost off.

3442

01:51:55,875 --> 01:51:57,291

I've had security clearance.

3443

01:51:57,291 --> 01:52:00,250

They wouldn't be up to this.

3444

01:52:00,250 --> 01:52:01,375

This is not consistent with

3445

01:52:01,375 --> 01:52:02,541

the behaviors that they do.

3446

01:52:02,541 --> 01:52:03,541

I mean, I've worked in the defense

3447

01:52:03,541 --> 01:52:04,541

industry, I've tested stuff.

3448

01:52:04,541 --> 01:52:05,291

I have some of these fields.

3449

01:52:05,291 --> 01:52:05,916

And that's just one set of sightings, right?

3450

01:52:06,500 --> 01:52:08,500

So there's like thousands of these

3451

01:52:08,500 --> 01:52:10,125

sightings, each one of which might

3452

01:52:10,125 --> 01:52:12,625

require that level of

3453

01:52:12,625 --> 01:52:15,208

budget to make, to fake it.

3454

01:52:15,208 --> 01:52:16,916

And oh, by the way, the currencies that

3455

01:52:16,916 --> 01:52:17,916

are happening off the Eastern Seaboard

3456

01:52:17,916 --> 01:52:19,208

are still happening.

3457

01:52:19,208 --> 01:52:20,875

I'm still talking to pilots who are still

3458

01:52:20,875 --> 01:52:23,250

seeing cubes and spheres.

3459

01:52:23,250 --> 01:52:25,791

But to go back a moment, you are saying

3460

01:52:25,791 --> 01:52:27,958

how it weren't seeing 100 percent of them

3461

01:52:27,958 --> 01:52:28,875
with their eyes, which is true.

3462
01:52:28,875 --> 01:52:30,666
I had a hard time seeing them.

3463
01:52:30,666 --> 01:52:31,541
We would come up to them

3464
01:52:31,541 --> 01:52:32,541
in very controlled fashion.

3465
01:52:32,541 --> 01:52:33,583
We would expect to see them.

3466
01:52:33,583 --> 01:52:34,916
Our sensors are showing it.

3467
01:52:35,583 --> 01:52:36,208
But we can't see them.

3468
01:52:36,208 --> 01:52:37,958
We turn around, they're there again.

3469
01:52:37,958 --> 01:52:38,916
But eventually we did

3470
01:52:38,916 --> 01:52:40,083
actually gain sight of them.

3471
01:52:40,083 --> 01:52:41,583
It was a particular case because the

3472
01:52:41,583 --> 01:52:43,958
object was located if this

3473
01:52:43,958 --> 01:52:45,000
table is the working area.

3474

01:52:45,000 --> 01:52:46,291

So I can see it from our God's eye view,

3475

01:52:46,291 --> 01:52:48,375

like right here at the entrance, you

3476

01:52:48,375 --> 01:52:49,666

know, at the right altitude.

3477

01:52:49,666 --> 01:52:50,458

So it was at the spot.

3478

01:52:50,458 --> 01:52:51,833

So they know where your edge is.

3479

01:52:51,833 --> 01:52:53,041

Yes.

3480

01:52:53,041 --> 01:52:54,375

And it was stationary.

3481

01:52:54,375 --> 01:52:57,250

And I keep saying I need to do research

3482

01:52:57,250 --> 01:52:58,333

on this, but I don't think their radar

3483

01:52:58,333 --> 01:52:59,916

was working that day.

3484

01:52:59,916 --> 01:53:01,208

I think that's why they almost hit the

3485

01:53:01,208 --> 01:53:02,416

object there because...

3486

01:53:02,416 --> 01:53:02,916

The two ones who went zoom past them.

3487

01:53:03,791 --> 01:53:04,958

Yes. So they were going

3488

01:53:04,958 --> 01:53:06,250

out in a section like this.

3489

01:53:06,250 --> 01:53:07,000

Right. And when these objects

3490

01:53:07,000 --> 01:53:08,125

went right between...

3491

01:53:08,125 --> 01:53:08,875

It was stationary.

3492

01:53:08,875 --> 01:53:09,833

They went between it.

3493

01:53:09,833 --> 01:53:10,625

But that's how I describe

3494

01:53:10,625 --> 01:53:12,041

it, the relative motion.

3495

01:53:12,041 --> 01:53:13,958

So these times when you got close but you

3496

01:53:13,958 --> 01:53:15,708

couldn't see it, is it believable that

3497

01:53:15,708 --> 01:53:18,291

it's because they were so small or is it

3498

01:53:18,291 --> 01:53:19,666

plausible that they were really like they

3499

01:53:19,666 --> 01:53:20,875

could choose to be opaque if they want?

3500

01:53:20,875 --> 01:53:21,750

They could choose for you

3501

01:53:21,750 --> 01:53:22,791

not to see them if they wanted.

3502

01:53:22,791 --> 01:53:24,958

I don't think it's a size issue.

3503

01:53:24,958 --> 01:53:26,416

Okay.

Based off of the radar.

3504

01:53:26,416 --> 01:53:28,000

Then maybe they can just change the

3505

01:53:28,000 --> 01:53:29,416

appearance of their surface to look like

3506

01:53:29,416 --> 01:53:29,916

the sky or something?

3507

01:53:30,166 --> 01:53:32,125

I think there's the

3508

01:53:32,125 --> 01:53:33,500

possibility of the "cloaking".

3509

01:53:33,500 --> 01:53:35,250

It's doing something to its surface to

3510

01:53:35,250 --> 01:53:36,916

make it hard to see.

3511

01:53:36,916 --> 01:53:37,750

I mean, that's one.

3512

01:53:37,750 --> 01:53:38,916

The other one, of course, is that they

3513

01:53:38,916 --> 01:53:41,291

don't all correlate to physical objects.

3514

01:53:41,291 --> 01:53:42,791

And the IR energy that we're seeing on

3515

01:53:42,791 --> 01:53:45,041

our FLIR, for whatever reason, doesn't

3516

01:53:45,041 --> 01:53:46,125

correlate to something I would be able to

3517

01:53:46,125 --> 01:53:47,666

see with my eyes as a physical object.

3518

01:53:47,666 --> 01:53:49,375

So I have a physics background.

3519

01:53:49,375 --> 01:53:51,875

And one of the things physicists I know

3520

01:53:51,875 --> 01:53:53,416

speculate about is this idea that you

3521

01:53:53,416 --> 01:53:56,000

could send a beam to a

3522

01:53:56,000 --> 01:53:56,916

point that induces a plasma.

3523

01:53:57,458 --> 01:53:59,541

And then you could draw whatever thing

3524

01:53:59,541 --> 01:54:01,375

you want with a plasma beam.

3525

01:54:01,375 --> 01:54:03,333

Now, that wouldn't have been something we

3526

01:54:03,333 --> 01:54:05,250

could have done in 1940.

3527

01:54:05,250 --> 01:54:06,375

But maybe that's something we could have

3528

01:54:06,375 --> 01:54:08,500

done in the last 20 years.

3529

01:54:08,500 --> 01:54:10,000

Is that...

3530

01:54:10,000 --> 01:54:11,416

I mean, that might be a cheaper budget,

3531

01:54:11,416 --> 01:54:12,958

maybe, if there's some projector

3532

01:54:12,958 --> 01:54:13,708

somewhere sending this

3533

01:54:13,708 --> 01:54:15,208

beam and they can control...

3534

01:54:15,208 --> 01:54:16,750

Maybe they send two beams and where they

3535

01:54:16,750 --> 01:54:17,916

intersect produces a

3536

01:54:17,916 --> 01:54:18,666

phenomena or something.

3537

01:54:18,666 --> 01:54:21,291

But then you could just draw this thing

3538

01:54:21,291 --> 01:54:22,708

in space and make

3539

01:54:22,708 --> 01:54:23,416

whatever pattern you want.

3540

01:54:23,416 --> 01:54:24,916

It could accelerate and disappear, etc.

3541

01:54:25,666 --> 01:54:27,375

There's no physical object there, but

3542

01:54:27,375 --> 01:54:28,375

that's why it looks like it's...

3543

01:54:28,375 --> 01:54:31,375

Right. So it's like drawing a

3544

01:54:31,375 --> 01:54:32,541

hologram in space, basically.

3545

01:54:32,541 --> 01:54:34,625

So is that the sort of thing that could

3546

01:54:34,625 --> 01:54:36,000

have explained the kind of thing you see?

3547

01:54:36,000 --> 01:54:36,500

Could such...

3548

01:54:36,500 --> 01:54:38,500

I mean, it could reflect late radar, I

3549

01:54:38,500 --> 01:54:39,625

guess, if there's a plasma there.

3550

01:54:39,625 --> 01:54:41,000

It could show an infrared because it

3551

01:54:41,000 --> 01:54:42,500

would be a hot plasma.

3552

01:54:42,500 --> 01:54:44,208

And you could just turn it on and off.

3553

01:54:44,208 --> 01:54:44,750

Well, I guess you

3554

01:54:44,750 --> 01:54:46,000

couldn't turn it off that fast.

3555

01:54:46,000 --> 01:54:47,500

But you can't send a

3556

01:54:47,500 --> 01:54:48,833

cold beam to freeze it.

3557

01:54:48,833 --> 01:54:50,250

You could turn off the hot beam and then

3558

01:54:50,250 --> 01:54:51,375

it would slowly cool.

3559

01:54:51,375 --> 01:54:51,958

Well, here's...

3560

01:54:51,958 --> 01:54:52,916

So I've looked into this.

3561

01:54:53,791 --> 01:54:54,625

I've talked to some

3562

01:54:54,625 --> 01:54:56,833

people within the government.

3563

01:54:56,833 --> 01:54:57,708

And this was an area of

3564

01:54:57,708 --> 01:54:59,041

research that the government...

3565

01:54:59,041 --> 01:55:00,375

I've heard have pursued

3566

01:55:00,375 --> 01:55:01,208

and say, "Is this possible?"

3567

01:55:01,208 --> 01:55:03,083

So one thing I was interested to learn

3568

01:55:03,083 --> 01:55:04,458

was that plasma can

3569

01:55:04,458 --> 01:55:05,541

actually return radar...

3570

01:55:05,541 --> 01:55:07,208

Or make radar returns.

3571

01:55:07,208 --> 01:55:07,791

Yeah.

3572

01:55:07,791 --> 01:55:09,333

So you could place this

3573

01:55:09,333 --> 01:55:10,000

out there and actually...

3574

01:55:10,000 --> 01:55:11,416

There's free electrons in it, basically,

3575

01:55:11,416 --> 01:55:13,500

that would reflect the radar.

3576

01:55:13,500 --> 01:55:14,333

I didn't know that, but I

3577

01:55:14,333 --> 01:55:16,666

just knew it would reflect it.

3578

01:55:16,666 --> 01:55:18,375

But either way, so...

3579

01:55:18,375 --> 01:55:19,625

So, yeah, it seems

3580

01:55:19,625 --> 01:55:20,125

feasible that you could do that.

3581

01:55:20,416 --> 01:55:22,500

I've looked into what turns me off for

3582

01:55:22,500 --> 01:55:24,416

that being a real thing are two things.

3583

01:55:24,416 --> 01:55:26,500

One, energy requirements to do so.

3584

01:55:26,500 --> 01:55:28,500

And two, the fidelity of

3585

01:55:28,500 --> 01:55:31,208

the projection, potentially.

3586

01:55:31,208 --> 01:55:32,916

So the fact that we saw these with the

3587

01:55:32,916 --> 01:55:33,833

own eyeballs and the

3588

01:55:33,833 --> 01:55:34,708

fidelity I was described,

3589

01:55:34,708 --> 01:55:36,166

for me, negates that possibility.

3590

01:55:36,166 --> 01:55:37,375

So is this about like an

3591

01:55:37,375 --> 01:55:38,750

angular accuracy of the beam?

3592

01:55:38,750 --> 01:55:39,416

I mean, couldn't they have

3593

01:55:39,416 --> 01:55:40,500

just a really narrow beam?

3594

01:55:40,500 --> 01:55:42,375

Then it would just be a very precise spot

3595

01:55:42,375 --> 01:55:43,541

where the plasma was happening?

3596

01:55:43,541 --> 01:55:44,500

Or are you thinking like the

3597

01:55:44,500 --> 01:55:45,958

beam would have to spread out?

3598

01:55:45,958 --> 01:55:47,416

I think there would need to be multiple

3599

01:55:47,416 --> 01:55:47,916

beams that are high precision

3600

01:55:48,458 --> 01:55:51,500

in order to provide the square and the

3601

01:55:51,500 --> 01:55:52,541

circular shape with the

3602

01:55:52,541 --> 01:55:54,166

fidelity that existed.

3603

01:55:54,166 --> 01:55:57,041

Okay, so it's the spatial precision then.

3604

01:55:57,041 --> 01:55:58,541

So I could suggest...

3605

01:55:58,541 --> 01:55:59,333

But you didn't see a

3606

01:55:59,333 --> 01:56:00,083

square in a circle, right?

3607

01:56:00,083 --> 01:56:02,375

You just saw a spot, right?

3608

01:56:02,375 --> 01:56:04,375

Yes, but I didn't see it, but everyone in

3609

01:56:04,375 --> 01:56:06,000

the squadron were seeing the same item.

3610

01:56:06,000 --> 01:56:07,041

So although I was one...

3611
01:56:07,041 --> 01:56:08,250
So lots of people saw the square in the

3612
01:56:08,250 --> 01:56:09,291
circle, not just these two guys

3613
01:56:09,291 --> 01:56:09,750
who had the thing you

3614
01:56:09,750 --> 01:56:10,750
wanted to be training, right?

3615
01:56:10,750 --> 01:56:12,833
So for me, that's the fact.

3616
01:56:12,833 --> 01:56:14,000
And that's still being seen today.

3617
01:56:14,000 --> 01:56:15,333
I've talked tens of piles of...

3618
01:56:15,333 --> 01:56:16,458
The cube in the sphere, sorry.

3619
01:56:16,458 --> 01:56:16,958
The cube in the sphere?

3620
01:56:17,708 --> 01:56:19,125
The cube in the sphere, yes.

3621
01:56:19,125 --> 01:56:21,958
So when I think about just

3622
01:56:21,958 --> 01:56:23,875
the radar and just the AT FLIR,

3623
01:56:23,875 --> 01:56:25,833

the technology that you described, use

3624

01:56:25,833 --> 01:56:27,583

plasma, I think is

3625

01:56:27,583 --> 01:56:29,375

conceivable potentially.

3626

01:56:29,375 --> 01:56:31,708

But when we add the visual sighting to

3627

01:56:31,708 --> 01:56:33,125

that, that's where there's a disconnect.

3628

01:56:33,125 --> 01:56:34,000

So this is about just

3629

01:56:34,000 --> 01:56:35,041

the spatial resolution.

3630

01:56:35,041 --> 01:56:36,583

How fine a beam could you send?

3631

01:56:36,583 --> 01:56:38,166

You'd have to do a raster thing,

3632

01:56:38,166 --> 01:56:39,500

basically, you know, raster,

3633

01:56:39,500 --> 01:56:40,208

just like you do with a

3634

01:56:40,208 --> 01:56:40,666

TV screen or something.

3635

01:56:40,666 --> 01:56:41,541

These objects were 5

3636

01:56:41,541 --> 01:56:43,333

to 15 feet in diameter.

3637

01:56:44,916 --> 01:56:47,833

And so, yeah, it would have to raster.

3638

01:56:47,833 --> 01:56:48,583

It would have to be

3639

01:56:48,583 --> 01:56:50,125

extremely high precision.

3640

01:56:50,125 --> 01:56:52,166

So it's those parameters that seem unreal

3641

01:56:52,166 --> 01:56:53,500

to the people you've talked to.

3642

01:56:53,500 --> 01:56:56,500

You could make a fuzzy blob move around,

3643

01:56:56,500 --> 01:56:58,125

but you couldn't make something with that

3644

01:56:58,125 --> 01:56:59,291

precision of a shape,

3645

01:56:59,291 --> 01:57:00,250

of a cube inside a

3646

01:57:00,250 --> 01:57:02,625

sphere, a transparent sphere.

3647

01:57:02,625 --> 01:57:04,541

I don't know how to make a transparent

3648

01:57:04,541 --> 01:57:05,250

sphere with a plasma.

3649

01:57:05,250 --> 01:57:06,250

That sounds tricky to me.

3650

01:57:06,250 --> 01:57:07,666

I don't either.

3651

01:57:07,666 --> 01:57:08,291

How do you make something that

3652

01:57:08,291 --> 01:57:10,416

looks like glass with plasma?

3653

01:57:10,416 --> 01:57:11,166

And that's a tricky one

3654

01:57:11,166 --> 01:57:11,916

too, because the pilot witness,

3655

01:57:12,583 --> 01:57:15,375

he specifically stated that it was clear.

3656

01:57:15,375 --> 01:57:17,708

I added translucent or translucent

3657

01:57:17,708 --> 01:57:19,000

because I have to see the thing.

3658

01:57:19,000 --> 01:57:19,750

Exactly.

3659

01:57:19,750 --> 01:57:20,750

Right.

3660

01:57:20,750 --> 01:57:22,291

You're seeing the clear sphere, so it

3661
01:57:22,291 --> 01:57:24,500
can't be perfectly clear.

3662
01:57:24,500 --> 01:57:25,541
Exactly.

3663
01:57:25,541 --> 01:57:27,416
So yeah, you know, these are the details

3664
01:57:27,416 --> 01:57:28,916
that then start making that

3665
01:57:28,916 --> 01:57:30,250
theory more murky for me.

3666
01:57:30,250 --> 01:57:31,708
And then when you add on top

3667
01:57:31,708 --> 01:57:33,708
of the why question, right?

3668
01:57:33,708 --> 01:57:34,583
Right.
Why would we be doing

3669
01:57:34,583 --> 01:57:35,583
this for eight years?

3670
01:57:35,583 --> 01:57:37,041
But of course, this also won't explain

3671
01:57:37,041 --> 01:57:38,916
stuff from say before 1990 or something.

3672
01:57:39,125 --> 01:57:40,500
None of those, they could have, they

3673

01:57:40,500 --> 01:57:42,250
wouldn't have had the plasma raster

3674
01:57:42,250 --> 01:57:42,583
technology.

3675
01:57:42,583 --> 01:57:43,875
This is just to be clear.

3676
01:57:43,875 --> 01:57:45,250
We're just talking about, at least for me

3677
01:57:45,250 --> 01:57:46,375
right now, the east coast

3678
01:57:46,375 --> 01:57:47,000
experiences essentially.

3679
01:57:47,000 --> 01:57:47,666
Right.

3680
01:57:47,666 --> 01:57:50,208
That wouldn't work there.

3681
01:57:50,208 --> 01:57:51,166
And so that, I mean, a lot of

3682
01:57:51,166 --> 01:57:52,541
us have to look at you and go,

3683
01:57:52,541 --> 01:57:53,416
what's the chance he's in

3684
01:57:53,416 --> 01:57:55,000
on this and lying, right?

3685
01:57:55,000 --> 01:57:56,916
It must feel weird to like, to know

3686

01:57:56,916 --> 01:57:57,958

people are looking at you going,

3687

01:57:57,958 --> 01:57:59,500

what's the chance he's lying?

3688

01:57:59,500 --> 01:58:01,291

Yeah, I feel like most

3689

01:58:01,291 --> 01:58:02,125

people, I don't know,

3690

01:58:02,125 --> 01:58:02,916

I just assume people

3691

01:58:02,916 --> 01:58:03,750

don't think I'm lying.

3692

01:58:03,750 --> 01:58:04,083

I don't know.

3693

01:58:04,083 --> 01:58:05,833

I just, I don't, because I'm not,

3694

01:58:05,833 --> 01:58:06,458

but if we don't think

3695

01:58:06,458 --> 01:58:07,458

you're lying, then we got to,

3696

01:58:07,458 --> 01:58:07,958

I'm just talking about this data.

3697

01:58:08,000 --> 01:58:08,458

We have to draw these

3698

01:58:08,458 --> 01:58:09,291
other conclusions, right?

3699

01:58:09,291 --> 01:58:10,625
Yeah.

We have to, we have these really big

3700

01:58:10,625 --> 01:58:11,541
dramatic conclusions.

3701

01:58:11,541 --> 01:58:13,458
Like either you're lying or these, like

3702

01:58:13,458 --> 01:58:14,458
our worldview has to change.

3703

01:58:14,458 --> 01:58:15,416
Like, so which do we want to do?

3704

01:58:15,416 --> 01:58:17,666
I'm lying and also I'm being supported.

3705

01:58:17,666 --> 01:58:18,791
By huge infrastructure,

3706

01:58:18,791 --> 01:58:19,583
supporting infrastructure.

3707

01:58:19,583 --> 01:58:20,000
Yes.

3708

01:58:20,000 --> 01:58:22,541
Because my story, you know, I made my

3709

01:58:22,541 --> 01:58:23,541
statements and I didn't expect

3710

01:58:23,541 --> 01:58:25,625

this to happen, but then people FOIA

3711

01:58:25,625 --> 01:58:26,500
documents and things came out

3712

01:58:26,500 --> 01:58:28,416
and you know, my story was validated.

3713

01:58:28,416 --> 01:58:29,791
So you'd have to assume that there was a

3714

01:58:29,791 --> 01:58:32,916
wider apparatus than just me.

3715

01:58:32,916 --> 01:58:34,375
But that would be the story here, right?

3716

01:58:34,375 --> 01:58:36,083
There's this, I mean, how much would they

3717

01:58:36,083 --> 01:58:36,916
be willing to spend basically?

3718

01:58:37,291 --> 01:58:38,208
Could they make a whole

3719

01:58:38,208 --> 01:58:40,750
carrier group that does this?

3720

01:58:40,750 --> 01:58:42,333
We're still talking about us, right?

3721

01:58:42,333 --> 01:58:44,291
Would another nation do this to us?

3722

01:58:44,291 --> 01:58:46,625
Could we slip this carrier group into the

3723

01:58:46,625 --> 01:58:48,625

Soviet Baltic Sea or something?

3724

01:58:48,625 --> 01:58:50,583

Yeah.

Like trick them or something?

3725

01:58:50,583 --> 01:58:52,500

Yeah.

Why are we checking our own pilots for

3726

01:58:52,500 --> 01:58:53,333

almost a decade now?

3727

01:58:53,333 --> 01:58:54,166

And trying to trick the

3728

01:58:54,166 --> 01:58:55,375

Soviet pilots and whatever.

3729

01:58:55,375 --> 01:58:56,208

I mean, again, there is

3730

01:58:56,208 --> 01:58:57,500

this plausible thing like,

3731

01:58:57,500 --> 01:58:58,875

just make the other side uncertain if

3732

01:58:58,875 --> 01:59:00,333

there's a third party, right?

3733

01:59:00,333 --> 01:59:01,833

That's worth a fair bit.

3734

01:59:01,833 --> 01:59:04,500

But could you really pull that off inside

3735

01:59:04,500 --> 01:59:05,500

their organizations?

3736

01:59:05,500 --> 01:59:06,000

Mm-hmm.

3737

01:59:06,375 --> 01:59:07,500

Like could you make

3738

01:59:07,500 --> 01:59:09,458

Soviet pilots see this stuff?

3739

01:59:09,458 --> 01:59:10,833

I would assume we'd have to be working

3740

01:59:10,833 --> 01:59:11,458

towards the same goal

3741

01:59:11,458 --> 01:59:13,916

to make that happen.

3742

01:59:13,916 --> 01:59:17,375

I mean, so this is why

3743

01:59:17,375 --> 01:59:19,083

this is a hard subject, right?

3744

01:59:19,083 --> 01:59:20,666

So I feel this emotional

3745

01:59:20,666 --> 01:59:22,208

sense of just run away from this.

3746

01:59:22,208 --> 01:59:24,000

Like there's not much to win here, right?

3747

01:59:24,000 --> 01:59:25,000

You're not going to look good.

3748

01:59:25,000 --> 01:59:26,875

Nobody's going to thank you for this.

3749

01:59:26,875 --> 01:59:28,083

Like just go do something else.

3750

01:59:28,083 --> 01:59:29,708

And I've got to bet a lot of other people

3751

01:59:29,708 --> 01:59:31,083

feel that about this, right?

3752

01:59:31,083 --> 01:59:32,166

Just run away.

3753

01:59:32,166 --> 01:59:33,833

Find an excuse and run away.

3754

01:59:34,500 --> 01:59:36,416

You know, sure, the world needs to know,

3755

01:59:36,416 --> 01:59:37,250

but you don't have to be

3756

01:59:37,250 --> 01:59:39,041

the one to tell the world.

3757

01:59:39,041 --> 01:59:39,750

Let them figure it out

3758

01:59:39,750 --> 01:59:40,541

some other way, right?

3759

01:59:40,541 --> 01:59:41,000

Yeah.

3760

01:59:41,000 --> 01:59:43,791

I mean, do you feel it?

3761

01:59:43,791 --> 01:59:45,500

I mean, so a bunch of your other pilots,

3762

01:59:45,500 --> 01:59:47,166

they didn't go public, right?

3763

01:59:47,166 --> 01:59:48,125

They could have. You did.

3764

01:59:48,125 --> 01:59:49,291

Do you feel like you're different from

3765

01:59:49,291 --> 01:59:50,916

them because like you felt more of an

3766

01:59:50,916 --> 01:59:53,416

obligation to do it or?

3767

01:59:53,416 --> 01:59:54,666

I think there's a few

3768

01:59:54,666 --> 01:59:55,625

considerations there.

3769

01:59:55,625 --> 01:59:59,541

One was that, well, one, yeah, I did.

3770

01:59:59,541 --> 02:00:01,458

I did feel an obligation to do it when I

3771

02:00:01,458 --> 02:00:01,958

first started speaking out

3772

02:00:02,375 --> 02:00:04,166

because I knew like to your point, I was

3773

02:00:04,166 --> 02:00:05,708

going to be first more or less.

3774

02:00:05,708 --> 02:00:08,166

And the risk was going to be on me.

3775

02:00:08,166 --> 02:00:09,500

But, you know, as I said earlier, the

3776

02:00:09,500 --> 02:00:10,500

Navy trained me to be

3777

02:00:10,500 --> 02:00:11,666

aviation safety officer.

3778

02:00:11,666 --> 02:00:13,583

And in 2017, I saw the new

3779

02:00:13,583 --> 02:00:14,500

all these other officers.

3780

02:00:14,500 --> 02:00:15,708

They aren't doing this.

3781

02:00:15,708 --> 02:00:16,583

I know.

3782

02:00:16,583 --> 02:00:18,666

But I was also, you know, you just take

3783

02:00:18,666 --> 02:00:20,166

this mission more seriously than they do.

3784

02:00:20,166 --> 02:00:21,500

Well, you know, the guys that saw the

3785

02:00:21,500 --> 02:00:23,416

gimbal video and stuff, I mean, yeah,

3786

02:00:23,416 --> 02:00:24,500

these are my best buddies.

3787

02:00:24,500 --> 02:00:25,375

I mean, right.

3788

02:00:25,375 --> 02:00:26,791

A guy that we hear in

3789

02:00:26,791 --> 02:00:27,958

there is in my wedding party.

3790

02:00:27,958 --> 02:00:28,416

We've known each

3791

02:00:28,416 --> 02:00:28,916

other for about a decade.

3792

02:00:29,541 --> 02:00:32,958

So, you know, for me, it was insulting.

3793

02:00:32,958 --> 02:00:35,833

And it just pissed me off that this was

3794

02:00:35,833 --> 02:00:37,041

an issue now that was in the

3795

02:00:37,041 --> 02:00:38,250

front of the New York Times.

3796

02:00:38,250 --> 02:00:40,333

And yet I then just called my friends on

3797

02:00:40,333 --> 02:00:41,333

these coasts who said, you know, of

3798

02:00:41,333 --> 02:00:43,000

course, yeah, we're flying by these like

3799

02:00:43,000 --> 02:00:43,875

no one's doing anything.

3800

02:00:43,875 --> 02:00:45,458

We're almost hitting these things.

3801

02:00:45,458 --> 02:00:47,833

And I know the lessons in the Navy that

3802

02:00:47,833 --> 02:00:49,583

we fix things after someone dies and we

3803

02:00:49,583 --> 02:00:51,125

write our books in blood.

3804

02:00:51,125 --> 02:00:52,458

And this was an opportunity.

3805

02:00:52,458 --> 02:00:55,250

I felt that something could be done

3806

02:00:55,250 --> 02:00:55,916

before we had a catastrophic issue.

3807

02:00:56,458 --> 02:00:58,583

And it wasn't necessarily the, yeah,

3808

02:00:58,583 --> 02:00:59,500

Jet's going to hit it

3809

02:00:59,500 --> 02:01:00,375

because that could happen.

3810
02:01:00,375 --> 02:01:01,041

But that's just a

3811
02:01:01,041 --> 02:01:02,541

risk we take as aviators.

3812
02:01:02,541 --> 02:01:05,291

It was a strategic and tactical risk that

3813
02:01:05,291 --> 02:01:07,458

we were potentially exposing ourselves to

3814
02:01:07,458 --> 02:01:08,916

through an adversary if they were the

3815
02:01:08,916 --> 02:01:11,083

ones taking advantage of our inability to

3816
02:01:11,083 --> 02:01:12,750

look at something strange.

3817
02:01:12,750 --> 02:01:16,250

So I cited a study of the following in my

3818
02:01:16,250 --> 02:01:18,125

first book, Age of M.

3819
02:01:18,125 --> 02:01:19,958

It's a study of employees

3820
02:01:19,958 --> 02:01:20,916

and what makes them happy.

3821
02:01:21,916 --> 02:01:24,666

And one set of employees has a concept

3822
02:01:24,666 --> 02:01:26,958

that their job is like a certain

3823

02:01:26,958 --> 02:01:27,708

specification of a thing

3824

02:01:27,708 --> 02:01:28,833

to be done in the world.

3825

02:01:28,833 --> 02:01:30,291

And other people have the concept of

3826

02:01:30,291 --> 02:01:32,708

their job as pleasing their boss.

3827

02:01:32,708 --> 02:01:34,458

The second group of people tends to be

3828

02:01:34,458 --> 02:01:38,500

happier in their jobs because they do

3829

02:01:38,500 --> 02:01:40,125

whatever it takes to please their boss

3830

02:01:40,125 --> 02:01:42,166

and then they keep their job and they

3831

02:01:42,166 --> 02:01:43,041

don't have as much attention.

3832

02:01:43,041 --> 02:01:44,500

The first group of people with the

3833

02:01:44,500 --> 02:01:46,833

concept they have of their job is doing a

3834

02:01:46,833 --> 02:01:48,916

certain thing like making the sky safe.

3835

02:01:49,083 --> 02:01:50,250

Well, they have a problem because often

3836

02:01:50,250 --> 02:01:53,000

their boss disagrees with them about how

3837

02:01:53,000 --> 02:01:54,458

to implement that job or even whether

3838

02:01:54,458 --> 02:01:55,333

that job should be done.

3839

02:01:55,333 --> 02:01:57,083

Right. So you sound like more of that

3840

02:01:57,083 --> 02:01:58,708

first kind of person.

3841

02:01:58,708 --> 02:02:00,791

You took the safety course and you think

3842

02:02:00,791 --> 02:02:03,166

of my job is to keep the sky safe as

3843

02:02:03,166 --> 02:02:05,416

opposed to my job is to please my boss.

3844

02:02:05,416 --> 02:02:06,500

Because otherwise you go to your boss and

3845

02:02:06,500 --> 02:02:07,958

say, what do you want to hear?

3846

02:02:07,958 --> 02:02:08,416

Certainly wasn't

3847

02:02:08,416 --> 02:02:09,250

pleased my boss with this.

3848

02:02:09,250 --> 02:02:11,166

That's for sure.

3849

02:02:11,166 --> 02:02:12,458

Right. But that tends

3850

02:02:12,458 --> 02:02:13,375

to make people unhappy.

3851

02:02:13,375 --> 02:02:16,458

Right. But in some sense, the world world

3852

02:02:16,458 --> 02:02:16,958

runs on those first people.

3853

02:02:17,500 --> 02:02:18,750

Right. In some sense, like a bunch of

3854

02:02:18,750 --> 02:02:20,666

things don't go wrong because some people

3855

02:02:20,666 --> 02:02:22,541

take their job so seriously that they're

3856

02:02:22,541 --> 02:02:24,916

willing to cause conflict with their boss

3857

02:02:24,916 --> 02:02:26,291

in order to do their job

3858

02:02:26,291 --> 02:02:29,625

as they see the job defined.

3859

02:02:29,625 --> 02:02:30,500

And that I mean, that that

3860

02:02:30,500 --> 02:02:31,625

was what the Navy taught me.

3861

02:02:31,625 --> 02:02:34,000

And that's what they instilled in me.

3862

02:02:34,000 --> 02:02:34,958

And do your job even if

3863

02:02:34,958 --> 02:02:35,958

your boss doesn't like it.

3864

02:02:35,958 --> 02:02:38,625

Well, no, it's that, you know, we have a

3865

02:02:38,625 --> 02:02:40,250

higher calling in a sense in that the

3866

02:02:40,250 --> 02:02:41,666

people that you're out there serving with

3867

02:02:41,666 --> 02:02:42,166

are why you're there.

3868

02:02:43,000 --> 02:02:45,291

And so for me, when I saw the New York

3869

02:02:45,291 --> 02:02:46,750

Times article, when I reached out my

3870

02:02:46,750 --> 02:02:47,916

friends and realized it was still

3871

02:02:47,916 --> 02:02:49,458

happening, it was, man, we're setting

3872

02:02:49,458 --> 02:02:50,416

ourselves up for failure.

3873

02:02:50,416 --> 02:02:51,750

And this was just another opportunity.

3874

02:02:51,750 --> 02:02:53,875

I think this is a thing most people don't

3875

02:02:53,875 --> 02:02:55,125

understand about the military, which is

3876

02:02:55,125 --> 02:02:57,541

maybe why I'm pushing you to say it,

3877

02:02:57,541 --> 02:02:58,666

which is many people have

3878

02:02:58,666 --> 02:02:59,750

a sense in the military.

3879

02:02:59,750 --> 02:03:01,083

If there's any place in the world where

3880

02:03:01,083 --> 02:03:02,208

you do what your boss

3881

02:03:02,208 --> 02:03:03,625

says, it's in the military.

3882

02:03:03,625 --> 02:03:05,875

Right. Command, respect for command.

3883

02:03:05,875 --> 02:03:09,000

Just do what you're told is seen to be a

3884

02:03:09,000 --> 02:03:09,916

central part of the military. Right.

3885

02:03:11,000 --> 02:03:13,541

And so and maybe that's true for many

3886

02:03:13,541 --> 02:03:14,583

militaries in the world, but there are

3887

02:03:14,583 --> 02:03:16,125

some militaries, maybe ours, where

3888

02:03:16,125 --> 02:03:17,833

there's a big part of the people who say,

3889

02:03:17,833 --> 02:03:19,708

no, my job isn't just

3890

02:03:19,708 --> 02:03:21,500

to do what my boss says.

3891

02:03:21,500 --> 02:03:22,791

My job is to do this

3892

02:03:22,791 --> 02:03:25,000

particular thing I was taught to do.

3893

02:03:25,000 --> 02:03:27,500

And if my boss is giving you resistance

3894

02:03:27,500 --> 02:03:28,833

on that, I'm going to give some

3895

02:03:28,833 --> 02:03:30,708

resistance back because my job isn't

3896

02:03:30,708 --> 02:03:32,291

defined by what my boss tells me to do.

3897

02:03:32,291 --> 02:03:33,875

My job is defined by this other thing.

3898

02:03:34,250 --> 02:03:36,833

And that's an amazing fact about the

3899

02:03:36,833 --> 02:03:38,500

military, because you might think in any

3900

02:03:38,500 --> 02:03:40,083

job, it's a bit of a problem to resist

3901

02:03:40,083 --> 02:03:41,375

your boss because he's just got a lot

3902

02:03:41,375 --> 02:03:42,708

more lovers than you.

3903

02:03:42,708 --> 02:03:45,041

And so is it really true that in the U.S.

3904

02:03:45,041 --> 02:03:45,625

military, at least, or

3905

02:03:45,625 --> 02:03:46,500

what military is in the world?

3906

02:03:46,500 --> 02:03:48,208

Is it true such that they have this

3907

02:03:48,208 --> 02:03:50,750

concept of their job, which is, hey, I

3908

02:03:50,750 --> 02:03:52,125

was taught how to do this thing.

3909

02:03:52,125 --> 02:03:52,875

This is the thing I'm

3910

02:03:52,875 --> 02:03:53,833

supposed to be trying to do.

3911

02:03:53,833 --> 02:03:55,208

And this is the thing I'm going to do,

3912

02:03:55,208 --> 02:03:55,916

even if my boss pushes back.

3913

02:03:56,583 --> 02:04:00,000

I think for fighter pilots, we have a

3914

02:04:00,000 --> 02:04:03,208

higher calling to some degree where our

3915

02:04:03,208 --> 02:04:05,458

safety of our mission and of the assets

3916

02:04:05,458 --> 02:04:09,208

and of each other are the highest

3917

02:04:09,208 --> 02:04:10,500

consideration we have.

3918

02:04:10,500 --> 02:04:13,375

And as a lieutenant in the Navy, if my

3919

02:04:13,375 --> 02:04:16,791

commanding officer, an O5 or an O6, is

3920

02:04:16,791 --> 02:04:18,708

demonstrating unsafe practices in that

3921

02:04:18,708 --> 02:04:21,000

fighter jet, I have an obligation to

3922

02:04:21,000 --> 02:04:22,333

remedy that situation, even

3923

02:04:22,333 --> 02:04:22,916

if he's my commanding officer.

3924

02:04:23,791 --> 02:04:26,416

And we're taught as aviators that the

3925

02:04:26,416 --> 02:04:28,750

responsibility and the decision making

3926

02:04:28,750 --> 02:04:31,333

authority of the pilot in that jet is at

3927

02:04:31,333 --> 02:04:33,083

the end of the day absolute.

3928

02:04:33,083 --> 02:04:36,625

And we have the authority to go against

3929

02:04:36,625 --> 02:04:38,791

our regulations, our rules to ensure the

3930

02:04:38,791 --> 02:04:40,333

safety of that aircraft.

3931

02:04:40,333 --> 02:04:42,708

In a sense, this was the same principle.

3932

02:04:42,708 --> 02:04:44,625

So I'm wondering if that's an unusual

3933

02:04:44,625 --> 02:04:45,500

feature of pilots

3934

02:04:45,500 --> 02:04:46,000

because they're so high status.

3935

02:04:46,666 --> 02:04:49,708

Is this really true of an ordinary group

3936

02:04:49,708 --> 02:04:52,041

of soldiers on a front line that they

3937

02:04:52,041 --> 02:04:54,833

have that same sense of we do what is

3938

02:04:54,833 --> 02:04:58,375

good for our troop, even if it's and the

3939

02:04:58,375 --> 02:05:00,333

boss says otherwise?

3940

02:05:00,333 --> 02:05:03,041

Because pilots are so respected that

3941

02:05:03,041 --> 02:05:03,750

successful pilots go on

3942

02:05:03,750 --> 02:05:04,916

to become admirals, right?

3943

02:05:05,916 --> 02:05:08,125

And successful pilots go on to become

3944

02:05:08,125 --> 02:05:12,666

senators and pilots are at the top of our

3945

02:05:12,666 --> 02:05:15,000

military respect in terms of outside

3946

02:05:15,000 --> 02:05:17,250

sense of like those are the top people.

3947

02:05:17,250 --> 02:05:18,833

That's why we have that agency

3948

02:05:18,833 --> 02:05:20,083

to perhaps push a little bit.

3949

02:05:20,083 --> 02:05:23,166

So maybe that you're an exception to

3950

02:05:23,166 --> 02:05:24,500

other parts of the military where it's

3951

02:05:24,500 --> 02:05:25,666

more do what your boss says.

3952

02:05:25,666 --> 02:05:28,000

I agree. Yes. I'm certainly stating that

3953

02:05:28,000 --> 02:05:29,541

that cohort is the

3954

02:05:29,541 --> 02:05:30,250

exception in that area.

3955

02:05:31,875 --> 02:05:34,250

Yeah. I mean, yeah, whether I was

3956

02:05:34,250 --> 02:05:36,208

rebellling perhaps against that authority

3957

02:05:36,208 --> 02:05:37,958

or not, I felt an obligation

3958

02:05:37,958 --> 02:05:39,541

to do what I thought was right.

3959

02:05:39,541 --> 02:05:41,000

But this is also a reason why we should

3960

02:05:41,000 --> 02:05:42,875

pay more attention to pilot testimony

3961

02:05:42,875 --> 02:05:44,416

than anybody else's testimony in some

3962

02:05:44,416 --> 02:05:46,833

sense, because you do have this norm of

3963

02:05:46,833 --> 02:05:49,375

this is our job and we're going to do it.

3964

02:05:49,375 --> 02:05:51,208

And so we can more trust you. If you tell

3965

02:05:51,208 --> 02:05:54,625

us this is in the way of your job, then

3966

02:05:54,625 --> 02:05:55,708

there's really a thing there.

3967

02:05:55,708 --> 02:05:57,125

I'm not going to suggest why people

3968

02:05:57,125 --> 02:05:57,916

should or shouldn't trust pilots.

3969

02:05:58,666 --> 02:06:01,958

I think that I will. Okay, you guys. I

3970

02:06:01,958 --> 02:06:05,416

feel kind of productive myself, but.

3971

02:06:05,416 --> 02:06:06,708

Because I'm not a pilot. I don't know any

3972

02:06:06,708 --> 02:06:09,000

pilot. I have no stake in pilot world. I

3973

02:06:09,000 --> 02:06:11,083

have no connection to pilots whatsoever

3974

02:06:11,083 --> 02:06:12,000

than talking to you today.

3975

02:06:12,000 --> 02:06:13,625

This is my only connection

3976

02:06:13,625 --> 02:06:15,750

to pilots as far as I know.

3977

02:06:16,500 --> 02:06:22,083

Well, you know, regard. I've been looking

3978

02:06:22,083 --> 02:06:25,041

to harness that reputation to expand the

3979

02:06:25,041 --> 02:06:26,500

conversation through this podcast and

3980

02:06:26,500 --> 02:06:29,791

others to provide a platform for pilots

3981

02:06:29,791 --> 02:06:31,750

that haven't felt comfortable about this

3982

02:06:31,750 --> 02:06:34,666

to get on this in the sea on the stage

3983

02:06:34,666 --> 02:06:36,500

and be a voice for this.

3984

02:06:36,500 --> 02:06:38,458

Just like in the past with the ball

3985

02:06:38,458 --> 02:06:39,958

lightning. Oh, we didn't want to talk

3986

02:06:39,958 --> 02:06:42,000

about that. They want to talk about that

3987

02:06:42,000 --> 02:06:43,916

because of how it was received. Right.

3988

02:06:44,375 --> 02:06:46,166

Right. And so I want to provide them a

3989

02:06:46,166 --> 02:06:47,500

platform where they can communicate

3990

02:06:47,500 --> 02:06:48,791

clearly and openly about their

3991

02:06:48,791 --> 02:06:50,541

experiences so we can move the

3992

02:06:50,541 --> 02:06:51,708

conversation forward in

3993

02:06:51,708 --> 02:06:54,208

a way we haven't before.

3994

02:06:54,208 --> 02:06:57,041

And I think I mean, a key status contest

3995

02:06:57,041 --> 02:06:59,625

is going on here between the status of a

3996

02:06:59,625 --> 02:07:00,458

pilot, which is pretty

3997

02:07:00,458 --> 02:07:01,291

high in the military.

3998

02:07:01,291 --> 02:07:03,750

I'm one of the highest and the status of,

3999

02:07:03,750 --> 02:07:06,000

say, academic physicists who say, yeah,

4000

02:07:06,000 --> 02:07:08,958

but balloons and and birds, because

4001

02:07:08,958 --> 02:07:10,166

here's the vector

4002

02:07:10,166 --> 02:07:10,916

calculation I give you. Right.

4003

02:07:11,416 --> 02:07:13,125

Because they're also pretty high status

4004

02:07:13,125 --> 02:07:15,666

in our world. And that's sort of a status

4005

02:07:15,666 --> 02:07:17,500

fight that's happening here. Right.

4006

02:07:17,500 --> 02:07:20,333

And so, you know, the essence of that is

4007

02:07:20,333 --> 02:07:23,333

they have to argue that you guys would

4008

02:07:23,333 --> 02:07:26,833

mistake a balloon or a bird for the stuff

4009

02:07:26,833 --> 02:07:27,708

you're seeing that that's

4010

02:07:27,708 --> 02:07:28,916

a plausible theory of you.

4011

02:07:29,833 --> 02:07:33,000

Right. Consistently over years. Right.

4012

02:07:33,000 --> 02:07:35,416

Because that's the the only other option

4013

02:07:35,416 --> 02:07:37,208

is to say this thing they've been dissing

4014

02:07:37,208 --> 02:07:40,041

for decades. They stake their whole

4015

02:07:40,041 --> 02:07:40,625

reputation of their

4016

02:07:40,625 --> 02:07:41,833

discipline on is wrong.

4017

02:07:41,833 --> 02:07:44,333

They made a wrong bet. They said, that's

4018

02:07:44,333 --> 02:07:47,041

so stupid that we can just ridicule it

4019

02:07:47,041 --> 02:07:49,708

and sort of have fun with that. And they

4020

02:07:49,708 --> 02:07:51,166

they decided to ridicule a thing that

4021

02:07:51,166 --> 02:07:52,958

turned out to be real.

4022

02:07:54,625 --> 02:07:55,875

That's going to hurt them. Right. That's

4023

02:07:55,875 --> 02:07:57,541

going to hurt their status in the world.

4024

02:07:57,541 --> 02:07:59,208

Like all these physicists who are so

4025

02:07:59,208 --> 02:08:00,916

arrogant about this, if the world comes

4026

02:08:00,916 --> 02:08:03,416

to believe that this was real, they're

4027

02:08:03,416 --> 02:08:05,375

going to be knocked down a peg.

4028

02:08:05,375 --> 02:08:07,458

Right. But they'll also be exposed to

4029

02:08:07,458 --> 02:08:10,000

incredible opportunity.

4030

02:08:10,000 --> 02:08:11,916

I would maybe not them personally, the

4031

02:08:11,916 --> 02:08:13,416

career itself. Well, there's this all

4032

02:08:13,416 --> 02:08:14,708

this physics to learn.

4033

02:08:14,708 --> 02:08:17,416

But in a party who's not going to try not

4034

02:08:17,416 --> 02:08:18,541

to show you. Well,

4035

02:08:18,541 --> 02:08:19,041

physics, physics aside.

4036

02:08:19,458 --> 02:08:22,041

But I mean, they're just if we have

4037

02:08:22,041 --> 02:08:24,291

identified an unexplored area, I mean,

4038

02:08:24,291 --> 02:08:26,375

it's I think a golden opportunity for us

4039

02:08:26,375 --> 02:08:29,333

to redevelop our ideas and our

4040

02:08:29,333 --> 02:08:30,958

considerations around what we can learn

4041

02:08:30,958 --> 02:08:32,666

and what might be relatively low hanging

4042

02:08:32,666 --> 02:08:33,583

fruit if we actually

4043

02:08:33,583 --> 02:08:34,916

apply ourselves as scale.

4044

02:08:36,000 --> 02:08:38,708

So I used to be in physics and computer

4045

02:08:38,708 --> 02:08:40,166

science and then I've been in social

4046

02:08:40,166 --> 02:08:42,041

science, political science and economics.

4047

02:08:42,041 --> 02:08:45,958

And a basic issue in academia is why is

4048

02:08:45,958 --> 02:08:47,708

there so much less agreement about social

4049

02:08:47,708 --> 02:08:48,916

science and the human sciences than there

4050

02:08:48,916 --> 02:08:50,458

are about the physical sciences?

4051

02:08:50,458 --> 02:08:53,250

And in my mind, you know, basically, even

4052

02:08:53,250 --> 02:08:54,958

though we've known less about the

4053

02:08:54,958 --> 02:08:56,291

physical world and the social world for a

4054

02:08:56,291 --> 02:08:57,791

long time, we've made more

4055

02:08:57,791 --> 02:08:58,708

progress in the physical world.

4056

02:08:58,708 --> 02:09:00,666

And we come to stronger conclusions. We

4057

02:09:00,666 --> 02:09:02,625

can make more devices in the physical

4058

02:09:02,625 --> 02:09:03,791

world than in the social world. So

4059

02:09:03,791 --> 02:09:04,291

something's different there.

4060
02:09:04,708 --> 02:09:07,333
And my best explanation is, well, we we

4061
02:09:07,333 --> 02:09:08,916
care about the social world. We have

4062
02:09:08,916 --> 02:09:09,916
opinions about the social world.

4063
02:09:09,916 --> 02:09:12,500
So we are more, you know, that's more of

4064
02:09:12,500 --> 02:09:13,333
an obstacle to just

4065
02:09:13,333 --> 02:09:14,166
figure out what's true.

4066
02:09:14,166 --> 02:09:15,250
If we there's a bunch of things we want

4067
02:09:15,250 --> 02:09:16,750
to believe, nobody really cares about the

4068
02:09:16,750 --> 02:09:19,083
physical world, honestly, emotionally.

4069
02:09:19,083 --> 02:09:20,666
So they're willing to believe all sorts

4070
02:09:20,666 --> 02:09:22,041
of strange things because, hey, if that's

4071
02:09:22,041 --> 02:09:22,833
where the evidence goes,

4072
02:09:22,833 --> 02:09:25,375

that's where it goes. Right.

4073

02:09:25,375 --> 02:09:28,125

But in now, see, this is the physical

4074

02:09:28,125 --> 02:09:29,708

world getting more into the social world.

4075

02:09:30,916 --> 02:09:32,583

Once physicists speak up about things

4076

02:09:32,583 --> 02:09:34,083

that people have opinions about, say,

4077

02:09:34,083 --> 02:09:37,416

global warming or nuclear weapons risk or

4078

02:09:37,416 --> 02:09:39,041

things like that, they've had a lot less

4079

02:09:39,041 --> 02:09:42,000

success using their authority to get

4080

02:09:42,000 --> 02:09:43,958

people to believe what they say, because

4081

02:09:43,958 --> 02:09:45,750

now they're in this world where people

4082

02:09:45,750 --> 02:09:47,333

care about the opinions.

4083

02:09:47,333 --> 02:09:48,333

And that would be true

4084

02:09:48,333 --> 02:09:51,208

here for UAPs. Right.

4085

02:09:51,208 --> 02:09:52,916

They would now face they can't just, you

4086

02:09:52,916 --> 02:09:54,208

know, use the usual way.

4087

02:09:54,208 --> 02:09:56,000

The world is just random with respect to

4088

02:09:56,000 --> 02:09:56,791

their experiments. Now

4089

02:09:56,791 --> 02:09:57,875

this world is not random.

4090

02:09:58,125 --> 02:10:00,000

The world is, you know, being

4091

02:10:00,000 --> 02:10:02,291

adversarial, trying to

4092

02:10:02,291 --> 02:10:03,375

make it hard for them. Right.

4093

02:10:03,375 --> 02:10:06,458

I mean, basically, if these people say,

4094

02:10:06,458 --> 02:10:09,583

say they saw what sending various, you

4095

02:10:09,583 --> 02:10:11,833

know, probes at them like a

4096

02:10:11,833 --> 02:10:12,833

neutrino way or something.

4097

02:10:12,833 --> 02:10:14,250

We were sending. Yeah. Say we were trying

4098

02:10:14,250 --> 02:10:16,500

to probe the UAP to detect them. Right.

4099

02:10:16,500 --> 02:10:18,291

Well, they would probably see these

4100

02:10:18,291 --> 02:10:19,833

things and they would think, OK, how do

4101

02:10:19,833 --> 02:10:21,541

we change our things to

4102

02:10:21,541 --> 02:10:23,541

fool them if we want to. Right.

4103

02:10:23,541 --> 02:10:24,166

This would be an

4104

02:10:24,166 --> 02:10:24,916

adversarial relationship.

4105

02:10:25,708 --> 02:10:27,625

We would be trying to figure out what the

4106

02:10:27,625 --> 02:10:29,125

stuff is made out of and they would be

4107

02:10:29,125 --> 02:10:32,458

trying to hide that. And who wins?

4108

02:10:32,458 --> 02:10:35,166

There's a there's a it's very similar in

4109

02:10:35,166 --> 02:10:38,166

a sense, dog fighting and dog fight.

4110
02:10:38,166 --> 02:10:41,166
You want to try to force your opponent to

4111
02:10:41,166 --> 02:10:45,000
make decisions. Sloppily, quickly.

4112
02:10:45,000 --> 02:10:46,666
Ideally, there's going to be a reaction

4113
02:10:46,666 --> 02:10:48,083
period. So even if you're and if you're

4114
02:10:48,083 --> 02:10:49,708
defensive, if the person is behind you,

4115
02:10:49,708 --> 02:10:51,750
you can still move your jet.

4116
02:10:51,750 --> 02:10:52,458
You're still going to be

4117
02:10:52,458 --> 02:10:53,916
able to make the first move.

4118
02:10:54,583 --> 02:10:56,583
So if you make the first move, you see

4119
02:10:56,583 --> 02:10:58,875
them first. Yeah, I'm talking. Yeah. So

4120
02:10:58,875 --> 02:11:00,416
I'm getting on it. You're right.

4121
02:11:00,416 --> 02:11:01,750
I'm talking to you first. They make the

4122
02:11:01,750 --> 02:11:02,958

first. So let's say you're right here.

4123

02:11:02,958 --> 02:11:04,166

Right. You're the guy in the back.

4124

02:11:04,166 --> 02:11:05,875

Yeah. Like this. This guy has to react.

4125

02:11:05,875 --> 02:11:07,458

There's a reaction time. In a sense, it

4126

02:11:07,458 --> 02:11:08,583

almost sounds like there's a

4127

02:11:08,583 --> 02:11:10,041

technology reaction time here.

4128

02:11:10,041 --> 02:11:11,666

Because if we could quantify that time

4129

02:11:11,666 --> 02:11:12,583

period, that tells us something. Right.

4130

02:11:12,583 --> 02:11:14,291

It's just I'm identifying places where

4131

02:11:14,291 --> 02:11:17,291

there's potential for additional data

4132

02:11:17,291 --> 02:11:18,791

generation. And that potentially is one.

4133

02:11:19,500 --> 02:11:22,833

So when the Catholic Church was king of

4134

02:11:22,833 --> 02:11:27,291

the world, right, it had

4135

02:11:27,291 --> 02:11:29,541

important theological claims.

4136

02:11:29,541 --> 02:11:32,666

And there wasn't that much support for

4137

02:11:32,666 --> 02:11:35,750

people trying to challenge the church or

4138

02:11:35,750 --> 02:11:36,916

question its claims. Right.

4139

02:11:37,791 --> 02:11:41,750

So if the world comes to accept UAPs as

4140

02:11:41,750 --> 02:11:43,333

really existing and really being at the

4141

02:11:43,333 --> 02:11:45,041

top of a social hierarchy and really

4142

02:11:45,041 --> 02:11:46,791

being the sort of people, the things we

4143

02:11:46,791 --> 02:11:50,375

should emulate and follow, I think there

4144

02:11:50,375 --> 02:11:52,333

might not be that much support for

4145

02:11:52,333 --> 02:11:56,333

attempts to challenge them or

4146

02:11:56,333 --> 02:12:00,291

probe their claims or whatever.

4147

02:12:00,291 --> 02:12:01,916

Of the group that's—

4148

02:12:02,500 --> 02:12:05,875

So the question is like, how acceptable

4149

02:12:05,875 --> 02:12:10,208

is it to like test the gods, to probe the

4150

02:12:10,208 --> 02:12:13,166

gods, to look for their weaknesses? Is

4151

02:12:13,166 --> 02:12:15,458

that a popular thing?

4152

02:12:15,458 --> 02:12:17,125

Probably not amongst the gods.

4153

02:12:17,125 --> 02:12:18,875

But among the supporters of the gods, the

4154

02:12:18,875 --> 02:12:19,958

people who worship the gods.

4155

02:12:19,958 --> 02:12:22,750

OK. So you see that interpersonal

4156

02:12:22,750 --> 02:12:23,916

conflict based off support.

4157

02:12:24,333 --> 02:12:27,500

Like, this is like if we—our world now

4158

02:12:27,500 --> 02:12:29,291

sees humans as top and when we're in

4159

02:12:29,291 --> 02:12:30,666

charge and we should question everything.

4160
02:12:30,666 --> 02:12:32,250
But if we go back to more of an ancient

4161
02:12:32,250 --> 02:12:33,833
world situation where there's the gods

4162
02:12:33,833 --> 02:12:37,166
above us and they rule over us and we are

4163
02:12:37,166 --> 02:12:39,291
below them and we are trying to align

4164
02:12:39,291 --> 02:12:41,291
ourselves with them to and to support

4165
02:12:41,291 --> 02:12:45,166
them, how much support will there be for

4166
02:12:45,166 --> 02:12:47,958
efforts that could be seen as somewhat

4167
02:12:47,958 --> 02:12:49,708
hostile or questioning?

4168
02:12:50,583 --> 02:12:53,750
There might be a limited period in this

4169
02:12:53,750 --> 02:12:54,708
early years where that

4170
02:12:54,708 --> 02:12:58,125
becomes possible before it doesn't.

4171
02:12:58,125 --> 02:13:01,375
That shows you the size of the change you

4172
02:13:01,375 --> 02:13:03,333

might be looking at here.

4173

02:13:03,333 --> 02:13:03,916

Right?

4174

02:13:04,625 --> 02:13:06,958

It's intimidating to think about the

4175

02:13:06,958 --> 02:13:08,250

societal changes that could happen

4176

02:13:08,250 --> 02:13:10,166

because it's almost as scary as a

4177

02:13:10,166 --> 02:13:12,916

realization in itself. And I would say

4178

02:13:12,916 --> 02:13:15,458

even probably more so, more challenging

4179

02:13:15,458 --> 02:13:17,500

to have an open conversation, especially

4180

02:13:17,500 --> 02:13:18,333

around people that don't

4181

02:13:18,333 --> 02:13:20,375

want to engage in this topic.

4182

02:13:20,375 --> 02:13:22,125

I mean, all of my—so say there really

4183

02:13:22,125 --> 02:13:24,708

was a secret military organization behind

4184

02:13:24,708 --> 02:13:26,041

the scenes that held this evidence and

4185
02:13:26,041 --> 02:13:27,166
they asked themselves, "Should we tell

4186
02:13:27,166 --> 02:13:28,208
the world or should

4187
02:13:28,208 --> 02:13:28,916
we keep this a secret?"

4188
02:13:29,791 --> 02:13:31,458
I could have almost seen them bringing up

4189
02:13:31,458 --> 02:13:33,458
this argument. Well, you know what? When

4190
02:13:33,458 --> 02:13:34,583
people don't believe in this, they're

4191
02:13:34,583 --> 02:13:36,583
more ambitious and they go farther and

4192
02:13:36,583 --> 02:13:37,916
they challenge things.

4193
02:13:37,916 --> 02:13:40,666
But once everybody believes that these

4194
02:13:40,666 --> 02:13:43,208
alien gods are really around, they're

4195
02:13:43,208 --> 02:13:45,416
going to back off on that.

4196
02:13:45,416 --> 02:13:48,583
Like, one thing we know about the aliens

4197
02:13:48,583 --> 02:13:50,958

is they're much more stable than us,

4198

02:13:50,958 --> 02:13:53,125

right? They are not eagerly growing and

4199

02:13:53,125 --> 02:13:54,166

changing over long

4200

02:13:54,166 --> 02:13:54,791

periods of time, right?

4201

02:13:55,125 --> 02:13:57,041

They've been around for 100 million years

4202

02:13:57,041 --> 02:13:59,333

and they are restrained with respect to

4203

02:13:59,333 --> 02:14:00,708

their impact on nature, right? That's

4204

02:14:00,708 --> 02:14:01,791

another thing we know about them.

4205

02:14:01,791 --> 02:14:03,875

They did not go wild colonizing the

4206

02:14:03,875 --> 02:14:04,583

universe. They're kind

4207

02:14:04,583 --> 02:14:06,875

of eco-freaks, really.

4208

02:14:06,875 --> 02:14:08,625

And that would raise the status in our

4209

02:14:08,625 --> 02:14:11,875

world of also more restrained impact on

4210
02:14:11,875 --> 02:14:14,416
neighbor, less importance of growth and

4211
02:14:14,416 --> 02:14:18,833
change, and even less of a sense of we're

4212
02:14:18,833 --> 02:14:20,333
important and we're at the top of things,

4213
02:14:20,333 --> 02:14:22,250
more of an acceptance of

4214
02:14:22,250 --> 02:14:22,916
an order of the universe.

4215
02:14:23,708 --> 02:14:26,041
These would all be predictable

4216
02:14:26,041 --> 02:14:27,541
consequences, right, of coming to accept

4217
02:14:27,541 --> 02:14:30,250
this. And you can almost imagine those

4218
02:14:30,250 --> 02:14:32,791
people going, "Not yet.

4219
02:14:32,791 --> 02:14:34,750
Let's hold off on that."

4220
02:14:34,750 --> 02:14:35,666
Can't imagine that, yeah.

4221
02:14:35,666 --> 02:14:37,416
And I can see the argument now. I can

4222
02:14:37,416 --> 02:14:38,583

even think, "Well, should I be talking

4223

02:14:38,583 --> 02:14:39,750

about this now? Maybe

4224

02:14:39,750 --> 02:14:40,833

I'm making a mistake."

4225

02:14:40,833 --> 02:14:43,000

This is actually a thing I've thought

4226

02:14:43,000 --> 02:14:45,333

about many of the topics. I just

4227

02:14:45,333 --> 02:14:47,416

eagerly—I find something neglected and

4228

02:14:47,416 --> 02:14:49,291

I go, "Ooh, all right. Important thing

4229

02:14:49,291 --> 02:14:49,833

neglected. I'm going to

4230

02:14:49,833 --> 02:14:50,916

jump in and figure this out."

4231

02:14:51,583 --> 02:14:52,625

And then you have to answer the question,

4232

02:14:52,625 --> 02:14:54,291

"Now you're responsible for telling the

4233

02:14:54,291 --> 02:14:55,333

world about this thing."

4234

02:14:55,333 --> 02:14:57,041

And sure, it's good to have an overall

4235

02:14:57,041 --> 02:14:58,541

presumption that more knowledge is good,

4236

02:14:58,541 --> 02:15:01,166

but it's not always going to be true.

4237

02:15:01,166 --> 02:15:02,833

Some areas more knowledge might be bad

4238

02:15:02,833 --> 02:15:04,250

and might be one of your areas,

4239

02:15:04,250 --> 02:15:06,291

especially since other people chose not

4240

02:15:06,291 --> 02:15:07,583

to do this. Maybe you're

4241

02:15:07,583 --> 02:15:10,708

defying their judgment here.

4242

02:15:10,708 --> 02:15:12,208

Maybe it's not so good if we all know

4243

02:15:12,208 --> 02:15:14,041

about this. I've got to

4244

02:15:14,041 --> 02:15:15,708

admit, that could be true.

4245

02:15:16,375 --> 02:15:17,875

I think whether that's true or not—or

4246

02:15:17,875 --> 02:15:19,500

at least I feel like whether that's true

4247

02:15:19,500 --> 02:15:22,416

or not, objectively, subjectively, as

4248

02:15:22,416 --> 02:15:23,000

humans, we're going to

4249

02:15:23,000 --> 02:15:25,083

want to know regardless.

4250

02:15:25,083 --> 02:15:26,500

Except there's all sorts of stuff we

4251

02:15:26,500 --> 02:15:28,458

don't look at. So that's the subject of

4252

02:15:28,458 --> 02:15:29,250

my second book in the Albright.

4253

02:15:29,250 --> 02:15:30,916

There's a whole bunch of stuff humanity

4254

02:15:30,916 --> 02:15:32,291

has known for a long time that we refuse

4255

02:15:32,291 --> 02:15:34,000

to look at, that we

4256

02:15:34,000 --> 02:15:36,333

consistently look away from.

4257

02:15:36,333 --> 02:15:37,625

That's fair.

4258

02:15:37,625 --> 02:15:39,541

And that says maybe there's a lot of

4259

02:15:39,541 --> 02:15:40,000

things we don't want to know.

4260

02:15:40,000 --> 02:15:42,541

I'm thinking maybe more about myself than

4261

02:15:42,541 --> 02:15:43,166

humanity in general. I

4262

02:15:43,166 --> 02:15:43,916

mean, I wouldn't need to know.

4263

02:15:44,250 --> 02:15:45,541

But you're right. There are a lot of

4264

02:15:45,541 --> 02:15:46,541

things that we just

4265

02:15:46,541 --> 02:15:48,583

simply close our eyes to.

4266

02:15:48,583 --> 02:15:50,208

Violence, there's plenty of horror in the

4267

02:15:50,208 --> 02:15:52,541

world. Just to make an obvious example. I

4268

02:15:52,541 --> 02:15:54,333

know your book has many others.

4269

02:15:54,333 --> 02:15:58,708

But yeah, it's definitely on the table.

4270

02:15:58,708 --> 02:16:00,375

Some of us are just

4271

02:16:00,375 --> 02:16:03,166

knee-jerkers, we've got to know, right?

4272

02:16:03,166 --> 02:16:06,208

And the world maybe doesn't always win

4273

02:16:06,208 --> 02:16:07,208

when people have got to

4274

02:16:07,208 --> 02:16:07,916

know or figure it out.

4275

02:16:08,291 --> 02:16:10,500

But hopefully on average it does. But I

4276

02:16:10,500 --> 02:16:11,916

just can't be very sure in this case it's

4277

02:16:11,916 --> 02:16:14,375

so great that we're all going to find out

4278

02:16:14,375 --> 02:16:16,916

we're the king's brother, not the king.

4279

02:16:16,916 --> 02:16:18,958

And we've got to have limited ambitions

4280

02:16:18,958 --> 02:16:21,625

here if we don't want to get squashed.

4281

02:16:21,625 --> 02:16:23,791

Not a pleasant story.

4282

02:16:26,541 --> 02:16:30,541

Every time you say the limit are not a

4283

02:16:30,541 --> 02:16:32,083

potential, but ambition. Ambition, I

4284

02:16:32,083 --> 02:16:34,458

always like, I want to attack that

4285

02:16:34,458 --> 02:16:36,416

somehow. But the only attack I

4286

02:16:36,416 --> 02:16:39,166

can think of is one of scale.

4287

02:16:39,166 --> 02:16:41,333

And a reassessment that perhaps the

4288

02:16:41,333 --> 02:16:44,250

ambitions that are so far, that are so

4289

02:16:44,250 --> 02:16:45,541

big that we would be limited from are

4290

02:16:45,541 --> 02:16:47,958

still so, they pale in our understanding

4291

02:16:47,958 --> 02:16:48,916

of what that could be.

4292

02:16:50,458 --> 02:16:53,041

Here's an example. We're talking about

4293

02:16:53,041 --> 02:16:54,583

expansion into space-time as if that's

4294

02:16:54,583 --> 02:16:55,750

the only potential way that

4295

02:16:55,750 --> 02:16:58,291

we could grow as a society.

4296

02:16:58,291 --> 02:17:00,708

What about the thought of expanding

4297

02:17:00,708 --> 02:17:02,583

intellectually through virtual reality

4298

02:17:02,583 --> 02:17:04,833

and things of that nature?

4299

02:17:04,833 --> 02:17:06,916

Or artificial intelligence, to say.

4300

02:17:07,791 --> 02:17:11,041

So the question they have to have asked

4301

02:17:11,041 --> 02:17:12,750

is if there's some kinds of progress we

4302

02:17:12,750 --> 02:17:14,583

could do on our computers down here they

4303

02:17:14,583 --> 02:17:17,250

can't see very easily, could that

4304

02:17:17,250 --> 02:17:19,625

threaten to greatly increase our ability

4305

02:17:19,625 --> 02:17:21,875

to violate their expansion rule?

4306

02:17:21,875 --> 02:17:23,750

Is there a connection there? Then they'd

4307

02:17:23,750 --> 02:17:24,916

have to be afraid, right?

4308

02:17:26,000 --> 02:17:27,708

Say we could have AIs that would figure

4309

02:17:27,708 --> 02:17:30,041

out how to make a cheap Starship that's

4310
02:17:30,041 --> 02:17:34,083
small and dark, and then we make it and

4311
02:17:34,083 --> 02:17:36,166
slip it away. And they never see anything

4312
02:17:36,166 --> 02:17:38,083
because it was all on AI

4313
02:17:38,083 --> 02:17:39,541
simulations they could never see.

4314
02:17:39,541 --> 02:17:41,583
Now they've got to worry. Once they see

4315
02:17:41,583 --> 02:17:43,000
us having a bunch of computers doing

4316
02:17:43,000 --> 02:17:45,958
stuff they can't see, well, maybe then we

4317
02:17:45,958 --> 02:17:47,333
could do this thing to slip away and

4318
02:17:47,333 --> 02:17:48,916
they've got to draw the line there.

4319
02:17:49,916 --> 02:17:51,750
But if they're not drawing the line there

4320
02:17:51,750 --> 02:17:52,916
they have to be pretty confident. You

4321
02:17:52,916 --> 02:17:54,791
know what? Do as much stuff as you want

4322
02:17:54,791 --> 02:17:56,625

on the computers. We don't care. We know

4323

02:17:56,625 --> 02:17:58,041

that that doesn't help you make a

4324

02:17:58,041 --> 02:17:58,625

Starship until you

4325

02:17:58,625 --> 02:18:00,958

actually start to make a Starship.

4326

02:18:00,958 --> 02:18:02,125

And that would be an interesting thing

4327

02:18:02,125 --> 02:18:04,708

they know about us, right? That there's

4328

02:18:04,708 --> 02:18:07,666

only so far AI can take us just doing

4329

02:18:07,666 --> 02:18:09,500

stuff on the computers we'll have to

4330

02:18:09,500 --> 02:18:10,166

build real stuff and

4331

02:18:10,166 --> 02:18:10,916

they could watch for that.

4332

02:18:11,666 --> 02:18:13,958

I wonder if you could use that as a

4333

02:18:13,958 --> 02:18:16,791

litmus test for the scope

4334

02:18:16,791 --> 02:18:19,583

of potential technology.

4335

02:18:19,583 --> 02:18:21,500

So we'd be trying to develop the kinds of

4336

02:18:21,500 --> 02:18:23,541

tech that they can't see so that we could

4337

02:18:23,541 --> 02:18:25,375

jump ahead farther than they see, right?

4338

02:18:25,375 --> 02:18:27,541

If we're trying to fool them

4339

02:18:27,541 --> 02:18:30,250

into finding a way to slip away.

4340

02:18:30,250 --> 02:18:32,083

How would we do that? Would we do that

4341

02:18:32,083 --> 02:18:35,916

by, you know, look over here but not over

4342

02:18:35,916 --> 02:18:38,000

there? Or is there a way

4343

02:18:38,000 --> 02:18:38,916

to really do that reliably?

4344

02:18:39,125 --> 02:18:42,208

I mean, one thing is with AI, we should

4345

02:18:42,208 --> 02:18:43,833

have, and what I call brain emulation,

4346

02:18:43,833 --> 02:18:45,416

which is subject to my first book, we

4347

02:18:45,416 --> 02:18:47,000

should eventually be able to make

4348

02:18:47,000 --> 02:18:49,000

computers that have human level

4349

02:18:49,000 --> 02:18:51,041

intelligence in them that if you sent off

4350

02:18:51,041 --> 02:18:53,333

a Starship with just those computers then

4351

02:18:53,333 --> 02:18:54,458

that would have us

4352

02:18:54,458 --> 02:18:56,166

basically and do stuff.

4353

02:18:56,166 --> 02:18:58,000

So then they have to know that as soon as

4354

02:18:58,000 --> 02:18:59,666

we have that ability we can send a much

4355

02:18:59,666 --> 02:19:01,625

smaller Starship that works, right? It

4356

02:19:01,625 --> 02:19:02,791

doesn't have to have a whole human and

4357

02:19:02,791 --> 02:19:04,541

all their biological stuff. It can just

4358

02:19:04,541 --> 02:19:05,041

have a computer on it.

4359

02:19:05,666 --> 02:19:07,583

So that means they have to be looking for

4360

02:19:07,583 --> 02:19:09,000

smaller Starships when

4361

02:19:09,000 --> 02:19:12,125

they're watching out for them.

4362

02:19:12,125 --> 02:19:14,666

But I guess they'd either have to be

4363

02:19:14,666 --> 02:19:16,000

watching carefully to see when we cross

4364

02:19:16,000 --> 02:19:18,583

that boundary of being able to make those

4365

02:19:18,583 --> 02:19:20,500

things or they'd have to realize they can

4366

02:19:20,500 --> 02:19:22,375

already detect even smaller Starships so

4367

02:19:22,375 --> 02:19:23,916

they're not very worried.

4368

02:19:23,916 --> 02:19:26,333

But I mean, honestly, like a Starship

4369

02:19:26,333 --> 02:19:27,666

would initially just be a rock that

4370

02:19:27,666 --> 02:19:29,000

drifted away and it could drift away

4371

02:19:29,000 --> 02:19:31,583

pretty slowly for 10,000 years before it

4372

02:19:31,583 --> 02:19:33,916

like speeds up and slips away, right?

4373

02:19:34,291 --> 02:19:36,250

So could they really see every

4374

02:19:36,250 --> 02:19:38,166

kilogram-sized rock in the solar system

4375

02:19:38,166 --> 02:19:39,625

that could escape the solar system?

4376

02:19:39,625 --> 02:19:40,750

And that seems like a

4377

02:19:40,750 --> 02:19:43,458

crazy, enormous monitoring.

4378

02:19:43,458 --> 02:19:46,375

Especially if you multiply that by all

4379

02:19:46,375 --> 02:19:47,250

the potential

4380

02:19:47,250 --> 02:19:49,000

civilizations that could be monitoring.

4381

02:19:49,000 --> 02:19:50,958

Right, but just the ability to do the

4382

02:19:50,958 --> 02:19:53,625

UIPs around us here is much less than

4383

02:19:53,625 --> 02:19:55,500

this ability to watch every

4384

02:19:55,500 --> 02:19:57,000

rock that could slip away.

4385

02:19:57,000 --> 02:19:58,708

That would seem to be an enormous

4386

02:19:58,708 --> 02:20:00,083

capacity they have to fill. So you'd

4387

02:20:00,083 --> 02:20:01,166

think, you know, maybe

4388

02:20:01,166 --> 02:20:01,916

they'd draw the line before that.

4389

02:20:02,625 --> 02:20:04,666

It's just one of those capabilities that

4390

02:20:04,666 --> 02:20:06,291

would, in my mind, lower the probability

4391

02:20:06,291 --> 02:20:07,541

of it being successful.

4392

02:20:07,541 --> 02:20:12,166

So if you are taking such a, you know,

4393

02:20:12,166 --> 02:20:13,458

one-off chance to say, hey, we have to

4394

02:20:13,458 --> 02:20:15,083

stop every possible rock that gets out of

4395

02:20:15,083 --> 02:20:16,666

here, you know, again, if you multiply

4396

02:20:16,666 --> 02:20:18,000

that across all the potential

4397

02:20:18,000 --> 02:20:19,125

civilizations, your probability of

4398

02:20:19,125 --> 02:20:20,000

success, I think, would be pretty small.

4399

02:20:20,000 --> 02:20:22,000

Well, remember, the most probable

4400

02:20:22,000 --> 02:20:23,250

scenario here, there's just us. There's

4401

02:20:23,250 --> 02:20:25,166

no other civilizations. There's just this

4402

02:20:25,166 --> 02:20:26,333

one other civilization.

4403

02:20:26,333 --> 02:20:26,916

Yeah, no problem.

4404

02:20:27,000 --> 02:20:28,166

There are pansy

4405

02:20:28,166 --> 02:20:29,666

siblings, and then there's just us, and

4406

02:20:29,666 --> 02:20:32,041

that's it. So we're the only one risking

4407

02:20:32,041 --> 02:20:33,291

breaking the rule so they can devote a

4408

02:20:33,291 --> 02:20:35,541

pretty large resources to us. But the

4409

02:20:35,541 --> 02:20:37,708

question is like, why should they wait

4410

02:20:37,708 --> 02:20:38,416

till we're much bigger

4411

02:20:38,416 --> 02:20:39,250

where it's more expensive?

4412

02:20:39,250 --> 02:20:40,833

Why not cut us off earlier if they're

4413

02:20:40,833 --> 02:20:42,625

going to cut us off? So, I mean, they

4414

02:20:42,625 --> 02:20:45,791

must be hoping, you see, that we decide

4415

02:20:45,791 --> 02:20:48,166

to become the civilization wide,

4416

02:20:48,166 --> 02:20:49,833

peaceful, eco-civilization

4417

02:20:49,833 --> 02:20:50,875

that doesn't want to expand.

4418

02:20:51,750 --> 02:20:54,125

And that'll happen soon, and then they

4419

02:20:54,125 --> 02:20:55,833

can, they don't have to shut us down

4420

02:20:55,833 --> 02:20:59,000

because we will do what they want without

4421

02:20:59,000 --> 02:21:00,541

us having them having to push for it,

4422

02:21:00,541 --> 02:21:02,333

right? So that seems to me like they must

4423

02:21:02,333 --> 02:21:04,166

have a belief about when that typically

4424

02:21:04,166 --> 02:21:06,416

happens in a civilization's evolution,

4425

02:21:06,416 --> 02:21:07,791

when it happened to them, say, and

4426

02:21:07,791 --> 02:21:10,083

they're wanting to wait until that either

4427

02:21:10,083 --> 02:21:10,916

happens or it doesn't.

4428

02:21:11,500 --> 02:21:13,125

After that point, if it doesn't happen,

4429

02:21:13,125 --> 02:21:14,333

then they got to step in and do

4430

02:21:14,333 --> 02:21:16,500

something. But they want to give us the

4431

02:21:16,500 --> 02:21:18,875

chance to do it first and actually at the

4432

02:21:18,875 --> 02:21:22,166

moment, we are at that tipping point. So,

4433

02:21:22,166 --> 02:21:25,125

I mean, it's important to notice, say a

4434

02:21:25,125 --> 02:21:27,541

century ago, most nations, the elites of

4435

02:21:27,541 --> 02:21:29,208

that nation were mainly identifying with

4436

02:21:29,208 --> 02:21:31,250

that nation, and they were thinking, how

4437

02:21:31,250 --> 02:21:31,916

can we promote our nation?

4438

02:21:32,500 --> 02:21:34,333

And today, elites in the world are mainly

4439

02:21:34,333 --> 02:21:35,625

identifying with the other elites of

4440

02:21:35,625 --> 02:21:38,083

their type in the world. And that's why

4441

02:21:38,083 --> 02:21:39,750

there's so much convergent regulation

4442

02:21:39,750 --> 02:21:41,958

around the world in nuclear energy and

4443

02:21:41,958 --> 02:21:44,208

medical ethics and all sorts of things,

4444

02:21:44,208 --> 02:21:46,541

which is why, and it's part of how our

4445

02:21:46,541 --> 02:21:49,000

civilization is no longer competing

4446

02:21:49,000 --> 02:21:49,916

fiercely internally.

4447

02:21:50,416 --> 02:21:52,166

We don't have as much national

4448

02:21:52,166 --> 02:21:55,291

competition. And we are halfway there to

4449

02:21:55,291 --> 02:21:57,125

this world where we all decide things

4450

02:21:57,125 --> 02:21:58,750

together. And we like that. And maybe we

4451

02:21:58,750 --> 02:22:00,291

don't want to end that by allowing

4452

02:22:00,291 --> 02:22:01,583

interstellar colonization.

4453

02:22:01,583 --> 02:22:02,666

So that would be the story.

4454

02:22:02,666 --> 02:22:04,000

Like a few centuries from now, we'll say

4455

02:22:04,000 --> 02:22:05,833

this long history of we solved global

4456

02:22:05,833 --> 02:22:07,458

warming, we solved inequality, we solved

4457

02:22:07,458 --> 02:22:09,000

overfishing. Look at all these things we

4458

02:22:09,000 --> 02:22:10,916

did by getting together and talking about

4459

02:22:10,916 --> 02:22:12,541

it together and having our elites agree

4460
02:22:12,541 --> 02:22:13,916
and just do it everywhere in the world.

4461
02:22:14,500 --> 02:22:16,541
And then at that moment, the chance of

4462
02:22:16,541 --> 02:22:18,208
sending off in a interstellar colony will

4463
02:22:18,208 --> 02:22:20,958
mean that ends forever. And the question

4464
02:22:20,958 --> 02:22:24,083
is, will we allow that to be sent off? Or

4465
02:22:24,083 --> 02:22:26,500
will we try to impose a regime forever

4466
02:22:26,500 --> 02:22:28,583
more of not allowing that, which is very

4467
02:22:28,583 --> 02:22:30,000
expensive and hard, but that would be the

4468
02:22:30,000 --> 02:22:31,125
cost of having this

4469
02:22:31,125 --> 02:22:31,916
integrated world community.

4470
02:22:32,333 --> 02:22:33,833
And I think a lot of people really like

4471
02:22:33,833 --> 02:22:37,041
that. That is, we aren't fighting each

4472
02:22:37,041 --> 02:22:39,000

other and competing and then evolving

4473

02:22:39,000 --> 02:22:40,583

into strangeness. We are going to stay

4474

02:22:40,583 --> 02:22:41,791

human. We're going to stay a community in

4475

02:22:41,791 --> 02:22:43,208

the world. When we have a big issue,

4476

02:22:43,208 --> 02:22:44,666

we'll all talk together, we'll decide

4477

02:22:44,666 --> 02:22:45,750

together, and then we'll do that thing.

4478

02:22:45,750 --> 02:22:47,625

And that will be humanity.

4479

02:22:47,625 --> 02:22:49,000

A lot of people, I think that's just a

4480

02:22:49,000 --> 02:22:50,583

very attractive vision.

4481

02:22:50,583 --> 02:22:53,000

Star Trek vs. Star Wars, if you will.

4482

02:22:53,000 --> 02:22:55,500

Yes, right. Star Trek is more. The world

4483

02:22:55,500 --> 02:22:57,541

community agreed together

4484

02:22:57,541 --> 02:22:59,875

and enforced its agreements.

4485

02:23:00,458 --> 02:23:01,666

Where do you think we're heading?

4486

02:23:02,500 --> 02:23:04,125

Well, you can just see a lot of emotional

4487

02:23:04,125 --> 02:23:06,333

energy in that direction. That is because

4488

02:23:06,333 --> 02:23:09,041

we're halfway there. Think of COVID. In

4489

02:23:09,041 --> 02:23:12,541

COVID, within a month or two, the usual

4490

02:23:12,541 --> 02:23:14,916

medical experts' advice was thrown out.

4491

02:23:14,916 --> 02:23:16,625

Elites around the whole world had a whole

4492

02:23:16,625 --> 02:23:18,875

new opinion about masks and travel

4493

02:23:18,875 --> 02:23:20,000

restrictions. And the

4494

02:23:20,000 --> 02:23:21,541

whole world did it together.

4495

02:23:22,750 --> 02:23:26,291

And basically nobody even did a challenge

4496

02:23:26,291 --> 02:23:28,500

trial, which would be violating the usual

4497

02:23:28,500 --> 02:23:30,083

medical ethics rules. And nobody in the

4498

02:23:30,083 --> 02:23:32,833

world allowed 100 people to just get

4499

02:23:32,833 --> 02:23:36,125

infected and see what happened.

4500

02:23:36,125 --> 02:23:38,666

That shows you how much we're already

4501

02:23:38,666 --> 02:23:40,916

halfway to a world government.

4502

02:23:41,250 --> 02:23:44,166

And people like that. At the moment, Iran

4503

02:23:44,166 --> 02:23:45,500

is the only country in the world that

4504

02:23:45,500 --> 02:23:47,916

allows organ sales of any sort. And it's

4505

02:23:47,916 --> 02:23:50,041

very much government managed, but medical

4506

02:23:50,041 --> 02:23:51,291

ethics conferences all the time, they're

4507

02:23:51,291 --> 02:23:51,916

talking about how they're

4508

02:23:51,916 --> 02:23:53,500

going to make Iran stop.

4509

02:23:53,500 --> 02:23:54,958

Being this deviation who's doing it

4510
02:23:54,958 --> 02:23:57,916
different. Because the whole idea is any

4511
02:23:57,916 --> 02:23:59,541
one country deviates from the world

4512
02:23:59,541 --> 02:24:01,083
consensus, and that's just a crisis that

4513
02:24:01,083 --> 02:24:01,916
needs to be addressed.

4514
02:24:02,583 --> 02:24:04,541
It's like in COVID, the biggest deviant

4515
02:24:04,541 --> 02:24:07,458
was maybe Sweden. And they were really

4516
02:24:07,458 --> 02:24:08,666
dumped on by the rest of the world. And

4517
02:24:08,666 --> 02:24:10,916
it turns out they did pretty well. That's

4518
02:24:10,916 --> 02:24:12,875
not talked about so much.

4519
02:24:12,875 --> 02:24:14,875
Because people really hated the idea that

4520
02:24:14,875 --> 02:24:16,166
anybody would deviate from

4521
02:24:16,166 --> 02:24:19,458
the consensus on what to do.

4522
02:24:19,458 --> 02:24:21,375

And that's where we are now. And you can

4523

02:24:21,375 --> 02:24:24,750

see that sort of an attitude. Once you

4524

02:24:24,750 --> 02:24:26,583

reach, say, several centuries of more of

4525

02:24:26,583 --> 02:24:29,208

that, and we succeed in many ways of

4526

02:24:29,208 --> 02:24:29,916

solving many problems that way.

4527

02:24:30,166 --> 02:24:33,291

And then the question is, should we allow

4528

02:24:33,291 --> 02:24:37,125

a colony to leave? After which point are

4529

02:24:37,125 --> 02:24:39,833

civilizations fragmented? It fights, and

4530

02:24:39,833 --> 02:24:40,625

it evolves into

4531

02:24:40,625 --> 02:24:42,916

strangeness. Do we want to allow that?

4532

02:24:42,916 --> 02:24:46,458

And you can imagine them saying no. But

4533

02:24:46,458 --> 02:24:48,000

the consequence of that is you don't

4534

02:24:48,000 --> 02:24:50,541

expand. And then you never become the

4535
02:24:50,541 --> 02:24:53,208
big, grabby civilization that goes off to

4536
02:24:53,208 --> 02:24:54,333
fill a million galaxies

4537
02:24:54,333 --> 02:24:55,708
with whatever you want.

4538
02:24:56,375 --> 02:24:58,708
But you stay a unified civilization. And

4539
02:24:58,708 --> 02:25:01,500
that's plausibly what, say, the UFO

4540
02:25:01,500 --> 02:25:04,125
aliens chose. That would be the theory

4541
02:25:04,125 --> 02:25:05,250
why they're here now, but the

4542
02:25:05,250 --> 02:25:07,291
universe around us is empty.

4543
02:25:07,291 --> 02:25:10,166
That's fascinating. Well, thank you for

4544
02:25:10,166 --> 02:25:12,916
fighting the consensus with me on this.

4545
02:25:14,000 --> 02:25:16,500
Well, I feel like I may have opinions,

4546
02:25:16,500 --> 02:25:17,750
but the most important thing about this

4547
02:25:17,750 --> 02:25:20,000

is just to get the basic conversation

4548

02:25:20,000 --> 02:25:21,625

going and getting people to see the

4549

02:25:21,625 --> 02:25:24,291

choices. I don't think my opinion should

4550

02:25:24,291 --> 02:25:26,333

influence where civilization goes, but I

4551

02:25:26,333 --> 02:25:28,458

want us to see our choices.

4552

02:25:28,458 --> 02:25:30,208

Exactly. We can't be blind to this, and

4553

02:25:30,208 --> 02:25:32,083

that's what we've been. So by having this

4554

02:25:32,083 --> 02:25:33,583

podcast, bringing folks on like yourself

4555

02:25:33,583 --> 02:25:34,875

that are willing to go out there and have

4556

02:25:34,875 --> 02:25:36,541

those conversations and think about it

4557

02:25:36,541 --> 02:25:38,791

logically, I think for me, that's one of

4558

02:25:38,791 --> 02:25:40,750

the avenues I've chosen to help move this

4559

02:25:40,750 --> 02:25:41,916

conversation forward. So thank you.

