

A man with short brown hair, wearing a white collared shirt, is speaking with an open mouth. He is in a room with wood-paneled walls. In the background, there is a framed picture of a person's face and a doorway with a blue garment hanging on it. The video is presented in a window-like frame with a grey border and a yellow title bar at the bottom.

Zoltan Istvan

the **EVERYTHING ELSE SHOW** LIVE STREAM

everything-else-show.com

1
00:00:00,079 --> 00:00:03,770
one-zero

2
00:00:24,120 --> 00:00:20,840
[Music]

3
00:00:26,550 --> 00:00:24,130
hello everyone its Martin Willis with

4
00:00:30,000 --> 00:00:26,560
the everything else show and welcome

5
00:00:31,590 --> 00:00:30,010
tonight's guest is fascinating talk to

6
00:00:33,450 --> 00:00:31,600
him I think was like a year ago first

7
00:00:35,910 --> 00:00:33,460
somewhere around there

8
00:00:37,260 --> 00:00:35,920
his name is Sultan Estevan he lives in

9
00:00:39,660 --> 00:00:37,270
my old stomping grounds out in

10
00:00:42,060 --> 00:00:39,670
California we actually just found out we

11
00:00:43,560 --> 00:00:42,070
only lived a few miles apart where he

12
00:00:46,890 --> 00:00:43,570
lives now was only a few miles away from

13
00:00:50,910 --> 00:00:46,900

where I was anyway and we're gonna be

14

00:00:54,930 --> 00:00:50,920

talking about all kinds of things a I am

15

00:00:57,329 --> 00:00:54,940

very interested in and all that so real

16

00:01:00,810 --> 00:00:57,339

excited to have the guests and Sultan

17

00:01:02,670 --> 00:01:00,820

how are you welcome to the show oh I'm

18

00:01:05,490 --> 00:01:02,680

doing good thank you for having ads can

19

00:01:07,800 --> 00:01:05,500

you tell us hang on just one second I

20

00:01:13,050 --> 00:01:07,810

have something I have to change right

21

00:01:15,690 --> 00:01:13,060

here let's see okay can you tell us what

22

00:01:18,060 --> 00:01:15,700

transhumanism is first of all that's

23

00:01:20,899 --> 00:01:18,070

very interesting to me and I want to I

24

00:01:23,850 --> 00:01:20,909

have a lot of questions about that

25

00:01:25,560 --> 00:01:23,860

absolutely so um transhumanism is a

26
00:01:27,480 --> 00:01:25,570
social movement of a few million people

27
00:01:30,389 --> 00:01:27,490
around the world may be larger now and

28
00:01:32,700 --> 00:01:30,399
we want to use science and technology to

29
00:01:36,840 --> 00:01:32,710
radically modify the human being and

30
00:01:38,310 --> 00:01:36,850
also to modify the human experience but

31
00:01:40,740 --> 00:01:38,320
it can be anything from exoskeleton

32
00:01:43,649 --> 00:01:40,750
suits to get disabled people out of a

33
00:01:45,300 --> 00:01:43,659
wheelchair it can be ships inside your

34
00:01:47,550 --> 00:01:45,310
brains that allow you to telepathically

35
00:01:49,620 --> 00:01:47,560
connect with somebody else it can be

36
00:01:51,330 --> 00:01:49,630
driverless cars if you want to go that

37
00:01:53,219 --> 00:01:51,340
far but usually it's really radical

38
00:01:55,080 --> 00:01:53,229

technology gene therapies that allow you

39

00:01:56,490 --> 00:01:55,090

to grow an extra arm or something of

40

00:01:59,340 --> 00:01:56,500

that nature that's what transhumanism

41

00:02:01,919 --> 00:01:59,350

real out and is there any of that that

42

00:02:04,169 --> 00:02:01,929

is is going on right now I know I

43

00:02:05,849 --> 00:02:04,179

watched a show where you said you had a

44

00:02:08,160 --> 00:02:05,859

chip in your finger I don't know if you

45

00:02:12,300 --> 00:02:08,170

still do but uh is there any of that

46

00:02:14,430 --> 00:02:12,310

that is in progress right now an

47

00:02:16,260 --> 00:02:14,440

enormous amount is in progress in fact

48

00:02:18,300 --> 00:02:16,270

every it seems like every two months

49

00:02:20,040 --> 00:02:18,310

this the amount of Technology out there

50

00:02:22,170 --> 00:02:20,050

doubles so I have a tiny chip and plan

51
00:02:23,820 --> 00:02:22,180
about the size of a grain of rice it's

52
00:02:27,180 --> 00:02:23,830
so small you can put it in with the

53
00:02:28,710 --> 00:02:27,190
syringe and it opens my front door you

54
00:02:31,350 --> 00:02:28,720
can do things like give business cards

55
00:02:31,890 --> 00:02:31,360
just by touching somebody's phone in

56
00:02:33,390 --> 00:02:31,900
fact my

57
00:02:35,460 --> 00:02:33,400
sends out a text message because I was

58
00:02:38,309 --> 00:02:35,470
running in 2016 as a presidential

59
00:02:40,110 --> 00:02:38,319
candidate mine said win in 2016 so if I

60
00:02:41,670 --> 00:02:40,120
enter a room and someone got close

61
00:02:43,319 --> 00:02:41,680
enough to me their phone will get an

62
00:02:44,759 --> 00:02:43,329
automatic text message they of course

63
00:02:46,649 --> 00:02:44,769

have to have the right software that

64

00:02:48,479 --> 00:02:46,659

said win in 2016

65

00:02:50,250 --> 00:02:48,489

um but you know that that's just the

66

00:02:51,780 --> 00:02:50,260

tiny type of technology to stop they're

67

00:02:54,270 --> 00:02:51,790

really working on this for example

68

00:02:56,250 --> 00:02:54,280

genetic editing um Time magazine you

69

00:02:56,789 --> 00:02:56,260

know even though Donald Trump won Person

70

00:02:59,460 --> 00:02:56,799

of the Year

71

00:03:01,050 --> 00:02:59,470

but the top five was genetic editing

72

00:03:02,610 --> 00:03:01,060

this last year and that's because

73

00:03:06,660 --> 00:03:02,620

they're already you know Chinese are

74

00:03:08,369 --> 00:03:06,670

working on modifying the embryo you know

75

00:03:09,720 --> 00:03:08,379

and trying to augment intelligence with

76

00:03:11,160 --> 00:03:09,730

genetic editing we also have the

77

00:03:13,460 --> 00:03:11,170

possibility to maybe eliminate malaria

78

00:03:15,869 --> 00:03:13,470

because we can genetically edit it some

79

00:03:17,399 --> 00:03:15,879

mosquitoes and then they can kind of

80

00:03:18,599 --> 00:03:17,409

spread and then all of sudden you will

81

00:03:21,059 --> 00:03:18,609

only have a certain type of mosquito

82

00:03:22,920 --> 00:03:21,069

that doesn't breed malaria so these

83

00:03:24,839 --> 00:03:22,930

technologies already exist and of course

84

00:03:26,460 --> 00:03:24,849

of course we have artificial cars and

85

00:03:27,899 --> 00:03:26,470

you know about 1/2 million people around

86

00:03:30,629 --> 00:03:27,909

the world already have some sort of

87

00:03:33,240 --> 00:03:30,639

brain implant mostly it's for disability

88

00:03:35,160 --> 00:03:33,250

to help with Parkinson's Alzheimer's a

89

00:03:37,020 --> 00:03:35,170

lot of them are cochlear implants you

90

00:03:39,330 --> 00:03:37,030

know deafness doesn't really exist

91

00:03:41,699 --> 00:03:39,340

anymore if you have a technology we can

92

00:03:43,890 --> 00:03:41,709

give you a hearing aid that now connects

93

00:03:45,569 --> 00:03:43,900

to your hearing nerve and basically here

94

00:03:47,159 --> 00:03:45,579

you know what we hear so all these

95

00:03:48,930 --> 00:03:47,169

transhumans technologies are basically

96

00:03:51,240 --> 00:03:48,940

already here the real question is one of

97

00:03:53,129 --> 00:03:51,250

the next ones coming like AI and five or

98

00:03:56,220 --> 00:03:53,139

ten yeah the one thing that that scares

99

00:04:00,509 --> 00:03:56,230

me about when you mentioned genetic

100

00:04:02,099 --> 00:04:00,519

changes and higher intelligence and that

101

00:04:06,479 --> 00:04:02,109

also is something that scares me a

102

00:04:09,839 --> 00:04:06,489

little bit about IAI as well as you know

103

00:04:11,309 --> 00:04:09,849

as as history has shown us you know when

104

00:04:13,490 --> 00:04:11,319

there's a higher intelligence that

105

00:04:17,009 --> 00:04:13,500

higher intelligence usually takes over

106

00:04:20,189 --> 00:04:17,019

you know is there is there any is there

107

00:04:25,550 --> 00:04:20,199

any type of way to regulate something

108

00:04:30,839 --> 00:04:28,560

yeah well yes of course you can regulate

109

00:04:34,620 --> 00:04:30,849

it and a lot of people are calling for

110

00:04:36,300 --> 00:04:34,630

regulations however a lot of this

111

00:04:38,490 --> 00:04:36,310

technology like with artificial

112

00:04:41,339 --> 00:04:38,500

intelligence yes I agree with you like

113

00:04:43,469 --> 00:04:41,349

I'm not sure I want an intelligence that

114

00:04:45,239 --> 00:04:43,479

as smart as a human being or far smarter

115

00:04:47,369 --> 00:04:45,249

than a human being on planet Earth

116

00:04:49,499 --> 00:04:47,379

sure there's a reason that we want that

117

00:04:51,149 --> 00:04:49,509

the same thing with genetic editing yes

118

00:04:52,919 --> 00:04:51,159

I would like to augment the intelligence

119

00:04:54,779 --> 00:04:52,929

of my children but I don't want my

120

00:04:57,209 --> 00:04:54,789

neighbor having a child that's twice as

121

00:04:58,919 --> 00:04:57,219

smart as my kid biologically or just

122

00:05:01,619 --> 00:04:58,929

genetically all of a sudden too much

123

00:05:02,749 --> 00:05:01,629

inequality can occur so surely some of

124

00:05:04,949 --> 00:05:02,759

this is going to need a lot of

125

00:05:06,749 --> 00:05:04,959

consideration you know a lot of my

126

00:05:08,069 --> 00:05:06,759

campaigning has been based on as a

127

00:05:09,689 --> 00:05:08,079

political candidate it's been based on

128

00:05:12,599 --> 00:05:09,699

just trying to spread a message that a

129

00:05:14,429 --> 00:05:12,609

lot of the you know the politicians who

130

00:05:16,169 --> 00:05:14,439

have been elected won't touch these

131

00:05:17,969 --> 00:05:16,179

subjects because they're so thorny

132

00:05:19,649 --> 00:05:17,979

they're so challenging and everybody

133

00:05:22,409 --> 00:05:19,659

gets like oh my god the world's gonna

134

00:05:25,139 --> 00:05:22,419

end in in many ways it's true humanity

135

00:05:27,269 --> 00:05:25,149

might end either through artificial

136

00:05:28,949 --> 00:05:27,279

intelligence or this genetic editing

137

00:05:32,069 --> 00:05:28,959

because you know we're entering sort of

138

00:05:33,539 --> 00:05:32,079

the Star Wars phase where is it is being

139

00:05:36,029 --> 00:05:33,549

a biological human being the most

140

00:05:38,219 --> 00:05:36,039

functional type of entity that should be

141

00:05:40,319 --> 00:05:38,229

on planet earth and what if we can make

142

00:05:42,239 --> 00:05:40,329

ourselves superior to that and these are

143

00:05:45,239 --> 00:05:42,249

very very thorny questions I don't have

144

00:05:46,739 --> 00:05:45,249

all the answers but I try to spread the

145

00:05:49,199 --> 00:05:46,749

questions because I think asking the

146

00:05:50,699 --> 00:05:49,209

questions is very important well yes you

147

00:05:52,979 --> 00:05:50,709

know another thing it kind of reminds me

148

00:05:56,999 --> 00:05:52,989

a little bit of you know juicing in

149

00:05:59,759 --> 00:05:57,009

athletes in a way because you know they

150

00:06:02,100 --> 00:05:59,769

have an upper advantage you know I said

151

00:06:05,009 --> 00:06:02,110

jokingly before they should make it

152

00:06:07,529 --> 00:06:05,019

mandatory that everybody has to take you

153

00:06:09,149 --> 00:06:07,539

know steroids or whatever it is that you

154

00:06:12,209 --> 00:06:09,159

know so it's an even playing field again

155

00:06:15,779 --> 00:06:12,219

so but it's kind of you know in a way

156

00:06:17,639 --> 00:06:15,789

it's a little bit similar that you know

157

00:06:20,189 --> 00:06:17,649

if someone has an upper edge over the

158

00:06:23,850 --> 00:06:20,199

other one and those are going to be only

159

00:06:25,169 --> 00:06:23,860

the high wealthy people aren't there

160

00:06:30,299 --> 00:06:25,179

yeah I mean that's way it looks right

161

00:06:32,069 --> 00:06:30,309

now well and and that is the truth and

162

00:06:34,139 --> 00:06:32,079

that is why I have said again and again

163

00:06:36,269 --> 00:06:34,149

whatever campaign I'm running is that

164

00:06:37,979 --> 00:06:36,279

I'm not part of that 1% I don't belong

165

00:06:41,249 --> 00:06:37,989

to that and therefore I want to protect

166

00:06:42,329 --> 00:06:41,259

myself my family my parents you know my

167

00:06:45,269 --> 00:06:42,339

mother and all these other things

168

00:06:47,489 --> 00:06:45,279

because in my community because we don't

169

00:06:50,100 --> 00:06:47,499

want the 1% to take artificial

170

00:06:51,509 --> 00:06:50,110

intelligence and become super great you

171

00:06:53,219 --> 00:06:51,519

know whatever transhumanists entities

172

00:06:55,409 --> 00:06:53,229

and nor do we want them to increase

173

00:06:56,850 --> 00:06:55,419

their intelligence so it's 5 times ours

174

00:06:58,300 --> 00:06:56,860

I mean the rich already have some very

175

00:07:00,640 --> 00:06:58,310

distinctive advantages of

176

00:07:02,020 --> 00:07:00,650

they live 25% longer lives they better

177

00:07:04,390 --> 00:07:02,030

medical stuff whatnot

178

00:07:06,490 --> 00:07:04,400

so you know a lot of my job has been

179

00:07:09,010 --> 00:07:06,500

trying to say how as a society can we

180

00:07:12,010 --> 00:07:09,020

make sure that everybody has access to

181

00:07:13,930 --> 00:07:12,020

these technologies and that way as a

182

00:07:16,420 --> 00:07:13,940

society we can move forward because I do

183

00:07:18,820 --> 00:07:16,430

love the technologies but I would hate

184

00:07:20,200 --> 00:07:18,830

it if I wasn't this guy out there on the

185

00:07:22,030 --> 00:07:20,210

mountaintop calling for this trans

186

00:07:25,180 --> 00:07:22,040

future and all sudden becomes a

187

00:07:27,370 --> 00:07:25,190

dystopian future and now only a certain

188

00:07:28,810 --> 00:07:27,380

segment of the population has it we must

189

00:07:30,730 --> 00:07:28,820

tread very carefully to make sure that

190

00:07:32,470 --> 00:07:30,740

everybody has access to all these

191

00:07:36,190 --> 00:07:32,480

radical technologies coming out right

192

00:07:40,120 --> 00:07:36,200

right what about I've heard I've heard

193

00:07:42,040 --> 00:07:40,130

it said that the first person to live to

194

00:07:44,440 --> 00:07:42,050

say a thousand years old has been born

195

00:07:46,180 --> 00:07:44,450

already you know I mean that's just that

196

00:07:49,150 --> 00:07:46,190

I think that's someone else else in

197

00:07:50,920 --> 00:07:49,160

California working on longevity which I

198

00:07:51,940 --> 00:07:50,930

don't know if I really agree with that

199

00:07:56,020 --> 00:07:51,950

statement

200

00:08:00,670 --> 00:07:56,030

or not but I mean how long could a human

201

00:08:03,010 --> 00:08:00,680

body live through say stem cell or say

202

00:08:05,380 --> 00:08:03,020

bionic I heard you say in interviews if

203

00:08:07,570 --> 00:08:05,390

you had a bionic heart or something like

204

00:08:09,670 --> 00:08:07,580

that you could live forever virtually or

205

00:08:12,130 --> 00:08:09,680

whatever it is you said I'm not I don't

206

00:08:14,860 --> 00:08:12,140

want to misquote you but I mean if you

207

00:08:16,300 --> 00:08:14,870

could do something with the organs it's

208

00:08:18,790 --> 00:08:16,310

the brain you know that you really

209

00:08:20,680 --> 00:08:18,800

wouldn't be able to do anything with but

210

00:08:26,020 --> 00:08:20,690

how long do you think a human body could

211

00:08:28,180 --> 00:08:26,030

live if it had outside help well in my

212

00:08:30,610 --> 00:08:28,190

opinion and you know and I'm an optimist

213

00:08:33,700 --> 00:08:30,620

we're on the cutting edge of the next 10

214

00:08:35,470 --> 00:08:33,710

to 15 years segments of the population

215

00:08:37,930 --> 00:08:35,480

are gonna reach this kind of escape

216

00:08:40,660 --> 00:08:37,940

velocity where all the Sun we can now

217

00:08:43,270 --> 00:08:40,670

live in much much longer at least to 120

218

00:08:44,950 --> 00:08:43,280

to 150 because of things like 3d printed

219

00:08:47,230 --> 00:08:44,960

organs or stem cell technology or

220

00:08:48,820 --> 00:08:47,240

genetic editing or even just Bionic

221

00:08:50,950 --> 00:08:48,830

hearts and Bionic organs you know most

222

00:08:52,630 --> 00:08:50,960

people die from Oregon failure so if you

223

00:08:54,550 --> 00:08:52,640

can stop that fit that Oregon from

224

00:08:57,010 --> 00:08:54,560

failing either through a not you know a

225

00:08:58,990 --> 00:08:57,020

camp pancreas that doesn't have cancer

226

00:09:00,700 --> 00:08:59,000

because it's robotic or a heart that

227

00:09:01,960 --> 00:09:00,710

just keeps pumping through all the the

228

00:09:04,120 --> 00:09:01,970

blood vessels even though a lot of them

229

00:09:06,040 --> 00:09:04,130

are kind of sort of clogged um then you

230

00:09:07,300 --> 00:09:06,050

can keep people alive and then it's

231

00:09:09,430 --> 00:09:07,310

really just a matter of keeping the

232

00:09:11,050 --> 00:09:09,440

brain alive and so the body is going to

233

00:09:11,769 --> 00:09:11,060

be quite easy I say in 10 to 15 years

234

00:09:13,809 --> 00:09:11,779

we're gonna

235

00:09:16,629 --> 00:09:13,819

either with the body the question is how

236

00:09:18,069 --> 00:09:16,639

do we keep our minds from you know

237

00:09:19,809 --> 00:09:18,079

decaying and that's where a lot of stem

238

00:09:21,790 --> 00:09:19,819

cell technology and especially genetic

239

00:09:23,470 --> 00:09:21,800

editing comes into the picture and I

240

00:09:25,989 --> 00:09:23,480

have no doubt in my mind that we're

241

00:09:28,360 --> 00:09:25,999

going to be able to not only stop aging

242

00:09:30,189 --> 00:09:28,370

but reverse aging probably within 15 to

243

00:09:32,679 --> 00:09:30,199

20 years when you say the first person's

244

00:09:34,420 --> 00:09:32,689

built for a you know is gonna live a

245

00:09:37,420 --> 00:09:34,430

thousand years is already born I would

246

00:09:40,179 --> 00:09:37,430

wager all my limbs I could wager all my

247

00:09:42,670 --> 00:09:40,189

money I would wager everything on that I

248

00:09:45,249 --> 00:09:42,680

mean I there's no question in my mind

249

00:09:47,290 --> 00:09:45,259

that anyone under 50 barring a major

250

00:09:49,780 --> 00:09:47,300

tragedy or barring something like cancer

251

00:09:52,090 --> 00:09:49,790

in the next 10 years is going to have

252

00:09:53,439 --> 00:09:52,100

that opportunity to live that long again

253

00:09:55,389 --> 00:09:53,449

the bigger question is actually the

254

00:09:58,749 --> 00:09:55,399

social one which is will governments

255

00:10:00,819 --> 00:09:58,759

allow it will the rich allow it we have

256

00:10:02,379 --> 00:10:00,829

an overpopulation problem then which we

257

00:10:04,660 --> 00:10:02,389

already do these are kinds of issues

258

00:10:06,280 --> 00:10:04,670

that are the bigger grand the issues but

259

00:10:08,679 --> 00:10:06,290

I think the science is going to be there

260

00:10:10,660 --> 00:10:08,689

you can see there in just this last two

261

00:10:11,889 --> 00:10:10,670

years I mean finally hundreds and

262

00:10:13,989 --> 00:10:11,899

hundreds of millions of dollars have

263

00:10:16,179 --> 00:10:13,999

started pouring into this life extension

264

00:10:17,679 --> 00:10:16,189

field and it's not just one way you're

265

00:10:19,299 --> 00:10:17,689

not going to make the human being live

266

00:10:21,819 --> 00:10:19,309

longer through a pill it's going to be

267

00:10:24,160 --> 00:10:21,829

through a multitude of factors Bionic

268

00:10:25,389 --> 00:10:24,170

organs reversing aging through genetic

269

00:10:27,879 --> 00:10:25,399

therapies which people are already

270

00:10:29,860 --> 00:10:27,889

trying you know stem cell injections

271

00:10:33,429 --> 00:10:29,870

which now are commonplace for a huge

272

00:10:35,350 --> 00:10:33,439

assortment analogies so I mean we we are

273

00:10:37,360 --> 00:10:35,360

on it we just got to keep out of or any

274

00:10:39,100 --> 00:10:37,370

world wars make sure the earth keeps

275

00:10:40,900 --> 00:10:39,110

this trajectory economically and

276

00:10:42,670 --> 00:10:40,910

probably in ten to fifteen years you

277

00:10:44,740 --> 00:10:42,680

will be hearing so much about the this

278

00:10:47,439 --> 00:10:44,750

life extension or immortality movement

279

00:10:50,230 --> 00:10:47,449

because it'll be very rare that people

280

00:10:51,610 --> 00:10:50,240

die if we have the opportunity to use

281

00:10:53,799 --> 00:10:51,620

things like genetic editing to

282

00:10:55,329 --> 00:10:53,809

completely rewrite our code I mean

283

00:10:57,249 --> 00:10:55,339

people die a third of everybody you know

284

00:10:58,660 --> 00:10:57,259

dies from heart disease so it makes

285

00:11:00,970 --> 00:10:58,670

perfect sense to spend a trillion

286

00:11:02,559 --> 00:11:00,980

dollars to develop an artificial heart

287

00:11:04,629 --> 00:11:02,569

which some companies are already doing

288

00:11:05,889 --> 00:11:04,639

now you know and of course then the

289

00:11:08,470 --> 00:11:05,899

third of people don't die from heart

290

00:11:10,090 --> 00:11:08,480

disease now you know so the bigger

291

00:11:12,549 --> 00:11:10,100

question is how do we get our brain to

292

00:11:14,829 --> 00:11:12,559

live indefinitely because at some point

293

00:11:16,600 --> 00:11:14,839

the biological if we can't renew it

294

00:11:18,160 --> 00:11:16,610

through stem cells or something then it

295

00:11:19,480 --> 00:11:18,170

gets old we'll get Alzheimer's and

296

00:11:21,460 --> 00:11:19,490

nobody wants to live forever with

297

00:11:24,400 --> 00:11:21,470

Parkinson's or something like that and

298

00:11:25,750 --> 00:11:24,410

that's we're uploading our mind or with

299

00:11:27,070 --> 00:11:25,760

things like what Alan musk is doing

300

00:11:29,020 --> 00:11:27,080

with the neural lace where you connect

301
00:11:30,940 --> 00:11:29,030
directly to the cloud and that will also

302
00:11:31,300 --> 00:11:30,950
come but that'll be more like 20 or 30

303
00:11:33,880 --> 00:11:31,310
miles

304
00:11:35,140 --> 00:11:33,890
Wow you know you it's funny you

305
00:11:37,870 --> 00:11:35,150
mentioned the government you know I

306
00:11:40,290 --> 00:11:37,880
thought of that too and and part of the

307
00:11:43,360 --> 00:11:40,300
reason I thought of that is for instance

308
00:11:46,480 --> 00:11:43,370
social security people live say a

309
00:11:48,490 --> 00:11:46,490
hundred years or on average now how are

310
00:11:51,250 --> 00:11:48,500
we going to support that you know is the

311
00:11:53,830 --> 00:11:51,260
working age you know everything could be

312
00:11:56,380 --> 00:11:53,840
affected socially like the the age of

313
00:11:57,910 --> 00:11:56,390

retirement could be extended but then

314

00:12:00,520 --> 00:11:57,920

there'll be people left behind that

315

00:12:02,920 --> 00:12:00,530

won't be evil you know able to afford it

316

00:12:04,780 --> 00:12:02,930

or whatever you know I mean so there's

317

00:12:07,660 --> 00:12:04,790

all that you know about those

318

00:12:11,650 --> 00:12:07,670

implications as far as money goes in

319

00:12:13,270 --> 00:12:11,660

longevity well and you know I mean

320

00:12:14,950 --> 00:12:13,280

that's one of the things that I'm trying

321

00:12:17,410 --> 00:12:14,960

to do is not just tell people how cool

322

00:12:19,420 --> 00:12:17,420

the technology is become up a social

323

00:12:21,430 --> 00:12:19,430

solutions because you know it's not it's

324

00:12:23,170 --> 00:12:21,440

it's nothing just like what kind of job

325

00:12:24,910 --> 00:12:23,180

you have it's like are people gonna get

326

00:12:27,160 --> 00:12:24,920

married if they're gonna live a thousand

327

00:12:28,450 --> 00:12:27,170

years are they gonna have children if

328

00:12:29,740 --> 00:12:28,460

they're gonna you know with what they

329

00:12:32,380 --> 00:12:29,750

have chilled in the first five hundred

330

00:12:34,300 --> 00:12:32,390

years like it changes our institutions

331

00:12:35,590 --> 00:12:34,310

dramatically but I think the one thing

332

00:12:37,480 --> 00:12:35,600

that is definitely gonna happen and

333

00:12:38,950 --> 00:12:37,490

you're already seeing it is like you

334

00:12:40,990 --> 00:12:38,960

know driverless trucks are gonna wipe

335

00:12:42,760 --> 00:12:41,000

out all the trucking industry there's

336

00:12:44,380 --> 00:12:42,770

four million truckers in America what

337

00:12:45,550 --> 00:12:44,390

are these people gonna do you know and

338

00:12:47,350 --> 00:12:45,560

then what are they gonna do we have

339

00:12:48,550 --> 00:12:47,360

robot waitresses or waiters you know

340

00:12:50,730 --> 00:12:48,560

what are we gonna do when all the banks

341

00:12:53,380 --> 00:12:50,740

become and this is already happening

342

00:12:55,180 --> 00:12:53,390

so no in my opinion probably within

343

00:12:58,360 --> 00:12:55,190

fifteen years seventy five percent of

344

00:13:00,790 --> 00:12:58,370

jobs will be replaced by technology or

345

00:13:02,050 --> 00:13:00,800

robots or AI so at some point the

346

00:13:03,520 --> 00:13:02,060

government has to step in because it's

347

00:13:05,200 --> 00:13:03,530

not just social security you can't just

348

00:13:06,940 --> 00:13:05,210

their social security is definitely not

349

00:13:09,490 --> 00:13:06,950

gonna make it the real question is do we

350

00:13:11,290 --> 00:13:09,500

provide a basic income or do robots pay

351
00:13:12,940 --> 00:13:11,300
taxes or whatever you know all these

352
00:13:16,000 --> 00:13:12,950
different types of scenarios I support a

353
00:13:17,710 --> 00:13:16,010
basic income in my campaign but I also

354
00:13:20,440 --> 00:13:17,720
realize that you know I don't believe

355
00:13:23,440 --> 00:13:20,450
capitalism can survive in the form it is

356
00:13:25,600 --> 00:13:23,450
when just a group of conglomerates owned

357
00:13:27,190 --> 00:13:25,610
all the robots that do all the jobs and

358
00:13:28,690 --> 00:13:27,200
so we have to make something so there's

359
00:13:30,400 --> 00:13:28,700
no revolution because there will be a

360
00:13:32,920 --> 00:13:30,410
revolution this is why I said the main I

361
00:13:34,870 --> 00:13:32,930
think main factor going against

362
00:13:36,940 --> 00:13:34,880
transhumanism is do governments around

363
00:13:39,720 --> 00:13:36,950

the world allowed transhumanism to

364

00:13:43,740 --> 00:13:39,730

continue because it does mean Lee

365

00:13:45,680 --> 00:13:43,750

our historic institutions you know like

366

00:13:47,880 --> 00:13:45,690

marriage like having children like

367

00:13:49,500 --> 00:13:47,890

working I mean we're gonna have to get

368

00:13:51,810 --> 00:13:49,510

used to a very new type of American

369

00:13:53,790 --> 00:13:51,820

dream if we have bodies I live forever

370

00:13:55,530 --> 00:13:53,800

and we also don't have to work because

371

00:13:56,760 --> 00:13:55,540

there are no jobs I mean this is very

372

00:13:59,880 --> 00:13:56,770

different different world

373

00:14:01,800 --> 00:13:59,890

and along that along that same way that

374

00:14:03,960 --> 00:14:01,810

same line of what you're talking about

375

00:14:07,800 --> 00:14:03,970

here what about say third world

376

00:14:10,140 --> 00:14:07,810

countries how can they how can they

377

00:14:14,040 --> 00:14:10,150

possibly survive through something like

378

00:14:16,200 --> 00:14:14,050

this well you know the good news is that

379

00:14:18,060 --> 00:14:16,210

as technology comes out it comes out

380

00:14:21,570 --> 00:14:18,070

even more quickly than it ever did

381

00:14:26,010 --> 00:14:21,580

before you know that at this point many

382

00:14:27,990 --> 00:14:26,020

third world countries in Africa don't

383

00:14:29,760 --> 00:14:28,000

have clean water but almost everybody

384

00:14:33,600 --> 00:14:29,770

even if you live in a mud hut has some

385

00:14:35,250 --> 00:14:33,610

type of cell phone and that's been one

386

00:14:37,800 --> 00:14:35,260

of the interesting developments about

387

00:14:39,600 --> 00:14:37,810

capitalism is that a lot of people are

388

00:14:42,570 --> 00:14:39,610

still very hungry but they might have

389

00:14:44,100 --> 00:14:42,580

access to a kind of phone in fact I have

390

00:14:45,390 --> 00:14:44,110

this little phone my three-year-old

391

00:14:46,530 --> 00:14:45,400

daughter carries it around and just

392

00:14:48,450 --> 00:14:46,540

plays where that doesn't work anymore

393

00:14:51,240 --> 00:14:48,460

but it's amazing that this kind of

394

00:14:53,040 --> 00:14:51,250

technology you know is available

395

00:14:54,810 --> 00:14:53,050

probably still does work and we throw

396

00:14:57,210 --> 00:14:54,820

that stuff away now because it's it's

397

00:14:59,820 --> 00:14:57,220

not even worth pennies and yet everybody

398

00:15:01,890 --> 00:14:59,830

around the world has it but not

399

00:15:03,720 --> 00:15:01,900

everybody has food or clean water so you

400

00:15:05,910 --> 00:15:03,730

know how I wrote I'm still focused more

401
00:15:07,530 --> 00:15:05,920
on getting them the basics and that's

402
00:15:08,970 --> 00:15:07,540
why I think a basic income or something

403
00:15:10,200 --> 00:15:08,980
better would sporting but I think

404
00:15:12,510 --> 00:15:10,210
they're gonna have access to the tram

405
00:15:14,460 --> 00:15:12,520
seamless technology I think that will

406
00:15:16,980 --> 00:15:14,470
that into vaccines and stuff like that

407
00:15:18,900 --> 00:15:16,990
will come because it gets so cheap that

408
00:15:20,550 --> 00:15:18,910
they'll have access but you know getting

409
00:15:23,190 --> 00:15:20,560
clean water and food that that's still

410
00:15:25,590 --> 00:15:23,200
very hard that's right yeah that's right

411
00:15:29,520 --> 00:15:25,600
so what are some you talked about

412
00:15:32,310 --> 00:15:29,530
driverless cars I know you know I I saw

413
00:15:36,300 --> 00:15:32,320

even a number of years ago the Google

414

00:15:38,760 --> 00:15:36,310

car I think it was out there and I think

415

00:15:40,110 --> 00:15:38,770

that's I'm all for driverless cars I

416

00:15:41,880 --> 00:15:40,120

know a lot of people are scared to death

417

00:15:44,940 --> 00:15:41,890

they say they'd never sit in one and all

418

00:15:47,580 --> 00:15:44,950

that but eventually the technology is

419

00:15:50,340 --> 00:15:47,590

going to get so great that insurance

420

00:15:51,990 --> 00:15:50,350

companies are going to want to have

421

00:15:53,239 --> 00:15:52,000

driverless cars because there won't be

422

00:15:57,540 --> 00:15:53,249

any accidents

423

00:15:59,309 --> 00:15:57,550

hi well eat even more importantly as

424

00:16:01,259 --> 00:15:59,319

many insurance companies are right now a

425

00:16:03,299 --> 00:16:01,269

little bit skeptical the driverless car

426

00:16:05,429 --> 00:16:03,309

because they know that they're gonna go

427

00:16:06,720 --> 00:16:05,439

out of business I mean that you know the

428

00:16:08,369 --> 00:16:06,730

great thing about driverless cars is

429

00:16:10,619 --> 00:16:08,379

their accent rate is so much

430

00:16:12,210 --> 00:16:10,629

dramatically less for example Mothers

431

00:16:14,400 --> 00:16:12,220

Against Drunk Driving one of the largest

432

00:16:15,900 --> 00:16:14,410

nonprofits in America everybody knows it

433

00:16:17,369 --> 00:16:15,910

because you know they've been fighting

434

00:16:18,720 --> 00:16:17,379

against drunk driving while drunk

435

00:16:20,189 --> 00:16:18,730

driving is gonna go the way of the

436

00:16:22,049 --> 00:16:20,199

dinosaurs there's not gonna be any more

437

00:16:23,790 --> 00:16:22,059

drunk driving because people are they'll

438

00:16:25,829 --> 00:16:23,800

be drunk in the back of the car but the

439

00:16:27,660 --> 00:16:25,839

cars won't and it's the same thing with

440

00:16:29,460 --> 00:16:27,670

the insurance companies were at some

441

00:16:31,470 --> 00:16:29,470

point it's not gonna even make sense to

442

00:16:34,079 --> 00:16:31,480

insure a car more than just a basic

443

00:16:35,460 --> 00:16:34,089

because accidents are so much lower with

444

00:16:37,650 --> 00:16:35,470

driverless cars and we're talking like

445

00:16:40,379 --> 00:16:37,660

seventy eighty percent lower and they're

446

00:16:41,519 --> 00:16:40,389

gonna get far better so you know I mean

447

00:16:44,910 --> 00:16:41,529

we're talking again against the

448

00:16:46,799 --> 00:16:44,920

revolution in terms of transportation

449

00:16:48,540 --> 00:16:46,809

and I've just had this conversation with

450

00:16:51,989 --> 00:16:48,550

a friend you know we're for me to fly

451
00:16:54,509 --> 00:16:51,999
from San Francisco to LA you know the

452
00:16:56,609 --> 00:16:54,519
flight is only about 60 70 minutes but

453
00:16:58,679 --> 00:16:56,619
to actually leave my house get to the

454
00:17:01,410 --> 00:16:58,689
airport you know get on the plane go

455
00:17:03,210 --> 00:17:01,420
through security then go land take the

456
00:17:04,679 --> 00:17:03,220
taxi and finally get some ID I Drive

457
00:17:06,269 --> 00:17:04,689
this car at night we'll take six or

458
00:17:08,549 --> 00:17:06,279
seven hours or get in the back sleep

459
00:17:10,230 --> 00:17:08,559
instruct it and it'll take the exact

460
00:17:11,429 --> 00:17:10,240
same amount of time except you'll have

461
00:17:14,549 --> 00:17:11,439
your car there and won't have to rent a

462
00:17:15,929 --> 00:17:14,559
taxi so these are you know these are

463
00:17:16,919 --> 00:17:15,939

some of the things that I think a lot of

464

00:17:19,019 --> 00:17:16,929

people don't think about what I think

465

00:17:20,210 --> 00:17:19,029

wow the the miracle driverless car is

466

00:17:23,399 --> 00:17:20,220

gonna hurt Airlines too especially

467

00:17:25,919 --> 00:17:23,409

short-range ones yeah anything has an

468

00:17:28,439 --> 00:17:25,929

effect you know no matter what it is

469

00:17:32,039 --> 00:17:28,449

uber you know you you name it any new

470

00:17:35,700 --> 00:17:32,049

technology any new idea well it's going

471

00:17:38,190 --> 00:17:35,710

to disrupt someone or something but but

472

00:17:40,110 --> 00:17:38,200

I think it's it's up I actually can't

473

00:17:42,720 --> 00:17:40,120

wait for the driverless car because I'm

474

00:17:45,210 --> 00:17:42,730

getting tired of driving but you know I

475

00:17:49,110 --> 00:17:45,220

mean sitting in traffic that won't be

476

00:17:51,779 --> 00:17:49,120

happening hardly you know no traffic

477

00:17:53,460 --> 00:17:51,789

will disappear we people and drive this

478

00:17:55,680 --> 00:17:53,470

car won't look at an accident and that's

479

00:17:56,970 --> 00:17:55,690

one of the main issues when you're on a

480

00:17:58,680 --> 00:17:56,980

freeway you see an accident everyone

481

00:18:00,180 --> 00:17:58,690

slows down well and you know an AI

482

00:18:01,860 --> 00:18:00,190

vehicle is gonna go right past that

483

00:18:03,419 --> 00:18:01,870

won't think about that's a that's a I

484

00:18:06,899 --> 00:18:03,429

never thought of that and I never

485

00:18:10,450 --> 00:18:06,909

actually thought about the drunk driving

486

00:18:13,810 --> 00:18:10,460

aspect of it and I forget I've read

487

00:18:18,159 --> 00:18:13,820

statistics at one time how many how many

488

00:18:20,649 --> 00:18:18,169

people die per year from alcohol it's a

489

00:18:23,169 --> 00:18:20,659

lot them yeah it there's over a hundred

490

00:18:25,810 --> 00:18:23,179

thousand alcohol-related deaths with

491

00:18:28,029 --> 00:18:25,820

cars every year it's around the planet

492

00:18:29,080 --> 00:18:28,039

America's something like thirty I'm not

493

00:18:30,820 --> 00:18:29,090

I think there's around thirty eight

494

00:18:31,779 --> 00:18:30,830

thousand car deaths every year in

495

00:18:34,269 --> 00:18:31,789

America I'm not Germany are

496

00:18:36,789 --> 00:18:34,279

alcohol-related but it's a huge huge

497

00:18:37,919 --> 00:18:36,799

problem impairment is joining this is

498

00:18:41,019 --> 00:18:37,929

you know when you talk about

499

00:18:43,060 --> 00:18:41,029

humanitarian causes people who who put

500

00:18:45,370 --> 00:18:43,070

forth the the you know driverless car

501
00:18:46,810 --> 00:18:45,380
really doing us a service I have two

502
00:18:48,970 --> 00:18:46,820
young children I don't want them to get

503
00:18:50,529 --> 00:18:48,980
into a I don't want them to you know

504
00:18:52,120 --> 00:18:50,539
worry about driving and that's gonna be

505
00:18:55,210 --> 00:18:52,130
a great a great thing for a lot of right

506
00:19:00,850 --> 00:18:55,220
um I had a gentleman that helped me out

507
00:19:02,049 --> 00:19:00,860
with this with my website and he you had

508
00:19:04,779 --> 00:19:02,059
a couple of questions he wanted me to

509
00:19:08,049 --> 00:19:04,789
ask San Basel is his name and he had a

510
00:19:10,029 --> 00:19:08,059
couple questions he wanted me to ask you

511
00:19:13,000 --> 00:19:10,039
and one of them what are the risks of

512
00:19:13,539 --> 00:19:13,010
transhumanism nothing as well without

513
00:19:18,009 --> 00:19:13,549

risk

514

00:19:21,279 --> 00:19:18,019

so there has to be something well you

515

00:19:24,460 --> 00:19:21,289

know to be honest with you uh for me

516

00:19:26,470 --> 00:19:24,470

right now the largest risk is that we

517

00:19:28,289 --> 00:19:26,480

live in a very religious nation and a

518

00:19:30,639 --> 00:19:28,299

lot of religious people worry that

519

00:19:32,769 --> 00:19:30,649

transhumanism is the work of the devil

520

00:19:35,799 --> 00:19:32,779

or the work of something that's the

521

00:19:38,159 --> 00:19:35,809

Antichrist like or end times and I worry

522

00:19:40,330 --> 00:19:38,169

that people might want to shut down

523

00:19:41,860 --> 00:19:40,340

transhumanist or you know I built my

524

00:19:43,470 --> 00:19:41,870

futurist career off my novel to

525

00:19:45,430 --> 00:19:43,480

transhumance wager which pits

526

00:19:47,680 --> 00:19:45,440

fundamental religious people against

527

00:19:50,230 --> 00:19:47,690

these ultra radical scientists who are

528

00:19:53,230 --> 00:19:50,240

trying to make us live indefinitely and

529

00:19:55,210 --> 00:19:53,240

induce technology as this great enhancer

530

00:19:57,009 --> 00:19:55,220

but we live in a country where a lot of

531

00:19:59,769 --> 00:19:57,019

those technologies are very dangerous

532

00:20:02,440 --> 00:19:59,779

you know our vice president has you know

533

00:20:04,360 --> 00:20:02,450

said genetic editing is is really it is

534

00:20:07,000 --> 00:20:04,370

dangerous and they know these kinds of

535

00:20:08,440 --> 00:20:07,010

things so will they allow it or will

536

00:20:11,080 --> 00:20:08,450

there be civil strife will there be

537

00:20:13,450 --> 00:20:11,090

riots in the street I worry that that is

538

00:20:15,190 --> 00:20:13,460

gonna set society back very far you know

539

00:20:17,409 --> 00:20:15,200

we've had this historically happen work

540

00:20:19,330 --> 00:20:17,419

and you know in the Renaissance the

541

00:20:20,080 --> 00:20:19,340

scientists were burned and stuff like so

542

00:20:21,640 --> 00:20:20,090

I think

543

00:20:23,380 --> 00:20:21,650

me a lot of the great challenge is

544

00:20:26,620 --> 00:20:23,390

trying to convince religious people that

545

00:20:29,350 --> 00:20:26,630

this is just an uber form of health care

546

00:20:31,779 --> 00:20:29,360

it's not in any way against religion

547

00:20:34,210 --> 00:20:31,789

it's actually perhaps what you know God

548

00:20:36,730 --> 00:20:34,220

had intended people to want to create

549

00:20:38,440 --> 00:20:36,740

with the tools of their hands and them

550

00:20:40,060 --> 00:20:38,450

but that's a very hard thing to say

551

00:20:42,190 --> 00:20:40,070

because a lot of people may say you know

552

00:20:44,230 --> 00:20:42,200

wow modifying the human being is not

553

00:20:46,360 --> 00:20:44,240

something we're supposed to do so I

554

00:20:48,310 --> 00:20:46,370

think that's for me the biggest danger

555

00:20:50,649 --> 00:20:48,320

because if Congress gets together and

556

00:20:52,450 --> 00:20:50,659

shuts down transhumanism like they you

557

00:20:53,710 --> 00:20:52,460

know me as soon as genetic editing came

558

00:20:55,419 --> 00:20:53,720

out two years ago they said let's put a

559

00:20:57,690 --> 00:20:55,429

moratorium on it just like we put a

560

00:21:00,130 --> 00:20:57,700

moratorium on stem cells yeah you know

561

00:21:02,470 --> 00:21:00,140

george w bush did that for seven years -

562

00:21:04,539 --> 00:21:02,480

presidency it turns out now stem cells

563

00:21:06,610 --> 00:21:04,549

is the one of the most used best

564

00:21:08,649 --> 00:21:06,620

medicines of the 21st century

565

00:21:10,269 --> 00:21:08,659

except we lost seven years of an perhaps

566

00:21:12,190 --> 00:21:10,279

the hundreds of thousands of lives so

567

00:21:14,830 --> 00:21:12,200

this for me is that is a dangerous

568

00:21:17,169 --> 00:21:14,840

conflict with no easy answer except to

569

00:21:19,810 --> 00:21:17,179

try to make transhumanism a less loaded

570

00:21:21,399 --> 00:21:19,820

word or less loaded contract more

571

00:21:23,649 --> 00:21:21,409

healthcare oriented right and the one

572

00:21:26,830 --> 00:21:23,659

thing I think about more than anything

573

00:21:31,510 --> 00:21:26,840

as far as say artificial intelligence

574

00:21:34,299 --> 00:21:31,520

and some type of transhumanism almost

575

00:21:37,899 --> 00:21:34,309

like Bionic I'm thinking is the

576

00:21:40,240 --> 00:21:37,909

super-soldier you know military I think

577

00:21:45,399 --> 00:21:40,250

more than anyone they're gonna want to

578

00:21:47,440 --> 00:21:45,409

get you know involved in this well yeah

579

00:21:51,639 --> 00:21:47,450

and I have been consulting with the US

580

00:21:54,060 --> 00:21:51,649

Navy and I can tell you that artificial

581

00:21:56,950 --> 00:21:54,070

intelligence is a significant kind of

582

00:22:00,010 --> 00:21:56,960

worry because we have this ability of a

583

00:22:02,350 --> 00:22:00,020

machine to maybe send viruses across all

584

00:22:04,659 --> 00:22:02,360

the computers in the world take over

585

00:22:06,490 --> 00:22:04,669

power grids take over water grids take

586

00:22:08,590 --> 00:22:06,500

over stoplights and major cities cause

587

00:22:11,200 --> 00:22:08,600

havoc and traffic and things like that

588

00:22:12,970 --> 00:22:11,210

and that's it that's a national security

589

00:22:14,919 --> 00:22:12,980

issue in fact that's a global security

590

00:22:17,320 --> 00:22:14,929

issue Terminator is not just some crazy

591

00:22:19,060 --> 00:22:17,330

sci-fi movie terminators a very real

592

00:22:21,580 --> 00:22:19,070

thing to worry about and I worry about I

593

00:22:23,980 --> 00:22:21,590

think a lot of the other experts worry

594

00:22:25,480 --> 00:22:23,990

about it and so I think you know super

595

00:22:27,639 --> 00:22:25,490

soldiers kind of goes along with that

596

00:22:30,070 --> 00:22:27,649

this idea that I don't know if I want

597

00:22:31,990 --> 00:22:30,080

armed drones in the sky controlled by

598

00:22:33,650 --> 00:22:32,000

the government watching my every move

599

00:22:36,050 --> 00:22:33,660

able to send

600

00:22:38,630 --> 00:22:36,060

missile into my house from you know 80

601
00:22:41,060 --> 00:22:38,640
miles away and yet in many ways that's

602
00:22:42,560 --> 00:22:41,070
already the state of lie you know of

603
00:22:44,810 --> 00:22:42,570
living that we have should we have a

604
00:22:46,640 --> 00:22:44,820
ride or something in California you

605
00:22:48,590 --> 00:22:46,650
could very very quickly see the National

606
00:22:51,140 --> 00:22:48,600
Guard send out drones and those kinds of

607
00:22:53,540 --> 00:22:51,150
things could happen so I agree like

608
00:22:56,510 --> 00:22:53,550
unfortunately if we want to stay on top

609
00:22:57,920 --> 00:22:56,520
from a military perspective then we also

610
00:22:59,900 --> 00:22:57,930
don't want to let the Chinese do it

611
00:23:01,730 --> 00:22:59,910
first or the Russians to do it first so

612
00:23:04,370 --> 00:23:01,740
we're kind of in this terrible catch-22

613
00:23:06,800 --> 00:23:04,380

where you know it's forward with the

614

00:23:09,290 --> 00:23:06,810

military in transhumanist terms in order

615

00:23:11,990 --> 00:23:09,300

to you know quote protect ourselves from

616

00:23:14,720 --> 00:23:12,000

other you know countries that might use

617

00:23:17,780 --> 00:23:14,730

this technology unwisely and endangered

618

00:23:20,120 --> 00:23:17,790

right Sam all also has this question

619

00:23:22,400 --> 00:23:20,130

here what will happen to those people

620

00:23:27,920 --> 00:23:22,410

that do not want to get technically

621

00:23:29,780 --> 00:23:27,930

involved or evolved well I have always

622

00:23:33,470 --> 00:23:29,790

suggested that we should completely let

623

00:23:36,530 --> 00:23:33,480

everybody have 100% freedom not to do it

624

00:23:37,880 --> 00:23:36,540

and you know I feel like I don't know if

625

00:23:40,700 --> 00:23:37,890

they would become sort of like the Amish

626

00:23:42,830 --> 00:23:40,710

or something like that but as a

627

00:23:44,720 --> 00:23:42,840

libertarian you know I feel very very

628

00:23:46,310 --> 00:23:44,730

strongly that everyone should have a

629

00:23:47,900 --> 00:23:46,320

choice what they choose they want to get

630

00:23:49,550 --> 00:23:47,910

a chip like me they can if they don't

631

00:23:53,030 --> 00:23:49,560

they don't if they want to drive their

632

00:23:54,620 --> 00:23:53,040

own cars they can you know those are

633

00:23:55,880 --> 00:23:54,630

kinds of things that are very important

634

00:23:58,130 --> 00:23:55,890

to me especially to make sure this

635

00:24:01,580 --> 00:23:58,140

transition to this transhumance age goes

636

00:24:03,230 --> 00:24:01,590

over smoothly but I also understand like

637

00:24:05,270 --> 00:24:03,240

if you want to get a corporate job and

638

00:24:07,100 --> 00:24:05,280

you're not in social media it's very

639

00:24:08,620 --> 00:24:07,110

difficult to get a corporate job in

640

00:24:10,820 --> 00:24:08,630

social media you you have to be

641

00:24:13,330 --> 00:24:10,830

represented already on the internet and

642

00:24:15,920 --> 00:24:13,340

that's sort of our the way the world has

643

00:24:18,140 --> 00:24:15,930

evolved is that if you're not a part of

644

00:24:21,260 --> 00:24:18,150

what's happening technologically and

645

00:24:23,660 --> 00:24:21,270

socially then it's increasingly hard to

646

00:24:24,920 --> 00:24:23,670

get a good job and I saw you know I

647

00:24:26,870 --> 00:24:24,930

think people should always have that

648

00:24:28,490 --> 00:24:26,880

freedom but I would be very surprised if

649

00:24:30,140 --> 00:24:28,500

a lot of people did not take a lot

650

00:24:32,360 --> 00:24:30,150

especially a lot of the medical upgrades

651
00:24:35,120 --> 00:24:32,370
that are gonna come and be like you know

652
00:24:36,920 --> 00:24:35,130
refusing your arm got chopped off in in

653
00:24:38,840 --> 00:24:36,930
a war zone or in a car accident and not

654
00:24:40,610 --> 00:24:38,850
taking the robotic arm which can already

655
00:24:42,470 --> 00:24:40,620
grab beers which can already play the

656
00:24:44,780 --> 00:24:42,480
guitar again and things like that most

657
00:24:46,160 --> 00:24:44,790
people will take it because you know

658
00:24:47,450 --> 00:24:46,170
they're not losing their humanity

659
00:24:50,299 --> 00:24:47,460
they're just augmenting their

660
00:24:52,909 --> 00:24:50,309
body to get back into the health how far

661
00:24:56,029 --> 00:24:52,919
away do you think we are right now from

662
00:24:59,899 --> 00:24:56,039
being able to upload your brain your

663
00:25:02,060 --> 00:24:59,909

thoughts well you know we used to all

664

00:25:04,430 --> 00:25:02,070

say like 20 30 years the problem is that

665

00:25:06,139 --> 00:25:04,440

there's been so much advancement in this

666

00:25:09,919 --> 00:25:06,149

what we call field of telepathy and

667

00:25:11,600 --> 00:25:09,929

brainwave eg field and now there are

668

00:25:13,340 --> 00:25:11,610

literally hundreds of Silicon Valley

669

00:25:15,409 --> 00:25:13,350

companies jumping on and putting in tens

670

00:25:16,760 --> 00:25:15,419

of hundreds of millions of dollars Ellen

671

00:25:19,639 --> 00:25:16,770

must recently started a company called

672

00:25:21,830 --> 00:25:19,649

um you know working on this this thing

673

00:25:23,870 --> 00:25:21,840

called the neural lace which will allow

674

00:25:25,490 --> 00:25:23,880

you to tap into the cloud you know we

675

00:25:27,019 --> 00:25:25,500

there are hundreds of thousands of

676

00:25:28,789 --> 00:25:27,029

craters around the world dealing Wall

677

00:25:30,740 --> 00:25:28,799

Street and whatnot they're all going to

678

00:25:32,330 --> 00:25:30,750

be replaced within four seven or eight

679

00:25:33,649 --> 00:25:32,340

years I mean some of the largest hedge

680

00:25:35,510 --> 00:25:33,659

funds have already come out saying we're

681

00:25:37,250 --> 00:25:35,520

gonna be replacing mid-level management

682

00:25:39,529 --> 00:25:37,260

because we can have AI do that job

683

00:25:41,419 --> 00:25:39,539

better so unless we have a way in our

684

00:25:43,490 --> 00:25:41,429

brains to directly connect to the cloud

685

00:25:45,320 --> 00:25:43,500

and that means not necessarily uploading

686

00:25:47,419 --> 00:25:45,330

but directly using brain waves to think

687

00:25:48,799 --> 00:25:47,429

with the machine we're gonna be out of

688

00:25:50,360 --> 00:25:48,809

jobs and when you know when Wall Street

689

00:25:52,130 --> 00:25:50,370

traders lose jobs these are some of the

690

00:25:54,110 --> 00:25:52,140

smartest people we have on the planet

691

00:25:57,080 --> 00:25:54,120

with some of the best degrees we're all

692

00:25:58,700 --> 00:25:57,090

going to lose jobs so my general guess

693

00:26:00,110 --> 00:25:58,710

is that and they said you know I almost

694

00:26:02,720 --> 00:26:00,120

said on the record probably four years

695

00:26:04,340 --> 00:26:02,730

will be a working type of this type of

696

00:26:06,799 --> 00:26:04,350

neural lace we can think into the cloud

697

00:26:08,779 --> 00:26:06,809

and that sounds about sensible given

698

00:26:11,240 --> 00:26:08,789

other companies I've talked to I'd say

699

00:26:13,130 --> 00:26:11,250

in 10 to 15 years a lot of us will have

700

00:26:15,919 --> 00:26:13,140

this ability through brain wave headsets

701
00:26:17,930 --> 00:26:15,929
to think to each other we might not do

702
00:26:19,580 --> 00:26:17,940
this probably in 10 years where we use

703
00:26:21,260 --> 00:26:19,590
headsets and things like that our

704
00:26:23,180 --> 00:26:21,270
connection will be directly through our

705
00:26:24,500 --> 00:26:23,190
minds maybe just wearing one single

706
00:26:27,080 --> 00:26:24,510
little thing that's tapped in an hour

707
00:26:29,120 --> 00:26:27,090
here or even embedded you know like a

708
00:26:30,649 --> 00:26:29,130
chip and plan um you know that'll be a

709
00:26:32,450 --> 00:26:30,659
choice how people do that but I could

710
00:26:34,370 --> 00:26:32,460
see that happening in 10 to 12 years

711
00:26:36,230 --> 00:26:34,380
you'd understand a lot of these

712
00:26:38,419 --> 00:26:36,240
technologies are motivated by how much

713
00:26:40,010 --> 00:26:38,429

money these corporations can make and

714

00:26:42,019 --> 00:26:40,020

this thing that I just mentioned this

715

00:26:44,389 --> 00:26:42,029

neural lace is the way to save

716

00:26:46,370 --> 00:26:44,399

capitalism we don't need to replace our

717

00:26:48,919 --> 00:26:46,380

traders with AI if we can become one

718

00:26:51,340 --> 00:26:48,929

with AI that's one way to keep it so

719

00:26:53,600 --> 00:26:51,350

that jobs can continue indefinitely

720

00:26:55,970 --> 00:26:53,610

because we can think just like the minds

721

00:26:57,740 --> 00:26:55,980

well as it is right now

722

00:27:00,620 --> 00:26:57,750

you know Wall Street is kind of scary

723

00:27:01,910 --> 00:27:00,630

when it comes to the algorithms and how

724

00:27:03,500 --> 00:27:01,920

quickly you know tre

725

00:27:06,520 --> 00:27:03,510

are happening and it's hard to believe

726

00:27:09,340 --> 00:27:06,530

that it can go it faster than it is but

727

00:27:11,840 --> 00:27:09,350

but now you're you're talking about a

728

00:27:13,310 --> 00:27:11,850

human being piped into the whole thing

729

00:27:16,820 --> 00:27:13,320

is that what you're is that what you

730

00:27:18,200 --> 00:27:16,830

mean well yes and I think that's you

731

00:27:20,300 --> 00:27:18,210

have to understand I think the main

732

00:27:21,950 --> 00:27:20,310

thing here is humans don't want to lose

733

00:27:24,320 --> 00:27:21,960

their jobs not all of us want to lose

734

00:27:26,240 --> 00:27:24,330

our jobs I mean I'm you know what I'm

735

00:27:27,740 --> 00:27:26,250

trying to say is the people that are

736

00:27:29,840 --> 00:27:27,750

Wall Street traders are some of the most

737

00:27:31,850 --> 00:27:29,850

sophisticated well-educated wealthy

738

00:27:33,200 --> 00:27:31,860

people on the planet when you tell them

739

00:27:34,970 --> 00:27:33,210

you're when you tell someone who just

740

00:27:36,800 --> 00:27:34,980

graduated MBA you're gonna lose your job

741

00:27:38,930 --> 00:27:36,810

in five years because the Machine

742

00:27:41,030 --> 00:27:38,940

replaces you he's gonna say hell no how

743

00:27:42,590 --> 00:27:41,040

do I stop that and the lawyers will get

744

00:27:44,900 --> 00:27:42,600

together Congress will get together and

745

00:27:47,420 --> 00:27:44,910

I honestly believe that one way to keep

746

00:27:49,400 --> 00:27:47,430

our relevance against machines is to be

747

00:27:51,200 --> 00:27:49,410

much more connected to them and this

748

00:27:53,180 --> 00:27:51,210

could include upgrades to our bodies if

749

00:27:54,860 --> 00:27:53,190

you want to be builders construction I

750

00:27:56,840 --> 00:27:54,870

mean we already have this idea that you

751

00:27:59,300 --> 00:27:56,850

could wear exoskeleton suits and lift

752

00:28:00,980 --> 00:27:59,310

two or three times what you want and you

753

00:28:02,570 --> 00:28:00,990

know the military is starting to say put

754

00:28:05,480 --> 00:28:02,580

on exoskeleton suits cuz they allow

755

00:28:06,950 --> 00:28:05,490

these guys to walk for 24 hours instead

756

00:28:08,540 --> 00:28:06,960

of only being able to walk 12 hours and

757

00:28:09,140 --> 00:28:08,550

then die you know passing over from

758

00:28:10,910 --> 00:28:09,150

exhaustion

759

00:28:13,100 --> 00:28:10,920

so all these technologies we can

760

00:28:14,720 --> 00:28:13,110

integrate into our own bodies including

761

00:28:16,910 --> 00:28:14,730

tapping into the cloud with brainwaves

762

00:28:19,640 --> 00:28:16,920

and brain thoughts and that would be one

763

00:28:22,190 --> 00:28:19,650

way to to keep our sense of humanity

764

00:28:24,170 --> 00:28:22,200

while also staying competitive to

765

00:28:25,940 --> 00:28:24,180

machines and I think a lot of people

766

00:28:27,350 --> 00:28:25,950

like that because these Wall Street

767

00:28:28,970 --> 00:28:27,360

traders are like hey I'd like to have

768

00:28:30,890 --> 00:28:28,980

the power of a calculator in my brain

769

00:28:33,290 --> 00:28:30,900

I'd like to be able to Google

770

00:28:34,850 --> 00:28:33,300

instantaneously in my thoughts so you

771

00:28:36,440 --> 00:28:34,860

know there's that's kind of where I

772

00:28:37,700 --> 00:28:36,450

think the key is and that's what I think

773

00:28:39,800 --> 00:28:37,710

there's been a huge amount of companies

774

00:28:42,410 --> 00:28:39,810

recently that are starting to set up

775

00:28:44,360 --> 00:28:42,420

this idea of something that allows our

776

00:28:46,310 --> 00:28:44,370

brain waves to connect directly into

777

00:28:48,560 --> 00:28:46,320

machines that's the way to make sure a

778

00:28:50,000 --> 00:28:48,570

AI doesn't ruin run loose we're never

779

00:28:52,220 --> 00:28:50,010

gonna get terminator if the human being

780

00:28:53,480 --> 00:28:52,230

is inside it then we're gonna get maybe

781

00:28:54,920 --> 00:28:53,490

a human being terminator I mean I

782

00:28:57,530 --> 00:28:54,930

understand they'll be evil dictators or

783

00:28:59,900 --> 00:28:57,540

whatnot but we're always gonna have at

784

00:29:02,000 --> 00:28:59,910

least the mammalian element this idea of

785

00:29:04,070 --> 00:29:02,010

our humanity is with us so a lot of

786

00:29:06,680 --> 00:29:04,080

people want to merge with machines but

787

00:29:08,720 --> 00:29:06,690

not just let machines become this great

788

00:29:11,000 --> 00:29:08,730

evolved type of entity I certainly done

789

00:29:14,090 --> 00:29:11,010

now what is that you know I've heard of

790

00:29:15,810 --> 00:29:14,100

the singularity and what is the

791

00:29:21,240 --> 00:29:15,820

difference between human

792

00:29:24,160 --> 00:29:21,250

you know transhumanism and singularity

793

00:29:26,350 --> 00:29:24,170

well so transhumanism is really the

794

00:29:29,230 --> 00:29:26,360

social movement that would ultimately

795

00:29:31,690 --> 00:29:29,240

lead to a singularity the singularity is

796

00:29:34,030 --> 00:29:31,700

generally a point in time when so much

797

00:29:36,880 --> 00:29:34,040

artificial or machine intelligence has

798

00:29:38,860 --> 00:29:36,890

gathered so much power evolutionary

799

00:29:40,660 --> 00:29:38,870

power that it sort of leaves behind

800

00:29:43,150 --> 00:29:40,670

human thinking what people like to say

801
00:29:44,830 --> 00:29:43,160
is the singularity is almost like you

802
00:29:47,170 --> 00:29:44,840
know meeting God or something of that

803
00:29:49,660 --> 00:29:47,180
nature you can't understand it anymore

804
00:29:51,370 --> 00:29:49,670
it's beyond our you know where our

805
00:29:52,210 --> 00:29:51,380
brains are three pounds of meat let's be

806
00:29:53,890 --> 00:29:52,220
honest that's what they are

807
00:29:56,350 --> 00:29:53,900
well the singularity is when your brain

808
00:29:58,090 --> 00:29:56,360
becomes you know a hundred pounds of

809
00:30:00,490 --> 00:29:58,100
meat or something like that in terms of

810
00:30:02,680 --> 00:30:00,500
neural connections millions and millions

811
00:30:03,970 --> 00:30:02,690
of times smarter and at some point

812
00:30:06,010 --> 00:30:03,980
because of the J curve of how

813
00:30:09,190 --> 00:30:06,020

intelligence grows it keeps evolving

814

00:30:11,560 --> 00:30:09,200

even quicker so your evolution of IQ

815

00:30:13,210 --> 00:30:11,570

points can double you know quadruple and

816

00:30:15,160 --> 00:30:13,220

then you know it can basically

817

00:30:17,470 --> 00:30:15,170

exponentially shoot through the roof so

818

00:30:19,870 --> 00:30:17,480

what you experience in one year of life

819

00:30:21,250 --> 00:30:19,880

can be more than we've experienced in

820

00:30:24,370 --> 00:30:21,260

intelligence growth in the entire

821

00:30:26,710 --> 00:30:24,380

history of intelligence so that's really

822

00:30:28,720 --> 00:30:26,720

what the singularity is and yes it's a

823

00:30:30,580 --> 00:30:28,730

it's a quasi-religious component of

824

00:30:32,290 --> 00:30:30,590

transhumanism I don't really think about

825

00:30:34,000 --> 00:30:32,300

it much because it's so far out of the

826

00:30:36,430 --> 00:30:34,010

realm but it's certainly a very

827

00:30:38,590 --> 00:30:36,440

interesting point to say well what

828

00:30:40,450 --> 00:30:38,600

actually happens what's the final the

829

00:30:43,600 --> 00:30:40,460

end game for transhumanism well it's the

830

00:30:45,550 --> 00:30:43,610

singularity okay so back to the question

831

00:30:49,030 --> 00:30:45,560

that I asked you someone on the message

832

00:30:51,880 --> 00:30:49,040

board wanted to know kind of wanted you

833

00:30:54,520 --> 00:30:51,890

to elaborate more on the question do you

834

00:31:00,640 --> 00:30:54,530

think it'll be possible to upload a mind

835

00:31:03,010 --> 00:31:00,650

to a computer so the answer is yes um we

836

00:31:05,500 --> 00:31:03,020

are have already to some extent uploaded

837

00:31:07,750 --> 00:31:05,510

thoughts to machines just you know there

838

00:31:10,390 --> 00:31:07,760

are headsets out there that you can lift

839

00:31:12,070 --> 00:31:10,400

a drone by thinking it in fact they have

840

00:31:13,960 --> 00:31:12,080

drone races already just using

841

00:31:16,300 --> 00:31:13,970

brainpower where you think thoughts and

842

00:31:17,920 --> 00:31:16,310

drones race around a track and we've

843

00:31:20,200 --> 00:31:17,930

gotten so sophisticated with this

844

00:31:22,060 --> 00:31:20,210

telepathy type of idea where you send

845

00:31:23,920 --> 00:31:22,070

our brain signals so the question is how

846

00:31:25,990 --> 00:31:23,930

does the machine interface actually grab

847

00:31:28,510 --> 00:31:26,000

that signal and then translate it into

848

00:31:29,080 --> 00:31:28,520

machine well it develops algorithms it

849

00:31:30,610 --> 00:31:29,090

mitts

850

00:31:32,350 --> 00:31:30,620

where's the memory and then it figures

851
00:31:34,870 --> 00:31:32,360
out well that brainwave was exactly like

852
00:31:36,970 --> 00:31:34,880
this and that means it's green or that

853
00:31:38,740 --> 00:31:36,980
means it's blue now use it like a

854
00:31:40,720 --> 00:31:38,750
calculator and start producing software

855
00:31:42,040 --> 00:31:40,730
and programs around that and then all of

856
00:31:43,840 --> 00:31:42,050
a sudden you're like well wow that's

857
00:31:46,600 --> 00:31:43,850
just like zoltan's thoughts or that's

858
00:31:48,730 --> 00:31:46,610
just you know whoever's thoughts and if

859
00:31:51,760 --> 00:31:48,740
you do that enough times you can

860
00:31:53,380 --> 00:31:51,770
actually recreate a very real sense of

861
00:31:55,330 --> 00:31:53,390
who yarn some people are doing this with

862
00:31:57,190 --> 00:31:55,340
people that are like like Wired magazine

863
00:31:57,490 --> 00:31:57,200

just ran a big story and someone who did

864

00:31:59,740 --> 00:31:57,500

this

865

00:32:01,360 --> 00:31:59,750

to his father they downloaded a ton of

866

00:32:03,010 --> 00:32:01,370

the father's thoughts they got a ton of

867

00:32:05,290 --> 00:32:03,020

what the father had thought and they

868

00:32:08,230 --> 00:32:05,300

programmed it in todayl and now that a l

869

00:32:09,940 --> 00:32:08,240

can respond basically very similar to

870

00:32:12,670 --> 00:32:09,950

how the father was now it's not perfect

871

00:32:16,210 --> 00:32:12,680

and I are not even close to really

872

00:32:18,100 --> 00:32:16,220

completing a full consciousness but you

873

00:32:19,150 --> 00:32:18,110

know I mean a day a person that you talk

874

00:32:21,160 --> 00:32:19,160

to you doesn't have that much

875

00:32:23,020 --> 00:32:21,170

sophistication unless you really get

876

00:32:24,940 --> 00:32:23,030

into these things you can often find out

877

00:32:26,890 --> 00:32:24,950

what they like or you can you know what

878

00:32:29,110 --> 00:32:26,900

what they want to know or what their

879

00:32:31,480 --> 00:32:29,120

daily routines would be so it's pretty

880

00:32:33,640 --> 00:32:31,490

easy to recreate a semblance of somebody

881

00:32:35,410 --> 00:32:33,650

of course it's gonna be 10 to 15 years

882

00:32:37,660 --> 00:32:35,420

before we really start getting into that

883

00:32:40,030 --> 00:32:37,670

idea that your mind is through this

884

00:32:42,460 --> 00:32:40,040

machine my mind and then I can recreate

885

00:32:44,710 --> 00:32:42,470

exactly who I am and at some point that

886

00:32:48,310 --> 00:32:44,720

will be one way of living in Deathly is

887

00:32:51,180 --> 00:32:48,320

is that but most consumers would say me

888

00:32:54,310 --> 00:32:51,190

inside a machine is not necessarily me

889

00:32:55,540 --> 00:32:54,320

you know because I'm still here I think

890

00:32:57,640 --> 00:32:55,550

a lot of Trance tumors want to make sure

891

00:32:59,170 --> 00:32:57,650

that there's only one them and that one

892

00:33:01,330 --> 00:32:59,180

them always remains one it doesn't

893

00:33:02,920 --> 00:33:01,340

matter if you go into a machine but you

894

00:33:05,050 --> 00:33:02,930

know you can't have to me because then

895

00:33:06,580 --> 00:33:05,060

you just have a clone so you know those

896

00:33:08,650 --> 00:33:06,590

are some of the options but the

897

00:33:11,410 --> 00:33:08,660

technology is coming and we are already

898

00:33:13,240 --> 00:33:11,420

so far in terms of uploading various

899

00:33:16,560 --> 00:33:13,250

thoughts and using algorithms to produce

900

00:33:20,170 --> 00:33:16,570

them back yes Leslie in the chatroom

901
00:33:23,620 --> 00:33:20,180
kind of wants to know along those same

902
00:33:26,740 --> 00:33:23,630
lines if the idea to live forever if the

903
00:33:29,590 --> 00:33:26,750
idea is to live forever how much of our

904
00:33:30,820 --> 00:33:29,600
bodies and minds can be replaced and

905
00:33:36,760 --> 00:33:30,830
still have self

906
00:33:38,350 --> 00:33:36,770
gotta be honest that's the

907
00:33:40,270 --> 00:33:38,360
million-dollar question because and I

908
00:33:41,680 --> 00:33:40,280
give this ass all the time like when do

909
00:33:43,299 --> 00:33:41,690
you go from being a human to being a

910
00:33:45,029 --> 00:33:43,309
trans human entity and

911
00:33:47,970 --> 00:33:45,039
I'm not really sure you know I've said

912
00:33:51,129 --> 00:33:47,980
before that okay if you have five major

913
00:33:52,869 --> 00:33:51,139

cyborg parts then that already qualifies

914

00:33:55,389 --> 00:33:52,879

you as something that's more than just

915

00:33:57,850 --> 00:33:55,399

human being but it probably would take

916

00:34:00,340 --> 00:33:57,860

maybe something like 50% of your flesh

917

00:34:03,549 --> 00:34:00,350

to be gone in order for me to say okay

918

00:34:07,090 --> 00:34:03,559

you're now more cyborg than you are

919

00:34:09,250 --> 00:34:07,100

human and I think in terms of that you

920

00:34:11,050 --> 00:34:09,260

know so that would require like half

921

00:34:12,819 --> 00:34:11,060

your body or something like that and and

922

00:34:14,950 --> 00:34:12,829

I think you know we're only a year two

923

00:34:17,079 --> 00:34:14,960

away from people biohackers cutting

924

00:34:19,419 --> 00:34:17,089

electively cutting off their arms or

925

00:34:21,399 --> 00:34:19,429

limbs and replacing it with Bionic ones

926

00:34:22,930 --> 00:34:21,409

because while the Bionic ones are still

927

00:34:24,639 --> 00:34:22,940

a few years away from being as good as

928

00:34:25,780 --> 00:34:24,649

the human ones there's people that want

929

00:34:27,579 --> 00:34:25,790

to do it just because they want to

930

00:34:28,659 --> 00:34:27,589

experiment and they out in the end of

931

00:34:29,980 --> 00:34:28,669

the day you're gonna be able to take off

932

00:34:31,690 --> 00:34:29,990

your arm again and get the next upgrade

933

00:34:33,369 --> 00:34:31,700

you know this has been the prom with my

934

00:34:35,649 --> 00:34:33,379

chip as my chips been obsolete already

935

00:34:38,379 --> 00:34:35,659

for about a year you have to constantly

936

00:34:40,720 --> 00:34:38,389

replace this stuff and we're gonna get

937

00:34:42,430 --> 00:34:40,730

to a point when a lot of our body parts

938

00:34:44,050 --> 00:34:42,440

will be replaced as there are upgrades

939

00:34:47,800 --> 00:34:44,060

sort of like we would replace parts on

940

00:34:48,849 --> 00:34:47,810

our cars and I think you know but in

941

00:34:51,790 --> 00:34:48,859

order to answer that question

942

00:34:53,589 --> 00:34:51,800

yeah I'd say to be more of a cyborg you

943

00:34:55,240 --> 00:34:53,599

probably have to be more than 50% but

944

00:34:57,309 --> 00:34:55,250

I'm you know as long as we have our

945

00:34:59,800 --> 00:34:57,319

brains I'm not sure we're really gonna

946

00:35:01,000 --> 00:34:59,810

be anything other than ourselves I think

947

00:35:04,180 --> 00:35:01,010

when you start messing with

948

00:35:05,770 --> 00:35:04,190

consciousness and it's not you it's not

949

00:35:08,170 --> 00:35:05,780

your same memories because in the end of

950

00:35:09,700 --> 00:35:08,180

the day it's our memories it's our care

951
00:35:12,309 --> 00:35:09,710
our love our family these are a lot of

952
00:35:13,990 --> 00:35:12,319
the things that constitute us so if we

953
00:35:16,359 --> 00:35:14,000
even transfer ourselves into virtual

954
00:35:18,280 --> 00:35:16,369
reality and still feel those same ways I

955
00:35:20,650 --> 00:35:18,290
might still say hey this is mostly me

956
00:35:24,040 --> 00:35:20,660
even if I am data it's still it's still

957
00:35:27,160 --> 00:35:24,050
you know Zoltan yes we have a scientist

958
00:35:28,930 --> 00:35:27,170
friend of Mines in the chat room and he

959
00:35:32,620 --> 00:35:28,940
was saying that you know science doesn't

960
00:35:34,900 --> 00:35:32,630
really understand memories so how if

961
00:35:38,710 --> 00:35:34,910
they can't understand them how could

962
00:35:42,099 --> 00:35:38,720
they possibly be transferred do you are

963
00:35:43,569 --> 00:35:42,109

you able to tackle that one well just

964

00:35:45,220 --> 00:35:43,579

you know so you know there have been

965

00:35:47,200 --> 00:35:45,230

some experiments that have been recently

966

00:35:51,579 --> 00:35:47,210

hitting where they've been actually

967

00:35:53,530 --> 00:35:51,589

implanting memories into rodents and so

968

00:35:55,420 --> 00:35:53,540

those rodents believe that they know

969

00:35:57,040 --> 00:35:55,430

these kinds of things so you're right

970

00:35:59,470 --> 00:35:57,050

well we don't fully understand

971

00:36:01,600 --> 00:35:59,480

memories we actually can recreate them

972

00:36:03,340 --> 00:36:01,610

in certain ways that you know at least

973

00:36:04,780 --> 00:36:03,350

at this point animal life can take that

974

00:36:06,130 --> 00:36:04,790

and say oh that seemed to be something

975

00:36:08,650 --> 00:36:06,140

that happened to me and therefore I'll

976

00:36:10,480 --> 00:36:08,660

turn right at this intersection or left

977

00:36:13,480 --> 00:36:10,490

in this kind of maze and that would work

978

00:36:15,640 --> 00:36:13,490

and so I think it's gonna take a little

979

00:36:17,140 --> 00:36:15,650

bit longer and this is why when a lot of

980

00:36:18,250 --> 00:36:17,150

people ask me can we live indefinitely

981

00:36:20,110 --> 00:36:18,260

well yes we're gonna be able to make

982

00:36:22,090 --> 00:36:20,120

your body live indefinitely very shortly

983

00:36:23,860 --> 00:36:22,100

the real problem is we still don't

984

00:36:25,450 --> 00:36:23,870

understand consciousness we don't

985

00:36:27,220 --> 00:36:25,460

understand a lot about quantum mechanics

986

00:36:29,710 --> 00:36:27,230

we don't understand a lot of the kind of

987

00:36:32,830 --> 00:36:29,720

most difficult questions that actually

988

00:36:34,990 --> 00:36:32,840

make a brain work so what he might end

989

00:36:36,730 --> 00:36:35,000

up being for a long time unless we have

990

00:36:40,120 --> 00:36:36,740

some very serious breakthroughs it's

991

00:36:42,160 --> 00:36:40,130

just very Bionic entities with you know

992

00:36:44,020 --> 00:36:42,170

with brains where we try to continually

993

00:36:46,180 --> 00:36:44,030

recharge your brain instead of brain

994

00:36:48,400 --> 00:36:46,190

cells dying maybe stem cell treatments

995

00:36:51,280 --> 00:36:48,410

would work right now that hasn't really

996

00:36:52,870 --> 00:36:51,290

worked yet but we might end up being

997

00:36:54,910 --> 00:36:52,880

very much machines carrying around these

998

00:36:56,830 --> 00:36:54,920

these these human brains because we

999

00:36:59,230 --> 00:36:56,840

haven't figured out consciousness and

1000

00:37:01,060 --> 00:36:59,240

consciousness is you know it's a mystery

1001
00:37:02,380 --> 00:37:01,070
there's no question right now all right

1002
00:37:06,790 --> 00:37:02,390
I know there's a lot of debates about

1003
00:37:08,800 --> 00:37:06,800
what consciousness is so Sam also has

1004
00:37:11,020 --> 00:37:08,810
this question what's your thoughts on

1005
00:37:16,350 --> 00:37:11,030
what might be the first successful

1006
00:37:21,850 --> 00:37:20,020
well so you know this last week has been

1007
00:37:25,210 --> 00:37:21,860
a very huge week for implants because a

1008
00:37:26,800 --> 00:37:25,220
company in Wisconsin had a chip party

1009
00:37:28,060 --> 00:37:26,810
they took 80 of their employees and said

1010
00:37:30,070 --> 00:37:28,070
we're gonna give you free chip and

1011
00:37:31,240 --> 00:37:30,080
plants they only cost about \$50 and

1012
00:37:32,740 --> 00:37:31,250
where you set a vending machines

1013
00:37:34,570 --> 00:37:32,750

downstairs and from now when you check

1014

00:37:36,370 --> 00:37:34,580

in your just gonna swipe your hand you

1015

00:37:38,500 --> 00:37:36,380

don't need punch cards anymore or you

1016

00:37:40,120 --> 00:37:38,510

know anything like that so it was a

1017

00:37:42,340 --> 00:37:40,130

little bit weird but national and even

1018

00:37:44,200 --> 00:37:42,350

the New York Times did a story on it the

1019

00:37:46,480 --> 00:37:44,210

problem though is that while it has

1020

00:37:48,400 --> 00:37:46,490

ability to use it a vending machines in

1021

00:37:50,200 --> 00:37:48,410

order for me to really be a believer in

1022

00:37:53,230 --> 00:37:50,210

my chip I want to go to Starbucks and

1023

00:37:56,560 --> 00:37:53,240

swipe I want my credit card tied to it

1024

00:37:59,200 --> 00:37:56,570

and I think until we find a universal

1025

00:38:01,180 --> 00:37:59,210

payment system of an implant it's not

1026

00:38:01,750 --> 00:38:01,190

gonna catch on in a way that's that

1027

00:38:03,940 --> 00:38:01,760

useful

1028

00:38:05,410 --> 00:38:03,950

this implant can't be tracked this isn't

1029

00:38:07,540 --> 00:38:05,420

not that different than what we have in

1030

00:38:09,190 --> 00:38:07,550

animals it can you know start your car

1031

00:38:10,299 --> 00:38:09,200

it opens my front door on my door just

1032

00:38:11,949 --> 00:38:10,309

swipe my hand I don't

1033

00:38:14,019 --> 00:38:11,959

keys and that actually that's very

1034

00:38:16,150 --> 00:38:14,029

useful as a surfer or somebody who likes

1035

00:38:17,439 --> 00:38:16,160

to go jogging I hate to carry keys so

1036

00:38:19,269 --> 00:38:17,449

that's what but we're gonna need a

1037

00:38:20,890 --> 00:38:19,279

payment system and when someone comes up

1038

00:38:22,779 --> 00:38:20,900

with a universal payment system and Visa

1039

00:38:24,370 --> 00:38:22,789

and MasterCard jump on board you're

1040

00:38:27,069 --> 00:38:24,380

gonna see everyone get this because an

1041

00:38:29,890 --> 00:38:27,079

implant the size of a grain of rice can

1042

00:38:31,599 --> 00:38:29,900

literally replace about 30 or 40% of

1043

00:38:32,949 --> 00:38:31,609

your phone and of course it costs a

1044

00:38:34,929 --> 00:38:32,959

fraction well not a fraction but just

1045

00:38:36,189 --> 00:38:34,939

implants really only cost about ten or

1046

00:38:38,829 --> 00:38:36,199

twenty dollars that's how cheap they're

1047

00:38:40,120 --> 00:38:38,839

gonna get and when that starts happening

1048

00:38:42,849 --> 00:38:40,130

people are going to say you know I'm not

1049

00:38:44,289 --> 00:38:42,859

gonna buy \$700 iPhone if this does

1050

00:38:48,249 --> 00:38:44,299

thirty or forty percent of those things

1051

00:38:51,489 --> 00:38:48,259

well do you think there are a lot of

1052

00:38:55,209 --> 00:38:51,499

risks to where things are going you like

1053

00:38:57,279 --> 00:38:55,219

Elon Musk thinks that AI could be the

1054

00:39:01,059 --> 00:38:57,289

end of us all what are your thoughts on

1055

00:39:04,089 --> 00:39:01,069

that well I tend to agree with the Elan

1056

00:39:06,099 --> 00:39:04,099

musk on the AI I think there's no reason

1057

00:39:07,959 --> 00:39:06,109

to have an intelligence as smart as a

1058

00:39:09,939 --> 00:39:07,969

human being on planet Earth

1059

00:39:12,429 --> 00:39:09,949

I just because it could very quickly

1060

00:39:14,170 --> 00:39:12,439

become much smarter and it'll in a

1061

00:39:15,579 --> 00:39:14,180

magnetic and devise ways that we can't

1062

00:39:19,929 --> 00:39:15,589

shut it down because it's smarter than

1063

00:39:21,429 --> 00:39:19,939

us and you know if that happens why

1064

00:39:23,049 --> 00:39:21,439

would we invite something that's that

1065

00:39:24,729 --> 00:39:23,059

much smarter than us when we don't know

1066

00:39:26,199 --> 00:39:24,739

if it's gonna be good or bad if we knew

1067

00:39:28,299 --> 00:39:26,209

is gonna be good I'd say sure let's have

1068

00:39:29,679 --> 00:39:28,309

something smarter than us but we

1069

00:39:33,130 --> 00:39:29,689

wouldn't be the top of the food chain so

1070

00:39:34,900 --> 00:39:33,140

I worry about these technologies but

1071

00:39:36,609 --> 00:39:34,910

generally speaking technology and

1072

00:39:38,169 --> 00:39:36,619

radical science have helped the human

1073

00:39:40,479 --> 00:39:38,179

race out over the last 30 years

1074

00:39:42,609 --> 00:39:40,489

lifespans have increased been less

1075

00:39:44,769 --> 00:39:42,619

people dying from war and things like

1076

00:39:46,900 --> 00:39:44,779

that so there's a good historical

1077

00:39:49,749 --> 00:39:46,910

pattern for saying that radical science

1078

00:39:52,120 --> 00:39:49,759

radical technology helps lives saves

1079

00:39:54,299 --> 00:39:52,130

lives makes lives better and longer but

1080

00:39:57,099 --> 00:39:54,309

we might come to a tipping point with AI

1081

00:39:59,259 --> 00:39:57,109

whereas you know all the sudden just one

1082

00:40:01,269 --> 00:39:59,269

person turns on a flick of a switch and

1083

00:40:03,969 --> 00:40:01,279

now you know the whole world very

1084

00:40:05,589 --> 00:40:03,979

quickly goes like that and I'd

1085

00:40:07,029 --> 00:40:05,599

especially think this is a very

1086

00:40:09,370 --> 00:40:07,039

important national security concern

1087

00:40:12,219 --> 00:40:09,380

imagine if you know Russia or North

1088

00:40:14,140 --> 00:40:12,229

Korea were to reach AI first and use

1089

00:40:16,329 --> 00:40:14,150

that against the American military let's

1090

00:40:18,370 --> 00:40:16,339

say there were a you know essentially

1091

00:40:20,109 --> 00:40:18,380

throw ever all our military computers

1092

00:40:22,179 --> 00:40:20,119

into whack because they have one machine

1093

00:40:24,130 --> 00:40:22,189

that can out think all of our engineers

1094

00:40:26,380 --> 00:40:24,140

and that's a very real

1095

00:40:28,120 --> 00:40:26,390

in fact I you know said before that the

1096

00:40:30,880 --> 00:40:28,130

the most important national security

1097

00:40:34,390 --> 00:40:30,890

issue of the decade is going to be who

1098

00:40:36,250 --> 00:40:34,400

gets to true AI first or artificial

1099

00:40:38,110 --> 00:40:36,260

general intelligence which is an

1100

00:40:40,600 --> 00:40:38,120

intelligence that's equivalent to human

1101
00:40:42,790 --> 00:40:40,610
beings and there's a race going on it's

1102
00:40:45,160 --> 00:40:42,800
it's it's a it's a it's a race as much

1103
00:40:47,020 --> 00:40:45,170
as exciting as anything of the arms race

1104
00:40:48,520 --> 00:40:47,030
with the Cold War and I you're gonna be

1105
00:40:50,320 --> 00:40:48,530
hearing huge amounts about it because

1106
00:40:53,020 --> 00:40:50,330
we're gonna it would be worth spending

1107
00:40:55,330 --> 00:40:53,030
trillions of dollars if it means being a

1108
00:40:57,070 --> 00:40:55,340
democratic nation reaching that

1109
00:40:59,560 --> 00:40:57,080
artificial general intelligence first

1110
00:41:02,050 --> 00:40:59,570
rather than some rogue nation and I'll

1111
00:41:03,970 --> 00:41:02,060
send them using it against us to to make

1112
00:41:06,070 --> 00:41:03,980
all our you know they could for example

1113
00:41:08,020 --> 00:41:06,080

in a flick of a switch make all the

1114

00:41:10,270 --> 00:41:08,030

gps's and all the sixteen thousand

1115

00:41:12,220 --> 00:41:10,280

flights above America right now stop I

1116

00:41:14,140 --> 00:41:12,230

mean can you imagine what kind of chaos

1117

00:41:15,940 --> 00:41:14,150

could happen and that's just one thing

1118

00:41:17,470 --> 00:41:15,950

it could turn off all the lights all the

1119

00:41:19,240 --> 00:41:17,480

power grids could be shut down I mean

1120

00:41:20,950 --> 00:41:19,250

honestly they could you not only

1121

00:41:22,600 --> 00:41:20,960

trillions of dollars being lost daily

1122

00:41:25,210 --> 00:41:22,610

because the stock market shutdowns but

1123

00:41:26,950 --> 00:41:25,220

you could send countries back almost to

1124

00:41:28,630 --> 00:41:26,960

the dark ages what would happen in a

1125

00:41:30,850 --> 00:41:28,640

city like New York or San Francisco of

1126

00:41:32,950 --> 00:41:30,860

nothing ran I mean most people have no

1127

00:41:34,570 --> 00:41:32,960

idea how to survive in fact this has

1128

00:41:36,760 --> 00:41:34,580

been the stuff of science fiction novels

1129

00:41:39,430 --> 00:41:36,770

and and that's why it's so important

1130

00:41:41,110 --> 00:41:39,440

that we have either reach artificial

1131

00:41:42,610 --> 00:41:41,120

intelligence first because the key is

1132

00:41:44,590 --> 00:41:42,620

whoever reaches it first gets the

1133

00:41:46,540 --> 00:41:44,600

control all the other artificial

1134

00:41:49,480 --> 00:41:46,550

intelligences if we have the smarter AI

1135

00:41:51,700 --> 00:41:49,490

Rai will be able to be the one who stops

1136

00:41:53,710 --> 00:41:51,710

any other AI from developing I call this

1137

00:41:56,170 --> 00:41:53,720

the AI imperative whoever reaches the

1138

00:41:58,900 --> 00:41:56,180

very first or smartest AI will be able

1139

00:42:00,580 --> 00:41:58,910

to keep tabs on all the other AIS and if

1140

00:42:02,290 --> 00:42:00,590

they start developing too far they'll be

1141

00:42:04,840 --> 00:42:02,300

able to shut them down it's like you

1142

00:42:08,050 --> 00:42:04,850

know it works quite different than the

1143

00:42:09,640 --> 00:42:08,060

then nuclear warfare and nuclear warfare

1144

00:42:12,190 --> 00:42:09,650

we always kind of hit each other you hit

1145

00:42:13,930 --> 00:42:12,200

me back with this one the smartest say I

1146

00:42:16,270 --> 00:42:13,940

will sort of control all the others so

1147

00:42:18,760 --> 00:42:16,280

it's imperative that America or a

1148

00:42:20,650 --> 00:42:18,770

democratic nation reaches in ours yeah I

1149

00:42:22,210 --> 00:42:20,660

mean you always see like in sci-fi you

1150

00:42:24,880 --> 00:42:22,220

just mentioned that I'm thinking

1151
00:42:28,690 --> 00:42:24,890
probably a lot of our development has

1152
00:42:30,400 --> 00:42:28,700
actually inspired by sci-fi that you

1153
00:42:32,740 --> 00:42:30,410
know you always see ahead in the future

1154
00:42:36,460 --> 00:42:32,750
like Terminator you know a dystopian

1155
00:42:38,109 --> 00:42:36,470
future and you know I I wonder it is

1156
00:42:41,559 --> 00:42:38,119
scary you know it's excite

1157
00:42:44,620 --> 00:42:41,569
and scary at the same time you know oh

1158
00:42:45,910 --> 00:42:44,630
it it's very exciting and I think we've

1159
00:42:48,130 --> 00:42:45,920
been talking about some of the dystopian

1160
00:42:50,289 --> 00:42:48,140
things but can you imagine the medical

1161
00:42:51,579 --> 00:42:50,299
discoveries that an AI might make they

1162
00:42:53,620 --> 00:42:51,589
might be you know it might be able to

1163
00:42:55,749 --> 00:42:53,630

cure cancer in the first 24 hours of its

1164

00:42:57,339 --> 00:42:55,759

existence and say you know did you

1165

00:42:58,900 --> 00:42:57,349

humans try this well of course you

1166

00:43:01,210 --> 00:42:58,910

didn't this is what you need to do and

1167

00:43:02,950 --> 00:43:01,220

all of a sudden it's like oh wow you

1168

00:43:04,660 --> 00:43:02,960

know and some of our environmental

1169

00:43:07,269 --> 00:43:04,670

problems maybe I can figure out ways to

1170

00:43:09,039 --> 00:43:07,279

stop whatever we're doing and allow us

1171

00:43:10,779 --> 00:43:09,049

to even that do bad environmental things

1172

00:43:12,519 --> 00:43:10,789

and still keep the planet pristine

1173

00:43:14,620 --> 00:43:12,529

through nanotechnology and things like

1174

00:43:17,200 --> 00:43:14,630

that so there's a lot to be said for

1175

00:43:19,630 --> 00:43:17,210

developing it I've advocated for going

1176

00:43:21,460 --> 00:43:19,640

to the very edge when it becomes like

1177

00:43:23,739 --> 00:43:21,470

almost as smart as us is when we need to

1178

00:43:26,200 --> 00:43:23,749

pull back but until then let us spend as

1179

00:43:28,589 --> 00:43:26,210

much money as possible to develop this

1180

00:43:30,579 --> 00:43:28,599

because it will be a big boom for

1181

00:43:32,200 --> 00:43:30,589

economies and it will also be very

1182

00:43:34,120 --> 00:43:32,210

useful for Science and Technology it

1183

00:43:37,769 --> 00:43:34,130

will teach us yeah absolutely someone

1184

00:43:41,710 --> 00:43:37,779

mentioned the chat room about robotic

1185

00:43:43,539 --> 00:43:41,720

surgical you know procedures there

1186

00:43:45,279 --> 00:43:43,549

wouldn't be any malpractice you know I

1187

00:43:49,059 --> 00:43:45,289

mean there'd be much less of it if you

1188

00:43:51,400 --> 00:43:49,069

had you know such accurate accuracy my

1189

00:43:53,529 --> 00:43:51,410

wife is an ob/gyn and they've told her

1190

00:43:56,019 --> 00:43:53,539

you know at conferences it'd be prepared

1191

00:43:58,450 --> 00:43:56,029

than 15 or 20 years a robot might

1192

00:43:59,349 --> 00:43:58,460

deliver babies and it will do it 24

1193

00:44:01,120 --> 00:43:59,359

hours a day

1194

00:44:03,130 --> 00:44:01,130

it won't need 19 years of medical school

1195

00:44:04,960 --> 00:44:03,140

training it won't come with you know

1196

00:44:06,849 --> 00:44:04,970

college debt and if it does something

1197

00:44:08,109 --> 00:44:06,859

wrong you'll just get another one but I

1198

00:44:11,470 --> 00:44:08,119

think the most important thing is it can

1199

00:44:13,089 --> 00:44:11,480

actually work 24 hours a day you know

1200

00:44:16,239 --> 00:44:13,099

what are if doctors lose their jobs and

1201
00:44:19,089 --> 00:44:16,249
well you know what it's amazing so you

1202
00:44:21,039 --> 00:44:19,099
know but that's the reality is that you

1203
00:44:22,269 --> 00:44:21,049
know these things will happen and yeah

1204
00:44:23,589 --> 00:44:22,279
they're dropped liability this is why

1205
00:44:25,690 --> 00:44:23,599
I'm not sure insurance companies can

1206
00:44:28,059 --> 00:44:25,700
really survive the future there just

1207
00:44:30,309 --> 00:44:28,069
might not be so much destruction or

1208
00:44:32,589 --> 00:44:30,319
tragedy or whatever that we have sort of

1209
00:44:37,450 --> 00:44:32,599
make up or you may need to take a policy

1210
00:44:39,160 --> 00:44:37,460
to protect yourself from AI you know yes

1211
00:44:41,559 --> 00:44:39,170
no no maybe that's what that's the way

1212
00:44:44,259 --> 00:44:41,569
they'll do protect yourself in

1213
00:44:46,140 --> 00:44:44,269

Terminator now you know getting back to

1214

00:44:49,779 --> 00:44:46,150

the power grid you know I've heard

1215

00:44:52,030 --> 00:44:49,789

statistics that and say the power grid

1216

00:44:55,150 --> 00:44:52,040

goes down nationally in the United

1217

00:44:57,910 --> 00:44:55,160

States we lose about 90% of our

1218

00:45:00,100 --> 00:44:57,920

population within three years which is

1219

00:45:04,960 --> 00:45:00,110

it's hard to fathom that that could

1220

00:45:08,170 --> 00:45:04,970

happen but we are so much relying on you

1221

00:45:09,910 --> 00:45:08,180

know what we have right now to go back

1222

00:45:13,810 --> 00:45:09,920

in the Dark Ages I don't know a lot of

1223

00:45:15,970 --> 00:45:13,820

people just they couldn't do it no no I

1224

00:45:16,900 --> 00:45:15,980

mean look I've been a formerly a

1225

00:45:18,700 --> 00:45:16,910

journalist with National Geographic

1226

00:45:21,880 --> 00:45:18,710

Channel I've been to a number of war

1227

00:45:24,910 --> 00:45:21,890

zones and most war zones take place and

1228

00:45:26,320 --> 00:45:24,920

areas where you know not not developed

1229

00:45:29,050 --> 00:45:26,330

nations already kind of developing

1230

00:45:31,330 --> 00:45:29,060

nations or third world nations and so

1231

00:45:32,710 --> 00:45:31,340

it's hard you know a lot a lot of people

1232

00:45:34,390 --> 00:45:32,720

are developing they should have more of

1233

00:45:36,160 --> 00:45:34,400

a survival instinct because they've been

1234

00:45:38,560 --> 00:45:36,170

they know how to fix a car because they

1235

00:45:42,400 --> 00:45:38,570

don't have the brand new BMW X 3s or

1236

00:45:43,690 --> 00:45:42,410

what not however I can tell you that you

1237

00:45:46,210 --> 00:45:43,700

know if something like that happened in

1238

00:45:48,160 --> 00:45:46,220

my city and you know Mill Valley in San

1239

00:45:49,570 --> 00:45:48,170

Francisco I mean you know these are all

1240

00:45:51,400 --> 00:45:49,580

these are people that know how to code

1241

00:45:53,770 --> 00:45:51,410

you know these are people that work at

1242

00:45:55,630 --> 00:45:53,780

Facebook and maybe you know they have no

1243

00:45:56,860 --> 00:45:55,640

idea they wouldn't know how to fix a car

1244

00:45:58,180 --> 00:45:56,870

Denis you know nobody would be able to

1245

00:46:00,010 --> 00:45:58,190

start anything they wouldn't know where

1246

00:46:02,500 --> 00:46:00,020

to get gasoline or how to create it

1247

00:46:04,870 --> 00:46:02,510

nobody is is is a jack-of-all-trades

1248

00:46:06,820 --> 00:46:04,880

anymore we're just all so specialized

1249

00:46:08,770 --> 00:46:06,830

and you can see society breakdown very

1250

00:46:10,690 --> 00:46:08,780

quickly a lot of people make fun of the

1251
00:46:13,480 --> 00:46:10,700
Preppers and these people that you know

1252
00:46:15,490 --> 00:46:13,490
buy something up in the mountains but I

1253
00:46:17,530 --> 00:46:15,500
don't make fun of that at all in fact I

1254
00:46:19,210 --> 00:46:17,540
have a vineyard in Argentina for exactly

1255
00:46:22,090 --> 00:46:19,220
that reason on the other side of the

1256
00:46:24,310 --> 00:46:22,100
hemisphere because I know that if

1257
00:46:25,720 --> 00:46:24,320
something terrible happened we might

1258
00:46:26,890 --> 00:46:25,730
actually have to go to a different

1259
00:46:28,840 --> 00:46:26,900
hemisphere because of weather patterns

1260
00:46:31,810 --> 00:46:28,850
and the same thing with a place in Tahoe

1261
00:46:33,910 --> 00:46:31,820
and stuff like that I am prepared I'm a

1262
00:46:35,470 --> 00:46:33,920
bit of a paranoid guy I keep a lot of

1263
00:46:37,540 --> 00:46:35,480

rice in the house a lot of water

1264

00:46:40,240 --> 00:46:37,550

I have 17 smoke alarms you know there's

1265

00:46:42,430 --> 00:46:40,250

that I I believe that things can go

1266

00:46:44,140 --> 00:46:42,440

wrong very quickly and anyone that

1267

00:46:46,360 --> 00:46:44,150

doesn't know that is just not being

1268

00:46:48,400 --> 00:46:46,370

realistic we have we have come too far

1269

00:46:51,040 --> 00:46:48,410

as a society we should be careful

1270

00:46:53,800 --> 00:46:51,050

Preppers have something very they're

1271

00:46:55,660 --> 00:46:53,810

doing something very wise um okay I know

1272

00:46:59,050 --> 00:46:55,670

you you said you were short on time

1273

00:47:02,710 --> 00:46:59,060

tonight but I just another question I

1274

00:47:05,710 --> 00:47:02,720

got just a quick question is what would

1275

00:47:06,030 --> 00:47:05,720

you suggest I'll put it this way would

1276

00:47:09,540 --> 00:47:06,040

you

1277

00:47:11,970 --> 00:47:09,550

just if an implant is offered for

1278

00:47:13,530 --> 00:47:11,980

banking that someone gets it I know a

1279

00:47:16,590 --> 00:47:13,540

lot of people are really afraid to do

1280

00:47:22,620 --> 00:47:16,600

something like that how you think they

1281

00:47:24,150 --> 00:47:22,630

can be just as safe as anything else yes

1282

00:47:26,130 --> 00:47:24,160

you know I think the first thing with

1283

00:47:28,260 --> 00:47:26,140

banking and and implants and stuff like

1284

00:47:29,910 --> 00:47:28,270

that is that you just have to check your

1285

00:47:32,130 --> 00:47:29,920

accounts all the time I do this already

1286

00:47:33,720 --> 00:47:32,140

I mean I just had somebody last year we

1287

00:47:35,250 --> 00:47:33,730

were on the campaign trail and somebody

1288

00:47:37,080 --> 00:47:35,260

took my credit card accidentally not

1289

00:47:39,510 --> 00:47:37,090

accidentally but stole it and all Sunday

1290

00:47:41,430 --> 00:47:39,520

you know charge \$800 if I wasn't

1291

00:47:42,510 --> 00:47:41,440

checking it that it would be like a

1292

00:47:44,520 --> 00:47:42,520

nightmare that somebody would have done

1293

00:47:46,650 --> 00:47:44,530

and I wouldn't have noticed I think with

1294

00:47:48,480 --> 00:47:46,660

the implant you just got to follow the

1295

00:47:50,340 --> 00:47:48,490

technology there's gonna be a lot of

1296

00:47:52,020 --> 00:47:50,350

security technology anytime something

1297

00:47:54,300 --> 00:47:52,030

like this comes out immediately all the

1298

00:47:55,680 --> 00:47:54,310

hackers go after it and then all the you

1299

00:47:57,690 --> 00:47:55,690

know the the anti hackers or the

1300

00:47:59,130 --> 00:47:57,700

security people the people often ask me

1301

00:48:00,690 --> 00:47:59,140

what's the field of future and I said

1302

00:48:02,670 --> 00:48:00,700

well cybersecurity is the field of the

1303

00:48:04,680 --> 00:48:02,680

future because we're always gonna as

1304

00:48:06,510 --> 00:48:04,690

technology becomes warm or a Bic witness

1305

00:48:08,670 --> 00:48:06,520

we're gonna need more and more to people

1306

00:48:10,530 --> 00:48:08,680

to protect us protect our privacy but

1307

00:48:12,480 --> 00:48:10,540

you know but hands-on with your

1308

00:48:14,640 --> 00:48:12,490

technology is what's very very important

1309

00:48:16,230 --> 00:48:14,650

to me is I still follow my banks you

1310

00:48:18,170 --> 00:48:16,240

know at least fewer every few days I

1311

00:48:20,580 --> 00:48:18,180

check I check my credit card charges

1312

00:48:22,410 --> 00:48:20,590

you can check who's been inside your

1313

00:48:23,880 --> 00:48:22,420

house with this chip you know because

1314

00:48:26,850 --> 00:48:23,890

you can see well how many you know who

1315

00:48:29,010 --> 00:48:26,860

else went into it it's an RFID so that

1316

00:48:31,230 --> 00:48:29,020

is sometimes very useful but you also

1317

00:48:33,810 --> 00:48:31,240

have to you know it opens up all sorts

1318

00:48:36,870 --> 00:48:33,820

of other cans of worms and stuff like

1319

00:48:39,270 --> 00:48:36,880

that so you know I mean we just have to

1320

00:48:41,280 --> 00:48:39,280

you take it as it comes but always be

1321

00:48:42,840 --> 00:48:41,290

cautious right right and so you're

1322

00:48:44,220 --> 00:48:42,850

running for governor we miles I'll put

1323

00:48:44,640 --> 00:48:44,230

that plug out there you're running for

1324

00:48:49,140 --> 00:48:44,650

governor

1325

00:48:51,630 --> 00:48:49,150

sure in 2018 oh yes I'm a libertarian

1326
00:48:53,790 --> 00:48:51,640
candidate for governor in California and

1327
00:48:55,880 --> 00:48:53,800
I'm one of the you know I'd say one of

1328
00:48:58,950 --> 00:48:55,890
the top seven candidates right now and

1329
00:49:01,410 --> 00:48:58,960
you know I'm I pushing forth the basic

1330
00:49:03,630 --> 00:49:01,420
income and I'm pushing forth science and

1331
00:49:05,850 --> 00:49:03,640
technology and I'm also pushing forth

1332
00:49:08,430 --> 00:49:05,860
protecting your freedoms even though you

1333
00:49:10,230 --> 00:49:08,440
know I realize that technology is is

1334
00:49:12,600 --> 00:49:10,240
definitely challenging a lot of those

1335
00:49:14,100 --> 00:49:12,610
those freedoms but you know technology

1336
00:49:16,170 --> 00:49:14,110
might also give us a lot of freedoms as

1337
00:49:17,580 --> 00:49:16,180
well so I'm you know if you're

1338
00:49:18,750 --> 00:49:17,590

interested in my can and see how you can

1339

00:49:19,870 --> 00:49:18,760

write me an email or check out my

1340

00:49:21,970 --> 00:49:19,880

website or whatever

1341

00:49:23,529 --> 00:49:21,980

is but I'm definitely all-in with the

1342

00:49:27,849 --> 00:49:23,539

running for governor in California now

1343

00:49:31,210 --> 00:49:27,859

as Jerry is Jerry done as he running

1344

00:49:33,220 --> 00:49:31,220

also ya know Jerry is done he's reached

1345

00:49:35,380 --> 00:49:33,230

his term limit the main candidate is his

1346

00:49:37,569 --> 00:49:35,390

lieutenant governor Gavin yeah we used

1347

00:49:40,059 --> 00:49:37,579

to be the mayor of San Francisco yeah

1348

00:49:42,789 --> 00:49:40,069

and you know there are other candidates

1349

00:49:44,470 --> 00:49:42,799

out there too most of them most of

1350

00:49:46,509 --> 00:49:44,480

strength in California is from Democrats

1351
00:49:48,579 --> 00:49:46,519
but there's a few other Republicans some

1352
00:49:50,559 --> 00:49:48,589
you know to be honest - I don't think I

1353
00:49:53,999 --> 00:49:50,569
stand much chance of winning a lot of

1354
00:49:56,230 --> 00:49:54,009
what my platform is is to represent

1355
00:49:59,170 --> 00:49:56,240
radical science and technology and to

1356
00:50:00,880 --> 00:49:59,180
not let candidates go you know through

1357
00:50:02,890 --> 00:50:00,890
this entire process without asking the

1358
00:50:04,870 --> 00:50:02,900
tough questions I like to direct a lot

1359
00:50:06,940 --> 00:50:04,880
of my op eds and articles to them and

1360
00:50:08,769 --> 00:50:06,950
say why are you talking about automation

1361
00:50:10,569 --> 00:50:08,779
you know don't just talk about Social

1362
00:50:12,759 --> 00:50:10,579
Security and taxes like it's gonna be

1363
00:50:14,920 --> 00:50:12,769

here forever we you know different ways

1364

00:50:17,620 --> 00:50:14,930

of life are about to embark on that's

1365

00:50:19,930 --> 00:50:17,630

about to happen you know as politicians

1366

00:50:21,970 --> 00:50:19,940

it so upset me that Hillary and

1367

00:50:24,339 --> 00:50:21,980

president Trump during the presidential

1368

00:50:27,430 --> 00:50:24,349

debates never discussed radical science

1369

00:50:28,720 --> 00:50:27,440

never discussed AI never discussed some

1370

00:50:31,870 --> 00:50:28,730

of the some of the more important

1371

00:50:33,970 --> 00:50:31,880

concepts so I'm I'm trying to bring that

1372

00:50:35,559 --> 00:50:33,980

to the forefront as a science candidate

1373

00:50:38,259 --> 00:50:35,569

and you know I'm lucky that my publicity

1374

00:50:40,059 --> 00:50:38,269

keeps growing so I'm well I might not

1375

00:50:42,670 --> 00:50:40,069

win this time maybe I will next time all

1376

00:50:47,380 --> 00:50:42,680

right well just one one last question if

1377

00:50:49,870 --> 00:50:47,390

you don't mind the the driverless car do

1378

00:50:52,990 --> 00:50:49,880

you think there's going to be some type

1379

00:50:54,849 --> 00:50:53,000

of pushback in the government or type of

1380

00:51:01,150 --> 00:50:54,859

rate regulations that'll make that not

1381

00:51:04,420 --> 00:51:01,160

happen easily I do I do not I think the

1382

00:51:08,920 --> 00:51:04,430

driverless cars one is one that all the

1383

00:51:10,509 --> 00:51:08,930

taxi you know you know the taxi move of

1384

00:51:12,940 --> 00:51:10,519

the trucking movements things like that

1385

00:51:15,009 --> 00:51:12,950

lobbyists they're gonna be fighting but

1386

00:51:17,920 --> 00:51:15,019

they're not enough in numbers to what

1387

00:51:19,900 --> 00:51:17,930

the driverless industry is going to do

1388

00:51:22,029 --> 00:51:19,910

in terms of economic terms you're

1389

00:51:24,249 --> 00:51:22,039

talking about entirely brand new cars

1390

00:51:26,490 --> 00:51:24,259

it's all the offshoots it's all the new

1391

00:51:28,450 --> 00:51:26,500

types of roads all the new types of

1392

00:51:31,690 --> 00:51:28,460

mechanisms that are going to be needed

1393

00:51:33,790 --> 00:51:31,700

that actually make this more I think

1394

00:51:36,100 --> 00:51:33,800

important economically that

1395

00:51:37,720 --> 00:51:36,110

drivers are going to be replaced even if

1396

00:51:39,730 --> 00:51:37,730

ten million drivers get replaced in

1397

00:51:42,010 --> 00:51:39,740

America it's not going to offset what

1398

00:51:45,190 --> 00:51:42,020

the economic boom is going to be from a

1399

00:51:46,750 --> 00:51:45,200

driverless car industry and I think

1400

00:51:48,970 --> 00:51:46,760

ultimately that's going to sway Congress

1401
00:51:51,070 --> 00:51:48,980
to say well this will provide more jobs

1402
00:51:53,290 --> 00:51:51,080
and more economic benefit than the loss

1403
00:51:54,460 --> 00:51:53,300
of jobs we'll find you other jobs at

1404
00:51:56,650 --> 00:51:54,470
least that's what they're gonna say

1405
00:51:57,940 --> 00:51:56,660
so I don't think Congress they're gonna

1406
00:51:59,230 --> 00:51:57,950
fight it some people are gonna say you

1407
00:52:00,910 --> 00:51:59,240
know for their constituents you know in

1408
00:52:02,950 --> 00:52:00,920
New York City of course the taxi

1409
00:52:06,310 --> 00:52:02,960
lobbyists are so powerful what not but

1410
00:52:08,380 --> 00:52:06,320
in real terms a lot of the public you

1411
00:52:10,240 --> 00:52:08,390
and I the amount of time we're gonna

1412
00:52:12,760 --> 00:52:10,250
spend working in our cars instead of

1413
00:52:15,460 --> 00:52:12,770

spent traffic that's gonna be so much

1414

00:52:18,310 --> 00:52:15,470

more productive for the American economy

1415

00:52:20,230 --> 00:52:18,320

and also from paying more taxes then you

1416

00:52:22,630 --> 00:52:20,240

know whether a taxi driver a truck

1417

00:52:24,460 --> 00:52:22,640

driver loses their job so I think

1418

00:52:25,720 --> 00:52:24,470

Congress won't give it too hard at a

1419

00:52:27,250 --> 00:52:25,730

time what they're really going to be

1420

00:52:29,380 --> 00:52:27,260

important is being important is the

1421

00:52:31,900 --> 00:52:29,390

safety factor but like I said the safety

1422

00:52:34,990 --> 00:52:31,910

so far shows that drive those cars is

1423

00:52:36,430 --> 00:52:35,000

far far safer so um you know and I think

1424

00:52:38,290 --> 00:52:36,440

it's gonna be far more efficient you're

1425

00:52:40,960 --> 00:52:38,300

gonna the new age of driverless cars is

1426
00:52:43,210 --> 00:52:40,970
gonna be amazing because you know we

1427
00:52:45,100 --> 00:52:43,220
grew up having to fight traffic and I go

1428
00:52:46,600 --> 00:52:45,110
out my road I thought every morning wait

1429
00:52:47,950 --> 00:52:46,610
for the red lights all these things when

1430
00:52:49,720 --> 00:52:47,960
you're in there reading your paper or

1431
00:52:52,030 --> 00:52:49,730
already working in your office which is

1432
00:52:54,430 --> 00:52:52,040
in a car yeah you know or you're doing a

1433
00:52:55,690 --> 00:52:54,440
podcast from a car and that's that's

1434
00:52:57,130 --> 00:52:55,700
gonna be brilliant I think a lot of

1435
00:52:58,840 --> 00:52:57,140
people underestimate how much our

1436
00:53:01,180 --> 00:52:58,850
productivity levels are going to rise

1437
00:53:05,080 --> 00:53:01,190
because a driverless car just on a

1438
00:53:06,310 --> 00:53:05,090

personal level excellent I in and I just

1439

00:53:08,350 --> 00:53:06,320

want to say there's also all these other

1440

00:53:10,660 --> 00:53:08,360

functions you know you send your kids in

1441

00:53:12,340 --> 00:53:10,670

the driverless cars to go to schools you

1442

00:53:14,380 --> 00:53:12,350

don't have to be with them you know that

1443

00:53:16,300 --> 00:53:14,390

the car drops them off there's so much

1444

00:53:18,190 --> 00:53:16,310

about robotics that a lot of people miss

1445

00:53:20,140 --> 00:53:18,200

you know already with the new Tesla's

1446

00:53:21,550 --> 00:53:20,150

you can call your car to get you so if

1447

00:53:23,140 --> 00:53:21,560

you have mobility issues and you're

1448

00:53:25,150 --> 00:53:23,150

getting out of a restaurant but your car

1449

00:53:27,190 --> 00:53:25,160

is parked four blocks away you call it

1450

00:53:28,480 --> 00:53:27,200

to you I mean people forget the kind of

1451
00:53:30,460 --> 00:53:28,490
convenience that's gonna come from

1452
00:53:33,670 --> 00:53:30,470
having this little this vehicle that

1453
00:53:35,350 --> 00:53:33,680
just listens to every command so I was

1454
00:53:37,480 --> 00:53:35,360
just actually gonna say something about

1455
00:53:41,710 --> 00:53:37,490
Tesla because I know you know they're

1456
00:53:44,290 --> 00:53:41,720
manufactured out your way but the cars

1457
00:53:46,900 --> 00:53:44,300
that come out now are all set up so they

1458
00:53:48,849 --> 00:53:46,910
can be upgraded to

1459
00:53:51,099 --> 00:53:48,859
just through a software to be a

1460
00:53:53,200 --> 00:53:51,109
driverless car is they were set up that

1461
00:53:56,470 --> 00:53:53,210
way with the cameras are already you

1462
00:53:58,240 --> 00:53:56,480
know I I saw one locally and the guy was

1463
00:53:59,859 --> 00:53:58,250

telling me all about it so within a

1464

00:54:01,059 --> 00:53:59,869

couple years when that technology is

1465

00:54:03,069 --> 00:54:01,069

approved and everything

1466

00:54:06,339 --> 00:54:03,079

the Tesla cars that are built right now

1467

00:54:08,349 --> 00:54:06,349

are going to be driverless oh yeah oh

1468

00:54:09,940 --> 00:54:08,359

yeah I mean it's at this point is just

1469

00:54:10,839 --> 00:54:09,950

gonna be upgradable stuff you know

1470

00:54:12,279 --> 00:54:10,849

you're just gonna do through the

1471

00:54:14,500 --> 00:54:12,289

internet like we do it on our iPhones

1472

00:54:16,150 --> 00:54:14,510

and every every few months it'll

1473

00:54:17,410 --> 00:54:16,160

probably just get safer and better and

1474

00:54:20,470 --> 00:54:17,420

more efficient and more function right

1475

00:54:23,980 --> 00:54:20,480

hey thanks so much can you actually say

1476
00:54:26,559 --> 00:54:23,990
your website one more time sure um if

1477
00:54:30,069 --> 00:54:26,569
your viewers it's a Zoltan Istvan calm

1478
00:54:32,049 --> 00:54:30,079
that's zo l ta n is TV am calm

1479
00:54:34,660 --> 00:54:32,059
but I'm also a columnist for a number of

1480
00:54:36,819 --> 00:54:34,670
places vice Wired Newsweek and all these

1481
00:54:38,380 --> 00:54:36,829
other places I write articles for so you

1482
00:54:41,200 --> 00:54:38,390
can just google my name to find out

1483
00:54:42,400 --> 00:54:41,210
about me as well so there's a lot of fun

1484
00:54:44,109 --> 00:54:42,410
stories that I've written on all the

1485
00:54:45,670 --> 00:54:44,119
topics we raised excellent thanks so

1486
00:54:48,940 --> 00:54:45,680
much it's been a real real pleasure

1487
00:54:51,000 --> 00:54:48,950
really enjoyed it absolutely it's been a

1488
00:54:54,099 --> 00:54:51,010

great pleasure to talk to you take care

1489

00:54:56,609 --> 00:54:54,109

thank you so much alright everyone thank

1490

00:55:00,970 --> 00:54:56,619

you so much for listening and watching

1491

00:55:04,720 --> 00:55:00,980

on YouTube and next week we're gonna be

1492

00:55:07,420 --> 00:55:04,730

back with Bill Hall and he's gonna be

1493

00:55:11,260 --> 00:55:07,430

talking about the Bridgeport poltergeist

1494

00:55:13,990 --> 00:55:11,270

should be a fun show so again I want to