



1
00:00:26,790 --> 00:00:23,910
[Applause]

2
00:00:29,029 --> 00:00:26,800
the man i'm about to introduce

3
00:00:30,470 --> 00:00:29,039
is a patriot

4
00:00:32,630 --> 00:00:30,480
a leader

5
00:00:34,549 --> 00:00:32,640
and a visionary

6
00:00:37,590 --> 00:00:34,559
he's also someone who knows the

7
00:00:40,470 --> 00:00:37,600
importance of america being the leader

8
00:00:42,790 --> 00:00:40,480
in science and technology through space

9
00:00:44,389 --> 00:00:42,800
exploration

10
00:00:46,310 --> 00:00:44,399
he's been there

11
00:00:48,229 --> 00:00:46,320
done that

12
00:00:50,069 --> 00:00:48,239
he's a marine general

13
00:00:52,229 --> 00:00:50,079

an aviator

14

00:00:55,510 --> 00:00:52,239

a test pilot

15

00:00:57,670 --> 00:00:55,520

who flew more than a hundred missions in

16

00:00:59,430 --> 00:00:57,680

vietnam

17

00:01:02,229 --> 00:00:59,440

he's an astronaut

18

00:01:04,710 --> 00:01:02,239

and a veteran of four space shuttle

19

00:01:04,710 --> 00:01:04,720

flights

20

00:01:09,750 --> 00:01:06,630

i've known him the better part of a

21

00:01:13,030 --> 00:01:09,760

quarter of a century

22

00:01:14,870 --> 00:01:13,040

on our space flight i trusted him with

23

00:01:17,510 --> 00:01:14,880

my life

24

00:01:19,429 --> 00:01:17,520

and i would do so again

25

00:01:29,429 --> 00:01:19,439

ladies and gentlemen the administrator

26

00:01:38,069 --> 00:01:34,390

thank you very much

27

00:01:39,910 --> 00:01:38,079

thanks to all of you for coming out

28

00:01:41,190 --> 00:01:39,920

today as difficult as it may have been

29

00:01:43,270 --> 00:01:41,200

to get here

30

00:01:44,710 --> 00:01:43,280

it's good to see a lot of you and i want

31

00:01:45,830 --> 00:01:44,720

to welcome all of you to the kennedy

32

00:01:47,990 --> 00:01:45,840

space center

33

00:01:49,749 --> 00:01:48,000

this is a place that's uh quite close to

34

00:01:52,230 --> 00:01:49,759

my heart and it's a place like no other

35

00:01:53,749 --> 00:01:52,240

place on the planet to be quite honest

36

00:01:55,190 --> 00:01:53,759

it's a place that has of course a

37

00:01:56,870 --> 00:01:55,200

storied history

38

00:01:59,190 --> 00:01:56,880

being the launch site of so many of

39

00:02:01,190 --> 00:01:59,200

humanity's most ambitious and even

40

00:02:03,510 --> 00:02:01,200

audacious endeavors

41

00:02:05,990 --> 00:02:03,520

but also a place that has i can assure

42

00:02:08,309 --> 00:02:06,000

you a storied future

43

00:02:10,150 --> 00:02:08,319

i'm here today to introduce a man who

44

00:02:11,830 --> 00:02:10,160

more than anyone i've met in my career

45

00:02:12,949 --> 00:02:11,840

as an officer of marines and a nasa

46

00:02:14,550 --> 00:02:12,959

astronaut

47

00:02:16,309 --> 00:02:14,560

is committed to the arrival of that

48

00:02:19,110 --> 00:02:16,319

vibrant future

49

00:02:21,110 --> 00:02:19,120

as the space community knows very well

50

00:02:22,949 --> 00:02:21,120

dreams don't become a reality through

51
00:02:26,390 --> 00:02:22,959
wishful thinking alone

52
00:02:28,390 --> 00:02:26,400
much less through highfalutin talk

53
00:02:29,830 --> 00:02:28,400
and even though a steady flow of federal

54
00:02:32,630 --> 00:02:29,840
funding

55
00:02:34,229 --> 00:02:32,640
may help that doesn't make things happen

56
00:02:36,550 --> 00:02:34,239
to come true

57
00:02:40,309 --> 00:02:36,560
dreams need to be tested in the crucible

58
00:02:42,229 --> 00:02:40,319
of practicality trial and error

59
00:02:45,350 --> 00:02:42,239
they need to be calibrated and thought

60
00:02:47,589 --> 00:02:45,360
through in painstaking detail so that

61
00:02:49,110 --> 00:02:47,599
all the pieces are certain to work

62
00:02:52,229 --> 00:02:49,120
together

63
00:02:53,670 --> 00:02:52,239

in this case to lift us physically and i

64

00:02:55,030 --> 00:02:53,680

dare say emotionally and even

65

00:02:57,270 --> 00:02:55,040

spiritually

66

00:03:00,070 --> 00:02:57,280

into the deep frontier the star-studded

67

00:03:01,990 --> 00:03:00,080

universe that all of us are so anxious

68

00:03:03,910 --> 00:03:02,000

to explore

69

00:03:05,750 --> 00:03:03,920

the thing that has me so excited about

70

00:03:07,589 --> 00:03:05,760

the path forward today

71

00:03:10,149 --> 00:03:07,599

is that the man i'm about to introduce

72

00:03:12,309 --> 00:03:10,159

understands how critical it is to get

73

00:03:14,630 --> 00:03:12,319

that process right

74

00:03:16,630 --> 00:03:14,640

to put it into place an inspired but

75

00:03:18,949 --> 00:03:16,640

methodical plan that can really work for

76
00:03:21,190 --> 00:03:18,959
america and for the thousands of workers

77
00:03:23,509 --> 00:03:21,200
who every day are straining at the bit

78
00:03:25,830 --> 00:03:23,519
and giving their best to stretch the

79
00:03:27,830 --> 00:03:25,840
boundaries of human what humanity can

80
00:03:29,750 --> 00:03:27,840
call home

81
00:03:32,710 --> 00:03:29,760
i'm talking about a president who has

82
00:03:35,430 --> 00:03:32,720
even in these tough economic times

83
00:03:37,589 --> 00:03:35,440
has recognized the value of science

84
00:03:39,910 --> 00:03:37,599
engineering and innovation to this

85
00:03:41,589 --> 00:03:39,920
nation's nation's future

86
00:03:43,030 --> 00:03:41,599
to its economy

87
00:03:45,350 --> 00:03:43,040
its health

88
00:03:47,830 --> 00:03:45,360

its national security and who

89

00:03:50,229 --> 00:03:47,840

in his short tenure has already through

90

00:03:51,830 --> 00:03:50,239

his budgets and the recovery act lifted

91

00:03:53,429 --> 00:03:51,840

the federal investment in civilian

92

00:03:55,830 --> 00:03:53,439

research and development to

93

00:03:57,910 --> 00:03:55,840

unprecedented heights

94

00:03:59,670 --> 00:03:57,920

a president who has declared that it is

95

00:04:01,670 --> 00:03:59,680

essential for our students to get better

96

00:04:03,030 --> 00:04:01,680

science and educa and engineering

97

00:04:05,429 --> 00:04:03,040

educations

98

00:04:07,190 --> 00:04:05,439

and who has not just said so

99

00:04:08,869 --> 00:04:07,200

but has put into place

100

00:04:11,030 --> 00:04:08,879

and obtained generous funding for

101
00:04:12,710 --> 00:04:11,040
programs to get them there

102
00:04:14,949 --> 00:04:12,720
a president who has brought hundreds of

103
00:04:16,789 --> 00:04:14,959
students into the white house lawn

104
00:04:18,710 --> 00:04:16,799
to look through telescopes

105
00:04:20,310 --> 00:04:18,720
and meet astronauts like buzz aldrin and

106
00:04:22,310 --> 00:04:20,320
sally ride

107
00:04:23,990 --> 00:04:22,320
and you better believe from the looks on

108
00:04:27,030 --> 00:04:24,000
those kids faces

109
00:04:28,870 --> 00:04:27,040
they recognize the power of space to

110
00:04:30,390 --> 00:04:28,880
inspire

111
00:04:33,189 --> 00:04:30,400
ladies and gentlemen it's my greatest

112
00:04:35,510 --> 00:04:33,199
honor to introduce to you a man for whom

113
00:04:36,870 --> 00:04:35,520

i have the greatest personal respect and

114

00:04:38,950 --> 00:04:36,880

admiration

115

00:04:41,990 --> 00:04:38,960

a man who absolutely has the right stuff

116

00:04:43,590 --> 00:04:42,000

to lead us into a new era of exploration

117

00:04:45,189 --> 00:04:43,600

and discovery

118

00:04:47,110 --> 00:04:45,199

please join me

119

00:04:57,620 --> 00:04:47,120

in welcoming welcoming the president of

120

00:04:57,630 --> 00:05:07,270

[Music]

121

00:05:13,990 --> 00:05:11,029

thank you everybody thank you

122

00:05:16,070 --> 00:05:14,000

thank you so much

123

00:05:18,790 --> 00:05:16,080

thank you everybody please have a seat

124

00:05:22,950 --> 00:05:20,870

i want to thank

125

00:05:25,110 --> 00:05:22,960

senator bill nelson

126
00:05:26,070 --> 00:05:25,120
and nasa administrator charlie bolden

127
00:05:28,310 --> 00:05:26,080
for their

128
00:05:30,870 --> 00:05:28,320
extraordinary leadership

129
00:05:32,870 --> 00:05:30,880
i want to recognize

130
00:05:41,350 --> 00:05:32,880
dr buzz aldrin as well who's in the

131
00:05:47,110 --> 00:05:44,390
four decades ago buzz became a legend

132
00:05:48,390 --> 00:05:47,120
but in the four decades since he's also

133
00:05:50,550 --> 00:05:48,400
been one of america's leading

134
00:05:52,790 --> 00:05:50,560
visionaries and authorities on human

135
00:05:54,310 --> 00:05:52,800
space flight

136
00:05:58,309 --> 00:05:54,320
a few people

137
00:06:00,870 --> 00:05:58,319
president company excluded can claim the

138
00:06:03,270 --> 00:06:00,880

expertise of buzz and bill and charlie

139

00:06:04,950 --> 00:06:03,280

when it comes to space exploration i

140

00:06:07,590 --> 00:06:04,960

have to say that

141

00:06:13,909 --> 00:06:07,600

few people are as singularly unimpressed

142

00:06:17,590 --> 00:06:16,070

sure it's comfortable but

143

00:06:20,950 --> 00:06:17,600

it can't even reach

144

00:06:22,150 --> 00:06:20,960

low earth orbit

145

00:06:24,070 --> 00:06:22,160

and

146

00:06:25,830 --> 00:06:24,080

that obviously is in striking contrast

147

00:06:28,550 --> 00:06:25,840

to the falcon 9 rocket we just saw on

148

00:06:31,830 --> 00:06:28,560

the launch pad which will be tested for

149

00:06:33,270 --> 00:06:31,840

the very first time in the coming weeks

150

00:06:34,469 --> 00:06:33,280

a couple of other acknowledgments i want

151
00:06:36,710 --> 00:06:34,479
to make

152
00:06:38,550 --> 00:06:36,720
we've got congresswoman sheila jackson

153
00:06:40,309 --> 00:06:38,560
lee from texas

154
00:06:46,150 --> 00:06:40,319
visiting us

155
00:06:50,629 --> 00:06:48,390
my director uh office of science and

156
00:06:52,790 --> 00:06:50,639
technology policy in other words my

157
00:06:59,510 --> 00:06:52,800
chief science advisor john holdren is

158
00:07:05,110 --> 00:07:02,230
and most of all i want to acknowledge

159
00:07:06,150 --> 00:07:05,120
your congresswoman suzanne cosmos

160
00:07:08,790 --> 00:07:06,160
because

161
00:07:10,950 --> 00:07:08,800
every time i meet with her

162
00:07:13,589 --> 00:07:10,960
including the flight down here

163
00:07:15,749 --> 00:07:13,599

she reminds me of how important

164

00:07:17,990 --> 00:07:15,759

our nasa programs are and how important

165

00:07:19,830 --> 00:07:18,000

this facility is and she is fighting for

166

00:07:22,309 --> 00:07:19,840

every single one of you

167

00:07:24,150 --> 00:07:22,319

and for her district and for the jobs in

168

00:07:25,830 --> 00:07:24,160

her district and i you should know that

169

00:07:27,510 --> 00:07:25,840

you've got a great champion in

170

00:07:36,629 --> 00:07:27,520

congresswoman cosmos please give her a

171

00:07:40,070 --> 00:07:38,070

i also want to thank everybody for

172

00:07:42,790 --> 00:07:40,080

participating in today's conference and

173

00:07:45,670 --> 00:07:42,800

gathered here are scientists engineers

174

00:07:48,309 --> 00:07:45,680

business leaders public servants and a

175

00:07:50,710 --> 00:07:48,319

few more astronauts as well

176

00:07:53,029 --> 00:07:50,720

and last but not least i want to thank

177

00:07:55,350 --> 00:07:53,039

the men and women of nasa for welcoming

178

00:07:57,189 --> 00:07:55,360

me to the kennedy space center and for

179

00:07:59,430 --> 00:07:57,199

your contributions not only to america

180

00:08:02,230 --> 00:07:59,440

but to the world

181

00:08:04,469 --> 00:08:02,240

here at the kennedy space center

182

00:08:08,150 --> 00:08:04,479

we are surrounded by monuments and

183

00:08:10,629 --> 00:08:08,160

milestones of those contributions

184

00:08:13,029 --> 00:08:10,639

it was from here that nasa launched

185

00:08:14,309 --> 00:08:13,039

the missions of mercury and gemini and

186

00:08:15,909 --> 00:08:14,319

apollo

187

00:08:17,670 --> 00:08:15,919

it was from here that

188

00:08:20,230 --> 00:08:17,680

space shuttle discovery

189

00:08:22,950 --> 00:08:20,240

piloted by charlie bolton

190

00:08:24,869 --> 00:08:22,960

carried the hubble telescope into orbit

191

00:08:26,950 --> 00:08:24,879

allowing us to plumb the deepest

192

00:08:28,710 --> 00:08:26,960

recesses of our galaxy and i should

193

00:08:29,670 --> 00:08:28,720

point out by the way that in my private

194

00:08:31,350 --> 00:08:29,680

office

195

00:08:34,389 --> 00:08:31,360

just off the

196

00:08:37,029 --> 00:08:34,399

uh oval i've got the picture of jupiter

197

00:08:40,310 --> 00:08:37,039

from the hubble so thank you charlie for

198

00:08:42,389 --> 00:08:40,320

helping to decorate my office

199

00:08:45,030 --> 00:08:42,399

it was from here that men and women

200

00:08:46,790 --> 00:08:45,040

propelled by sheer nerve and talent

201
00:08:48,630 --> 00:08:46,800
set about pushing the boundaries of

202
00:08:50,870 --> 00:08:48,640
humanity's reach

203
00:08:52,630 --> 00:08:50,880
that's the story of nasa

204
00:08:55,110 --> 00:08:52,640
and it's a story that started a little

205
00:08:57,750 --> 00:08:55,120
more than half a century ago

206
00:08:59,430 --> 00:08:57,760
far from the space coast in a remote and

207
00:09:01,030 --> 00:08:59,440
desolate region of what is now called

208
00:09:02,470 --> 00:09:01,040
kazakhstan

209
00:09:05,269 --> 00:09:02,480
because it was from there that the

210
00:09:07,269 --> 00:09:05,279
soviet union launched sputnik

211
00:09:09,350 --> 00:09:07,279
the first artificial satellite to orbit

212
00:09:11,030 --> 00:09:09,360
the earth which was little more than a

213
00:09:13,190 --> 00:09:11,040

few pieces of metal with a transmitter

214

00:09:14,389 --> 00:09:13,200

and a battery strapped to the top of a

215

00:09:16,949 --> 00:09:14,399

missile

216

00:09:19,670 --> 00:09:16,959

but the world was stunned

217

00:09:21,509 --> 00:09:19,680

americans were dumbfounded

218

00:09:23,750 --> 00:09:21,519

the soviets

219

00:09:24,710 --> 00:09:23,760

it was perceived had taken the lead in a

220

00:09:28,710 --> 00:09:24,720

race

221

00:09:33,269 --> 00:09:31,350

but we caught up very quick

222

00:09:35,910 --> 00:09:33,279

president eisenhower signed legislation

223

00:09:38,630 --> 00:09:35,920

to create nasa and to invest in science

224

00:09:40,630 --> 00:09:38,640

and math education from grade school to

225

00:09:43,350 --> 00:09:40,640

graduate school

226

00:09:45,269 --> 00:09:43,360

in 1961

227

00:09:47,269 --> 00:09:45,279

president kennedy boldly declared before

228

00:09:49,190 --> 00:09:47,279

a joint session of congress that the

229

00:09:51,030 --> 00:09:49,200

united states would send a man to the

230

00:09:53,269 --> 00:09:51,040

moon and return him safely to the earth

231

00:09:54,710 --> 00:09:53,279

within a decade

232

00:09:57,269 --> 00:09:54,720

and as a nation

233

00:09:59,910 --> 00:09:57,279

we set about meeting that goal

234

00:10:03,750 --> 00:09:59,920

reaping rewards that have in the decades

235

00:10:06,630 --> 00:10:03,760

since touched every facet of our lives

236

00:10:09,430 --> 00:10:06,640

nasa was at the forefront

237

00:10:12,550 --> 00:10:09,440

many gave their careers to the effort

238

00:10:14,150 --> 00:10:12,560

and some have given far more

239

00:10:16,550 --> 00:10:14,160

in the years that have followed the

240

00:10:18,550 --> 00:10:16,560

space race inspired a generation of

241

00:10:20,949 --> 00:10:18,560

scientists and innovators

242

00:10:22,710 --> 00:10:20,959

including i'm sure many of you

243

00:10:24,150 --> 00:10:22,720

it's contributed to immeasurable

244

00:10:26,310 --> 00:10:24,160

technological advances that have

245

00:10:28,310 --> 00:10:26,320

improved our health and well-being

246

00:10:30,630 --> 00:10:28,320

from satellite navigation to water

247

00:10:33,190 --> 00:10:30,640

purification from aerospace

248

00:10:35,350 --> 00:10:33,200

manufacturing to medical imaging

249

00:10:36,870 --> 00:10:35,360

although i have to say during a meeting

250

00:10:38,630 --> 00:10:36,880

right before i came out on stage

251
00:10:40,870 --> 00:10:38,640
somebody said you know it's more than

252
00:10:42,710 --> 00:10:40,880
just tang and i had to point out i

253
00:10:44,310 --> 00:10:42,720
actually really liked tank

254
00:10:46,470 --> 00:10:44,320
i thought that was

255
00:10:49,110 --> 00:10:46,480
very cool

256
00:10:50,790 --> 00:10:49,120
and and leading the world to space

257
00:10:52,550 --> 00:10:50,800
helped america achieve new heights of

258
00:10:54,790 --> 00:10:52,560
prosperity here on earth

259
00:10:56,550 --> 00:10:54,800
while demonstrating the power of a free

260
00:10:58,829 --> 00:10:56,560
and open society

261
00:11:02,550 --> 00:10:58,839
to harness the ingenuity of its

262
00:11:05,269 --> 00:11:02,560
people and on a personal note i

263
00:11:08,389 --> 00:11:05,279

i have been part of that generation

264

00:11:10,630 --> 00:11:08,399

so inspired by the space program

265

00:11:12,069 --> 00:11:10,640

1961 was the year of my birth

266

00:11:13,590 --> 00:11:12,079

the year that kennedy made his

267

00:11:15,190 --> 00:11:13,600

announcement

268

00:11:17,910 --> 00:11:15,200

and one of my earliest memories is

269

00:11:18,949 --> 00:11:17,920

sitting on my grandfather's shoulders

270

00:11:21,110 --> 00:11:18,959

waving

271

00:11:24,310 --> 00:11:21,120

a flag as astronauts

272

00:11:26,230 --> 00:11:24,320

arrived in hawaii

273

00:11:28,069 --> 00:11:26,240

for me the space program has always

274

00:11:31,030 --> 00:11:28,079

captured an essential part of what it

275

00:11:32,949 --> 00:11:31,040

means to be an american

276

00:11:35,269 --> 00:11:32,959

reaching for new heights stretching

277

00:11:37,190 --> 00:11:35,279

beyond what previously did not seem

278

00:11:39,430 --> 00:11:37,200

possible

279

00:11:41,750 --> 00:11:39,440

and so as president i believe that space

280

00:11:44,310 --> 00:11:41,760

exploration is not a luxury it's not an

281

00:11:45,910 --> 00:11:44,320

after thr thought in america's quest for

282

00:11:50,150 --> 00:11:45,920

a brighter future

283

00:11:52,069 --> 00:11:50,160

it is an essential part of that quest

284

00:11:54,710 --> 00:11:52,079

so today i'd like to talk about the next

285

00:11:57,110 --> 00:11:54,720

chapter in this story

286

00:11:59,110 --> 00:11:57,120

you know the challenges facing our space

287

00:12:00,949 --> 00:11:59,120

program are different

288

00:12:04,069 --> 00:12:00,959

and our imperatives for this program are

289

00:12:05,750 --> 00:12:04,079

different than in decades past

290

00:12:07,910 --> 00:12:05,760

we're no longer racing against an

291

00:12:10,150 --> 00:12:07,920

adversary we're no longer competing to

292

00:12:11,829 --> 00:12:10,160

achieve a singular goal like reaching

293

00:12:13,990 --> 00:12:11,839

the moon

294

00:12:15,910 --> 00:12:14,000

in fact what was once a global

295

00:12:19,110 --> 00:12:15,920

competition has long since become a

296

00:12:20,389 --> 00:12:19,120

global collaboration

297

00:12:22,389 --> 00:12:20,399

but while the measure of our

298

00:12:25,030 --> 00:12:22,399

achievements has changed a great deal

299

00:12:27,670 --> 00:12:25,040

over the past 50 years what we do

300

00:12:29,990 --> 00:12:27,680

or fail to do in seeking new frontiers

301
00:12:33,110 --> 00:12:30,000
is no less consequential for our future

302
00:12:35,430 --> 00:12:33,120
in space and here on earth

303
00:12:37,590 --> 00:12:35,440
so let me start by being

304
00:12:40,550 --> 00:12:37,600
extremely clear

305
00:12:43,110 --> 00:12:40,560
i am 100 committed to the mission of

306
00:12:53,590 --> 00:12:43,120
nasa and its future

307
00:12:57,590 --> 00:12:55,430
because broadening our capabilities in

308
00:13:00,470 --> 00:12:57,600
space will continue to serve our society

309
00:13:02,470 --> 00:13:00,480
in ways that we can scarcely imagine

310
00:13:05,190 --> 00:13:02,480
because exploration will once more

311
00:13:08,310 --> 00:13:05,200
inspire wonder in a new generation

312
00:13:10,150 --> 00:13:08,320
sparking passions and launching careers

313
00:13:11,670 --> 00:13:10,160

and because ultimately if we fail to

314

00:13:13,670 --> 00:13:11,680

press forward in the pursuit of

315

00:13:16,150 --> 00:13:13,680

discovery we are seeding our future and

316

00:13:19,430 --> 00:13:16,160

we are seeding that essential element of

317

00:13:21,750 --> 00:13:20,629

i know there have been a number of

318

00:13:23,670 --> 00:13:21,760

questions raised about my

319

00:13:25,509 --> 00:13:23,680

administration's plan for space

320

00:13:26,949 --> 00:13:25,519

exploration especially

321

00:13:28,949 --> 00:13:26,959

in this part of florida where so many

322

00:13:30,629 --> 00:13:28,959

rely on nasa as a source of

323

00:13:32,150 --> 00:13:30,639

income as well as a source of pride and

324

00:13:33,990 --> 00:13:32,160

community

325

00:13:35,509 --> 00:13:34,000

and these questions come at a time of

326

00:13:37,750 --> 00:13:35,519

transition

327

00:13:39,590 --> 00:13:37,760

as the space shuttle nears its scheduled

328

00:13:41,110 --> 00:13:39,600

retirement after almost 30 years of

329

00:13:42,870 --> 00:13:41,120

service

330

00:13:44,790 --> 00:13:42,880

and understandably this adds to the

331

00:13:46,230 --> 00:13:44,800

worries of folks concerned not only

332

00:13:48,150 --> 00:13:46,240

about their own futures but about the

333

00:13:50,710 --> 00:13:48,160

future of the space program to which

334

00:13:53,030 --> 00:13:50,720

they've devoted their lives

335

00:13:55,030 --> 00:13:53,040

but i also know that underlying these

336

00:13:57,350 --> 00:13:55,040

concerns is a deeper word

337

00:13:59,350 --> 00:13:57,360

one that precedes not only this plan but

338

00:14:01,110 --> 00:13:59,360

this administration

339

00:14:02,389 --> 00:14:01,120

it stems from the sense that people in

340

00:14:04,389 --> 00:14:02,399

washington

341

00:14:06,629 --> 00:14:04,399

driven sometimes less by vision than by

342

00:14:08,470 --> 00:14:06,639

politics have for years neglected nasa's

343

00:14:11,030 --> 00:14:08,480

mission and undermined the work of the

344

00:14:13,430 --> 00:14:11,040

professionals who fulfill it

345

00:14:15,030 --> 00:14:13,440

we've seen that in the nasa's budget

346

00:14:16,870 --> 00:14:15,040

which has risen and fallen with the

347

00:14:18,870 --> 00:14:16,880

political winds

348

00:14:20,629 --> 00:14:18,880

but we can also see it in other ways in

349

00:14:23,509 --> 00:14:20,639

the reluctance of those who hold office

350

00:14:25,189 --> 00:14:23,519

to set clear achievable objectives

351
00:14:26,470 --> 00:14:25,199
to provide the resource to meet those

352
00:14:29,030 --> 00:14:26,480
objectives

353
00:14:31,030 --> 00:14:29,040
and to justify not just these plans but

354
00:14:33,590 --> 00:14:31,040
the larger purpose of space exploration

355
00:14:35,670 --> 00:14:33,600
in the 21st century

356
00:14:37,350 --> 00:14:35,680
all that has to change

357
00:14:40,069 --> 00:14:37,360
and with the strategy i'm outlining

358
00:14:44,069 --> 00:14:40,079
today it will

359
00:14:46,069 --> 00:14:44,079
we start by increasing nasa's budget by

360
00:14:48,069 --> 00:14:46,079
six billion dollars over the next five

361
00:14:53,990 --> 00:14:48,079
years

362
00:14:58,550 --> 00:14:55,750
i want people to understand the context

363
00:15:00,470 --> 00:14:58,560

of this this is happening even as we

364

00:15:02,470 --> 00:15:00,480

have instituted a freeze on

365

00:15:04,629 --> 00:15:02,480

discretionary spending

366

00:15:06,150 --> 00:15:04,639

and sought to make cuts elsewhere in the

367

00:15:08,550 --> 00:15:06,160

budget

368

00:15:10,310 --> 00:15:08,560

so nasa from the start several months

369

00:15:11,910 --> 00:15:10,320

ago when i issued my budget

370

00:15:13,750 --> 00:15:11,920

was one of the areas where we didn't

371

00:15:15,590 --> 00:15:13,760

just maintain a freeze but we actually

372

00:15:19,910 --> 00:15:15,600

increased funding

373

00:15:24,310 --> 00:15:22,150

by doing that we will ramp up robotic

374

00:15:25,750 --> 00:15:24,320

exploration of the solar system

375

00:15:27,350 --> 00:15:25,760

including a probe of the sun's

376

00:15:29,430 --> 00:15:27,360

atmosphere

377

00:15:31,030 --> 00:15:29,440

new scouting missions to mars and other

378

00:15:32,870 --> 00:15:31,040

destinations

379

00:15:35,269 --> 00:15:32,880

and an advanced telescope to follow

380

00:15:38,310 --> 00:15:35,279

hubble allowing us to peer deeper into

381

00:15:40,949 --> 00:15:38,320

the universe than ever before

382

00:15:42,790 --> 00:15:40,959

we will increase earth-based observation

383

00:15:44,550 --> 00:15:42,800

to improve our understanding of our

384

00:15:46,470 --> 00:15:44,560

climate and our world

385

00:15:47,509 --> 00:15:46,480

science that will garner tangible

386

00:15:49,110 --> 00:15:47,519

benefits

387

00:15:51,829 --> 00:15:49,120

helping us to protect our environment

388

00:15:53,670 --> 00:15:51,839

for future generations

389

00:15:55,590 --> 00:15:53,680
and we will extend the life of the

390

00:15:58,069 --> 00:15:55,600
international space station

391

00:15:59,990 --> 00:15:58,079
likely by more than five years while

392

00:16:01,030 --> 00:16:00,000
actually using it for its intended

393

00:16:02,710 --> 00:16:01,040
purpose

394

00:16:04,949 --> 00:16:02,720
conducting advanced

395

00:16:07,670 --> 00:16:04,959
research that can help improve the daily

396

00:16:09,269 --> 00:16:07,680
lives of people here on earth as well as

397

00:16:11,509 --> 00:16:09,279
testing and improving upon our

398

00:16:13,269 --> 00:16:11,519
capabilities in space

399

00:16:15,030 --> 00:16:13,279
this includes technologies like more

400

00:16:17,910 --> 00:16:15,040
efficient life support systems that will

401
00:16:20,389 --> 00:16:17,920
help reduce the cost of future missions

402
00:16:22,710 --> 00:16:20,399
and in order to reach the space station

403
00:16:25,269 --> 00:16:22,720
we will work with a growing array of

404
00:16:27,350 --> 00:16:25,279
private companies competing to make

405
00:16:37,189 --> 00:16:27,360
getting to space easier and more

406
00:16:41,110 --> 00:16:39,030
now i recognize that some have said it

407
00:16:43,829 --> 00:16:41,120
is unfeasible or unwise to work with the

408
00:16:45,269 --> 00:16:43,839
private sector in this way

409
00:16:47,990 --> 00:16:45,279
i disagree

410
00:16:49,670 --> 00:16:48,000
the truth is nasa has always relied on

411
00:16:50,470 --> 00:16:49,680
private industry to help design and

412
00:16:52,150 --> 00:16:50,480
build

413
00:16:54,629 --> 00:16:52,160

the vehicles that carry astronauts to

414

00:16:56,629 --> 00:16:54,639

space from the mercury capsule that

415

00:16:57,910 --> 00:16:56,639

carried john glenn into orbit nearly 50

416

00:17:00,069 --> 00:16:57,920

years ago

417

00:17:02,870 --> 00:17:00,079

to the space shuttle discovery currently

418

00:17:04,949 --> 00:17:02,880

orbiting overhead

419

00:17:06,309 --> 00:17:04,959

by buying the services of space

420

00:17:08,470 --> 00:17:06,319

transportation

421

00:17:11,110 --> 00:17:08,480

rather than the vehicles themselves we

422

00:17:12,549 --> 00:17:11,120

can continue to ensure rigorous safety

423

00:17:14,549 --> 00:17:12,559

standards are met

424

00:17:16,470 --> 00:17:14,559

but we will also accelerate the pace of

425

00:17:18,230 --> 00:17:16,480

innovations as companies

426
00:17:19,429 --> 00:17:18,240
from young startups to established

427
00:17:21,909 --> 00:17:19,439
leaders

428
00:17:23,270 --> 00:17:21,919
compete to design and build and launch

429
00:17:26,309 --> 00:17:23,280
new means of carrying people and

430
00:17:27,669 --> 00:17:26,319
materials out of our atmosphere

431
00:17:29,350 --> 00:17:27,679
in addition

432
00:17:31,669 --> 00:17:29,360
as part of this effort

433
00:17:32,390 --> 00:17:31,679
we will build on the good work already

434
00:17:33,909 --> 00:17:32,400
done

435
00:17:36,549 --> 00:17:33,919
on the orien

436
00:17:37,990 --> 00:17:36,559
or orion crew capsule

437
00:17:39,909 --> 00:17:38,000
i've directed charlie bolden to

438
00:17:42,549 --> 00:17:39,919

immediately begin developing a rescue

439

00:17:45,270 --> 00:17:42,559

vehicle using this technology

440

00:17:47,270 --> 00:17:45,280

so we are not forced to rely on foreign

441

00:17:49,110 --> 00:17:47,280

providers if it becomes necessary to

442

00:17:51,510 --> 00:17:49,120

quickly bring our people home from the

443

00:17:55,029 --> 00:17:53,350

and this orion effort will be part of

444

00:17:57,430 --> 00:17:55,039

the technological foundation for

445

00:17:59,110 --> 00:17:57,440

advanced spacecraft to be used in future

446

00:18:02,070 --> 00:17:59,120

deep space missions

447

00:18:03,730 --> 00:18:02,080

in fact orion will be readied for flight

448

00:18:13,430 --> 00:18:03,740

right here in this room

449

00:18:16,789 --> 00:18:14,630

next

450

00:18:17,990 --> 00:18:16,799

we will invest more than three billion

451
00:18:20,310 --> 00:18:18,000
dollars

452
00:18:21,590 --> 00:18:20,320
to conduct research on an advanced heavy

453
00:18:24,310 --> 00:18:21,600
lift rocket

454
00:18:27,190 --> 00:18:24,320
a vehicle to efficiently send into orbit

455
00:18:28,950 --> 00:18:27,200
the crew capsules propulsion systems and

456
00:18:30,950 --> 00:18:28,960
large quantities of supplies needed to

457
00:18:33,190 --> 00:18:30,960
reach deep space

458
00:18:35,590 --> 00:18:33,200
on developing this new vehicle we will

459
00:18:36,870 --> 00:18:35,600
not only look at revising or modifying

460
00:18:39,430 --> 00:18:36,880
older models

461
00:18:40,870 --> 00:18:39,440
we want to look at new designs

462
00:18:43,909 --> 00:18:40,880
new materials

463
00:18:46,070 --> 00:18:43,919

new technologies that will transform not

464

00:18:48,710 --> 00:18:46,080

just where we can go but what we can do

465

00:18:50,390 --> 00:18:48,720

when we get there

466

00:18:53,270 --> 00:18:50,400

and we will finalize

467

00:18:55,190 --> 00:18:53,280

a rocket design no later than 2015 and

468

00:19:04,070 --> 00:18:55,200

then begin to build it

469

00:19:07,110 --> 00:19:05,350

and i want everybody to understand

470

00:19:09,110 --> 00:19:07,120

that's at least two years earlier than

471

00:19:11,029 --> 00:19:09,120

previously planned

472

00:19:13,430 --> 00:19:11,039

and that's conservative given that the

473

00:19:15,669 --> 00:19:13,440

previous program was behind schedule and

474

00:19:17,190 --> 00:19:15,679

over budget

475

00:19:19,029 --> 00:19:17,200

at the same time

476

00:19:21,830 --> 00:19:19,039

after decades of neglect

477

00:19:23,990 --> 00:19:21,840

we will increase investment right away

478

00:19:25,750 --> 00:19:24,000

in other groundbreaking technologies

479

00:19:27,909 --> 00:19:25,760

that will allow astronauts to reach

480

00:19:30,230 --> 00:19:27,919

space sooner and more often

481

00:19:33,110 --> 00:19:30,240

to travel farther and faster for less

482

00:19:36,470 --> 00:19:33,120

cost and to live and work in space for

483

00:19:38,870 --> 00:19:36,480

longer periods of time more safely

484

00:19:41,270 --> 00:19:38,880

that means tackling major scientific and

485

00:19:42,870 --> 00:19:41,280

technological challenges

486

00:19:45,350 --> 00:19:42,880

now how do we shield astronauts from

487

00:19:47,990 --> 00:19:45,360

radiation on longer missions

488

00:19:49,430 --> 00:19:48,000

how do we harness resources on distant

489

00:19:51,510 --> 00:19:49,440

worlds

490

00:19:55,190 --> 00:19:51,520

how do we supply spacecraft with energy

491

00:19:57,029 --> 00:19:55,200

needed for these far-reaching journeys

492

00:19:58,310 --> 00:19:57,039

these are questions that we can answer

493

00:20:00,789 --> 00:19:58,320

and will answer

494

00:20:04,310 --> 00:20:00,799

and these are the questions

495

00:20:07,990 --> 00:20:04,320

whose answers no doubt will reap

496

00:20:11,830 --> 00:20:08,789

so

497

00:20:13,909 --> 00:20:11,840

the point is what we're looking for is

498

00:20:16,870 --> 00:20:13,919

not just to continue on the same path we

499

00:20:19,029 --> 00:20:16,880

want to leap into the future

500

00:20:25,750 --> 00:20:19,039

we want major breakthroughs

501
00:20:29,669 --> 00:20:27,510
now

502
00:20:35,190 --> 00:20:29,679
yes pursuing this new strategy will

503
00:20:39,350 --> 00:20:37,430
in part this is because the old strategy

504
00:20:41,590 --> 00:20:39,360
including the constellation program was

505
00:20:43,909 --> 00:20:41,600
not fulfilling its promise in many ways

506
00:20:45,750 --> 00:20:43,919
that's not just my assessment

507
00:20:47,669 --> 00:20:45,760
it's also the assessment of a panel of

508
00:20:52,310 --> 00:20:47,679
respected non-partisan experts charged

509
00:20:57,190 --> 00:20:54,310
now despite this some have had harsh

510
00:20:58,710 --> 00:20:57,200
words for the decisions we've made

511
00:21:01,510 --> 00:20:58,720
including some individuals who i've got

512
00:21:03,110 --> 00:21:01,520
enormous respect and admiration for

513
00:21:06,070 --> 00:21:03,120

but what i hope is is that everybody

514

00:21:07,750 --> 00:21:06,080

will take a look at what we are planning

515

00:21:09,510 --> 00:21:07,760

consider the details of what we've laid

516

00:21:12,710 --> 00:21:09,520

out and see the merits

517

00:21:14,789 --> 00:21:12,720

as i've described them

518

00:21:16,950 --> 00:21:14,799

the bottom line is nobody is more

519

00:21:19,750 --> 00:21:16,960

committed

520

00:21:22,070 --> 00:21:19,760

to manned space flight

521

00:21:23,190 --> 00:21:22,080

to human exploration of space

522

00:21:24,870 --> 00:21:23,200

than i am

523

00:21:26,870 --> 00:21:24,880

but we've got to do it

524

00:21:30,710 --> 00:21:26,880

in a smart way

525

00:21:32,470 --> 00:21:30,720

[Applause]

526
00:21:33,669 --> 00:21:32,480
and we and we can't just keep on doing

527
00:21:35,909 --> 00:21:33,679
the same old things that we've been

528
00:21:37,190 --> 00:21:35,919
doing and thinking that somehow

529
00:21:39,430 --> 00:21:37,200
is going to get us to where we want to

530
00:21:41,350 --> 00:21:39,440
go

531
00:21:43,669 --> 00:21:41,360
some have said for instance that this

532
00:21:45,909 --> 00:21:43,679
plan gives up our leadership in space by

533
00:21:48,710 --> 00:21:45,919
failing to produce plans

534
00:21:50,310 --> 00:21:48,720
within nasa to reach low earth orbit

535
00:21:51,590 --> 00:21:50,320
instead of relying on companies and

536
00:21:53,909 --> 00:21:51,600
other countries

537
00:21:56,149 --> 00:21:53,919
but we will actually reach space faster

538
00:21:57,830 --> 00:21:56,159

and more often under this new plan in

539

00:22:00,310 --> 00:21:57,840

ways that will help us improve our

540

00:22:02,070 --> 00:22:00,320

technological capacity and lower our

541

00:22:05,110 --> 00:22:02,080

costs which are both essential for the

542

00:22:06,710 --> 00:22:05,120

long-term sustainability of space flight

543

00:22:08,950 --> 00:22:06,720

in fact through our plan we'll be

544

00:22:17,909 --> 00:22:08,960

sending many more astronauts to space

545

00:22:20,630 --> 00:22:19,350

there are also those who've criticized

546

00:22:21,909 --> 00:22:20,640

our decision to end parts of

547

00:22:23,830 --> 00:22:21,919

constellation

548

00:22:27,590 --> 00:22:23,840

as one that will hinder

549

00:22:29,430 --> 00:22:27,600

space exploration below low earth orbit

550

00:22:31,430 --> 00:22:29,440

but it's precisely by investing in

551
00:22:32,630 --> 00:22:31,440
groundbreaking research and innovative

552
00:22:34,230 --> 00:22:32,640
companies

553
00:22:37,110 --> 00:22:34,240
that we will have the potential to

554
00:22:38,789 --> 00:22:37,120
rapidly transform our capabilities

555
00:22:40,950 --> 00:22:38,799
even as we build on the important work

556
00:22:44,630 --> 00:22:40,960
already completed through projects like

557
00:22:46,630 --> 00:22:44,640
orion for future missions

558
00:22:48,390 --> 00:22:46,640
and unlike the previous program we are

559
00:22:51,430 --> 00:22:48,400
setting a course with specific and

560
00:22:53,909 --> 00:22:51,440
achievable milestones

561
00:22:56,470 --> 00:22:53,919
early in the next decade a set of crude

562
00:22:58,230 --> 00:22:56,480
flights will test and prove the systems

563
00:22:59,669 --> 00:22:58,240

required for exploration beyond low

564

00:23:01,750 --> 00:22:59,679

earth orbit

565

00:23:04,310 --> 00:23:01,760

and by 2025

566

00:23:05,990 --> 00:23:04,320

we expect new spacecraft designed for

567

00:23:08,230 --> 00:23:06,000

long journeys to allow us to begin the

568

00:23:10,470 --> 00:23:08,240

first ever crude missions beyond the

569

00:23:20,310 --> 00:23:10,480

moon into deep space

570

00:23:31,430 --> 00:23:22,390

we'll start by sending astronauts to an

571

00:23:36,870 --> 00:23:34,390

by the mid-2030s i believe we can send

572

00:23:38,390 --> 00:23:36,880

humans to orbit mars and return them

573

00:23:40,870 --> 00:23:38,400

safely to earth

574

00:23:52,390 --> 00:23:40,880

and a landing on mars will follow

575

00:23:56,149 --> 00:23:54,470

but i want to repeat i want to repeat

576

00:23:58,310 --> 00:23:56,159

this

577

00:24:00,070 --> 00:23:58,320

critical to deep space exploration will

578

00:24:02,149 --> 00:24:00,080

be the development of breakthrough

579

00:24:03,669 --> 00:24:02,159

propulsion systems and other advanced

580

00:24:05,510 --> 00:24:03,679

technologies

581

00:24:07,669 --> 00:24:05,520

so i'm challenging nasa to break through

582

00:24:09,110 --> 00:24:07,679

these barriers

583

00:24:10,950 --> 00:24:09,120

and we'll give you the resources to

584

00:24:12,549 --> 00:24:10,960

break through these barriers

585

00:24:14,630 --> 00:24:12,559

and i know you will

586

00:24:17,350 --> 00:24:14,640

with ingenuity and intensity because

587

00:24:24,789 --> 00:24:17,360

that's what you've always done

588

00:24:28,149 --> 00:24:26,310

i understand that some believe that we

589

00:24:30,789 --> 00:24:28,159

should attempt a return to the surface

590

00:24:33,190 --> 00:24:30,799

of the moon first

591

00:24:36,390 --> 00:24:33,200

as previously planned

592

00:24:38,390 --> 00:24:36,400

but i i just have to say

593

00:24:41,110 --> 00:24:38,400

pretty bluntly here

594

00:24:43,430 --> 00:24:41,120

we've been there before

595

00:24:45,990 --> 00:24:43,440

buzz has been there

596

00:24:48,789 --> 00:24:46,000

there's a lot more of space to explore

597

00:24:50,710 --> 00:24:48,799

and a lot more to learn when we do so i

598

00:24:53,510 --> 00:24:50,720

believe it's more important to ramp up

599

00:24:55,350 --> 00:24:53,520

our capabilities to reach and operate at

600

00:24:56,630 --> 00:24:55,360

a series of increasingly demanding

601
00:24:58,230 --> 00:24:56,640
targets

602
00:25:00,310 --> 00:24:58,240
while advancing our technological

603
00:25:02,310 --> 00:25:00,320
capabilities with each step forward and

604
00:25:03,909 --> 00:25:02,320
that's what this strategy does

605
00:25:05,750 --> 00:25:03,919
and that's how we will ensure that our

606
00:25:16,390 --> 00:25:05,760
leadership in space is even stronger in

607
00:25:21,269 --> 00:25:18,630
now finally i want to say a few words

608
00:25:23,430 --> 00:25:21,279
about jobs

609
00:25:25,110 --> 00:25:23,440
suzanne

610
00:25:26,070 --> 00:25:25,120
pointed out to me the last time i was

611
00:25:27,909 --> 00:25:26,080
here

612
00:25:31,190 --> 00:25:27,919
i made a very clear promise that i would

613
00:25:34,630 --> 00:25:31,200

help in the transition

614

00:25:35,830 --> 00:25:34,640

into a new program to make sure that

615

00:25:37,510 --> 00:25:35,840

people who are already going through a

616

00:25:38,950 --> 00:25:37,520

tough time here

617

00:25:40,950 --> 00:25:38,960

in this region

618

00:25:44,549 --> 00:25:40,960

were helped

619

00:25:47,830 --> 00:25:44,559

and despite some reports to the contrary

620

00:25:49,750 --> 00:25:47,840

my plan will add more than 2 500 jobs

621

00:25:52,230 --> 00:25:49,760

along the space coast in the next two

622

00:25:54,310 --> 00:25:52,240

years compared to the plan under the

623

00:26:02,549 --> 00:25:54,320

previous administration so i want to

624

00:26:05,830 --> 00:26:04,070

we're going to modernize the kennedy

625

00:26:07,830 --> 00:26:05,840

space center

626
00:26:09,430 --> 00:26:07,840
creating jobs as we upgrade launch

627
00:26:12,149 --> 00:26:09,440
facilities

628
00:26:13,830 --> 00:26:12,159
and there's potential for even more jobs

629
00:26:15,750 --> 00:26:13,840
as companies in florida and across

630
00:26:17,590 --> 00:26:15,760
america compete to be part of a new

631
00:26:19,909 --> 00:26:17,600
space transportation industry and some

632
00:26:21,269 --> 00:26:19,919
of those industry leaders are here here

633
00:26:22,710 --> 00:26:21,279
today

634
00:26:24,870 --> 00:26:22,720
this holds the promise of generating

635
00:26:26,789 --> 00:26:24,880
more than 10 000 jobs nationwide over

636
00:26:28,070 --> 00:26:26,799
the next few years and many of these

637
00:26:30,390 --> 00:26:28,080
jobs will be created right here in

638
00:26:34,230 --> 00:26:30,400

florida because this is an area primed

639

00:26:38,070 --> 00:26:35,909

now it's true

640

00:26:39,990 --> 00:26:38,080

there are floridians who will see their

641

00:26:42,549 --> 00:26:40,000

work on the shuttle end as the program

642

00:26:44,310 --> 00:26:42,559

winds down

643

00:26:46,070 --> 00:26:44,320

this is based on a decision that was

644

00:26:48,549 --> 00:26:46,080

made six years ago

645

00:26:49,750 --> 00:26:48,559

not six months ago

646

00:26:51,430 --> 00:26:49,760

but that doesn't make it any less

647

00:26:52,870 --> 00:26:51,440

painful for families and communities

648

00:26:55,909 --> 00:26:52,880

affected

649

00:26:57,590 --> 00:26:55,919

as this decision becomes reality

650

00:27:00,230 --> 00:26:57,600

so i'm proposing

651
00:27:02,950 --> 00:27:00,240
in part because of strong lobbying by

652
00:27:05,510 --> 00:27:02,960
bill and by suzanne

653
00:27:07,590 --> 00:27:05,520
as well as charlie i'm proposing a 40

654
00:27:09,510 --> 00:27:07,600
million initiative

655
00:27:11,750 --> 00:27:09,520
led by a high-level team from the white

656
00:27:14,470 --> 00:27:11,760
house nasa and other agencies

657
00:27:16,470 --> 00:27:14,480
to develop a plan for regional economic

658
00:27:28,789 --> 00:27:16,480
growth and job creation and i expect

659
00:27:32,870 --> 00:27:30,789
it's an effort that will help prepare

660
00:27:35,110 --> 00:27:32,880
this already skilled workforce for new

661
00:27:37,430 --> 00:27:35,120
opportunities in the space industry and

662
00:27:39,830 --> 00:27:37,440
beyond

663
00:27:42,549 --> 00:27:39,840

so this is the next chapter that we can

664

00:27:44,389 --> 00:27:42,559

write together here at nasa

665

00:27:46,310 --> 00:27:44,399

we will partner with industry

666

00:27:47,990 --> 00:27:46,320

we will invest in cutting-edge research

667

00:27:50,950 --> 00:27:48,000

and technology

668

00:27:53,669 --> 00:27:50,960

we will set far-reaching milestones

669

00:27:55,590 --> 00:27:53,679

and provide the resources to reach those

670

00:27:57,830 --> 00:27:55,600

milestones

671

00:27:59,909 --> 00:27:57,840

and step by step we will push the

672

00:28:03,430 --> 00:27:59,919

boundaries not only of where we can go

673

00:28:06,470 --> 00:28:03,440

but what we can do

674

00:28:08,389 --> 00:28:06,480

now 50 years after the creation of nasa

675

00:28:10,789 --> 00:28:08,399

our goal is no longer just

676

00:28:11,990 --> 00:28:10,799

a destination to reach

677

00:28:14,149 --> 00:28:12,000

our goal

678

00:28:16,630 --> 00:28:14,159

is the capacity for people to work and

679

00:28:20,149 --> 00:28:16,640

learn and operate and live safely beyond

680

00:28:21,430 --> 00:28:20,159

the earth for extended periods of time

681

00:28:24,630 --> 00:28:21,440

ultimately in ways that are more

682

00:28:26,789 --> 00:28:24,640

sustainable and even indefinite

683

00:28:29,029 --> 00:28:26,799

and in fulfilling this task

684

00:28:31,110 --> 00:28:29,039

we will not only extend humanity's

685

00:28:33,350 --> 00:28:31,120

reaching in space

686

00:28:35,430 --> 00:28:33,360

we will strengthen america's leadership

687

00:28:36,950 --> 00:28:35,440

here on earth

688

00:28:38,630 --> 00:28:36,960

now i'll close by saying this i know

689

00:28:40,710 --> 00:28:38,640

that some americans have asked a

690

00:28:42,549 --> 00:28:40,720

question that's particularly apt on tax

691

00:28:45,430 --> 00:28:42,559

day

692

00:28:47,269 --> 00:28:45,440

why spend money on nasa at all

693

00:28:48,549 --> 00:28:47,279

i spend money solving problems in space

694

00:28:50,710 --> 00:28:48,559

when we don't

695

00:28:52,870 --> 00:28:50,720

uh lack for problems to solve here on

696

00:28:54,149 --> 00:28:52,880

the ground

697

00:28:56,310 --> 00:28:54,159

and obviously our country's still

698

00:28:58,389 --> 00:28:56,320

reeling from the worst economic turmoil

699

00:29:00,789 --> 00:28:58,399

we've known in generations

700

00:29:05,029 --> 00:29:00,799

we have massive structural deficits that

701
00:29:09,350 --> 00:29:06,710
but you and i know

702
00:29:11,269 --> 00:29:09,360
this is a false choice

703
00:29:13,510 --> 00:29:11,279
we have to fix our economy we need to

704
00:29:14,630 --> 00:29:13,520
close our deficits for but for pennies

705
00:29:16,630 --> 00:29:14,640
on the dollar

706
00:29:18,710 --> 00:29:16,640
the space program has fueled jobs and

707
00:29:20,389 --> 00:29:18,720
entire industries for pennies on the

708
00:29:22,470 --> 00:29:20,399
dollar the space program has improved

709
00:29:24,149 --> 00:29:22,480
our lives advanced our society

710
00:29:26,389 --> 00:29:24,159
strengthened our economy and inspired

711
00:29:29,350 --> 00:29:26,399
generations of americans and i have no

712
00:29:30,710 --> 00:29:29,360
doubt that nasa can continue to fulfill

713
00:29:41,350 --> 00:29:30,720

this role

714

00:29:46,870 --> 00:29:44,389

but i want to i want to say clearly to

715

00:29:49,029 --> 00:29:46,880

those of you who work for nasa but

716

00:29:51,990 --> 00:29:49,039

to the entire community

717

00:29:55,350 --> 00:29:52,000

that has been so supportive

718

00:29:57,590 --> 00:29:55,360

of the space program in this area

719

00:29:59,669 --> 00:29:57,600

that is exactly why it's so essential

720

00:30:01,669 --> 00:29:59,679

that we pursue a new course

721

00:30:03,110 --> 00:30:01,679

and that we revitalize nasa and its

722

00:30:04,870 --> 00:30:03,120

mission

723

00:30:07,750 --> 00:30:04,880

not just with dollars but with clear

724

00:30:09,590 --> 00:30:07,760

aims and a larger purpose

725

00:30:11,510 --> 00:30:09,600

a little more than 40 years ago

726

00:30:14,710 --> 00:30:11,520

astronauts descended the nine-rung

727

00:30:16,149 --> 00:30:14,720

ladder of the lunar module called eagle

728

00:30:17,990 --> 00:30:16,159

and allowed their feet to touch the

729

00:30:21,029 --> 00:30:18,000

dusty surface

730

00:30:23,750 --> 00:30:21,039

of the earth's only moon

731

00:30:26,470 --> 00:30:23,760

this was the culmination of a daring and

732

00:30:27,909 --> 00:30:26,480

perilous gambit

733

00:30:29,590 --> 00:30:27,919

of an endeavor that pushed the

734

00:30:31,510 --> 00:30:29,600

boundaries of our knowledge

735

00:30:33,590 --> 00:30:31,520

of our technical prowess

736

00:30:35,590 --> 00:30:33,600

of our very capacity as human beings to

737

00:30:37,029 --> 00:30:35,600

solve problems

738

00:30:38,310 --> 00:30:37,039

it wasn't just the greatest achievement

739

00:30:41,350 --> 00:30:38,320

in nasa's history it was one of the

740

00:30:43,110 --> 00:30:41,360

greatest achievements in human history

741

00:30:45,590 --> 00:30:43,120

and the question for us now is whether

742

00:30:47,990 --> 00:30:45,600

that was the beginning of something

743

00:30:49,430 --> 00:30:48,000

or the end of something

744

00:30:51,350 --> 00:30:49,440

i choose to believe

745

00:30:53,110 --> 00:30:51,360

it was only the beginning

746

00:30:54,870 --> 00:30:53,120

so thank you god bless you and may god

747

00:31:31,070 --> 00:30:54,880

bless the united states of america thank

748

00:32:07,509 --> 00:31:37,060

[Music]

749

00:32:25,190 --> 00:32:08,560

so

750

00:32:25,200 --> 00:32:35,830

[Music]

751

00:32:35,840 --> 00:32:40,220

WOW