



1
00:00:13,589 --> 00:00:09,990
thank you very much

2
00:00:15,430 --> 00:00:13,599
thanks to all of you for coming out

3
00:00:16,630 --> 00:00:15,440
today as difficult as it may have been

4
00:00:18,790 --> 00:00:16,640
to get here

5
00:00:20,150 --> 00:00:18,800
it's good to see a lot of you and i want

6
00:00:22,790 --> 00:00:20,160
to welcome all of you to the kennedy

7
00:00:24,630 --> 00:00:22,800
space center this is a place that's

8
00:00:26,390 --> 00:00:24,640
quite close to my heart and it's a place

9
00:00:27,670 --> 00:00:26,400
like no other place on the planet to be

10
00:00:29,189 --> 00:00:27,680
quite honest

11
00:00:30,710 --> 00:00:29,199
it's a place that has of course a

12
00:00:32,310 --> 00:00:30,720
storied history

13
00:00:34,630 --> 00:00:32,320

being the launch site of so many of

14

00:00:36,630 --> 00:00:34,640

humanity's most ambitious and even

15

00:00:39,030 --> 00:00:36,640

audacious endeavors

16

00:00:41,510 --> 00:00:39,040

but also a place that has i can assure

17

00:00:43,750 --> 00:00:41,520

you a storied future

18

00:00:45,590 --> 00:00:43,760

i'm here today to introduce a man who

19

00:00:47,350 --> 00:00:45,600

more than anyone i've met in my career

20

00:00:48,389 --> 00:00:47,360

as an officer of marines and a nasa

21

00:00:50,069 --> 00:00:48,399

astronaut

22

00:00:51,750 --> 00:00:50,079

is committed to the arrival of that

23

00:00:54,549 --> 00:00:51,760

vibrant future

24

00:00:56,630 --> 00:00:54,559

as the space community knows very well

25

00:00:58,470 --> 00:00:56,640

dreams don't become a reality through

26

00:01:01,830 --> 00:00:58,480

wishful thinking alone

27

00:01:03,910 --> 00:01:01,840

much less through highfalutin talk

28

00:01:05,350 --> 00:01:03,920

and even though a steady flow of federal

29

00:01:08,149 --> 00:01:05,360

funding

30

00:01:09,670 --> 00:01:08,159

may help that doesn't make things happen

31

00:01:11,990 --> 00:01:09,680

to come true

32

00:01:15,749 --> 00:01:12,000

dreams need to be tested in the crucible

33

00:01:17,749 --> 00:01:15,759

of practicality trial and error

34

00:01:19,429 --> 00:01:17,759

they need to be calibrated and thought

35

00:01:20,390 --> 00:01:19,439

through in painstaking

36

00:01:22,149 --> 00:01:20,400

detail

37

00:01:24,550 --> 00:01:22,159

so that all the pieces

38

00:01:27,429 --> 00:01:24,560

are certain to work together

39

00:01:29,190 --> 00:01:27,439

in this case to lift us physically

40

00:01:30,469 --> 00:01:29,200

and i dare say emotionally and even

41

00:01:32,789 --> 00:01:30,479

spiritually

42

00:01:35,590 --> 00:01:32,799

into the deep frontier the star-studded

43

00:01:37,510 --> 00:01:35,600

universe that all of us are so anxious

44

00:01:39,429 --> 00:01:37,520

to explore

45

00:01:41,190 --> 00:01:39,439

the thing that has me so excited about

46

00:01:43,109 --> 00:01:41,200

the path forward today

47

00:01:45,590 --> 00:01:43,119

is that the man i'm about to introduce

48

00:01:47,830 --> 00:01:45,600

understands how critical it is to get

49

00:01:50,069 --> 00:01:47,840

that process right

50

00:01:52,069 --> 00:01:50,079

to put it into place an inspired but

51
00:01:54,469 --> 00:01:52,079
methodical plan that can really work for

52
00:01:56,709 --> 00:01:54,479
america and for the thousands of workers

53
00:01:58,310 --> 00:01:56,719
who every day are straining at the bit

54
00:02:00,149 --> 00:01:58,320
and giving their best

55
00:02:03,270 --> 00:02:00,159
to stretch the boundaries of human what

56
00:02:05,190 --> 00:02:03,280
humanity can call home

57
00:02:08,469 --> 00:02:05,200
i'm talking about a president who has

58
00:02:10,949 --> 00:02:08,479
even in these tough economic times has

59
00:02:13,030 --> 00:02:10,959
recognized the value of science

60
00:02:15,350 --> 00:02:13,040
engineering and innovation to this

61
00:02:17,110 --> 00:02:15,360
nation's nation's future

62
00:02:18,470 --> 00:02:17,120
to its economy

63
00:02:20,790 --> 00:02:18,480

its health

64

00:02:22,390 --> 00:02:20,800

its national security and who

65

00:02:24,150 --> 00:02:22,400

in his short tenure

66

00:02:26,150 --> 00:02:24,160

has already through his budgets and the

67

00:02:27,830 --> 00:02:26,160

recovery act lifted the federal

68

00:02:31,350 --> 00:02:27,840

investment in civilian research and

69

00:02:33,350 --> 00:02:31,360

development to unprecedented heights

70

00:02:35,110 --> 00:02:33,360

a president who has declared that it is

71

00:02:37,110 --> 00:02:35,120

essential for our students to get better

72

00:02:38,550 --> 00:02:37,120

science and educa in engineering

73

00:02:40,869 --> 00:02:38,560

educations

74

00:02:42,710 --> 00:02:40,879

and who has not just said so

75

00:02:44,390 --> 00:02:42,720

but has put into place

76

00:02:46,550 --> 00:02:44,400

and obtained generous funding for

77

00:02:48,229 --> 00:02:46,560

programs to get them there

78

00:02:50,390 --> 00:02:48,239

a president who has brought hundreds of

79

00:02:52,229 --> 00:02:50,400

students into the white house lawn

80

00:02:54,150 --> 00:02:52,239

to look through telescopes

81

00:02:55,750 --> 00:02:54,160

and meet astronauts like buzz aldrin and

82

00:02:57,750 --> 00:02:55,760

sally ride

83

00:02:59,430 --> 00:02:57,760

and you better believe from the looks on

84

00:03:02,550 --> 00:02:59,440

those kids faces

85

00:03:04,309 --> 00:03:02,560

they recognize the power of space to

86

00:03:05,910 --> 00:03:04,319

inspire

87

00:03:08,710 --> 00:03:05,920

ladies and gentlemen it's my greatest

88

00:03:11,030 --> 00:03:08,720

honor to introduce to you a man for whom

89

00:03:12,309 --> 00:03:11,040

i have the greatest personal respect and

90

00:03:14,470 --> 00:03:12,319

admiration

91

00:03:17,350 --> 00:03:14,480

a man who absolutely has the right stuff

92

00:03:19,030 --> 00:03:17,360

to lead us into a new era of exploration

93

00:03:20,630 --> 00:03:19,040

and discovery

94

00:03:22,550 --> 00:03:20,640

please join me

95

00:03:42,710 --> 00:03:22,560

in welcoming welcoming the president of

96

00:03:49,430 --> 00:03:46,470

thank you everybody thank you

97

00:03:51,509 --> 00:03:49,440

thank you so much

98

00:03:54,229 --> 00:03:51,519

thank you everybody please have a seat

99

00:03:58,390 --> 00:03:56,309

i want to thank

100

00:04:00,550 --> 00:03:58,400

senator bill nelson

101
00:04:01,509 --> 00:04:00,560
and nasa administrator charlie bolden

102
00:04:03,830 --> 00:04:01,519
for their

103
00:04:06,309 --> 00:04:03,840
extraordinary leadership

104
00:04:08,390 --> 00:04:06,319
i want to recognize

105
00:04:16,870 --> 00:04:08,400
dr buzz aldrin as well who's in the

106
00:04:22,550 --> 00:04:19,909
four decades ago buzz became a legend

107
00:04:23,830 --> 00:04:22,560
but in the four decades since he's also

108
00:04:25,990 --> 00:04:23,840
been one of america's leading

109
00:04:28,230 --> 00:04:26,000
visionaries and authorities on human

110
00:04:29,590 --> 00:04:28,240
space flight

111
00:04:31,990 --> 00:04:29,600
a few people

112
00:04:33,749 --> 00:04:32,000
a president company excluded can claim

113
00:04:36,390 --> 00:04:33,759

the

114

00:04:38,710 --> 00:04:36,400

expertise of buzz and bill and charlie

115

00:04:40,469 --> 00:04:38,720

when it comes to space exploration i

116

00:04:43,030 --> 00:04:40,479

have to say that

117

00:04:49,350 --> 00:04:43,040

few people are as singularly unimpressed

118

00:04:53,110 --> 00:04:51,510

sure it's comfortable but

119

00:04:56,469 --> 00:04:53,120

it can't even reach

120

00:04:57,670 --> 00:04:56,479

low earth orbit

121

00:04:59,510 --> 00:04:57,680

and

122

00:05:01,350 --> 00:04:59,520

that obviously is in striking contrast

123

00:05:04,070 --> 00:05:01,360

to the falcon 9 rocket we just saw on

124

00:05:07,270 --> 00:05:04,080

the launch pad which will be tested for

125

00:05:08,790 --> 00:05:07,280

the very first time in the coming weeks

126
00:05:11,749 --> 00:05:08,800
a couple of other acknowledgments i want

127
00:05:14,070 --> 00:05:11,759
to make we've got congresswoman sheila

128
00:05:15,830 --> 00:05:14,080
jackson lee from texas

129
00:05:21,590 --> 00:05:15,840
visiting us

130
00:05:26,070 --> 00:05:23,909
my director office of science and

131
00:05:28,310 --> 00:05:26,080
technology policy in other words my

132
00:05:35,270 --> 00:05:28,320
chief science advisor john holdren is

133
00:05:40,550 --> 00:05:37,670
and most of all i want to acknowledge uh

134
00:05:41,590 --> 00:05:40,560
your congresswoman suzanne cosmos

135
00:05:44,230 --> 00:05:41,600
because

136
00:05:46,469 --> 00:05:44,240
every time i meet with her

137
00:05:49,029 --> 00:05:46,479
including the flight down here

138
00:05:51,189 --> 00:05:49,039

she reminds me of how important

139

00:05:53,510 --> 00:05:51,199

our nasa programs are and how important

140

00:05:55,270 --> 00:05:53,520

this facility is and she is fighting for

141

00:05:57,830 --> 00:05:55,280

every single one of you

142

00:05:59,590 --> 00:05:57,840

and for her district and for the jobs in

143

00:06:01,270 --> 00:05:59,600

her district and i you should know that

144

00:06:02,950 --> 00:06:01,280

you've got a great champion in

145

00:06:12,070 --> 00:06:02,960

congresswoman cosmos please give her a

146

00:06:15,510 --> 00:06:13,510

i also want to thank everybody for

147

00:06:18,230 --> 00:06:15,520

participating in today's conference and

148

00:06:19,590 --> 00:06:18,240

gathered here are scientists engineers

149

00:06:21,830 --> 00:06:19,600

business leaders

150

00:06:23,749 --> 00:06:21,840

public servants and a few more

151

00:06:26,150 --> 00:06:23,759

astronauts as well

152

00:06:28,469 --> 00:06:26,160

and last but not least i want to thank

153

00:06:30,870 --> 00:06:28,479

the men and women of nasa for welcoming

154

00:06:32,629 --> 00:06:30,880

me to the kennedy space center and for

155

00:06:34,870 --> 00:06:32,639

your contributions not only to america

156

00:06:37,670 --> 00:06:34,880

but to the world

157

00:06:39,909 --> 00:06:37,680

here at the kennedy space center

158

00:06:43,670 --> 00:06:39,919

we are surrounded by monuments and

159

00:06:46,070 --> 00:06:43,680

milestones of those contributions

160

00:06:48,469 --> 00:06:46,080

it was from here that nasa launched

161

00:06:49,830 --> 00:06:48,479

the missions of mercury and gemini and

162

00:06:51,350 --> 00:06:49,840

apollo

163

00:06:53,189 --> 00:06:51,360

it was from here that

164

00:06:55,749 --> 00:06:53,199

space shuttle discovery

165

00:06:58,390 --> 00:06:55,759

piloted by charlie bolton

166

00:07:00,390 --> 00:06:58,400

carried the hubble telescope into orbit

167

00:07:02,390 --> 00:07:00,400

allowing us to plumb the deepest

168

00:07:04,150 --> 00:07:02,400

recesses of our galaxy and i should

169

00:07:05,189 --> 00:07:04,160

point out by the way that in my private

170

00:07:07,029 --> 00:07:05,199

office

171

00:07:09,830 --> 00:07:07,039

just off the

172

00:07:12,550 --> 00:07:09,840

oval i've got the picture of jupiter

173

00:07:15,749 --> 00:07:12,560

from the hubble so thank you charlie for

174

00:07:17,830 --> 00:07:15,759

helping to decorate my office

175

00:07:20,469 --> 00:07:17,840

it was from here that men and women

176

00:07:22,230 --> 00:07:20,479

propelled by sheer nerve and talent

177

00:07:24,150 --> 00:07:22,240

set about pushing the boundaries of

178

00:07:26,309 --> 00:07:24,160

humanity's reach

179

00:07:28,070 --> 00:07:26,319

that's the story of nasa

180

00:07:30,629 --> 00:07:28,080

and it's a story that started a little

181

00:07:33,189 --> 00:07:30,639

more than half a century ago

182

00:07:34,870 --> 00:07:33,199

far from the space coast in a remote and

183

00:07:36,469 --> 00:07:34,880

desolate region of what is now called

184

00:07:37,909 --> 00:07:36,479

kazakhstan

185

00:07:40,790 --> 00:07:37,919

because it was from there that the

186

00:07:42,710 --> 00:07:40,800

soviet union launched sputnik

187

00:07:43,749 --> 00:07:42,720

the first artificial satellite to orbit

188

00:07:45,270 --> 00:07:43,759

the earth

189

00:07:46,629 --> 00:07:45,280

which was little more than a few pieces

190

00:07:49,830 --> 00:07:46,639

of metal with a transmitter and a

191

00:07:52,390 --> 00:07:49,840

battery strapped to the top of a missile

192

00:07:55,110 --> 00:07:52,400

but the world was stunned

193

00:07:57,029 --> 00:07:55,120

americans were dumbfounded

194

00:07:59,270 --> 00:07:57,039

the soviets

195

00:08:00,150 --> 00:07:59,280

it was perceived had taken the lead in a

196

00:08:04,150 --> 00:08:00,160

race

197

00:08:08,710 --> 00:08:06,869

but we caught up very quick

198

00:08:11,350 --> 00:08:08,720

president eisenhower signed legislation

199

00:08:14,070 --> 00:08:11,360

to create nasa and to invest in science

200

00:08:16,070 --> 00:08:14,080

and math education from grade school to

201
00:08:18,790 --> 00:08:16,080
graduate school

202
00:08:20,710 --> 00:08:18,800
in 1961

203
00:08:22,710 --> 00:08:20,720
president kennedy boldly declared before

204
00:08:24,629 --> 00:08:22,720
a joint session of congress that the

205
00:08:26,550 --> 00:08:24,639
united states would send a man to the

206
00:08:28,710 --> 00:08:26,560
moon and return him safely to the earth

207
00:08:30,150 --> 00:08:28,720
within a decade

208
00:08:32,790 --> 00:08:30,160
and as a nation

209
00:08:35,430 --> 00:08:32,800
we set about meeting that goal

210
00:08:39,190 --> 00:08:35,440
reaping rewards that have in the decades

211
00:08:42,070 --> 00:08:39,200
since touched every facet of our lives

212
00:08:44,870 --> 00:08:42,080
nasa was at the forefront

213
00:08:48,070 --> 00:08:44,880

many gave their careers to the effort

214

00:08:49,590 --> 00:08:48,080

and some have given far more

215

00:08:51,990 --> 00:08:49,600

in the years that have followed the

216

00:08:54,630 --> 00:08:52,000

space race inspired a generation of

217

00:08:56,389 --> 00:08:54,640

scientists and innovators including i'm

218

00:08:58,150 --> 00:08:56,399

sure many of you

219

00:08:59,590 --> 00:08:58,160

it's contributed to immeasurable

220

00:09:01,750 --> 00:08:59,600

technological advances that have

221

00:09:03,750 --> 00:09:01,760

improved our health and well-being

222

00:09:06,070 --> 00:09:03,760

from satellite navigation to water

223

00:09:08,630 --> 00:09:06,080

purification from aerospace

224

00:09:10,870 --> 00:09:08,640

manufacturing to medical imaging

225

00:09:12,310 --> 00:09:10,880

although i have to say during a meeting

226

00:09:14,150 --> 00:09:12,320

right before i came out on stage

227

00:09:16,310 --> 00:09:14,160

somebody said you know it's more than

228

00:09:18,150 --> 00:09:16,320

just tang and i had to point out i

229

00:09:19,829 --> 00:09:18,160

actually really liked tank

230

00:09:20,829 --> 00:09:19,839

i thought that was

231

00:09:24,630 --> 00:09:20,839

very

232

00:09:26,230 --> 00:09:24,640

cool and and leading the world to space

233

00:09:27,990 --> 00:09:26,240

helped america achieve new heights of

234

00:09:30,230 --> 00:09:28,000

prosperity here on earth

235

00:09:31,990 --> 00:09:30,240

while demonstrating the power of a free

236

00:09:35,430 --> 00:09:32,000

and open society

237

00:09:37,990 --> 00:09:35,440

to harness the ingenuity of its people

238

00:09:40,790 --> 00:09:38,000

and and on a personal note i

239

00:09:43,910 --> 00:09:40,800

i have been part of that generation

240

00:09:46,070 --> 00:09:43,920

so inspired by the space program

241

00:09:47,590 --> 00:09:46,080

1961 was the year of my birth

242

00:09:49,030 --> 00:09:47,600

the year that kennedy made his

243

00:09:50,630 --> 00:09:49,040

announcement

244

00:09:53,350 --> 00:09:50,640

now one of my earliest memories is

245

00:09:54,389 --> 00:09:53,360

sitting on my grandfather's shoulders

246

00:09:56,550 --> 00:09:54,399

waving

247

00:09:59,829 --> 00:09:56,560

a flag as astronauts

248

00:10:03,509 --> 00:10:01,670

for me the space program has always

249

00:10:06,550 --> 00:10:03,519

captured an essential part of what it

250

00:10:08,389 --> 00:10:06,560

means to be an america

251

00:10:10,710 --> 00:10:08,399

reaching for new heights stretching

252

00:10:12,630 --> 00:10:10,720

beyond what previously did not seem

253

00:10:14,870 --> 00:10:12,640

possible

254

00:10:17,190 --> 00:10:14,880

and so as president i believe that space

255

00:10:19,910 --> 00:10:17,200

exploration is not a luxury it's not an

256

00:10:21,350 --> 00:10:19,920

after thought in america's quest for a

257

00:10:25,590 --> 00:10:21,360

brighter future

258

00:10:27,509 --> 00:10:25,600

it is an essential part of that quest

259

00:10:30,389 --> 00:10:27,519

so today i'd like to talk about the next

260

00:10:33,110 --> 00:10:30,399

chapter in this story

261

00:10:34,630 --> 00:10:33,120

the challenges facing our space program

262

00:10:36,389 --> 00:10:34,640

are different

263

00:10:39,509 --> 00:10:36,399

and our imperatives for this program are

264

00:10:41,269 --> 00:10:39,519

different than in decades past

265

00:10:43,350 --> 00:10:41,279

we're no longer racing against an

266

00:10:45,590 --> 00:10:43,360

adversary we're no longer competing to

267

00:10:47,350 --> 00:10:45,600

achieve a singular goal like reaching

268

00:10:49,430 --> 00:10:47,360

the moon

269

00:10:51,350 --> 00:10:49,440

in fact what was once a global

270

00:10:54,550 --> 00:10:51,360

competition has long since become a

271

00:10:55,829 --> 00:10:54,560

global collaboration

272

00:10:57,829 --> 00:10:55,839

but while the measure of our

273

00:11:00,470 --> 00:10:57,839

achievements has changed a great deal

274

00:11:03,110 --> 00:11:00,480

over the past 50 years what we do

275

00:11:05,509 --> 00:11:03,120

or fail to do in seeking new frontiers

276
00:11:08,550 --> 00:11:05,519
is no less consequential for our future

277
00:11:10,949 --> 00:11:08,560
in space and here on earth

278
00:11:13,030 --> 00:11:10,959
so let me start by being

279
00:11:14,389 --> 00:11:13,040
extremely clear

280
00:11:16,790 --> 00:11:14,399
i am 100

281
00:11:18,550 --> 00:11:16,800
committed to the mission of nasa and its

282
00:11:29,030 --> 00:11:18,560
future

283
00:11:33,030 --> 00:11:30,870
because broadening our capabilities in

284
00:11:35,910 --> 00:11:33,040
space will continue to serve our society

285
00:11:37,910 --> 00:11:35,920
in ways that we can scarcely imagine

286
00:11:40,630 --> 00:11:37,920
because exploration will once more

287
00:11:43,750 --> 00:11:40,640
inspire wonder in a new generation

288
00:11:45,590 --> 00:11:43,760

sparking passions and launching careers

289

00:11:47,110 --> 00:11:45,600

and because ultimately if we fail to

290

00:11:49,190 --> 00:11:47,120

press forward in the pursuit of

291

00:11:51,590 --> 00:11:49,200

discovery we are seeding our future and

292

00:11:54,790 --> 00:11:51,600

we are seeding that essential element of

293

00:11:57,190 --> 00:11:56,069

now i know there have been a number of

294

00:11:59,190 --> 00:11:57,200

questions raised about my

295

00:12:00,949 --> 00:11:59,200

administration's plan for space

296

00:12:02,389 --> 00:12:00,959

exploration especially

297

00:12:04,949 --> 00:12:02,399

in this part of florida where so many

298

00:12:07,670 --> 00:12:04,959

rely on nasa as a source of income as

299

00:12:09,430 --> 00:12:07,680

well as a source of pride and community

300

00:12:11,030 --> 00:12:09,440

and these questions come at a time of

301
00:12:13,190 --> 00:12:11,040
transition

302
00:12:15,110 --> 00:12:13,200
as the space shuttle nears its scheduled

303
00:12:16,550 --> 00:12:15,120
retirement after almost 30 years of

304
00:12:18,310 --> 00:12:16,560
service

305
00:12:20,310 --> 00:12:18,320
and understandably this adds to the

306
00:12:21,670 --> 00:12:20,320
worries of folks concerned not only

307
00:12:23,590 --> 00:12:21,680
about their own futures but about the

308
00:12:26,230 --> 00:12:23,600
future of the space program to which

309
00:12:28,470 --> 00:12:26,240
they've devoted their lives

310
00:12:30,470 --> 00:12:28,480
but i also know that underlying these

311
00:12:32,790 --> 00:12:30,480
concerns is a deeper word

312
00:12:34,790 --> 00:12:32,800
one that precedes not only this plan but

313
00:12:36,829 --> 00:12:34,800

this administration

314

00:12:39,190 --> 00:12:36,839

it stems from the sense that people in

315

00:12:41,110 --> 00:12:39,200

washington driven sometimes less by

316

00:12:43,350 --> 00:12:41,120

vision than by politics have for years

317

00:12:44,629 --> 00:12:43,360

neglected nasa's mission and undermined

318

00:12:46,550 --> 00:12:44,639

the work of the professionals who

319

00:12:48,870 --> 00:12:46,560

fulfill it

320

00:12:50,550 --> 00:12:48,880

we've seen that in the nasa's budget

321

00:12:53,190 --> 00:12:50,560

which has risen and fallen with the

322

00:12:55,350 --> 00:12:53,200

political winds but we can also see it

323

00:12:57,829 --> 00:12:55,360

in other ways in the reluctance of those

324

00:12:58,949 --> 00:12:57,839

who hold office to set clear achievable

325

00:13:00,710 --> 00:12:58,959

objectives

326
00:13:01,990 --> 00:13:00,720
to provide the resource to meet those

327
00:13:04,470 --> 00:13:02,000
objectives

328
00:13:06,470 --> 00:13:04,480
and to justify not just these plans but

329
00:13:09,030 --> 00:13:06,480
the larger purpose of space exploration

330
00:13:11,110 --> 00:13:09,040
in the 21st century

331
00:13:12,790 --> 00:13:11,120
all that has to change

332
00:13:15,509 --> 00:13:12,800
and with the strategy i'm outlining

333
00:13:19,509 --> 00:13:15,519
today it will

334
00:13:21,509 --> 00:13:19,519
we start by increasing nasa's budget by

335
00:13:23,509 --> 00:13:21,519
six billion dollars over the next five

336
00:13:29,430 --> 00:13:23,519
years

337
00:13:33,990 --> 00:13:31,190
i want people to understand the context

338
00:13:35,910 --> 00:13:34,000

of this this is happening even as we

339

00:13:37,990 --> 00:13:35,920

have instituted a freeze on

340

00:13:40,150 --> 00:13:38,000

discretionary spending

341

00:13:41,590 --> 00:13:40,160

and sought to make cuts elsewhere in the

342

00:13:43,990 --> 00:13:41,600

budget

343

00:13:45,750 --> 00:13:44,000

so nasa from the start several months

344

00:13:47,350 --> 00:13:45,760

ago when i issued my budget

345

00:13:49,189 --> 00:13:47,360

was one of the areas where we didn't

346

00:13:51,030 --> 00:13:49,199

just maintain a freeze but we actually

347

00:13:55,350 --> 00:13:51,040

increased funding

348

00:13:59,829 --> 00:13:57,670

by doing that we will ramp up robotic

349

00:14:01,189 --> 00:13:59,839

exploration of the solar system

350

00:14:02,870 --> 00:14:01,199

including a probe of the sun's

351
00:14:04,870 --> 00:14:02,880
atmosphere

352
00:14:06,470 --> 00:14:04,880
new scouting missions to mars and other

353
00:14:08,389 --> 00:14:06,480
destinations

354
00:14:10,710 --> 00:14:08,399
and an advanced telescope to follow

355
00:14:13,750 --> 00:14:10,720
hubble allowing us to peer deeper into

356
00:14:16,470 --> 00:14:13,760
the universe than ever before

357
00:14:18,230 --> 00:14:16,480
we will increase earth-based observation

358
00:14:19,990 --> 00:14:18,240
to improve our understanding of our

359
00:14:21,910 --> 00:14:20,000
climate and our world

360
00:14:22,949 --> 00:14:21,920
science that will garner tangible

361
00:14:24,550 --> 00:14:22,959
benefits

362
00:14:27,269 --> 00:14:24,560
helping us to protect our environment

363
00:14:29,110 --> 00:14:27,279

for future generations

364

00:14:31,030 --> 00:14:29,120
and we will extend the life of the

365

00:14:33,269 --> 00:14:31,040
international space station

366

00:14:35,430 --> 00:14:33,279
likely by more than five years

367

00:14:36,470 --> 00:14:35,440
while actually using it for its intended

368

00:14:38,949 --> 00:14:36,480
purpose

369

00:14:41,430 --> 00:14:38,959
conducting advanced research that can

370

00:14:43,590 --> 00:14:41,440
help improve the daily lives of people

371

00:14:47,030 --> 00:14:43,600
here on earth as well as testing and

372

00:14:48,790 --> 00:14:47,040
improving upon our capabilities in space

373

00:14:50,470 --> 00:14:48,800
this includes technologies like more

374

00:14:53,430 --> 00:14:50,480
efficient life support systems that will

375

00:14:55,829 --> 00:14:53,440
help reduce the cost of future missions

376

00:14:58,150 --> 00:14:55,839

and in order to reach the space station

377

00:15:00,710 --> 00:14:58,160

we will work with a growing array of

378

00:15:02,790 --> 00:15:00,720

private companies competing to make

379

00:15:12,710 --> 00:15:02,800

getting to space easier and more

380

00:15:16,550 --> 00:15:14,470

now i recognize that some have said it

381

00:15:19,269 --> 00:15:16,560

is infeasible or unwise to work with the

382

00:15:20,790 --> 00:15:19,279

private sector in this way

383

00:15:23,430 --> 00:15:20,800

i disagree

384

00:15:25,189 --> 00:15:23,440

the truth is nasa has always relied on

385

00:15:27,509 --> 00:15:25,199

private industry to help design and

386

00:15:30,150 --> 00:15:27,519

build the vehicles that carry astronauts

387

00:15:32,150 --> 00:15:30,160

to space from the mercury capsule that

388

00:15:33,350 --> 00:15:32,160

carried john glenn into orbit nearly 50

389

00:15:35,509 --> 00:15:33,360

years ago

390

00:15:38,310 --> 00:15:35,519

to the space shuttle discovery currently

391

00:15:40,389 --> 00:15:38,320

orbiting overhead

392

00:15:41,829 --> 00:15:40,399

by buying the services of space

393

00:15:43,910 --> 00:15:41,839

transportation

394

00:15:46,550 --> 00:15:43,920

rather than the vehicles themselves we

395

00:15:47,990 --> 00:15:46,560

can continue to ensure rigorous safety

396

00:15:50,069 --> 00:15:48,000

standards are met

397

00:15:51,910 --> 00:15:50,079

but we will also accelerate the pace of

398

00:15:53,670 --> 00:15:51,920

innovations as companies

399

00:15:54,949 --> 00:15:53,680

from young startups to established

400

00:15:57,350 --> 00:15:54,959

leaders

401
00:15:58,710 --> 00:15:57,360
compete to design and build and launch

402
00:16:01,749 --> 00:15:58,720
new means of carrying people and

403
00:16:03,110 --> 00:16:01,759
materials out of our atmosphere

404
00:16:04,790 --> 00:16:03,120
in addition

405
00:16:06,069 --> 00:16:04,800
as part of this effort

406
00:16:08,150 --> 00:16:06,079
we will build

407
00:16:09,350 --> 00:16:08,160
on the good work already done on the

408
00:16:11,990 --> 00:16:09,360
ourian

409
00:16:13,509 --> 00:16:12,000
or orion crew capsule

410
00:16:15,430 --> 00:16:13,519
i've directed charlie bolden to

411
00:16:17,990 --> 00:16:15,440
immediately begin developing a rescue

412
00:16:20,710 --> 00:16:18,000
vehicle using this technology

413
00:16:22,710 --> 00:16:20,720

so we are not forced to rely on foreign

414

00:16:24,629 --> 00:16:22,720

providers if it becomes necessary to

415

00:16:26,949 --> 00:16:24,639

quickly bring our people home from the

416

00:16:28,870 --> 00:16:26,959

international space station

417

00:16:30,470 --> 00:16:28,880

and this orion effort will be part of

418

00:16:32,870 --> 00:16:30,480

the technological foundation for

419

00:16:34,550 --> 00:16:32,880

advanced spacecraft to be used in future

420

00:16:37,590 --> 00:16:34,560

deep space missions

421

00:16:48,870 --> 00:16:37,600

in fact orion will be ready to fight

422

00:16:53,430 --> 00:16:51,829

next we will invest more than three

423

00:16:55,749 --> 00:16:53,440

billion dollars

424

00:16:57,030 --> 00:16:55,759

to conduct research on an advanced heavy

425

00:16:59,749 --> 00:16:57,040

lift rocket

426
00:17:02,470 --> 00:16:59,759
a vehicle to efficiently send into orbit

427
00:17:04,230 --> 00:17:02,480
the crew capsules propulsion systems

428
00:17:06,390 --> 00:17:04,240
and large quantities of supplies needed

429
00:17:08,630 --> 00:17:06,400
to reach deep space

430
00:17:11,029 --> 00:17:08,640
on developing this new vehicle we will

431
00:17:12,309 --> 00:17:11,039
not only look at revising or modifying

432
00:17:14,870 --> 00:17:12,319
older models

433
00:17:16,309 --> 00:17:14,880
we want to look at new designs

434
00:17:19,350 --> 00:17:16,319
new materials

435
00:17:21,590 --> 00:17:19,360
new technologies that will transform not

436
00:17:24,150 --> 00:17:21,600
just where we can go but what we can do

437
00:17:25,829 --> 00:17:24,160
when we get there

438
00:17:28,710 --> 00:17:25,839

and we will finalize

439

00:17:30,630 --> 00:17:28,720

a rocket design no later than 2015 and

440

00:17:39,510 --> 00:17:30,640

then begin to build it

441

00:17:42,630 --> 00:17:40,789

and i want everybody to understand

442

00:17:44,630 --> 00:17:42,640

that's at least two years earlier than

443

00:17:46,549 --> 00:17:44,640

previously planned

444

00:17:48,950 --> 00:17:46,559

and that's conservative given that the

445

00:17:51,110 --> 00:17:48,960

previous program was behind schedule and

446

00:17:52,630 --> 00:17:51,120

over budget

447

00:17:54,549 --> 00:17:52,640

at the same time

448

00:17:57,270 --> 00:17:54,559

after decades of neglect

449

00:17:59,430 --> 00:17:57,280

we will increase investment right away

450

00:18:01,190 --> 00:17:59,440

in other ground-breaking technologies

451
00:18:03,430 --> 00:18:01,200
that will allow astronauts to reach

452
00:18:05,669 --> 00:18:03,440
space sooner and more often

453
00:18:07,270 --> 00:18:05,679
to travel farther and faster for less

454
00:18:09,430 --> 00:18:07,280
cost and to live

455
00:18:11,990 --> 00:18:09,440
and work in space for longer periods of

456
00:18:14,390 --> 00:18:12,000
time more safely

457
00:18:16,710 --> 00:18:14,400
that means tackling major scientific and

458
00:18:18,390 --> 00:18:16,720
technological challenges

459
00:18:20,789 --> 00:18:18,400
now how do we shield astronauts from

460
00:18:23,430 --> 00:18:20,799
radiation on longer missions

461
00:18:24,870 --> 00:18:23,440
how do we harness resources on distant

462
00:18:27,029 --> 00:18:24,880
worlds

463
00:18:30,630 --> 00:18:27,039

how do we supply spacecraft with energy

464

00:18:32,470 --> 00:18:30,640

needed for these far-reaching journeys

465

00:18:33,830 --> 00:18:32,480

these are questions that we can answer

466

00:18:36,230 --> 00:18:33,840

and will answer

467

00:18:39,750 --> 00:18:36,240

and these are the questions

468

00:18:43,510 --> 00:18:39,760

whose answers no doubt will reap

469

00:18:44,230 --> 00:18:43,520

untold benefits right here on earth

470

00:18:47,270 --> 00:18:44,240

so

471

00:18:49,350 --> 00:18:47,280

the point is what we're looking for is

472

00:18:52,310 --> 00:18:49,360

not just to continue on the same path we

473

00:18:54,549 --> 00:18:52,320

want to leap into the future

474

00:19:01,190 --> 00:18:54,559

we want major breakthroughs

475

00:19:05,190 --> 00:19:02,950

now

476

00:19:07,029 --> 00:19:05,200

yes pursuing this new strategy will

477

00:19:10,630 --> 00:19:07,039

require that we revise

478

00:19:14,870 --> 00:19:12,950

in part this is because the old strategy

479

00:19:17,029 --> 00:19:14,880

including the constellation program was

480

00:19:19,350 --> 00:19:17,039

not fulfilling its promise in many ways

481

00:19:21,190 --> 00:19:19,360

that's not just my assessment

482

00:19:23,190 --> 00:19:21,200

it's also the assessment of a panel of

483

00:19:27,750 --> 00:19:23,200

respected nonpartisan experts charged

484

00:19:32,630 --> 00:19:29,750

now despite this some have had harsh

485

00:19:34,150 --> 00:19:32,640

words for the decisions we've made

486

00:19:37,029 --> 00:19:34,160

including some individuals who i've got

487

00:19:38,549 --> 00:19:37,039

enormous respect and admiration for

488

00:19:41,510 --> 00:19:38,559

but what i hope is is that everybody

489

00:19:43,190 --> 00:19:41,520

will take a look at what we are planning

490

00:19:45,029 --> 00:19:43,200

consider the details of what we've laid

491

00:19:48,150 --> 00:19:45,039

out and see the merits

492

00:19:50,230 --> 00:19:48,160

as i've described them

493

00:19:52,390 --> 00:19:50,240

the bottom line is nobody is more

494

00:19:55,190 --> 00:19:52,400

committed

495

00:19:58,630 --> 00:19:55,200

to manned space flight

496

00:20:00,310 --> 00:19:58,640

to human exploration of space than i am

497

00:20:06,149 --> 00:20:00,320

but we've got to do it

498

00:20:09,110 --> 00:20:07,909

and we and we can't just keep on doing

499

00:20:11,350 --> 00:20:09,120

the same old things that we've been

500

00:20:12,630 --> 00:20:11,360

doing and thinking that somehow

501
00:20:14,950 --> 00:20:12,640
is going to get us to where we want to

502
00:20:19,110 --> 00:20:16,870
some have said for instance that this

503
00:20:21,350 --> 00:20:19,120
plan gives up our leadership in space by

504
00:20:24,149 --> 00:20:21,360
failing to produce plans

505
00:20:25,750 --> 00:20:24,159
within nasa to reach low earth orbit

506
00:20:27,029 --> 00:20:25,760
instead of relying on companies and

507
00:20:29,350 --> 00:20:27,039
other countries

508
00:20:31,590 --> 00:20:29,360
but we will actually reach space faster

509
00:20:33,270 --> 00:20:31,600
and more often under this new plan in

510
00:20:35,750 --> 00:20:33,280
ways that will help us improve our

511
00:20:37,510 --> 00:20:35,760
technological capacity and lower our

512
00:20:40,549 --> 00:20:37,520
costs which are both essential for the

513
00:20:42,149 --> 00:20:40,559

long-term sustainability of space flight

514

00:20:44,390 --> 00:20:42,159

in fact through our plan we'll be

515

00:20:53,350 --> 00:20:44,400

sending many more astronauts to space

516

00:20:56,070 --> 00:20:54,870

there are also those who've criticized

517

00:20:59,350 --> 00:20:56,080

our decision to end parts of

518

00:21:03,029 --> 00:20:59,360

constellation as one that will hinder

519

00:21:04,950 --> 00:21:03,039

space exploration below low earth orbit

520

00:21:06,950 --> 00:21:04,960

but it's precisely by investing in

521

00:21:08,070 --> 00:21:06,960

groundbreaking research and innovative

522

00:21:09,669 --> 00:21:08,080

companies

523

00:21:12,549 --> 00:21:09,679

that we will have the potential to

524

00:21:14,310 --> 00:21:12,559

rapidly transform our capabilities

525

00:21:16,470 --> 00:21:14,320

even as we build on the important work

526
00:21:20,070 --> 00:21:16,480
already completed through projects like

527
00:21:22,070 --> 00:21:20,080
orion for future missions

528
00:21:23,909 --> 00:21:22,080
and unlike the previous program we are

529
00:21:26,950 --> 00:21:23,919
setting a course with specific and

530
00:21:29,350 --> 00:21:26,960
achievable milestones

531
00:21:31,909 --> 00:21:29,360
early in the next decade a set of crude

532
00:21:33,669 --> 00:21:31,919
flights will test and prove the systems

533
00:21:35,110 --> 00:21:33,679
required for exploration beyond low

534
00:21:37,190 --> 00:21:35,120
earth orbit

535
00:21:39,750 --> 00:21:37,200
and by 2025

536
00:21:41,430 --> 00:21:39,760
we expect new spacecraft designed for

537
00:21:43,669 --> 00:21:41,440
long journeys to allow us to begin the

538
00:21:45,990 --> 00:21:43,679

first ever crewed missions beyond the

539

00:21:55,750 --> 00:21:46,000

moon into deep space

540

00:22:06,950 --> 00:21:57,909

we'll start by sending astronauts to an

541

00:22:12,310 --> 00:22:09,830

by the mid-2030s i believe we can send

542

00:22:13,909 --> 00:22:12,320

humans to orbit mars and return them

543

00:22:16,310 --> 00:22:13,919

safely to earth

544

00:22:27,830 --> 00:22:16,320

and a landing on mars will follow

545

00:22:31,590 --> 00:22:29,909

but i want to repeat i want to repeat

546

00:22:33,830 --> 00:22:31,600

this

547

00:22:35,510 --> 00:22:33,840

critical to deep space exploration will

548

00:22:37,590 --> 00:22:35,520

be the development of breakthrough

549

00:22:39,110 --> 00:22:37,600

propulsion systems and other advanced

550

00:22:41,029 --> 00:22:39,120

technologies

551
00:22:43,190 --> 00:22:41,039
so i'm challenging nasa to break through

552
00:22:44,630 --> 00:22:43,200
these barriers

553
00:22:46,390 --> 00:22:44,640
and we'll give you the resources to

554
00:22:47,990 --> 00:22:46,400
break through these barriers

555
00:22:50,149 --> 00:22:48,000
and i know you will

556
00:22:52,870 --> 00:22:50,159
with ingenuity and intensity because

557
00:23:00,230 --> 00:22:52,880
that's what you've always done

558
00:23:03,590 --> 00:23:01,750
i understand that some believe that we

559
00:23:06,230 --> 00:23:03,600
should attempt a return to the surface

560
00:23:08,630 --> 00:23:06,240
of the moon first

561
00:23:11,830 --> 00:23:08,640
as previously planned

562
00:23:13,909 --> 00:23:11,840
but i i just have to say

563
00:23:16,549 --> 00:23:13,919

pretty bluntly here

564

00:23:18,950 --> 00:23:16,559

we've been there before

565

00:23:21,430 --> 00:23:18,960

buzz has been there

566

00:23:23,909 --> 00:23:21,440

there's a lot more of space to explore

567

00:23:25,909 --> 00:23:23,919

and a lot more to learn when we do

568

00:23:28,549 --> 00:23:25,919

so i believe it's more important to ramp

569

00:23:30,789 --> 00:23:28,559

up our capabilities to reach and operate

570

00:23:32,070 --> 00:23:30,799

at a series of increasingly demanding

571

00:23:33,669 --> 00:23:32,080

targets

572

00:23:35,750 --> 00:23:33,679

while advancing our technological

573

00:23:37,750 --> 00:23:35,760

capabilities with each step forward and

574

00:23:39,350 --> 00:23:37,760

that's what this strategy does

575

00:23:41,269 --> 00:23:39,360

and that's how we will ensure that our

576
00:23:51,909 --> 00:23:41,279
leadership in space is even stronger in

577
00:23:56,710 --> 00:23:54,070
now finally i want to say a few words

578
00:23:58,870 --> 00:23:56,720
about jobs

579
00:24:00,549 --> 00:23:58,880
suzanne

580
00:24:01,510 --> 00:24:00,559
pointed out to me the last time i was

581
00:24:03,350 --> 00:24:01,520
here

582
00:24:06,630 --> 00:24:03,360
i made a very clear promise that i would

583
00:24:10,070 --> 00:24:06,640
help in the transition

584
00:24:11,350 --> 00:24:10,080
into a new program to make sure that

585
00:24:12,950 --> 00:24:11,360
people who are already going through a

586
00:24:14,470 --> 00:24:12,960
tough time here

587
00:24:16,470 --> 00:24:14,480
in this region

588
00:24:20,070 --> 00:24:16,480

were helped

589

00:24:23,269 --> 00:24:20,080

and despite some reports to the contrary

590

00:24:25,269 --> 00:24:23,279

my plan will add more than 2 500 jobs

591

00:24:27,669 --> 00:24:25,279

along the space coast in the next two

592

00:24:29,750 --> 00:24:27,679

years compared to the plan under the

593

00:24:38,070 --> 00:24:29,760

previous administration so i want to

594

00:24:41,269 --> 00:24:39,510

we're going to modernize the kennedy

595

00:24:43,350 --> 00:24:41,279

space center

596

00:24:44,870 --> 00:24:43,360

creating jobs as we upgrade launch

597

00:24:47,669 --> 00:24:44,880

facilities

598

00:24:49,269 --> 00:24:47,679

and there's potential for even more jobs

599

00:24:51,190 --> 00:24:49,279

as companies in florida and across

600

00:24:53,029 --> 00:24:51,200

america compete to be part of a new

601
00:24:55,430 --> 00:24:53,039
space transportation industry and some

602
00:24:56,789 --> 00:24:55,440
of those industry leaders are here here

603
00:24:58,230 --> 00:24:56,799
today

604
00:25:00,390 --> 00:24:58,240
this holds the promise of generating

605
00:25:02,230 --> 00:25:00,400
more than 10 000 jobs nationwide over

606
00:25:03,590 --> 00:25:02,240
the next few years and many of these

607
00:25:05,830 --> 00:25:03,600
jobs will be created right here in

608
00:25:09,669 --> 00:25:05,840
florida because this is an area primed

609
00:25:13,510 --> 00:25:11,350
now it's true

610
00:25:15,510 --> 00:25:13,520
there are floridians who will see their

611
00:25:18,070 --> 00:25:15,520
work on the shuttle end as the program

612
00:25:19,990 --> 00:25:18,080
winds down

613
00:25:21,510 --> 00:25:20,000

it's based on a decision that was made

614

00:25:23,990 --> 00:25:21,520

six years ago

615

00:25:25,190 --> 00:25:24,000

not six months ago

616

00:25:26,950 --> 00:25:25,200

but that doesn't make it any less

617

00:25:29,590 --> 00:25:26,960

painful for families and communities

618

00:25:31,350 --> 00:25:29,600

affected as this decision becomes

619

00:25:33,029 --> 00:25:31,360

reality

620

00:25:35,750 --> 00:25:33,039

so i'm proposing

621

00:25:38,390 --> 00:25:35,760

in part because of strong lobbying by

622

00:25:40,950 --> 00:25:38,400

bill and by suzanne

623

00:25:43,110 --> 00:25:40,960

as well as charlie i'm proposing a 40

624

00:25:44,950 --> 00:25:43,120

million dollar initiative

625

00:25:47,190 --> 00:25:44,960

led by a high-level team from the white

626
00:25:49,909 --> 00:25:47,200
house nasa and other agencies

627
00:25:51,909 --> 00:25:49,919
to develop a plan for regional economic

628
00:26:04,230 --> 00:25:51,919
growth and job creation and i expect

629
00:26:08,310 --> 00:26:06,230
it's an effort that will help prepare

630
00:26:10,549 --> 00:26:08,320
this already skilled workforce for new

631
00:26:12,870 --> 00:26:10,559
opportunities in the space industry and

632
00:26:15,269 --> 00:26:12,880
beyond

633
00:26:18,070 --> 00:26:15,279
so this is the next chapter that we can

634
00:26:20,230 --> 00:26:18,080
write together here at nasa

635
00:26:21,909 --> 00:26:20,240
we will partner with industry we will

636
00:26:23,430 --> 00:26:21,919
invest in cutting-edge research and

637
00:26:26,390 --> 00:26:23,440
technology

638
00:26:29,190 --> 00:26:26,400

we will set far-reaching milestones

639

00:26:31,110 --> 00:26:29,200

and provide the resources to reach those

640

00:26:33,350 --> 00:26:31,120

milestones

641

00:26:35,350 --> 00:26:33,360

and step by step we will push the

642

00:26:39,110 --> 00:26:35,360

boundaries not only of where we can go

643

00:26:43,909 --> 00:26:41,909

50 years after the creation of nasa

644

00:26:46,310 --> 00:26:43,919

our goal is no longer just

645

00:26:47,510 --> 00:26:46,320

a destination to reach

646

00:26:49,669 --> 00:26:47,520

our goal

647

00:26:52,149 --> 00:26:49,679

is the capacity for people to work and

648

00:26:55,590 --> 00:26:52,159

learn and operate and live safely beyond

649

00:26:56,950 --> 00:26:55,600

the earth for extended periods of time

650

00:27:00,149 --> 00:26:56,960

ultimately in ways that are more

651
00:27:02,230 --> 00:27:00,159
sustainable and even indefinite

652
00:27:05,190 --> 00:27:02,240
and in fulfilling this task

653
00:27:06,549 --> 00:27:05,200
we will not only extend humanity's reach

654
00:27:08,789 --> 00:27:06,559
in space

655
00:27:10,870 --> 00:27:08,799
we will strengthen america's leadership

656
00:27:12,390 --> 00:27:10,880
here on earth

657
00:27:14,070 --> 00:27:12,400
now i'll close by saying this i know

658
00:27:16,149 --> 00:27:14,080
that some americans have asked a

659
00:27:17,990 --> 00:27:16,159
question that's particularly apt on tax

660
00:27:20,950 --> 00:27:18,000
day

661
00:27:22,710 --> 00:27:20,960
why spend money on nasa at all

662
00:27:23,990 --> 00:27:22,720
i spend money solving problems in space

663
00:27:26,149 --> 00:27:24,000

when we don't

664

00:27:28,310 --> 00:27:26,159

uh lack for problems to solve here on

665

00:27:29,590 --> 00:27:28,320

the ground

666

00:27:31,750 --> 00:27:29,600

and obviously our country's still

667

00:27:32,830 --> 00:27:31,760

reeling from the worst economic turmoil

668

00:27:35,269 --> 00:27:32,840

we've known in

669

00:27:37,190 --> 00:27:35,279

generations we have massive structural

670

00:27:40,470 --> 00:27:37,200

deficits that have to be closed in the

671

00:27:44,789 --> 00:27:42,149

but you and i know

672

00:27:46,710 --> 00:27:44,799

this is a false choice

673

00:27:48,950 --> 00:27:46,720

we have to fix our economy we need to

674

00:27:50,070 --> 00:27:48,960

close our deficits for but for pennies

675

00:27:52,070 --> 00:27:50,080

on the dollar

676
00:27:54,149 --> 00:27:52,080
the space program has fueled jobs and

677
00:27:55,909 --> 00:27:54,159
entire industries for pennies on the

678
00:27:57,909 --> 00:27:55,919
dollar the space program has improved

679
00:27:59,590 --> 00:27:57,919
our lives advanced our society

680
00:28:01,909 --> 00:27:59,600
strengthened our economy and inspired

681
00:28:04,789 --> 00:28:01,919
generations of americans and i have no

682
00:28:06,230 --> 00:28:04,799
doubt that nasa can continue to fulfill

683
00:28:16,870 --> 00:28:06,240
this role

684
00:28:22,310 --> 00:28:19,830
but i want to i want to say clearly to

685
00:28:24,470 --> 00:28:22,320
those of you who work for nasa but

686
00:28:27,430 --> 00:28:24,480
to the entire community

687
00:28:30,789 --> 00:28:27,440
that has been so supportive

688
00:28:33,029 --> 00:28:30,799

of the space program in this area

689

00:28:35,110 --> 00:28:33,039

that is exactly why it's so essential

690

00:28:37,110 --> 00:28:35,120

that we pursue a new course

691

00:28:38,630 --> 00:28:37,120

and that we revitalize nasa and its

692

00:28:40,310 --> 00:28:38,640

mission

693

00:28:43,269 --> 00:28:40,320

not just with dollars but with clear

694

00:28:45,110 --> 00:28:43,279

aims and a larger purpose

695

00:28:47,029 --> 00:28:45,120

a little more than 40 years ago

696

00:28:50,149 --> 00:28:47,039

astronauts descended the nine-rung

697

00:28:51,669 --> 00:28:50,159

ladder of the lunar module called eagle

698

00:28:53,430 --> 00:28:51,679

and allowed their feet to touch the

699

00:28:56,549 --> 00:28:53,440

dusty surface

700

00:28:59,190 --> 00:28:56,559

of the earth's only moon

701
00:29:01,990 --> 00:28:59,200
this was the culmination of a daring and

702
00:29:03,430 --> 00:29:02,000
perilous gambit

703
00:29:05,029 --> 00:29:03,440
of an endeavor that pushed the

704
00:29:07,029 --> 00:29:05,039
boundaries of our knowledge

705
00:29:09,029 --> 00:29:07,039
of our technical prowess

706
00:29:11,110 --> 00:29:09,039
of our very capacity as human beings to

707
00:29:12,549 --> 00:29:11,120
solve problems

708
00:29:13,750 --> 00:29:12,559
it wasn't just the greatest achievement

709
00:29:16,789 --> 00:29:13,760
in nasa's history it was one of the

710
00:29:18,630 --> 00:29:16,799
greatest achievements in human history

711
00:29:21,029 --> 00:29:18,640
and the question for us now is whether

712
00:29:23,430 --> 00:29:21,039
that was the beginning of something

713
00:29:24,950 --> 00:29:23,440

or the end of something

714

00:29:26,789 --> 00:29:24,960

i choose to believe

715

00:29:28,549 --> 00:29:26,799

it was only the beginning

716

00:29:30,310 --> 00:29:28,559

so thank you god bless you and may god

717

00:30:41,110 --> 00:29:30,320

bless the united states of america thank

718

00:30:41,120 --> 00:31:11,269

so

719

00:31:11,279 --> 00:31:25,669

uh