



1
00:00:10,150 --> 00:00:08,230
well good morning i'm bob cabana the

2
00:00:12,070 --> 00:00:10,160
director here at the kennedy space

3
00:00:14,230 --> 00:00:12,080
center it's my pleasure to welcome you

4
00:00:16,550 --> 00:00:14,240
here today for this announcement

5
00:00:18,950 --> 00:00:16,560
as we celebrate the first 50 years of

6
00:00:21,109 --> 00:00:18,960
the kennedy space center this year

7
00:00:23,509 --> 00:00:21,119
we embark on a new journey taking us

8
00:00:25,990 --> 00:00:23,519
forward to the next 50 years of

9
00:00:27,910 --> 00:00:26,000
exploring space with the announcement of

10
00:00:29,830 --> 00:00:27,920
the company selected for the next phase

11
00:00:31,349 --> 00:00:29,840
of development in our commercial crew

12
00:00:32,790 --> 00:00:31,359
program

13
00:00:34,950 --> 00:00:32,800

nasa will use the commercial crew

14

00:00:36,709 --> 00:00:34,960

program to take our astronauts to the

15

00:00:38,150 --> 00:00:36,719

international space station later this

16

00:00:40,470 --> 00:00:38,160

decade

17

00:00:42,830 --> 00:00:40,480

we are working to transform the center

18

00:00:45,350 --> 00:00:42,840

to support a new era of space

19

00:00:47,590 --> 00:00:45,360

exploration modifying and upgrading our

20

00:00:48,630 --> 00:00:47,600

facilities for nasa's space launch

21

00:00:50,630 --> 00:00:48,640

system

22

00:00:52,630 --> 00:00:50,640

the orion spacecraft is here right now

23

00:00:56,069 --> 00:00:52,640

and the team is processing it for its

24

00:00:59,029 --> 00:00:56,079

first flight in 2014.

25

00:01:00,950 --> 00:00:59,039

the ksc team has the human capital

26

00:01:02,790 --> 00:01:00,960

expertise unique facilities and

27

00:01:05,429 --> 00:01:02,800

specialized equipment to propel the

28

00:01:07,750 --> 00:01:05,439

agency into the next phase of space

29

00:01:10,630 --> 00:01:07,760

exploration and a commercial crew

30

00:01:13,270 --> 00:01:10,640

program is a key part of that

31

00:01:15,270 --> 00:01:13,280

it's my pleasure now to turn the stage

32

00:01:17,590 --> 00:01:15,280

over to our administrator

33

00:01:20,070 --> 00:01:17,600

charlie bolden for more details on this

34

00:01:22,070 --> 00:01:20,080

historic milestone charlie

35

00:01:24,550 --> 00:01:22,080

thanks very much bob um

36

00:01:26,630 --> 00:01:24,560

i want to join bob and the entire ksc

37

00:01:28,630 --> 00:01:26,640

team in celebrating the 50th anniversary

38

00:01:29,830 --> 00:01:28,640

of ksc first of all and just the

39

00:01:31,990 --> 00:01:29,840

remarkable

40

00:01:34,789 --> 00:01:32,000

contributions of the the entire space

41

00:01:36,390 --> 00:01:34,799

coast to uh america's leadership in

42

00:01:38,789 --> 00:01:36,400

space exploration

43

00:01:41,429 --> 00:01:38,799

from the exhilarating days of mercury

44

00:01:43,510 --> 00:01:41,439

gemini and apollo to the unprecedented

45

00:01:46,789 --> 00:01:43,520

30-year history of space shuttle the

46

00:01:48,950 --> 00:01:46,799

road to space has always and always will

47

00:01:51,350 --> 00:01:48,960

lead through the great state of florida

48

00:01:53,749 --> 00:01:51,360

in fact the kennedy space center is now

49

00:01:55,990 --> 00:01:53,759

the launch pad for the next big leap in

50

00:01:58,389 --> 00:01:56,000

america's space program our commercial

51
00:02:00,310 --> 00:01:58,399
crew program this program is a top

52
00:02:02,230 --> 00:02:00,320
priority of the obama administration and

53
00:02:03,910 --> 00:02:02,240
you'll hear from program manager ed

54
00:02:06,630 --> 00:02:03,920
mango shortly

55
00:02:08,630 --> 00:02:06,640
two years ago right here at kennedy the

56
00:02:11,430 --> 00:02:08,640
president set a goal of sending humans

57
00:02:14,630 --> 00:02:11,440
farther into space than we've ever been

58
00:02:15,990 --> 00:02:14,640
to an asteroid in 2025 and mars in the

59
00:02:18,309 --> 00:02:16,000
2030s

60
00:02:20,869 --> 00:02:18,319
a bipartisan consensus was reached in

61
00:02:23,350 --> 00:02:20,879
washington that the best way to do that

62
00:02:26,070 --> 00:02:23,360
was for nasa to acquire services from

63
00:02:27,750 --> 00:02:26,080

commercial companies to deliver cargo

64

00:02:28,949 --> 00:02:27,760

and crew to the international space

65

00:02:30,869 --> 00:02:28,959

station

66

00:02:33,030 --> 00:02:30,879

that allows us to concentrate on

67

00:02:35,910 --> 00:02:33,040

building america's next generation space

68

00:02:38,150 --> 00:02:35,920

exploration system the orion spacecraft

69

00:02:39,670 --> 00:02:38,160

in the space launch system the vehicle

70

00:02:42,869 --> 00:02:39,680

and rocket that will take american

71

00:02:44,630 --> 00:02:42,879

astronauts farther into space than any

72

00:02:47,030 --> 00:02:44,640

spacecraft developed for human space

73

00:02:49,589 --> 00:02:47,040

flight has flown in the 40 years since

74

00:02:51,990 --> 00:02:49,599

our astronauts returned from the moon

75

00:02:54,710 --> 00:02:52,000

this dual track exploration strategy is

76
00:02:56,790 --> 00:02:54,720
producing tangible results and the teams

77
00:02:59,430 --> 00:02:56,800
here in florida and across the nation

78
00:03:02,550 --> 00:02:59,440
are making steady progress

79
00:03:04,949 --> 00:03:02,560
exactly one month ago on july 2nd the

80
00:03:07,350 --> 00:03:04,959
first space space-bound orion spacecraft

81
00:03:09,509 --> 00:03:07,360
arrived at kennedy and as bob said is

82
00:03:11,830 --> 00:03:09,519
now undergoing final construction and

83
00:03:14,790 --> 00:03:11,840
integration in preparations for its

84
00:03:16,229 --> 00:03:14,800
initial test flight in 2014 and i'll

85
00:03:18,630 --> 00:03:16,239
remind you that's less than two years

86
00:03:22,229 --> 00:03:18,640
from now this work is expected to

87
00:03:24,550 --> 00:03:22,239
support at least 350 space coast jobs

88
00:03:26,869 --> 00:03:24,560

the mobile launcher which will serve as

89

00:03:28,309 --> 00:03:26,879

the launch platform for the sls uh and

90

00:03:30,789 --> 00:03:28,319

which i just had the privilege of

91

00:03:33,670 --> 00:03:30,799

touring will soon be ready to support

92

00:03:36,070 --> 00:03:33,680

our deep space exploration efforts

93

00:03:39,509 --> 00:03:36,080

the president has fought to invest close

94

00:03:42,869 --> 00:03:39,519

to one 1.4 billion dollars in nasa's

95

00:03:44,869 --> 00:03:42,879

21st century space launch complex and

96

00:03:46,710 --> 00:03:44,879

exploration ground systems

97

00:03:48,949 --> 00:03:46,720

this investment will help us upgrade

98

00:03:50,869 --> 00:03:48,959

kennedy's shuttle era facilities to

99

00:03:52,949 --> 00:03:50,879

support multiple users

100

00:03:55,509 --> 00:03:52,959

and make this a more more flexible

101

00:03:57,270 --> 00:03:55,519

launch facility for the future

102

00:03:59,350 --> 00:03:57,280

the crawler transporters that have

103

00:04:02,470 --> 00:03:59,360

carried space shuttles and apollo saturn

104

00:04:04,390 --> 00:04:02,480

v rockets to their launch pads are being

105

00:04:06,630 --> 00:04:04,400

upgraded to support the next generation

106

00:04:08,710 --> 00:04:06,640

of spacecraft and launch vehicles that

107

00:04:09,830 --> 00:04:08,720

will lift off from kennedy

108

00:04:11,509 --> 00:04:09,840

last year

109

00:04:13,030 --> 00:04:11,519

boeing announced they would be taking

110

00:04:15,190 --> 00:04:13,040

over one of our former orbiter

111

00:04:17,590 --> 00:04:15,200

processing facilities to work on their

112

00:04:20,550 --> 00:04:17,600

crew capsule and indicated they would be

113

00:04:22,790 --> 00:04:20,560

creating 500 jobs in the process

114

00:04:24,790 --> 00:04:22,800

recently sierra nevada corporation

115

00:04:27,430 --> 00:04:24,800

successfully completed a captive carry

116

00:04:29,830 --> 00:04:27,440

test of its full-scale dream chaser

117

00:04:31,990 --> 00:04:29,840

orbital crew vehicle as well as a test

118

00:04:33,830 --> 00:04:32,000

of the vehicle's nose landing gear

119

00:04:35,270 --> 00:04:33,840

they have also announced interest in

120

00:04:37,830 --> 00:04:35,280

establishing a presence here on the

121

00:04:39,909 --> 00:04:37,840

space coast adding to the growing number

122

00:04:42,790 --> 00:04:39,919

of commercial companies who find this

123

00:04:43,990 --> 00:04:42,800

area an attractive place to do business

124

00:04:46,710 --> 00:04:44,000

in may

125

00:04:48,950 --> 00:04:46,720

spacex became the first private company

126
00:04:51,110 --> 00:04:48,960
to reach the international space station

127
00:04:54,150 --> 00:04:51,120
and return its dragon capsule safely

128
00:04:56,550 --> 00:04:54,160
back to earth launching right here from

129
00:04:58,950 --> 00:04:56,560
florida and the space coast our

130
00:05:02,070 --> 00:04:58,960
commercial crew and cargo efforts are

131
00:05:05,270 --> 00:05:02,080
based on a simple but powerful principle

132
00:05:07,510 --> 00:05:05,280
by investing in american companies

133
00:05:09,430 --> 00:05:07,520
and american ingenuity

134
00:05:12,550 --> 00:05:09,440
we're spurring free market competition

135
00:05:14,950 --> 00:05:12,560
to give taxpayers more bang for the buck

136
00:05:17,430 --> 00:05:14,960
while enabling nasa to do what we do

137
00:05:19,270 --> 00:05:17,440
best reach for the heavens

138
00:05:21,029 --> 00:05:19,280

we're also making important progress

139

00:05:23,510 --> 00:05:21,039

toward ending the outsourcing of

140

00:05:25,510 --> 00:05:23,520

american aerospace jobs and bringing

141

00:05:28,310 --> 00:05:25,520

them right back here to florida

142

00:05:29,990 --> 00:05:28,320

and other states all across this country

143

00:05:32,390 --> 00:05:30,000

our commercial crew program has been

144

00:05:34,870 --> 00:05:32,400

carefully managed in stages

145

00:05:36,710 --> 00:05:34,880

in 2010 you may remember during the

146

00:05:39,110 --> 00:05:36,720

first phase of our commercial crew

147

00:05:41,510 --> 00:05:39,120

initiatives nasa entered into funded

148

00:05:43,830 --> 00:05:41,520

space act agreements with five companies

149

00:05:45,510 --> 00:05:43,840

to aid in the innovative innovation and

150

00:05:48,390 --> 00:05:45,520

development of space transportation

151
00:05:51,430 --> 00:05:48,400
subsystem designs and concepts

152
00:05:53,590 --> 00:05:51,440
those companies were blue origin boeing

153
00:05:55,830 --> 00:05:53,600
paragon space development corporation

154
00:05:57,270 --> 00:05:55,840
sierra nevada corporation and united

155
00:06:00,309 --> 00:05:57,280
launch alliance

156
00:06:02,150 --> 00:06:00,319
in 2011 during the second phase we

157
00:06:03,830 --> 00:06:02,160
entered into funded space act agreements

158
00:06:05,909 --> 00:06:03,840
with four companies for the continued

159
00:06:08,870 --> 00:06:05,919
development of commercial rockets and

160
00:06:10,629 --> 00:06:08,880
spacecraft those companies were blue or

161
00:06:13,110 --> 00:06:10,639
are blue origin

162
00:06:16,150 --> 00:06:13,120
boeing sierra nevada and space

163
00:06:18,629 --> 00:06:16,160

exploration technologies or spacex

164

00:06:20,390 --> 00:06:18,639

today we're announcing another critical

165

00:06:23,350 --> 00:06:20,400

step toward launching our astronauts

166

00:06:25,029 --> 00:06:23,360

from u.s soil on space systems built by

167

00:06:26,870 --> 00:06:25,039

american companies

168

00:06:29,749 --> 00:06:26,880

we've selected three companies to

169

00:06:32,469 --> 00:06:29,759

develop crew transportation capabilities

170

00:06:34,469 --> 00:06:32,479

as a fully integrated system and keep us

171

00:06:36,950 --> 00:06:34,479

on track to end the outsourcing of our

172

00:06:39,909 --> 00:06:36,960

human space flight program

173

00:06:42,309 --> 00:06:39,919

these companies are

174

00:06:44,790 --> 00:06:42,319

sierra nevada corporation

175

00:06:46,390 --> 00:06:44,800

space exploration technologies and the

176

00:06:48,710 --> 00:06:46,400

boeing company

177

00:06:51,510 --> 00:06:48,720

this is a diverse and dynamic mix of

178

00:06:53,350 --> 00:06:51,520

companies each with unique experiences

179

00:06:55,189 --> 00:06:53,360

and proven track records in the

180

00:06:57,029 --> 00:06:55,199

aerospace industry

181

00:07:00,230 --> 00:06:57,039

by keeping these three companies in the

182

00:07:03,029 --> 00:07:00,240

mix we not only ensure competition which

183

00:07:05,110 --> 00:07:03,039

is good for the taxpayers but we're also

184

00:07:07,110 --> 00:07:05,120

guaranteeing that we never find

185

00:07:08,150 --> 00:07:07,120

ourselves in the situation we're in

186

00:07:10,309 --> 00:07:08,160

today

187

00:07:11,909 --> 00:07:10,319

dependent on a sole provider to get our

188

00:07:14,550 --> 00:07:11,919

crews to space

189

00:07:17,430 --> 00:07:14,560

for the next 21 months these partners

190

00:07:19,270 --> 00:07:17,440

will perform tests and complete designs

191

00:07:21,749 --> 00:07:19,280

through this initiative nasa will help

192

00:07:23,670 --> 00:07:21,759

the private sector design and develop

193

00:07:25,029 --> 00:07:23,680

the human space flight capability that

194

00:07:27,589 --> 00:07:25,039

could ultimately lead to the

195

00:07:29,909 --> 00:07:27,599

availability of human space flight

196

00:07:31,909 --> 00:07:29,919

services for both government and

197

00:07:33,909 --> 00:07:31,919

commercial customers

198

00:07:36,230 --> 00:07:33,919

we'll also help support the creation of

199

00:07:38,469 --> 00:07:36,240

high-paying technology jobs here in

200

00:07:40,469 --> 00:07:38,479

florida and across the country

201
00:07:42,870 --> 00:07:40,479
the ultimate goal of our commercial crew

202
00:07:45,510 --> 00:07:42,880
space program is to bring human space

203
00:07:48,710 --> 00:07:45,520
flight launches right back here to

204
00:07:50,550 --> 00:07:48,720
american soil and in the outsourcing of

205
00:07:52,629 --> 00:07:50,560
these important jobs

206
00:07:53,990 --> 00:07:52,639
our u.s industry partners will help us

207
00:07:56,950 --> 00:07:54,000
achieve safe

208
00:07:59,350 --> 00:07:56,960
reliable and cost-effective access to

209
00:08:00,950 --> 00:07:59,360
and from the international space station

210
00:08:02,070 --> 00:08:00,960
and other destinations of low earth

211
00:08:04,309 --> 00:08:02,080
orbit

212
00:08:06,309 --> 00:08:04,319
before nasa begins using a commercially

213
00:08:08,710 --> 00:08:06,319

developed system to transport our

214

00:08:11,110 --> 00:08:08,720

astronauts to and from the iss

215

00:08:13,189 --> 00:08:11,120

the system must be certified as meeting

216

00:08:15,510 --> 00:08:13,199

all of nasa's safety requirements

217

00:08:17,510 --> 00:08:15,520

through an entire mission cycle

218

00:08:19,830 --> 00:08:17,520

certification of commercial systems for

219

00:08:22,629 --> 00:08:19,840

nasa transportation missions will be

220

00:08:24,790 --> 00:08:22,639

pursued in a future separate phase under

221

00:08:27,029 --> 00:08:24,800

the commercial crew program

222

00:08:29,510 --> 00:08:27,039

the innovative spacecraft and rockets

223

00:08:32,790 --> 00:08:29,520

proposed by nasa's industry partners

224

00:08:35,029 --> 00:08:32,800

will also spur technological innovation

225

00:08:36,790 --> 00:08:35,039

and serve as engines of economic growth

226

00:08:37,750 --> 00:08:36,800

here in florida and throughout the

227

00:08:39,110 --> 00:08:37,760

nation

228

00:08:41,430 --> 00:08:39,120

now

229

00:08:44,149 --> 00:08:41,440

let me ask our commercial crew program

230

00:08:45,910 --> 00:08:44,159

manager ed mango to say a few words and

231

00:08:47,350 --> 00:08:45,920

give you a little bit more detail than i

232

00:08:51,350 --> 00:08:47,360

gave you

233

00:08:54,870 --> 00:08:53,190

see thank you mr bolden

234

00:08:55,670 --> 00:08:54,880

see first of all i want to say uh thank

235

00:08:58,870 --> 00:08:55,680

you

236

00:09:00,470 --> 00:08:58,880

my team and i are extremely excited and

237

00:09:02,310 --> 00:09:00,480

ready to go do this

238

00:09:04,790 --> 00:09:02,320

we're ready to continue our partnership

239

00:09:07,350 --> 00:09:04,800

with industry and between industry nasa

240

00:09:09,990 --> 00:09:07,360

and in new and innovative ways

241

00:09:12,630 --> 00:09:10,000

i am very confident in the ability and

242

00:09:14,790 --> 00:09:12,640

capability of our three partners under

243

00:09:17,190 --> 00:09:14,800

icap i believe that we can make great

244

00:09:18,630 --> 00:09:17,200

progress with these three partners

245

00:09:20,470 --> 00:09:18,640

what is icap

246

00:09:22,550 --> 00:09:20,480

icap stands for commercial crew

247

00:09:24,630 --> 00:09:22,560

integrated capability

248

00:09:27,269 --> 00:09:24,640

it is a capability that includes the

249

00:09:28,550 --> 00:09:27,279

spacecraft the launch vehicle the ground

250

00:09:31,590 --> 00:09:28,560

operations as well as the flight

251

00:09:33,110 --> 00:09:31,600

operations it's an entire mission cycle

252

00:09:35,430 --> 00:09:33,120

and doing the design work for that

253

00:09:38,070 --> 00:09:35,440

entire mission cycle so we call it

254

00:09:40,630 --> 00:09:38,080

ccicap for short

255

00:09:41,910 --> 00:09:40,640

icap is also being run under a space act

256

00:09:43,030 --> 00:09:41,920

agreement

257

00:09:45,030 --> 00:09:43,040

approach

258

00:09:47,750 --> 00:09:45,040

that nasa has been able to employ and

259

00:09:49,110 --> 00:09:47,760

what that means to the taxpayer is nasa

260

00:09:51,110 --> 00:09:49,120

is not paying 100

261

00:09:53,190 --> 00:09:51,120

of this development cost we are sharing

262

00:09:55,509 --> 00:09:53,200

these costs through a partnership

263

00:09:57,190 --> 00:09:55,519

through nasa and the individual partners

264

00:09:59,190 --> 00:09:57,200

so they are also bringing money to the

265

00:10:01,030 --> 00:09:59,200

table

266

00:10:02,949 --> 00:10:01,040

this is a way of leading this is a way

267

00:10:05,030 --> 00:10:02,959

of allowing the united states to lead in

268

00:10:07,030 --> 00:10:05,040

the development of new space systems

269

00:10:09,269 --> 00:10:07,040

that are human capable and then taking

270

00:10:13,030 --> 00:10:09,279

those systems for commercial purposes as

271

00:10:16,389 --> 00:10:13,040

well as for nasa purposes in the future

272

00:10:19,190 --> 00:10:16,399

as charlie as mr bolton said there are

273

00:10:21,750 --> 00:10:19,200

there are three uh three awards um the

274

00:10:24,230 --> 00:10:21,760

first is to sierra nevada corporation

275

00:10:25,990 --> 00:10:24,240

sierra nevada is going to be getting 212

276

00:10:28,470 --> 00:10:26,000

million dollars if they meet all their

277

00:10:30,790 --> 00:10:28,480

milestones and on an saa approach

278

00:10:32,550 --> 00:10:30,800

milestones are paid once performance is

279

00:10:34,470 --> 00:10:32,560

done so it's a paid for performance kind

280

00:10:36,710 --> 00:10:34,480

of approach it's again very good for the

281

00:10:38,150 --> 00:10:36,720

taxpayers and very good for nasa if they

282

00:10:40,870 --> 00:10:38,160

meet all the milestones they can get up

283

00:10:42,790 --> 00:10:40,880

to 212.5 million dollars they've been a

284

00:10:43,829 --> 00:10:42,800

very strong partner under csidev2 and

285

00:10:45,350 --> 00:10:43,839

they've been a partner during that

286

00:10:46,790 --> 00:10:45,360

period of time in which they have

287

00:10:49,350 --> 00:10:46,800

completed their preliminary design

288

00:10:51,670 --> 00:10:49,360

review and now they're working on their

289

00:10:53,590 --> 00:10:51,680

engineering test article which is a test

290

00:10:54,790 --> 00:10:53,600

article of their dream chaser full scale

291

00:10:56,870 --> 00:10:54,800

they're going to use for approach and

292

00:10:59,990 --> 00:10:56,880

landing tests we are very excited to

293

00:11:03,509 --> 00:11:00,000

continue our work with sierra nevada

294

00:11:06,230 --> 00:11:03,519

our second partner is spacex spacex will

295

00:11:08,069 --> 00:11:06,240

be receiving 440 million dollars as they

296

00:11:11,430 --> 00:11:08,079

complete their milestones throughout the

297

00:11:13,990 --> 00:11:11,440

base period of ccdev of icap

298

00:11:15,509 --> 00:11:14,000

as you know spacex is a very progressive

299

00:11:17,350 --> 00:11:15,519

partner we like the way they think the

300

00:11:19,190 --> 00:11:17,360

way they think differently and it's

301
00:11:21,269 --> 00:11:19,200
encouraging my team to think differently

302
00:11:23,750 --> 00:11:21,279
as we work with them they too have been

303
00:11:25,750 --> 00:11:23,760
evolving through ccdev2 they take their

304
00:11:27,750 --> 00:11:25,760
design for cargo which they flew just a

305
00:11:29,829 --> 00:11:27,760
couple months ago and taken that to

306
00:11:31,269 --> 00:11:29,839
involve it into a crude capability so

307
00:11:33,590 --> 00:11:31,279
they're working on their propulsion

308
00:11:35,590 --> 00:11:33,600
systems as well as working on their crew

309
00:11:37,910 --> 00:11:35,600
interface systems and that has gone very

310
00:11:39,350 --> 00:11:37,920
well over the last year or so and we

311
00:11:40,630 --> 00:11:39,360
want to continue to work with them very

312
00:11:42,470 --> 00:11:40,640
closely

313
00:11:44,870 --> 00:11:42,480

the third partner is boeing

314

00:11:46,470 --> 00:11:44,880

boeing will receive 460 million dollars

315

00:11:47,590 --> 00:11:46,480

over the course of all the milestones if

316

00:11:49,430 --> 00:11:47,600

they meet them

317

00:11:51,269 --> 00:11:49,440

they also are very sound partner through

318

00:11:53,190 --> 00:11:51,279

ccdev2

319

00:11:55,350 --> 00:11:53,200

during ccdf2 they completed a

320

00:11:58,310 --> 00:11:55,360

preliminary design review

321

00:12:00,629 --> 00:11:58,320

for their spacecraft and also completed

322

00:12:03,110 --> 00:12:00,639

a software review preliminary design

323

00:12:04,870 --> 00:12:03,120

review for their software again a very

324

00:12:07,350 --> 00:12:04,880

uh hard challenge and they met those

325

00:12:09,110 --> 00:12:07,360

challenges under cease-to-dev2 they also

326
00:12:11,509 --> 00:12:09,120
are developing their propulsion system

327
00:12:13,670 --> 00:12:11,519
for their abort and their landing system

328
00:12:15,509 --> 00:12:13,680
when they land on the ground

329
00:12:17,430 --> 00:12:15,519
all three of our ccds all three of these

330
00:12:19,190 --> 00:12:17,440
were seasidv2 partners and we look

331
00:12:20,790 --> 00:12:19,200
forward to working with them again in

332
00:12:22,389 --> 00:12:20,800
icap

333
00:12:25,030 --> 00:12:22,399
you might ask what does nasa bring to

334
00:12:27,430 --> 00:12:25,040
the table in this commercial

335
00:12:29,670 --> 00:12:27,440
partnership well besides the taxpayer

336
00:12:31,829 --> 00:12:29,680
money that we will diligently manage we

337
00:12:33,990 --> 00:12:31,839
also bring a team a team of engineers we

338
00:12:35,750 --> 00:12:34,000

call it a partner integration team or

339

00:12:37,350 --> 00:12:35,760

for short a pit crew

340

00:12:39,350 --> 00:12:37,360

this particular pit crew we have for

341

00:12:41,670 --> 00:12:39,360

each team this crew is made up of

342

00:12:43,509 --> 00:12:41,680

engineers a lot from here right here at

343

00:12:45,030 --> 00:12:43,519

the kennedy space center and also from

344

00:12:46,710 --> 00:12:45,040

the johnson space center and many of the

345

00:12:49,269 --> 00:12:46,720

other nasa centers they're nasa

346

00:12:51,350 --> 00:12:49,279

engineers they're nasa safety engineers

347

00:12:53,110 --> 00:12:51,360

they're nasa operations folks both in

348

00:12:55,030 --> 00:12:53,120

the flight regime as well as in the

349

00:12:56,629 --> 00:12:55,040

ground regime we put all these together

350

00:12:58,550 --> 00:12:56,639

in this pit crew they're going to work

351

00:13:00,470 --> 00:12:58,560

very closely with these partners we

352

00:13:02,389 --> 00:13:00,480

bring our expertise our 50 years of

353

00:13:04,790 --> 00:13:02,399

human space flight experience to the

354

00:13:06,230 --> 00:13:04,800

table not to tell the partner what to do

355

00:13:07,910 --> 00:13:06,240

but to tell them what we have learned

356

00:13:09,910 --> 00:13:07,920

over our 50 years and to help them in

357

00:13:12,310 --> 00:13:09,920

their design and help them in their risk

358

00:13:14,550 --> 00:13:12,320

management trade systems

359

00:13:16,790 --> 00:13:14,560

my team is highly motivated to go do

360

00:13:19,670 --> 00:13:16,800

this and you need a team that that i was

361

00:13:21,750 --> 00:13:19,680

able to hand pick so that these folks

362

00:13:24,230 --> 00:13:21,760

that are on these pit crews can work in

363

00:13:25,509 --> 00:13:24,240

a very innovative way can do things

364

00:13:27,590 --> 00:13:25,519

differently than what we've done in the

365

00:13:29,990 --> 00:13:27,600

past and still try to make it as safe as

366

00:13:31,910 --> 00:13:30,000

possible and meet our requirements in

367

00:13:34,389 --> 00:13:31,920

the long run and meet the company's

368

00:13:36,389 --> 00:13:34,399

requirements in the short run

369

00:13:38,550 --> 00:13:36,399

a bit later this morning about 10 45

370

00:13:40,150 --> 00:13:38,560

eastern there will be a teleconference

371

00:13:42,310 --> 00:13:40,160

in which we'll we'll talk a bit more

372

00:13:44,629 --> 00:13:42,320

about the details of the agreements and

373

00:13:46,389 --> 00:13:44,639

our partners at that time

374

00:13:47,670 --> 00:13:46,399

you know before i end i'd like to take a

375

00:13:49,430 --> 00:13:47,680

step back

376

00:13:51,509 --> 00:13:49,440

and think about another time in history

377

00:13:55,430 --> 00:13:51,519

when the world changed

378

00:13:57,110 --> 00:13:55,440

that was back in 1927 in 1927 the only

379

00:13:59,189 --> 00:13:57,120

way to get across the atlantic ocean was

380

00:14:01,590 --> 00:13:59,199

through ocean liners

381

00:14:03,030 --> 00:14:01,600

charles lindbergh took the courage to

382

00:14:04,949 --> 00:14:03,040

figure out a way to fly across the

383

00:14:07,590 --> 00:14:04,959

atlantic ocean non-stop

384

00:14:09,509 --> 00:14:07,600

and that was as many many people call it

385

00:14:12,069 --> 00:14:09,519

a lindbergh moment because it made the

386

00:14:13,509 --> 00:14:12,079

world smaller it made the world capable

387

00:14:15,509 --> 00:14:13,519

of doing new and different and

388

00:14:17,030 --> 00:14:15,519

innovative things

389

00:14:19,750 --> 00:14:17,040

and there's been many lindbergh moments

390

00:14:21,910 --> 00:14:19,760

since that time but today the commercial

391

00:14:24,310 --> 00:14:21,920

crew program and our industry partners

392

00:14:26,150 --> 00:14:24,320

are on a threshold of setting a new set

393

00:14:28,069 --> 00:14:26,160

of lindbergh moments

394

00:14:30,310 --> 00:14:28,079

not just across the atlantic but

395

00:14:32,949 --> 00:14:30,320

actually to make the world smaller the

396

00:14:34,230 --> 00:14:32,959

planet smaller and to help commercial

397

00:14:35,990 --> 00:14:34,240

industry

398

00:14:37,189 --> 00:14:36,000

thank you

399

00:14:41,189 --> 00:14:37,199

i think we're now opening up for

400

00:14:45,269 --> 00:14:43,189

good morning james dean from florida

401
00:14:46,389 --> 00:14:45,279
today possibly for for mr mango just

402
00:14:48,310 --> 00:14:46,399
wondering if you could discuss a little

403
00:14:50,389 --> 00:14:48,320
bit more um

404
00:14:52,550 --> 00:14:50,399
why this combination of three ultimately

405
00:14:54,150 --> 00:14:52,560
uh was selected in terms of it giving

406
00:14:55,750 --> 00:14:54,160
you a diversity of different type of

407
00:14:57,910 --> 00:14:55,760
types of

408
00:15:00,949 --> 00:14:57,920
spacecraft a couple launch vehicles of

409
00:15:04,069 --> 00:15:00,959
course also how many proposals did you

410
00:15:07,030 --> 00:15:05,030
let's see

411
00:15:08,230 --> 00:15:07,040
nasa uses a very strict process for

412
00:15:09,430 --> 00:15:08,240
procurement

413
00:15:11,110 --> 00:15:09,440

and so

414

00:15:12,949 --> 00:15:11,120

in that process

415

00:15:14,550 --> 00:15:12,959

there's many proposals that come in that

416

00:15:16,230 --> 00:15:14,560

are that are evaluated in this

417

00:15:18,069 --> 00:15:16,240

particular case and you'll hear a lot

418

00:15:19,750 --> 00:15:18,079

more about this in the telecon so you

419

00:15:21,030 --> 00:15:19,760

might want to i encourage you to ask the

420

00:15:23,910 --> 00:15:21,040

question again

421

00:15:26,550 --> 00:15:23,920

but the portfolio that was selected as

422

00:15:28,470 --> 00:15:26,560

you said is really all about diversity

423

00:15:29,990 --> 00:15:28,480

diversity of launch vehicles diversity

424

00:15:31,910 --> 00:15:30,000

of spacecraft

425

00:15:33,749 --> 00:15:31,920

and an ability to actually move through

426
00:15:35,590 --> 00:15:33,759
these milestones with high confidence

427
00:15:37,910 --> 00:15:35,600
that we can meet those milestones that's

428
00:15:39,590 --> 00:15:37,920
how i you know as a program we don't

429
00:15:41,910 --> 00:15:39,600
make the selections we implement the

430
00:15:44,790 --> 00:15:41,920
selections when i look at this selection

431
00:15:47,670 --> 00:15:44,800
base i look at it as a capability of

432
00:15:49,590 --> 00:15:47,680
diversity and therefore we will not only

433
00:15:51,350 --> 00:15:49,600
have diversity in systems but also

434
00:15:55,350 --> 00:15:51,360
redundancy and competition as we move

435
00:15:58,949 --> 00:15:57,030
good morning julian lee with america

436
00:16:01,990 --> 00:15:58,959
space uh this one's for charlie i

437
00:16:04,310 --> 00:16:02,000
believe uh during the cc dev2 blue

438
00:16:07,590 --> 00:16:04,320

origin was awarded 22 million

439

00:16:09,110 --> 00:16:07,600

uh did they uh submit a program for ccip

440

00:16:11,189 --> 00:16:09,120

and yeah i'm going to let you ask that

441

00:16:13,350 --> 00:16:11,199

question in the next brief i

442

00:16:15,430 --> 00:16:13,360

and i will tell you i was not privy to

443

00:16:16,949 --> 00:16:15,440

know how many companies submitted who

444

00:16:18,470 --> 00:16:16,959

submitted and i did not want to know and

445

00:16:21,030 --> 00:16:18,480

i think you know when you talk about the

446

00:16:22,150 --> 00:16:21,040

integrity of the process

447

00:16:24,150 --> 00:16:22,160

you know i was briefed by bill

448

00:16:26,069 --> 00:16:24,160

gerstenmaier day before yesterday on

449

00:16:27,749 --> 00:16:26,079

what was going to happen i knew what the

450

00:16:30,310 --> 00:16:27,759

process was because we had gone over

451
00:16:32,710 --> 00:16:30,320
that over and over and over uh so you

452
00:16:34,790 --> 00:16:32,720
know our the office of general counsel

453
00:16:37,670 --> 00:16:34,800
our procurement office everybody was

454
00:16:39,670 --> 00:16:37,680
involved in this so i don't know uh you

455
00:16:40,949 --> 00:16:39,680
know whether they submitted or not to be

456
00:16:44,150 --> 00:16:40,959
quite honest i do know who the three

457
00:16:45,590 --> 00:16:44,160
winners were so uh uh know that okay but

458
00:16:49,990 --> 00:16:45,600
i would ask bill gerstenmaier that

459
00:16:53,189 --> 00:16:51,990
yes sir uh chris haber with tara sang

460
00:16:55,590 --> 00:16:53,199
the press

461
00:17:03,430 --> 00:16:58,550
are you going to uh is sierra nevada

462
00:17:06,710 --> 00:17:04,949
i'm going to let bob address it because

463
00:17:08,309 --> 00:17:06,720

he talks to people all the time actually

464

00:17:10,150 --> 00:17:08,319

uh we have a space act agreement with

465

00:17:11,909 --> 00:17:10,160

sierra nevada and eventually they do

466

00:17:14,789 --> 00:17:11,919

plan to use our facilities we're working

467

00:17:16,710 --> 00:17:14,799

with them on what'll will be when uh not

468

00:17:19,510 --> 00:17:16,720

too long ago uh

469

00:17:21,029 --> 00:17:19,520

sierra nevada was here and they had a uh

470

00:17:23,270 --> 00:17:21,039

jobs conference if you will and we're

471

00:17:25,429 --> 00:17:23,280

doing hiring uh from the excellent

472

00:17:28,789 --> 00:17:25,439

workforce that we have here at the cape

473

00:17:30,230 --> 00:17:28,799

so uh it's my great hope that yes in the

474

00:17:32,630 --> 00:17:30,240

future if they move forward and

475

00:17:33,909 --> 00:17:32,640

ultimately are selected to fly crews to

476

00:17:36,549 --> 00:17:33,919

the international space station they'll

477

00:17:39,110 --> 00:17:36,559

be doing operations here at the cape

478

00:17:41,190 --> 00:17:39,120

and if i could follow that up

479

00:17:44,070 --> 00:17:41,200

do you know about how many jobs are

480

00:17:47,110 --> 00:17:44,080

being created here in florida by them

481

00:17:48,789 --> 00:17:47,120

and if they're using uh any of the

482

00:17:50,230 --> 00:17:48,799

retired

483

00:17:51,990 --> 00:17:50,240

shuttle force

484

00:17:56,070 --> 00:17:52,000

i don't have that number

485

00:17:58,870 --> 00:17:57,750

colonel cabana just just asking a

486

00:18:00,470 --> 00:17:58,880

similar question a little bit more

487

00:18:02,150 --> 00:18:00,480

broadly we're just over a year

488

00:18:04,390 --> 00:18:02,160

past the last shuttle flight

489

00:18:07,909 --> 00:18:04,400

um could you just address you know where

490

00:18:09,909 --> 00:18:07,919

ksc as a center stands now um and how

491

00:18:11,669 --> 00:18:09,919

these announcements might impact the

492

00:18:13,830 --> 00:18:11,679

local workforce and sort of the center's

493

00:18:15,909 --> 00:18:13,840

progression in its transition absolutely

494

00:18:18,230 --> 00:18:15,919

james uh when i look back on where we

495

00:18:20,310 --> 00:18:18,240

were a year ago and where we are now we

496

00:18:22,390 --> 00:18:20,320

have just made tremendous progress i

497

00:18:24,310 --> 00:18:22,400

wish i could get everybody out to see

498

00:18:26,310 --> 00:18:24,320

all the changes that are happening here

499

00:18:27,990 --> 00:18:26,320

at the kennedy space center in a lot of

500

00:18:30,070 --> 00:18:28,000

areas that you know you can't even see

501
00:18:34,230 --> 00:18:30,080
them all uh they're down in the balls of

502
00:18:36,789 --> 00:18:34,240
uh the pad uh within the mcc

503
00:18:39,029 --> 00:18:36,799
launch control center it's everywhere

504
00:18:41,350 --> 00:18:39,039
and uh you know the team i think we

505
00:18:43,430 --> 00:18:41,360
really have turned a corner we're

506
00:18:45,350 --> 00:18:43,440
reaching stability and we're looking to

507
00:18:48,390 --> 00:18:45,360
hire as we move forward

508
00:18:51,510 --> 00:18:48,400
having the orion vehicle here in the onc

509
00:18:53,669 --> 00:18:51,520
high bay now being built for its first

510
00:18:55,190 --> 00:18:53,679
flight in 2014 i mean this is the first

511
00:18:56,789 --> 00:18:55,200
time we've built

512
00:18:58,870 --> 00:18:56,799
human spacecraft here at the kennedy

513
00:19:01,510 --> 00:18:58,880

space center in excellent partnership

514

00:19:03,590 --> 00:19:01,520

with the state of florida

515

00:19:04,950 --> 00:19:03,600

and that's outstanding the progress

516

00:19:06,950 --> 00:19:04,960

today has been made on the launch

517

00:19:08,870 --> 00:19:06,960

facilities out at the pad

518

00:19:11,669 --> 00:19:08,880

in the vab we're starting work there now

519

00:19:13,350 --> 00:19:11,679

the transporter

520

00:19:15,669 --> 00:19:13,360

crawler transporter number two is being

521

00:19:18,070 --> 00:19:15,679

totally refurbished to handle a heavier

522

00:19:20,150 --> 00:19:18,080

weight and to have another 20-year life

523

00:19:21,029 --> 00:19:20,160

on it and the team's doing a great job

524

00:19:23,510 --> 00:19:21,039

there

525

00:19:25,270 --> 00:19:23,520

it's just multiple projects like this

526

00:19:27,270 --> 00:19:25,280

and i think having

527

00:19:28,630 --> 00:19:27,280

getting to this next step in commercial

528

00:19:30,150 --> 00:19:28,640

crew i mean

529

00:19:31,990 --> 00:19:30,160

these two programs i've said it before

530

00:19:34,789 --> 00:19:32,000

i'll say it again they're not mutually

531

00:19:36,549 --> 00:19:34,799

exclusive they're extremely compatible

532

00:19:39,350 --> 00:19:36,559

having a commercial capability along

533

00:19:40,950 --> 00:19:39,360

with nasa's exploration capability this

534

00:19:44,310 --> 00:19:40,960

is our future and we really do want to

535

00:19:45,990 --> 00:19:44,320

transform ksc into that 21st century

536

00:19:47,990 --> 00:19:46,000

launch complex of the future we want to

537

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

take what was science fiction and make

538

00:19:53,190 --> 00:19:49,440

it fact and we're moving to make that

539

00:19:57,350 --> 00:19:54,950

uh i think possibly again for mr mango

540

00:19:59,750 --> 00:19:57,360

can you just explain a little bit the uh

541

00:20:02,950 --> 00:19:59,760

the half award um will that company

542

00:20:05,510 --> 00:20:02,960

accomplish half as much or did they

543

00:20:08,149 --> 00:20:05,520

benefit from uh sharing a launch vehicle

544

00:20:09,430 --> 00:20:08,159

with one of the other um competitors or

545

00:20:12,230 --> 00:20:09,440

or you know what is the difference

546

00:20:14,070 --> 00:20:12,240

between a full and half award

547

00:20:15,750 --> 00:20:14,080

uh again i would ask you to ask that

548

00:20:18,549 --> 00:20:15,760

question in the next briefing because

549

00:20:20,789 --> 00:20:18,559

you'll see a lot more of the details

550

00:20:23,750 --> 00:20:20,799

i guess my quick answer is no one has a

551

00:20:25,350 --> 00:20:23,760

full award or a half award we negotiated

552

00:20:27,270 --> 00:20:25,360

with these partners how much work we can

553

00:20:29,190 --> 00:20:27,280

get done in 21 months that seemed

554

00:20:31,669 --> 00:20:29,200

reasonable to us and fit into an overall

555

00:20:38,789 --> 00:20:31,679

budget profile so that's how we figured

556

00:20:42,149 --> 00:20:40,230

okay there's no more questions that

557

00:20:43,350 --> 00:20:42,159

concludes our briefing thank you

558

00:20:44,950 --> 00:20:43,360

thank you all very much thanks for