



**WHAT IS THE RS-25 ENGINE?**

**Scale:**  
1.5 meters tall  
2.8 meters wide

**Weight:**  
2.8 million kg

**Thrust:**  
2.1 million N

**Efficiency:**  
45%

**Cost:**  
\$11 million

**Manufacturer:**  
Boeing

**Used on:**  
Space Shuttle, Orion

**Fun Fact:**  
The RS-25 engine is the most powerful liquid-fueled engine in the world.

... OF ENGINE

1  
00:00:06,506 --> 00:00:10,777  
>>> FIVE, FOUR, THREE, TWO, ONE,

2  
00:00:10,844 --> 00:00:11,511  
ZERO.  
LIFT OFF.

3  
00:00:11,511 --> 00:00:12,679  
WE HAVE A LIFT OFF.

4  
00:02:13,600 --> 00:00:14,614  
■

5  
00:02:13,666 --> 00:02:23,009  
[ APPLAUSE ]

6  
00:02:23,076 --> 00:02:24,677  
>>> WOW, IF THAT DOESN'T GET YOU

7  
00:02:24,744 --> 00:02:26,212  
EXCITED ABOUT NASA AND THE

8  
00:02:26,279 --> 00:02:27,714  
FUTURE OF EXPLORATION I DON'T

9  
00:02:27,780 --> 00:02:28,882  
THINK ANYTHING WILL.

10  
00:02:28,948 --> 00:02:30,717  
HELLO, EVERYONE, AND WELCOME TO

11  
00:02:30,783 --> 00:02:32,352  
NASA'S MARSHALL SPACE FLIGHT

12  
00:02:32,418 --> 00:02:34,287  
CENTER, LOCATED IN ALABAMA'S

13

00:02:34,354 --> 00:02:35,188  
ROCKET CITY.

14  
00:02:35,255 --> 00:02:37,190  
I AM TODD MAY.

15  
00:02:37,257 --> 00:02:39,826  
THE DIRECTOR OF MARSHALL SPACE

16  
00:02:39,893 --> 00:02:41,528  
FLIGHT CENTER AND ON BEHALF OF

17  
00:02:41,594 --> 00:02:42,629  
OUR TEAM I THANK YOU FOR BEING

18  
00:02:42,695 --> 00:02:43,696  
HERE TODAY.

19  
00:02:43,763 --> 00:02:44,697  
WHETHER YOU ARE HERE IN PERSON

20  
00:02:44,764 --> 00:02:47,267  
OR WATCHING ONLINE, IT'S AN

21  
00:02:47,333 --> 00:02:48,835  
HONOR TO HOST THIS YEAR'S STATE

22  
00:02:48,902 --> 00:02:49,969  
OF THE NASA ADDRESS RIGHT HERE

23  
00:02:50,036 --> 00:02:52,205  
IN FRONT OF ONE OF MARSHALL'S

24  
00:02:52,272 --> 00:02:53,072  
FACILITY.

25  
00:02:53,139 --> 00:02:55,909  
WHERE WE ARE APPLYING INSULATION

26  
00:02:55,975 --> 00:02:57,277  
TO FLIGHT HARDWARE HERE TODAY.

27  
00:02:57,343 --> 00:02:58,478  
THIS BUILDING IS OUR NATIONAL

28  
00:02:58,545 --> 00:03:00,446  
CENTER FOR ADVANCE

29  
00:03:00,513 --> 00:03:01,013  
MANUFACTURING.

30  
00:03:01,014 --> 00:03:03,516  
DOWN THE HALL, WE DO AMAZING

31  
00:03:03,583 --> 00:03:05,552  
ADVANCE MANUFACTURING 3D

32  
00:03:05,618 --> 00:03:06,986  
PRINTING AND TECHNOLOGIES FOR

33  
00:03:07,053 --> 00:03:09,188  
NEW COMPOSITE MATERIALS AND

34  
00:03:09,255 --> 00:03:09,755  
PROCESSES.

35  
00:03:09,756 --> 00:03:11,925  
OR AS WE LIKE TO CALL IT, WILLY

36  
00:03:11,991 --> 00:03:13,693  
WONKA'S ROCKET FACTORY.

37  
00:03:13,760 --> 00:03:15,495  
THIS IS A GREAT OPPORTUNITY TO

38

00:03:15,562 --> 00:03:16,729  
HIGHLIGHT SOME OF THE AMAZING

39  
00:03:16,796 --> 00:03:18,031  
THINGS THAT WE ARE DOING RIGHT

40  
00:03:18,097 --> 00:03:19,699  
HERE AT MARSHALL SPACE FLIGHT

41  
00:03:19,766 --> 00:03:21,968  
CENTER AND AROUND THE AGENCY.

42  
00:03:22,035 --> 00:03:23,603  
FROM BUILDING AND TESTING

43  
00:03:23,670 --> 00:03:25,138  
AMERICA'S NEXT GENERATION

44  
00:03:25,204 --> 00:03:26,973  
ROCKET, THE SPACE LAUNCH SYSTEM,

45  
00:03:27,040 --> 00:03:29,242  
TO ADVANCING SCIENCE HERE ON

46  
00:03:29,309 --> 00:03:31,945  
EARTH, ON THE ISS AND BEYOND,

47  
00:03:32,011 --> 00:03:33,379  
MARSHALL CONTINUES TO PLAY A

48  
00:03:33,446 --> 00:03:36,549  
VITAL ROLE IN AMERICA'S SPACE

49  
00:03:36,616 --> 00:03:37,083  
PROGRAM.

50  
00:03:37,083 --> 00:03:38,384  
NOW I WOULD LIKE TO SHOW YOU A

51  
00:03:38,451 --> 00:03:40,086  
SHORT VIDEO THAT OFFERS IMAGERY

52  
00:03:40,153 --> 00:03:42,121  
OF SLS HARDWARE COMING TOGETHER

53  
00:03:42,188 --> 00:03:44,057  
ALL OVER THE COUNTRY.

54  
00:03:44,123 --> 00:03:45,658  
THE FASCINATING TECHNOLOGY WORK

55  
00:03:45,725 --> 00:03:47,493  
WE DO HERE AT MARSHALL AND THAT

56  
00:03:47,560 --> 00:03:48,895  
WE DELIVER FOR THE NATION AND

57  
00:03:48,962 --> 00:03:50,663  
THE SUPPORT WE PROVIDE TO THE

58  
00:03:50,730 --> 00:03:52,699  
INTERNATIONAL SPACE STATION

59  
00:03:52,765 --> 00:03:53,399  
24/7.

60  
00:03:53,466 --> 00:03:54,767  
IT'S JUST A GLIMPSE IN TO WHAT

61  
00:03:54,834 --> 00:03:56,502  
WE DO EACH AND EVERY DAY HERE AT

62  
00:03:56,569 --> 00:03:59,205  
MARSHALL AND AROUND THE COUNTRY.

63

00:04:55,862 --> 00:04:01,407



64

00:04:55,862 --> 00:04:57,497

>> HERE AT MARSHALL SPACE FLIGHT

65

00:04:57,563 --> 00:04:59,766

CENTER WE MAKE HUMAN SPACE

66

00:04:59,832 --> 00:05:01,234

EXPLORATION POSSIBLE.

67

00:05:04,070 --> 00:05:01,934



68

00:05:04,137 --> 00:05:12,812

[ APPLAUSE ]

69

00:05:12,879 --> 00:05:15,314

>>> IT'S PRETTY AMAZING WHAT OUR

70

00:05:15,381 --> 00:05:16,983

COMS FOLKS CAN DO WITH VIDEO.

71

00:05:17,050 --> 00:05:18,418

I WISH THEY COULD TAKE ABOUT

72

00:05:18,484 --> 00:05:19,552

20 POUNDS OFF OF ME.

73

00:05:19,619 --> 00:05:20,186

[ LAUGHTER ]

74

00:05:20,253 --> 00:05:21,554

>> THANKS GOODNESS I AM NOT

75

00:05:21,621 --> 00:05:22,722

AFRAID OF HEIGHTS EITHER.

76

00:05:22,789 --> 00:05:24,123

HEY, I HOPE THAT CLIP GOT YOU

77

00:05:24,190 --> 00:05:25,124

EXCITED ABOUT THE WORK WE ARE

78

00:05:25,191 --> 00:05:26,259

DOING HERE TODAY AND THE PLANS

79

00:05:26,325 --> 00:05:27,660

THAT WE HAVE FOR THE FUTURE AND

80

00:05:27,727 --> 00:05:28,928

THE PROMISE OF TOMORROW.

81

00:05:28,995 --> 00:05:30,863

I HAVE BEEN A PART OF MARSHALL

82

00:05:30,930 --> 00:05:32,265

SPACE FLIGHT CENTER FOR A LONG

83

00:05:32,331 --> 00:05:33,666

TIME NOW AND THE SENSE OF AWE

84

00:05:33,733 --> 00:05:35,601

FOR OUR MISSION AND THE GREATER

85

00:05:35,668 --> 00:05:37,637

PURPOSE BEHIND IT, IT REALLY

86

00:05:37,704 --> 00:05:40,973

NEVER GOES AWAY.

87

00:05:41,040 --> 00:05:42,008

THAT'S ONE OF THE FRINGE

88

00:05:42,075 --> 00:05:43,176  
BENEFITS OF WORKING IN OUR

89  
00:05:43,242 --> 00:05:44,477  
BUSINESS, WE GET REALLY EXCITED

90  
00:05:44,544 --> 00:05:45,778  
ABOUT THE WORK WE DO AND THE

91  
00:05:45,845 --> 00:05:47,847  
SENSE OF MISSION IS WHAT GETS US

92  
00:05:47,914 --> 00:05:50,416  
UP VERY EARLY EVERY DAY.

93  
00:05:50,483 --> 00:05:51,851  
AND THE MAN I AM ABOUT TO

94  
00:05:51,918 --> 00:05:53,352  
INTRODUCE TO YOU IS NO STRANGER

95  
00:05:53,419 --> 00:05:55,888  
TO MARSHALL SPACE FLIGHT CENTER

96  
00:05:55,955 --> 00:05:58,624  
EITHER, I COULD GIVE YOU A LONG

97  
00:05:58,691 --> 00:06:00,727  
BIO OF HIM, SOME OF WHICH

98  
00:06:00,793 --> 00:06:02,628  
ACTUAL -- ACTUALLY NONE OF WHICH

99  
00:06:02,695 --> 00:06:03,796  
HE WOULD WANT ME TO TELL YOU,

100  
00:06:03,863 --> 00:06:05,331  
SOME OF IT BECAUSE WE KNEW HIM

101

00:06:05,398 --> 00:06:06,299

WAY BACK WHEN.

102

00:06:06,365 --> 00:06:07,433

THE REST OF IT BECAUSE HE HAS

103

00:06:07,500 --> 00:06:09,669

THAT TRUE GIFT OF HUMILITY.

104

00:06:09,736 --> 00:06:11,170

AND IF YOU DON'T KNOW WHO HE IS,

105

00:06:11,237 --> 00:06:12,739

THERE IS A PORTRAIT OF HIM

106

00:06:12,805 --> 00:06:14,907

HANGING OVER AT MORRIS

107

00:06:14,974 --> 00:06:15,474

AUDITORIUM.

108

00:06:15,475 --> 00:06:18,945

SO I WANT TO JUST SAY THANKS

109

00:06:19,011 --> 00:06:20,446

AGAIN FOR BEING HERE TODAY,

110

00:06:20,513 --> 00:06:23,449

WELCOME TO ROCKET CITY.

111

00:06:23,516 --> 00:06:24,817

AND WITHOUT FURTHER ADIEU, I

112

00:06:24,884 --> 00:06:27,253

WANT TO BRING UP ROBERT

113

00:06:27,320 --> 00:06:29,789

LIGHTFOOT OUR ACTING

114

00:06:29,856 --> 00:06:31,124

ADMINISTRATOR, HE IS AN AMAZING

115

00:06:31,190 --> 00:06:33,693

PERSON THAT HAS BEEN LEADING OUR

116

00:06:33,760 --> 00:06:35,495

AGENCY NOW SINCE THE DEPARTURE

117

00:06:35,561 --> 00:06:38,097

OF HIS PREDECESSOR, CHARLIE

118

00:06:38,164 --> 00:06:40,466

BOLDIN.

119

00:06:40,533 --> 00:06:40,967

ROBERT.

120

00:06:40,967 --> 00:06:56,482

[ APPLAUSE ]

121

00:06:56,549 --> 00:06:57,316

>>> THANK YOU, TODD, I

122

00:06:57,383 --> 00:06:57,917

APPRECIATE THE INTRODUCTION.

123

00:06:57,984 --> 00:06:58,618

IT'S ALWAYS GOOD TO BE BACK HERE

124

00:06:58,684 --> 00:06:59,552

AT MARSHALL.

125

00:06:59,619 --> 00:07:00,853

I REALLY APPRECIATE YOUR

126

00:07:00,920 --> 00:07:02,922

LEADERSHIP OF MY CENTER.

127

00:07:02,989 --> 00:07:04,423

[ LAUGHTER ]

128

00:07:04,490 --> 00:07:05,992

>> AND THE CONTINUES ENGAGEMENT

129

00:07:06,058 --> 00:07:07,794

MY YOU AND REALLY ALL THE SENIOR

130

00:07:07,860 --> 00:07:09,228

LEADERS AT -- IN THE AGENCY THAT

131

00:07:09,295 --> 00:07:10,630

ARE OUT THERE WATCHING TODAY.

132

00:07:10,696 --> 00:07:13,332

YOU KNOW, IT'S BEEN A JOY AS

133

00:07:13,399 --> 00:07:14,534

ACTING ADMINISTRATOR HAVING SUCH

134

00:07:14,600 --> 00:07:15,868

A GREAT SENIOR LEADERSHIP TEAM

135

00:07:15,935 --> 00:07:17,069

AROUND ME TO AT THE POINT ME RUN

136

00:07:17,136 --> 00:07:17,570

THIS PLACE.

137

00:07:17,570 --> 00:07:19,138

IT'S A GREAT AGENCY TO RUN.

138

00:07:19,205 --> 00:07:22,241  
I HAVE TO ADMIT THAT THIS IS

139  
00:07:22,308 --> 00:07:24,443  
ALMOST LIKE HO HUM DAY FOR ME.

140  
00:07:24,510 --> 00:07:25,912  
THIS WEEKEND I SAW MY KIDS.

141  
00:07:25,978 --> 00:07:27,313  
THIS WAS MY FIRST KID.

142  
00:07:27,380 --> 00:07:29,982  
THIS IS ENGINE 3,001.

143  
00:07:30,049 --> 00:07:32,018  
I FEEL LIKE A BIRTHED THIS BABY

144  
00:07:32,084 --> 00:07:36,122  
BACK IN THE LATE '80s, EARLY

145  
00:07:36,189 --> 00:07:38,090  
'90s WITH LARRY LEOPARD AND A

146  
00:07:38,157 --> 00:07:39,358  
FEW PEOPLE HERE FROM MARSHALL WE

147  
00:07:39,425 --> 00:07:40,293  
WENT OUT AND FOLLOWED THIS

148  
00:07:40,359 --> 00:07:41,994  
ENGINE AND IT BECAME A GREAT

149  
00:07:42,061 --> 00:07:44,397  
TEST BED FOR US HERE AT MARSHALL

150  
00:07:44,463 --> 00:07:46,032  
AND A LOT OF US HERE CUT OUR

151

00:07:46,098 --> 00:07:47,233

TEETH TEST THIS IS ENGINE SO

152

00:07:47,300 --> 00:07:48,901

IT'S COOL TO SEE IT BACK AND SEE

153

00:07:48,968 --> 00:07:50,503

THE WHOLE SHUTTLE MAIN ENGINE

154

00:07:50,570 --> 00:07:51,971

PROGRAM BEING MORPH ED IN TO AN

155

00:07:52,038 --> 00:07:52,538

RS25.

156

00:07:52,538 --> 00:07:53,439

AND I WILL TALK ABOUT THE

157

00:07:53,506 --> 00:07:54,740

ADVANTAGES THAT GIVES US GOING

158

00:07:54,807 --> 00:07:55,208

FORWARD.

159

00:07:55,208 --> 00:07:55,875

EVERYBODY HERE IN THE ROOM AND

160

00:07:55,942 --> 00:08:01,113

THOSE OF YOU TUNED IN AROUND THE

161

00:08:01,180 --> 00:08:02,915

AGENCY, YOU THANK YOU FOR BEING

162

00:08:02,982 --> 00:08:04,150

HERE TODAY AND LISTENING IN.

163

00:08:04,217 --> 00:08:06,352  
I REMAIN TRULY AMAZED WHAT WE

164  
00:08:06,419 --> 00:08:08,387  
DOSS AS AN ACCURACY AND WHAT WE

165  
00:08:08,454 --> 00:08:09,188  
WERE ACCOMPLISH.

166  
00:08:09,255 --> 00:08:10,756  
IT'S HUMBLE TO GO LEAD THIS TEAM

167  
00:08:10,823 --> 00:08:12,391  
AND IT'S THE BEST PLACE IN WORK

168  
00:08:12,458 --> 00:08:13,426  
IN GOVERNMENT FOR THE LAST SIX

169  
00:08:13,492 --> 00:08:14,293  
YEARS, THAT'S PRETTY AWESOME,

170  
00:08:14,360 --> 00:08:15,695  
YOU GUYS, IT'S ALL BECAUSE OF

171  
00:08:15,761 --> 00:08:18,164  
YOU, NOT BECAUSE OF US A IT

172  
00:08:18,231 --> 00:08:20,833  
LEADERSHIP POSITION, IT'S

173  
00:08:20,900 --> 00:08:21,367  
FANTASTIC.

174  
00:08:21,367 --> 00:08:22,702  
TOLD I GET TO ROLL OUT THE

175  
00:08:22,768 --> 00:08:23,903  
PRESIDENT'S BUDGET.

176

00:08:23,970 --> 00:08:24,837

PLEASE TODAY PRESENT THE

177

00:08:24,904 --> 00:08:26,405

HIGHLIGHTS FOR THE 2019 BUDGE

178

00:08:26,472 --> 00:08:28,107

FEED NAS A BOTTOM LINE UP FRONT

179

00:08:28,174 --> 00:08:30,676

THE BUDGET REQUEST THIS YEAR

180

00:08:30,743 --> 00:08:34,380

IS -- FOR FY2019, IS

181

00:08:34,447 --> 00:08:35,448

\$19.9 BILLION.

182

00:08:35,514 --> 00:08:36,215

SO \$400 MILLION INCREASE IN

183

00:08:36,282 --> 00:08:37,483

TERMS OF WHAT WE HAVE BEEN --

184

00:08:37,550 --> 00:08:38,718

WHAT WE HAVE HAD THAT WE ARE

185

00:08:38,784 --> 00:08:40,319

WORKING TO RIGHT NOW AS AN

186

00:08:40,386 --> 00:08:40,886

AGENCY.

187

00:08:40,920 --> 00:08:42,288

IT REALLY REFLECTS THE

188

00:08:42,355 --> 00:08:45,091  
ADMINISTRATION'S CON IF I

189  
00:08:45,157 --> 00:08:46,325  
DEFENSE THAT AMERICA WILL LEAD

190  
00:08:46,392 --> 00:08:47,293  
THE WAY BACK TO THE MOON AND

191  
00:08:47,360 --> 00:08:48,661  
TAKE THE NEXT GIANT LEAP FROM

192  
00:08:48,728 --> 00:08:50,696  
WHERE WE MADE THE FIRST SMALL

193  
00:08:50,763 --> 00:08:52,331  
STEP FROM HUMANITY SOME 50 YEARS

194  
00:08:52,398 --> 00:08:52,898  
AGO.

195  
00:08:52,899 --> 00:08:54,166  
IT'S AN EXCITING TIME FOR US AND

196  
00:08:54,233 --> 00:08:55,468  
IT REALLY REPRESENTS A LOT OF

197  
00:08:55,534 --> 00:08:58,371  
GOODNESS THAT WE CAN DO.

198  
00:08:58,437 --> 00:09:01,407  
THE BUCKETS FOLK STIES NASA ON

199  
00:09:01,474 --> 00:09:04,911  
ITS CORE EXPLORATION MAIN AND

200  
00:09:04,977 --> 00:09:06,445  
FOCUSES MISSION THAT WE RETURN

201

00:09:06,512 --> 00:09:08,114

VALUE BACK TO THE TAXPAYER

202

00:09:08,180 --> 00:09:09,348

THROUGH KNOWLEDGE AND DISCOVERY,

203

00:09:09,415 --> 00:09:10,616

STRENGTHENING OUR ECONOMY AND

204

00:09:10,683 --> 00:09:11,617

SECURITY AND DEEPENING

205

00:09:11,684 --> 00:09:13,319

PARTNERSHIP WITH HIS OTHER

206

00:09:13,386 --> 00:09:13,886

NATIONS.

207

00:09:13,920 --> 00:09:16,289

PROVIDING SOLUTION TO HIS TOUGH

208

00:09:16,355 --> 00:09:18,724

PROBLEMS AND INSPIRING THAT NEXT

209

00:09:18,791 --> 00:09:20,626

GENERATION TO TAKE OVER FROM US

210

00:09:20,693 --> 00:09:22,495

ONE WITH DAY WHEN WE WERE ALL

211

00:09:22,561 --> 00:09:23,062

DONE.

212

00:09:23,129 --> 00:09:24,230

BUDGETS PLACES NASA AND THE

213

00:09:24,297 --> 00:09:25,898  
UNITED STATES AT OFFICER FRONT

214  
00:09:25,965 --> 00:09:27,533  
OF LEADING A GLOBAL EFFORT TO

215  
00:09:27,600 --> 00:09:29,035  
ADVANCE HUMANITY'S FUTURE IN

216  
00:09:29,101 --> 00:09:30,536  
SPACE.  
AND DRAWS ON OUR NATION'S GREAT

217  
00:09:30,603 --> 00:09:32,004  
INDUSTRIAL BASE AND CAPACITY FOR

218  
00:09:32,071 --> 00:09:33,339  
INNOVATION AND EXPLORATION TO

219  
00:09:33,406 --> 00:09:39,378  
RAISE THE BAR FOR HUMAN

220  
00:09:39,445 --> 00:09:41,847  
POTENTIAL AND IMPROVE LIFE

221  
00:09:41,914 --> 00:09:43,649  
ACROSS THE GLOBE T PROVIDES A

222  
00:09:43,716 --> 00:09:46,185  
NEW FOCUSED ON OUR HUMAN SPACE

223  
00:09:46,252 --> 00:09:47,753  
FLIGHT ACTIVITIES AND TRIES TO

224  
00:09:47,820 --> 00:09:49,055  
EXPAND OUR COMMERCIAL AND

225  
00:09:49,121 --> 00:09:51,057

INTERNATIONAL PARTNERSHIPS AND

226

00:09:51,123 --> 00:09:51,857

CONTINUES THAT PURSUIT THAT WE

227

00:09:51,924 --> 00:09:53,426

HAVE ALWAYS HAD OF CUTTING

228

00:09:53,492 --> 00:09:55,394

SCIENCE AND AERONAUTICS THE

229

00:09:55,461 --> 00:09:56,829

BREAKTHROUGHS THAT WE NEED THAT

230

00:09:56,896 --> 00:09:58,030

ARE AT THE CORE OF OUR VERY

231

00:09:58,097 --> 00:09:59,265

MISSION AS AN AGENCY.

232

00:09:59,332 --> 00:10:01,434

IN ADDITION TO PROVIDING

233

00:10:01,500 --> 00:10:03,035

CONTINUITY AND MOST OF OUR

234

00:10:03,102 --> 00:10:04,937

MISSION AREAS, THERE REALLY ARE

235

00:10:05,004 --> 00:10:06,172

THREE DISTINCT AREAS IN THE

236

00:10:06,238 --> 00:10:06,872

EXPLORATION AREA THAT WE ARE

237

00:10:06,939 --> 00:10:08,441

GOING TO TALK ABOUT.

238

00:10:08,507 --> 00:10:10,042

MOSTLY AROUND THE LUNAR

239

00:10:10,109 --> 00:10:10,810

EXPLORATION PROGRAM THAT WE ARE

240

00:10:10,876 --> 00:10:12,278

TRYING TO DO.

241

00:10:12,345 --> 00:10:14,313

WHAT WE ARE GOING TO TRY DO

242

00:10:14,380 --> 00:10:16,549

ABOUT WITH LOWER EARTH ORBIT AND

243

00:10:16,615 --> 00:10:20,853

RESEARCH AND THE TECHNOLOGY EFFO.

244

00:10:20,920 --> 00:10:22,655

EL TRY I WANT TO SHARE HOW WE

245

00:10:22,722 --> 00:10:24,690

GOT TO THAT POINT IT'S BEEN A

246

00:10:24,757 --> 00:10:26,092

LABOR OF LOVE FOR THE PAST

247

00:10:26,158 --> 00:10:26,993

COMPANY YEAR OLD FOR A LOT OF US

248

00:10:27,059 --> 00:10:28,661

IN THE LEADERSHIP EFFORT.

249

00:10:28,728 --> 00:10:30,563

AND I WANT TO EXPLANATION HOW

250

00:10:30,629 --> 00:10:32,398

THE LEADERSHIP EFFORTS HAVE BEEN

251

00:10:32,465 --> 00:10:33,666

EMBRACED BY THE ADMINISTRATION

252

00:10:33,733 --> 00:10:34,967

AND THE WORK TO GET US THERE.

253

00:10:35,034 --> 00:10:36,535

IF YOU BEAR WITH ME I'LL KIND OF

254

00:10:36,602 --> 00:10:37,636

GET YOU THERE.

255

00:10:37,703 --> 00:10:39,638

SO AS ALWAYS, THESE BUDGETS ARE

256

00:10:39,705 --> 00:10:41,407

A CULMINATION OF A LOT OF WORK

257

00:10:41,474 --> 00:10:43,376

OVER ROUGHLY THE PAST TWO YEARS

258

00:10:43,442 --> 00:10:45,344

BY THE WHOLE NASA EM TOO.

259

00:10:45,411 --> 00:10:46,445

REALLY KIND OF TRYING TO STEVE

260

00:10:46,512 --> 00:10:48,614

WHAT ARE THOSE KEY ROLES THAT

261

00:10:48,681 --> 00:10:51,450

NASA PLAYS.

262

00:10:51,517 --> 00:10:56,122

THE NOT ONLY IN GOVERNMENT BUT

263

00:10:56,188 --> 00:10:57,323

THE WORLD.

264

00:10:57,390 --> 00:10:59,058

GET TO THIS POINTS FROM A LOT OF

265

00:10:59,125 --> 00:11:00,593

WORK FROM A LOT OF TEAM.

266

00:11:00,659 --> 00:11:03,696

I WANT TO HANK HUNTER FOR AND

267

00:11:03,763 --> 00:11:04,997

THE TEAM FOR THE TREMENDOUS

268

00:11:05,064 --> 00:11:06,265

EFFORT THEY HAD ON THIS

269

00:11:06,332 --> 00:11:07,366

COMPLEXION BUDGET.

270

00:11:07,433 --> 00:11:08,601

ANDREA HAS BEEN ACTING JUST AS

271

00:11:08,667 --> 00:11:09,602

LONG AS I HAVE.

272

00:11:09,668 --> 00:11:10,936

AND I CAN TELL YOU HE'S BEEN

273

00:11:11,003 --> 00:11:12,138

DOING A LOT MORE THAN ACTING.

274

00:11:12,204 --> 00:11:13,105

HE'S BEEN DOING A GREAT JOB LEAD

275

00:11:13,172 --> 00:11:14,440

THIS IS TEAM AND LEADING THE

276

00:11:14,507 --> 00:11:15,674

ORGANIZATION TO GET THE BUDGET

277

00:11:15,741 --> 00:11:20,613

BUILT SO THANK YOU ANDREW.

278

00:11:20,679 --> 00:11:21,881

FOR ALL THE WORK YOU HAVE DONE

279

00:11:21,947 --> 00:11:22,515

TO DO THAT.

280

00:11:22,581 --> 00:11:23,916

HOW DID WE GET TO THAT POINT.

281

00:11:23,983 --> 00:11:25,518

HOW DID WE GET TO THE BUDGET

282

00:11:25,584 --> 00:11:26,752

THAT IS SO POSITIVE HERE.

283

00:11:26,819 --> 00:11:28,421

IF YOU GO BACK FOR THE ELECTION

284

00:11:28,487 --> 00:11:29,722

WE SPENT A YEAR AS A SENIOR TEAM

285

00:11:29,789 --> 00:11:30,689

TRYING TO WORK ON THE TRANSITION

286

00:11:30,756 --> 00:11:32,825

TO A NEW ADMINISTRATION, ASKING

287

00:11:32,892 --> 00:11:33,993

THOSE FUNDAMENTAL QUESTIONS, YOU

288

00:11:34,060 --> 00:11:38,130

KNOW, WHY DO YOU HAVE A NASA.

289

00:11:38,197 --> 00:11:40,132

WHAT DOES THE "N" IN NASA STANDS

290

00:11:40,199 --> 00:11:40,766

FORK NATIONAL.

291

00:11:40,833 --> 00:11:41,834

WHAT DOES IT MEAN TO BE

292

00:11:41,901 --> 00:11:42,234

NATIONAL.

293

00:11:42,234 --> 00:11:44,270

WE LOOK AT LAW, POLICY, HISTORY,

294

00:11:44,336 --> 00:11:45,504

WE BANTERED BACK AND FORTH AND

295

00:11:45,571 --> 00:11:47,406

CAME DOWN TO OUR ENDURING

296

00:11:47,473 --> 00:11:48,808

PURPOSE AS AN AGENCY IS TO

297

00:11:48,874 --> 00:11:50,910

DISCOVER, EXPLORE AND DEVELOP.

298

00:11:50,976 --> 00:11:52,778

WE KIND OF BUILT OFF THOSE

299

00:11:52,845 --> 00:11:54,513

TENANTS AND CREATED A WHOLE NEW

300

00:11:54,580 --> 00:11:55,714

SET OF TENANTS THAT WE SHARED

301

00:11:55,781 --> 00:11:56,649

WITH THE NEW ADMINISTRATION AND

302

00:11:56,715 --> 00:11:58,150

I THINK YOU'LL BE SEE THESE

303

00:11:58,217 --> 00:11:59,518

TENANTS ARE KIND OF WOVEN

304

00:11:59,585 --> 00:12:00,152

THROUGHOUT EVERYTHING THAT I

305

00:12:00,219 --> 00:12:02,321

TALK ABOUT WHEN I GET TO THE

306

00:12:02,388 --> 00:12:03,756

BUDGET PIECES OF THIS.

307

00:12:03,823 --> 00:12:05,658

THE TENANTS ARE SIMPLE.

308

00:12:05,724 --> 00:12:07,526

MAINTAINING AND EXPANDING U.S.

309

00:12:07,593 --> 00:12:08,961

LEADER SHIP IN SPACE AND ARROW

310

00:12:09,028 --> 00:12:11,831

NOW THE ICE TO SUPPORT NATIONAL

311

00:12:11,897 --> 00:12:13,466

INTEREST AND THE TRIAL BASE BUT

312

00:12:13,532 --> 00:12:16,035

ALSO THE GLOBAL ARM OF DIPLOMACY

313  
00:12:16,102 --> 00:12:17,303  
AND INTEREST ACROSS THE WORLD.

314  
00:12:17,369 --> 00:12:19,872  
WE ALSO EXPAND HUMAN NEALY

315  
00:12:19,939 --> 00:12:21,440  
THROUGH NEW SCIENTIFIC

316  
00:12:21,507 --> 00:12:22,942  
DISCOVERIES W HE DO THAT ALL THE

317  
00:12:23,008 --> 00:12:23,342  
TIME.

318  
00:12:23,342 --> 00:12:24,543  
EVERY WEEK WE HAVE SOMETHING

319  
00:12:24,610 --> 00:12:26,812  
COMING OUT OF THAT ARENA.

320  
00:12:26,879 --> 00:12:29,315  
EXTENDING CONTINUOUS U.S.

321  
00:12:29,381 --> 00:12:30,516  
PRESENTS DEEP IN TO STAYS,

322  
00:12:30,583 --> 00:12:31,584  
ADDRESSING THE SOCIETAL

323  
00:12:31,650 --> 00:12:32,785  
CHALLENGE THAT THIS NATION FACES

324  
00:12:32,852 --> 00:12:35,821  
AND TRYING TO CATALYZE ECONOMIC

325  
00:12:35,888 --> 00:12:36,288

GROWTH.

326

00:12:36,288 --> 00:12:37,756

AND MY FAVE WIT ONE IS WE

327

00:12:37,823 --> 00:12:38,691

INSPIRE A NATION.

328

00:12:38,757 --> 00:12:41,160

WE INSPIRE A NATION WITH WHAT WE

329

00:12:41,227 --> 00:12:42,661

CAN DO NOT WELLING ON WHAT WE

330

00:12:42,728 --> 00:12:43,562

CAN'T DO.

331

00:12:43,629 --> 00:12:44,864

THEY USE THOSE TENANTS WORKING

332

00:12:44,930 --> 00:12:46,832

WITH THE ADMINISTRATION TO SHAPE

333

00:12:46,899 --> 00:12:48,100

NASA'S IMPORTANT THREAD IN THE

334

00:12:48,167 --> 00:12:49,268

FABRIC OF THIS NATION.

335

00:12:49,335 --> 00:12:51,203

THE NEXT BIG STEP IN THIS

336

00:12:51,270 --> 00:12:52,505

PROCESS WAS WHEN WE

337

00:12:52,571 --> 00:12:53,672

REESTABLISHED THE --

338

00:12:53,739 --> 00:12:55,407

REESTABLISHMENT OF THE NATIONAL

339

00:12:55,474 --> 00:12:56,275

SPACE COUNCIL.

340

00:12:56,342 --> 00:12:57,576

CHAired BY VICE PRESIDENT MIKE

341

00:12:57,643 --> 00:12:59,645

PENCE.

I HAVE BEEN SO IMPRESSED WITH

342

00:12:59,712 --> 00:13:01,046

VICE PRESIDENT PENCE'S ENGAGE IN

343

00:13:01,113 --> 00:13:02,214

THE WHAT WE ARE DOING AS AN

344

00:13:02,281 --> 00:13:02,681

AGENCY.

345

00:13:02,681 --> 00:13:04,550

I HAVE THE THE OPPORTUNITY TO

346

00:13:04,617 --> 00:13:05,618

TALK TO HIM SEVERAL TIMES AND HE

347

00:13:05,684 --> 00:13:07,453

TRULY IS INSPIRED BY YOU WHAT

348

00:13:07,520 --> 00:13:09,054

GUYS DO EVERY DAY AND WANTS US

349

00:13:09,121 --> 00:13:11,957

TO DO MORE.

350

00:13:12,024 --> 00:13:13,325  
IT'S EXISTING TO BE AROUND HIM

351  
00:13:13,392 --> 00:13:14,960  
AND TALK TO HIM ABOUT THIS.

352  
00:13:15,027 --> 00:13:16,495  
IN THE FIRST MEETING OF THE

353  
00:13:16,562 --> 00:13:17,930  
COUNCIL IN OVER 25 YEARS I WAS

354  
00:13:17,997 --> 00:13:19,431  
ASSIGNED AN ACTION AND GIVEN 45

355  
00:13:19,498 --> 00:13:21,000  
DAYS TO DEVELOP A NATIONAL

356  
00:13:21,066 --> 00:13:22,468  
FOCUSED STUDY TO HAVE NASA LEAD

357  
00:13:22,535 --> 00:13:24,270  
AND INNING A STRAIGHT AND I HAVE

358  
00:13:24,336 --> 00:13:25,738  
SUSTAINABLE CAMPAIGN OF

359  
00:13:25,804 --> 00:13:26,572  
EXPLORATION THAT WILL LEAD THE

360  
00:13:26,639 --> 00:13:29,275  
RETURN OF HUMANS TO THE MOON FOE

361  
00:13:29,341 --> 00:13:30,876  
LONG-TERM EXPLORATION AND USE

362  
00:13:30,943 --> 00:13:32,378  
FOLLOWED BY HUMAN MISSION TO HIS

363

00:13:32,444 --> 00:13:34,680

MARS AND OTHER DESTINATIONS.

364

00:13:34,747 --> 00:13:36,215

THIS STUDY WOULD BECOME THE

365

00:13:36,282 --> 00:13:38,651

BACKBONE OF OUR EXPLORATION

366

00:13:38,717 --> 00:13:39,919

CAMPANAS CALLED OUT IN THE

367

00:13:39,985 --> 00:13:41,320

NATIONAL -- IN THE PRESIDENT'S

368

00:13:41,387 --> 00:13:42,555

SPACE POLICY DIRECTIVE ONE

369

00:13:42,621 --> 00:13:44,290

SIGNED BY PRESS TRUMP.

370

00:13:44,356 --> 00:13:46,025

AND THEN CODIFIED I BELIEVE IN

371

00:13:46,091 --> 00:13:48,861

THIS BUDGET, THIS 2019 BUDGET.

372

00:13:48,928 --> 00:13:51,163

WHILE THE DIRECTIVE CREATED A

373

00:13:51,230 --> 00:13:52,731

RENEWED FOCUS ON RETURN TO THE

374

00:13:52,798 --> 00:13:54,200

MOON, WE HAD TO ADDRESS A LOT OF

375

00:13:54,266 --> 00:13:55,501  
FAMILIAR ISSUES THAT WE HAVE HAD

376  
00:13:55,568 --> 00:13:56,835  
TO ADDRESS FOR THE PAST FEW

377  
00:13:56,902 --> 00:13:57,903  
YEARS, AS MOST OF YOU KNOW, WE

378  
00:13:57,970 --> 00:13:59,305  
HAVE USED THE INTERNATIONAL

379  
00:13:59,371 --> 00:14:00,639  
SPACE STATION AS OUR JUMPING OFF

380  
00:14:00,706 --> 00:14:02,107  
POINT OR THE CORNERSTONE FOR

381  
00:14:02,174 --> 00:14:03,042  
PUSHING HUMAN PRESENCE FURTHER

382  
00:14:03,108 --> 00:14:04,343  
NEVER TO SPACE.

383  
00:14:04,410 --> 00:14:06,745  
WITH THE HORIZON ALWAYS OF

384  
00:14:06,812 --> 00:14:07,880  
HUMANS TO MARS.

385  
00:14:07,947 --> 00:14:09,148  
THIS INCLUDES LEARNING ABOUT

386  
00:14:09,215 --> 00:14:10,649  
HUMAN PHYSIOLOGY OF SPACE

387  
00:14:10,716 --> 00:14:11,383  
FLIGHT.

388

00:14:11,450 --> 00:14:12,551

DEMONSTRATING NEW TECHNOLOGIES

389

00:14:12,618 --> 00:14:14,153

FOR SYSTEM THAT HIS WE NEED FOR

390

00:14:14,220 --> 00:14:15,154

FURTHER TRANSPORTATION AND

391

00:14:15,221 --> 00:14:18,257

ENABLENABLING A NEW INDUSTRY SEF

392

00:14:18,324 --> 00:14:20,326

PARTNERS TO BRING TO BEAR THEIR

393

00:14:20,392 --> 00:14:21,193

CAPABILITIES AND EMERGE AS

394

00:14:21,260 --> 00:14:22,061

LEADER IN THEIR OWN RIGHT TO

395

00:14:22,127 --> 00:14:23,662

HELP US ON THIS JOURNEY.

396

00:14:23,729 --> 00:14:24,697

YOU MAY ALSO REMEMBER WE HAVE

397

00:14:24,763 --> 00:14:26,065

BEEN SAYING THAT WE NEEDED TO

398

00:14:26,131 --> 00:14:28,067

ESTABLISH A PRESENCE IN THE AREA

399

00:14:28,133 --> 00:14:29,835

AROUND THE MOON TO PREPARE FOR

400

00:14:29,902 --> 00:14:31,904  
SUCH A JOURNEY.

401  
00:14:31,971 --> 00:14:33,472  
THIS BECAME OUR CENTRAL FOCUS

402  
00:14:33,539 --> 00:14:34,840  
FOR PLANNING AS WE TALKED ABOUT

403  
00:14:34,907 --> 00:14:35,941  
WHAT ARE WE GO GO TO DO IN THE

404  
00:14:36,008 --> 00:14:38,777  
DECADE OF THE 2020s AROUND THE

405  
00:14:38,844 --> 00:14:39,411  
MOON.

406  
00:14:39,478 --> 00:14:40,613  
IN MANY WAYS, THE WORK OF THE

407  
00:14:40,679 --> 00:14:42,648  
DECADE OF THE 2020s IS IN THE

408  
00:14:42,715 --> 00:14:45,017  
AREA AROUND THE MOON NEEDED

409  
00:14:45,084 --> 00:14:46,986  
CLEAR GOALS AND OBJECTIVES.

410  
00:14:47,052 --> 00:14:48,721  
WE ALSO NEEDED TO LOOK AT HOW WE

411  
00:14:48,787 --> 00:14:50,189  
ARE GOING TO DO THIS WITH A GOOD

412  
00:14:50,256 --> 00:14:52,858  
BALANCE OF NASA, THE U.S.

413

00:14:52,925 --> 00:14:55,060

INDUSTRY, AND OUR INTERNATIONAL

414

00:14:55,127 --> 00:14:56,929

PARTNERS GOING FORWARD.

415

00:14:56,996 --> 00:14:58,364

THE ADMINISTRATION'S DIRECTION

416

00:14:58,430 --> 00:14:59,365

TIES TO THE GROWING RECOGNITION

417

00:14:59,431 --> 00:15:02,234

OF THE STRATEGIC AND ECONOMIC

418

00:15:02,301 --> 00:15:04,503

OPPORTUNITIES THAT THE EXPANSION

419

00:15:04,570 --> 00:15:06,939

BEYOND LOWER EARTH ORBIT

420

00:15:07,006 --> 00:15:07,406

REPRESENTS.

421

00:15:07,406 --> 00:15:08,974

IN SHORT, WE ARE ONCE AGAIN ON A

422

00:15:09,041 --> 00:15:10,743

PATH TO RETURN TO THE MOON WITH

423

00:15:10,809 --> 00:15:12,711

AN EYE TOWARD MARS.

424

00:15:12,778 --> 00:15:14,413

THIS TIME, THOUGH, WE ARE

425

00:15:14,480 --> 00:15:15,648  
LEVERAGING THE MULTIPLE PARTNERS

426  
00:15:15,714 --> 00:15:18,450  
WE HAVE BOTH HERE AT HOME AND

427  
00:15:18,517 --> 00:15:19,151  
INTERNATIONALLY.

428  
00:15:19,218 --> 00:15:21,253  
IN DEVELOPING A SUSTAINABLE

429  
00:15:21,320 --> 00:15:22,621  
APPROACH WHERE THE MOON IS

430  
00:15:22,688 --> 00:15:24,823  
SIMPLY ONE STEP ON OUR TRULY

431  
00:15:24,890 --> 00:15:26,392  
AMBITIOUS AND LONG-TERM JOURNEY

432  
00:15:26,458 --> 00:15:27,359  
TO REACH OUT FURTHER NEVER TO

433  
00:15:27,426 --> 00:15:28,827  
THE SOLAR SYSTEM.

434  
00:15:28,894 --> 00:15:31,530  
AND TO REAP THE ECONOMIC, THE

435  
00:15:31,597 --> 00:15:33,098  
SOCIETAL, AND THE EXPANDING

436  
00:15:33,165 --> 00:15:36,702  
KNOWLEDGE BENEFITS OF SUCH AN

437  
00:15:36,769 --> 00:15:37,236  
ENDEAVOR.

438

00:15:37,236 --> 00:15:38,771

THAT'S WHERE THE 45-DAY STUDY

439

00:15:38,837 --> 00:15:40,372

AND THE A, THAT WE GOT FROM THE

440

00:15:40,439 --> 00:15:41,774

NATIONAL SPACE COUNCIL PROVIDED

441

00:15:41,840 --> 00:15:44,310

US WITH A PLATFORM TO CLARIFY

442

00:15:44,376 --> 00:15:46,178

AND COORDINATE OUR PLANS FOR

443

00:15:46,245 --> 00:15:48,047

EXPLORATION AT THE MOON AND WITH

444

00:15:48,113 --> 00:15:50,015

THE ADMINISTRATION.

445

00:15:50,082 --> 00:15:51,717

I BELIEVE YOU'LL SEE THE

446

00:15:51,784 --> 00:15:53,752

CLARIFICATIONS OF THOSE

447

00:15:53,819 --> 00:15:55,754

OBJECTIVES IN THE DETAILS AS I

448

00:15:55,821 --> 00:15:56,522

LAY THEM OUT.

449

00:15:56,588 --> 00:15:57,656

I MUST ADD HERE ONE THING THAT

450

00:15:57,723 --> 00:15:59,258  
HAS BEEN VERY IMPORTANT TO ME AS

451  
00:15:59,325 --> 00:16:01,560  
THE ACTING ADMINISTRATIONER, I

452  
00:16:01,627 --> 00:16:04,196  
HAVE HAD SUCH SEAMLESS ALIGNMENT

453  
00:16:04,263 --> 00:16:06,365  
ACROSS TECHNOLOGY, HUMAN

454  
00:16:06,432 --> 00:16:08,167  
EXPLORATION, SCIENCE, AIR

455  
00:16:08,233 --> 00:16:09,601  
AERONAUTICS AND OUR MISSION

456  
00:16:09,668 --> 00:16:11,236  
SUPPORT GROUP.

457  
00:16:11,303 --> 00:16:14,206  
YOU LOOK AT -- YOU CAN'T GET A

458  
00:16:14,273 --> 00:16:18,143  
GAP BETWEEN BILL, THOMAS, JAY,

459  
00:16:18,210 --> 00:16:19,845  
AND DAN.

460  
00:16:19,912 --> 00:16:22,948  
THEY HAVE BEEN SO SYNCED UP.

461  
00:16:23,015 --> 00:16:24,616  
TOM HAS BEEN PULLING THEM

462  
00:16:24,683 --> 00:16:26,051  
TOGETHER AND THEIR LEADERSHIP

463

00:16:26,118 --> 00:16:28,487

AND COMMITMENT TO DEVELOP A VERY

464

00:16:28,554 --> 00:16:29,722

INTEGRATED SET OF MISSION

465

00:16:29,788 --> 00:16:31,724

OBJECTIVES HAS BEEN IMPRESSIVE.

466

00:16:31,790 --> 00:16:35,260

I HAPPENED TO CHAIR THE AGENCY

467

00:16:35,327 --> 00:16:36,528

EXECUTIVE COUNSEL WHERE A LOT OF

468

00:16:36,595 --> 00:16:37,629

DECISIONS GET MADE THAT WE

469

00:16:37,696 --> 00:16:38,030

SUBMIT.

470

00:16:38,030 --> 00:16:39,765

AND I HAVE GOT REALLY FOUR GREAT

471

00:16:39,832 --> 00:16:41,500

PARTNERS THERE, ANDREW HUNT

472

00:16:41,567 --> 00:16:43,302

HUNTER OF COURSE IS THE CFO.

473

00:16:43,369 --> 00:16:46,605

GAIL ALLEN ORE CHEER SIGN TIFF.

474

00:16:46,672 --> 00:16:48,073

DOUGLAS THE CHEAP TECHNOLOGY AND

475

00:16:48,140 --> 00:16:48,974  
MY DEPUTY.

476  
00:16:49,041 --> 00:16:50,809  
WE HAVE BEEN SO BLESSED TO HAVE

477  
00:16:50,876 --> 00:16:52,378  
THE TEAM OF THE MISSION

478  
00:16:52,444 --> 00:16:54,113  
DIRECTORS COME IN SEAMLESSLY

479  
00:16:54,179 --> 00:16:56,115  
WITH THESE PROPOSALS AND PLANS.

480  
00:16:56,181 --> 00:16:58,083  
SO IT'S BEEN EXCITING.

481  
00:16:58,150 --> 00:16:59,385  
TO SEE HOW FOLKS CAN COME

482  
00:16:59,451 --> 00:17:00,686  
TOGETHER AND HOW WE REALLY ARE

483  
00:17:00,753 --> 00:17:06,692  
WORKING AS ONE NASA AS WE GOING

484  
00:17:06,759 --> 00:17:09,428  
FORWARD.

485  
00:17:09,495 --> 00:17:11,497  
WITH THAT BACKGROUND LET'S DIVE

486  
00:17:11,563 --> 00:17:14,099  
IN TO DETAILS I WILL START WITH

487  
00:17:14,166 --> 00:17:15,134  
EXPLORATION, I'LL GET TO THE

488

00:17:15,200 --> 00:17:16,735

OTHERS AS WE GO THROUGH THIS.

489

00:17:16,802 --> 00:17:18,003

THE DIRECTION AND THE PRIORITY

490

00:17:18,070 --> 00:17:20,973

WAS CLEAR, TO REFOCUS EXISTING

491

00:17:21,039 --> 00:17:23,041

NASA ACTIVITIES TOWARDS

492

00:17:23,108 --> 00:17:24,643

EXPLORATION BY REDIRECTING FUNDS

493

00:17:24,710 --> 00:17:26,011

TO GO INNOVATIVE NEW PROGRAMS

494

00:17:26,078 --> 00:17:28,547

AND SUPPORT FOR NEW PUBLIC,

495

00:17:28,614 --> 00:17:29,548

PRIVATE INITIATIVES.

496

00:17:29,615 --> 00:17:30,716

SO LET'S TALK ABOUT THAT.

497

00:17:30,783 --> 00:17:32,684

IN EXPLORATION OF THE

498

00:17:32,751 --> 00:17:33,685

19.9 BILLION THAT WE ARE

499

00:17:33,752 --> 00:17:37,322

PROPOSING AS AN AGENCY IN 19,

500

00:17:37,389 --> 00:17:38,757  
10.5 IN GOING IN TO THAT AREA.

501  
00:17:38,824 --> 00:17:40,359  
THERE IS REALLY THREE FOCUS

502  
00:17:40,426 --> 00:17:41,627  
AREAS THAT WE ARE WORKING ON.

503  
00:17:41,693 --> 00:17:44,897  
IT'S REALLY THE LUNAR AND DEEP

504  
00:17:44,963 --> 00:17:47,366  
SPACE, THE LOW EARTH ORBIT

505  
00:17:47,433 --> 00:17:48,867  
COMMERCIALIZATION AND THEN

506  
00:17:48,934 --> 00:17:50,102  
EXPLORATION RESEARCH AND

507  
00:17:50,169 --> 00:17:50,669  
TECHNOLOGY.

508  
00:17:50,669 --> 00:17:51,870  
SO I AM GOING TO START WITH THE

509  
00:17:51,937 --> 00:17:52,638  
LUNAR PART.

510  
00:17:52,704 --> 00:17:54,173  
AND SHARE WITH YOU WHAT IS GOING

511  
00:17:54,239 --> 00:17:54,773  
ON THERE.

512  
00:17:54,840 --> 00:17:56,442  
SO FIRST OF ALL, THE SPACE

513

00:17:56,508 --> 00:18:00,612

LAUNCH SYSTEM IN OW ORION SPACE

514

00:18:00,679 --> 00:18:02,347

CRAFT ARE CRITICAL OF BACKBONE

515

00:18:02,414 --> 00:18:03,382

ELEMENTS OF THAT DEEP STAYS

516

00:18:03,449 --> 00:18:04,249

WHETHER IT'S LUNAR AND I DON'T

517

00:18:04,316 --> 00:18:04,850

UNDERSTAND.

518

00:18:04,917 --> 00:18:05,684

THEIR MOMENTUM CONTINUES THIS

519

00:18:05,751 --> 00:18:07,820

YEAR AS THE BUDGET SUPPORTS THE

520

00:18:07,886 --> 00:18:09,688

CURRENT PLANNING FOR THE

521

00:18:09,755 --> 00:18:11,824

UNCREWED AND THE CREWED MISSIONS

522

00:18:11,890 --> 00:18:14,827

THAT WE NEED TO GET CREWED

523

00:18:14,893 --> 00:18:16,028

AROUND THE MOON.

524

00:18:16,094 --> 00:18:17,329

INCLUDING MANUFACTURING AND

525

00:18:17,396 --> 00:18:19,231  
PREPARING TO STRUCTURAL A TESTED

526  
00:18:19,298 --> 00:18:20,599  
HERE AT MARSHALL.

527  
00:18:20,666 --> 00:18:21,733  
THE LARGE TEST FACILITIES WHERE

528  
00:18:21,800 --> 00:18:23,135  
I USED TO WORK IN MY EARLIER

529  
00:18:23,202 --> 00:18:24,636  
DAYS THEY KIND OF DOT THE

530  
00:18:24,703 --> 00:18:25,737  
HORIZON NOW WHEN YOU COME IN.

531  
00:18:25,804 --> 00:18:26,371  
IT'S DIFFERENT WHICH YOU DRIVE

532  
00:18:26,438 --> 00:18:27,439  
IN TO THE CENTER AND YOU SEE

533  
00:18:27,506 --> 00:18:28,674  
THEM OUT THERE AND THE TEAMS ARE

534  
00:18:28,740 --> 00:18:29,174  
READY TO GO.

535  
00:18:29,174 --> 00:18:30,375  
WE HAVE ALREADY STARTED SOME OF

536  
00:18:30,442 --> 00:18:31,777  
THAT STRUCTURAL TESTING WITH THE

537  
00:18:31,844 --> 00:18:33,579  
ENGINE SECTION ALREADY HERE.

538

00:18:33,645 --> 00:18:36,181

AND THE TESTS ARE GOING WELL.

539

00:18:36,248 --> 00:18:37,816

ORION LED BY THE TEAM AT JOHNSON

540

00:18:37,883 --> 00:18:39,918

SPACE CENTER, CONTINUES ITS

541

00:18:39,985 --> 00:18:41,720

GREAT PROGRESS ACROSS THE

542

00:18:41,787 --> 00:18:42,454

COUNTRY.

543

00:18:42,521 --> 00:18:45,491

THE MAIN CAPSULE AT KENNEDY

544

00:18:45,557 --> 00:18:46,558

SPACE CENTER IS JUST HITTING

545

00:18:46,625 --> 00:18:47,593

THEIR STRIDE WITH THE AMOUNT OF

546

00:18:47,659 --> 00:18:49,294

TEST THAT GO WE ARE DOING AS ASS

547

00:18:49,361 --> 00:18:51,797

WELL GUESTING THE SYSTEMS READY

548

00:18:51,864 --> 00:18:53,131

ALL OVER THE GREAT NATION.

549

00:18:53,198 --> 00:18:54,466

THE TEAM AT STEP US IS PREPARING

550

00:18:54,533 --> 00:18:56,568  
FOR THE INTEGRATED TEST WITH THE

551  
00:18:56,635 --> 00:18:57,736  
RS25s, THAT'S GOING TO BE

552  
00:18:57,803 --> 00:19:03,642  
QUITE A TEST THAT WE GET TO SEE

553  
00:19:03,709 --> 00:19:04,343  
SOON.

554  
00:19:04,409 --> 00:19:05,944  
THE GROUND TEAM AT KENNEDY

555  
00:19:06,011 --> 00:19:08,046  
PREPARING TO RECEIVE ALL THIS

556  
00:19:08,113 --> 00:19:09,414  
HARDWARE AND THE PREPARING THE

557  
00:19:09,481 --> 00:19:10,849  
SOFTWARE THAT WE NEED TO LAUNCH

558  
00:19:10,916 --> 00:19:11,850  
THIS VEHICLE AS WE GO FORWARD.

559  
00:19:11,917 --> 00:19:13,852  
IT'S A PRETTY EXCITING TIME.

560  
00:19:13,919 --> 00:19:15,120  
YOU JUST HAVE TO GO IN THE ANY

561  
00:19:15,187 --> 00:19:16,688  
SETERS AND AS TODD SAYS PEOPLE

562  
00:19:16,755 --> 00:19:19,157  
ARE JAZZED UP SOMEWHAT THEY ARE

563

00:19:19,224 --> 00:19:20,659

DOING TO GET US READY TO FLY

564

00:19:20,726 --> 00:19:22,060

THIS.

IT'S THE MOST DEVELOPMENT WE

565

00:19:22,127 --> 00:19:23,595

HAVE HAD SINCE BEFORE THE FIRST

566

00:19:23,662 --> 00:19:24,530

SPACE SHUTTLE FLIGHT.

567

00:19:24,596 --> 00:19:25,831

IT'S THAT KIND OF INTENSITY AND

568

00:19:25,898 --> 00:19:27,232

THIS UPCOMING YEAR SAUL ABOUT

569

00:19:27,299 --> 00:19:28,367

TESTING FOR THAT.

570

00:19:28,433 --> 00:19:30,202

THE 19 BUDGET SUPPORTS ALL OF

571

00:19:30,269 --> 00:19:30,936

THAT.

572

00:19:31,003 --> 00:19:32,404

ALSO IN THE MOON, -- OR AROUND

573

00:19:32,471 --> 00:19:34,606

THE MOON IN ORBIT WE'LL PLACE

574

00:19:34,673 --> 00:19:37,676

AND BEGIN THE FIRST STEPS OF OUR

575  
00:19:37,743 --> 00:19:38,610  
IN-SPACE INFRASTRUCTURE.

576  
00:19:38,677 --> 00:19:40,145  
AND IN THAT DEVELOPMENT, WE ARE

577  
00:19:40,212 --> 00:19:42,381  
GOING TO LAUNCH THE POWER AND

578  
00:19:42,447 --> 00:19:44,950  
PROPULSION ELEMENT FOR THE LUNAR

579  
00:19:45,017 --> 00:19:47,286  
ORBITING PLATFORM GATEWAY THAT

580  
00:19:47,352 --> 00:19:48,220  
WE'LL PUT UP.

581  
00:19:48,287 --> 00:19:49,855  
THAT'S PLANNED TO LAWN INCH

582  
00:19:49,922 --> 00:19:50,856  
2020 AND THAT WILL BE THE

583  
00:19:50,923 --> 00:19:51,990  
FIRST PIECE THAT WE HAVE AROUND

584  
00:19:52,057 --> 00:20:00,032  
THE NEWSPA MOON.

585  
00:20:00,098 --> 00:20:01,767  
WE'LL HAVE MORELANDERS BEING THE

586  
00:20:01,833 --> 00:20:02,968  
SCOUTS DOING THE RESOURCE

587  
00:20:03,035 --> 00:20:04,202

PROSPECTING AS I CALL IT TO GET

588

00:20:04,269 --> 00:20:05,404

READY TO GO AND LEARN WHAT WE

589

00:20:05,470 --> 00:20:07,906

CAN FROM A SCIENTIFIC

590

00:20:07,973 --> 00:20:08,440

PERSPECTIVE.

591

00:20:08,440 --> 00:20:09,908

BUT HOW IT APPLIES TO HUMANS,

592

00:20:09,975 --> 00:20:11,243

ALL SIGH A SERIES OF LANDERS

593

00:20:11,310 --> 00:20:17,382

GOING FORWARD IN THIS BUDGET.

594

00:20:17,449 --> 00:20:19,384

ALLOWING US TO GET OUR FEET WET

595

00:20:19,451 --> 00:20:21,086

OF WHAT IT'S LIKE TO BE ON THE

596

00:20:21,153 --> 00:20:21,620

MOON.

597

00:20:21,620 --> 00:20:24,423

THIS GIVES US A STREW TELLING I

598

00:20:24,489 --> 00:20:26,358

CAN PRESENCE AND DIVING OUR

599

00:20:26,425 --> 00:20:27,559

ACTIVITY WITH THE COMMERCIAL AND

600  
00:20:27,626 --> 00:20:28,961  
ANDI WANT NATIONAL PARTNERS AND

601  
00:20:29,027 --> 00:20:30,529  
HELP US FURTHER EXPLODE THE MOON

602  
00:20:30,596 --> 00:20:33,298  
AND THE RESOURCES AND TRANSFER

603  
00:20:33,365 --> 00:20:35,000  
THAT TO HUMAN MISSIONS TO MARS.

604  
00:20:35,067 --> 00:20:36,935  
WE ARE SEEING AN EXPANDING SET

605  
00:20:37,002 --> 00:20:38,470  
OF INVESTMENTS AND CAPABILITIES

606  
00:20:38,537 --> 00:20:40,038  
THAT CAN COMPLIMENT AND WE CAN

607  
00:20:40,105 --> 00:20:41,807  
LEFT RUN TO BUILT GREATER IF YOU

608  
00:20:41,873 --> 00:20:43,909  
WANTS WITH OUR MORE SHALL

609  
00:20:43,976 --> 00:20:45,243  
PARTNERS AND THREE.

610  
00:20:45,310 --> 00:20:48,547  
U.S. INDUSTRY PARTNERS.

611  
00:20:48,614 --> 00:20:50,115  
YOU HAVE TO LOOK NO FURTHER THAN

612  
00:20:50,182 --> 00:20:52,217

LEAST WEEK'S FALCON HEAVY LAUNCH

613

00:20:52,284 --> 00:20:53,185

AN TREATMENT ACCOMPLISHMENT FOR

614

00:20:53,251 --> 00:20:54,953

OUR PARTNERSES AT SPACEX FOR MA

615

00:20:55,020 --> 00:20:56,355

THEY DID, JUST AN AMAZING THING

616

00:20:56,421 --> 00:20:57,155

AND I DON'T CARE WHO YOU ARE,

617

00:20:57,222 --> 00:20:58,991

THAT WAS A PRETTY COOL THING TO

618

00:20:59,057 --> 00:21:00,158

WATCH AND PRETTY EXCITING FOR

619

00:21:00,225 --> 00:21:01,927

ALL OF US FROM -- THAT ARE IN

620

00:21:01,994 --> 00:21:03,028

THIS BUSINESS.

621

00:21:03,095 --> 00:21:05,030

WE KNOW HOW HARD IT IS TO GET TO

622

00:21:05,097 --> 00:21:06,264

THE FIRST LAWN AND I WERE

623

00:21:06,331 --> 00:21:07,432

CONGRATULATE THE SPACEX TEAM FOR

624

00:21:07,499 --> 00:21:08,567

WHAT THEY DID AND ACCOMPLISH.

625  
00:21:08,634 --> 00:21:10,969  
I STILL THINK THOSE TWO LANDING

626  
00:21:11,036 --> 00:21:11,470  
TAME.

627  
00:21:11,470 --> 00:21:13,105  
I TOLD ELON THAT LOOKS LOOK

628  
00:21:13,171 --> 00:21:14,239  
HOLLYWOOD NOT SURE IT RULE

629  
00:21:14,306 --> 00:21:14,740  
HAPPENED.

630  
00:21:14,740 --> 00:21:15,907  
BUT MY FRIENDS AT THE CAPE SAID

631  
00:21:15,974 --> 00:21:19,444  
IT DID SO PRETTY IMPRESSIVE.

632  
00:21:19,511 --> 00:21:20,912  
BUT WE GET TO LEFT THANK

633  
00:21:20,979 --> 00:21:23,081  
CAPABILITY AS WE BUILD OUR OWN

634  
00:21:23,148 --> 00:21:23,649  
CAPABILITIES.

635  
00:21:23,715 --> 00:21:24,516  
THAT'S THE AREA AROUND THE MOON

636  
00:21:24,583 --> 00:21:25,517  
AND WHERE WE ARE HEADED FOR ON

637  
00:21:25,584 --> 00:21:26,952

AND AROUND THE MOON.

638

00:21:27,019 --> 00:21:27,986

THE NEXT AREA WE ARE TALKING

639

00:21:28,053 --> 00:21:30,589

ABOUT IS LOWER EARTH ORBITALITY.

640

00:21:30,656 --> 00:21:32,391

THAT'S A FOCUS AREA FOR US GOING

641

00:21:32,457 --> 00:21:34,259

FORWARD AND WHILE WE HEAD TO THE

642

00:21:34,326 --> 00:21:36,328

MOON AND ULTIMATELY TO MARS WE

643

00:21:36,395 --> 00:21:37,763

NEED TO LOOK BACK IN ON LOWER

644

00:21:37,829 --> 00:21:40,032

EARTH ORBIT AND SEE A VIBRANT

645

00:21:40,098 --> 00:21:41,967

ECONOMY, AN ECONOMY THAT WE

646

00:21:42,034 --> 00:21:43,235

CREATE AND THE SPURRED WITH

647

00:21:43,301 --> 00:21:44,536

THINGS LIKE THE INTERNATIONAL

648

00:21:44,603 --> 00:21:45,704

SPACE STATION AND HOW WE HAVE

649

00:21:45,771 --> 00:21:47,706

USED THE INTERNATIONAL SPACE

650  
00:21:47,773 --> 00:21:48,373  
STATION TO DO THAT.

651  
00:21:48,440 --> 00:21:50,108  
THIS BUDGET PROPOSES TO

652  
00:21:50,175 --> 00:21:51,109  
STIMULATE COMMERCIAL

653  
00:21:51,176 --> 00:21:52,277  
OPPORTUNITIES IN LOWER EARTH

654  
00:21:52,344 --> 00:21:52,744  
ORBIT.

655  
00:21:52,744 --> 00:21:54,880  
PROVIDING AN OFF-RAMP FOR

656  
00:21:54,946 --> 00:21:56,415  
GOVERNMENT LED OPERATIONS AT THE

657  
00:21:56,481 --> 00:21:57,516  
INTERNATIONAL SPACE STATION, SO

658  
00:21:57,582 --> 00:21:59,484  
WHAT WELL DO IS RAMP UP EFFORTS

659  
00:21:59,551 --> 00:22:01,553  
TO TRANSITION LOWER EARTH ORBIT

660  
00:22:01,620 --> 00:22:02,888  
ACTIVITIES TO THE COMMERCIAL

661  
00:22:02,954 --> 00:22:04,823  
SECTOR AND TO INDIRECT FEDERAL

662  
00:22:04,890 --> 00:22:07,726

## GOVERNMENT SUPPORT OF THE ISS IN

663

00:22:07,793 --> 00:22:08,260  
2025.

664

00:22:08,260 --> 00:22:09,628  
HOPEFUL TOY BEGIN RELYING ON

665

00:22:09,695 --> 00:22:12,597  
COMMERCIAL PARTNERS FOR A LOWER

666

00:22:12,664 --> 00:22:14,299  
EARTH ORBIT RESEARCH TECHNOLOGY

667

00:22:14,366 --> 00:22:15,233  
AND DEMONSTRATION REQUIREMENTS.

668

00:22:15,300 --> 00:22:18,403  
TO THAT END, THIS BUDGET

669

00:22:18,470 --> 00:22:19,671  
PROPOSES \$150 MILLION IN 2019 TO

670

00:22:19,738 --> 00:22:22,040  
ENCOURAGE THE U.S. SPACE

671

00:22:22,107 --> 00:22:23,742  
INDUSTRY TO DEVELOP THE

672

00:22:23,809 --> 00:22:25,410  
CAPABILITIES AND BRING ALL OF

673

00:22:25,477 --> 00:22:27,279  
THOSE CAPABILITIES TO BEAR IN

674

00:22:27,345 --> 00:22:29,081  
LOWER EARTH ORBIT EITHER AT THE

675  
00:22:29,147 --> 00:22:30,916  
ISS OR STAND-ALONE PLATFORMS

676  
00:22:30,982 --> 00:22:33,051  
THAT BOTH PRIVATE SECTOR AND

677  
00:22:33,118 --> 00:22:34,119  
NASA CAN USE.

678  
00:22:34,186 --> 00:22:35,620  
THIS BUDGET ALSO CONTINUES TO

679  
00:22:35,687 --> 00:22:37,089  
SUPPORT FOR THE COMMERCIAL CREW

680  
00:22:37,155 --> 00:22:39,157  
AND CARGO PROGRAMS WITH BOTH

681  
00:22:39,224 --> 00:22:42,194  
PROVIDERS AND CREW PROVIDING

682  
00:22:42,260 --> 00:22:43,929  
CONTINUING TO MAKE GREAT

683  
00:22:43,995 --> 00:22:45,397  
PROGRESS TO LAUNCH ASTRONAUTS

684  
00:22:45,464 --> 00:22:46,531  
FROM THE U.S., THIS IS A

685  
00:22:46,598 --> 00:22:48,166  
CRITICAL PART OF OUR LOWER EARTH

686  
00:22:48,233 --> 00:22:49,301  
ORBIT STRATEGY AND SOMETHING WE

687  
00:22:49,367 --> 00:22:50,435

HAVE WANTED TO HAVE OCCUR FOR A

688

00:22:50,502 --> 00:22:50,836

LONG TIME.

689

00:22:50,836 --> 00:22:53,505

ON THE CARGO SIDE, WE HAVE JUST

690

00:22:53,572 --> 00:22:54,740

AWARDED SIERRA NEVADA THEIR

691

00:22:54,806 --> 00:22:55,907

FIRST CARGO MISSION WE CONTINUE

692

00:22:55,974 --> 00:22:57,809

TO ENGAGE OTHER COMMERCIAL FOLKS

693

00:22:57,876 --> 00:22:58,610

AS WELL IN THIS PROCESS.

694

00:22:58,677 --> 00:23:00,345

SO THAT'S IN THIS BUDGET.

695

00:23:00,412 --> 00:23:01,346

AND FINALLY IN THE BUDGE FEED

696

00:23:01,413 --> 00:23:02,981

THE LOWER EARTH ORBIT AND KIND

697

00:23:03,048 --> 00:23:04,750

OF THE SUPPORT TO

698

00:23:04,816 --> 00:23:05,917

COMMERCIALIZATION WE HAVE THE

699

00:23:05,984 --> 00:23:07,319

BUDGE HE WOULD THAT SUPPORTS

700  
00:23:07,385 --> 00:23:09,087  
SPACE COMMUNICATIONS PROPULSION

701  
00:23:09,154 --> 00:23:11,056  
TEST AND LAUNCH SERVICES, THEY E

702  
00:23:11,123 --> 00:23:12,390  
ARE YOU'LL CRITICAL PART OF WHAT

703  
00:23:12,457 --> 00:23:13,725  
A CALL OUR INFRASTRUCTURE AND

704  
00:23:13,792 --> 00:23:14,893  
THE THINGS THAT ARE NECESSARY TO

705  
00:23:14,960 --> 00:23:16,762  
DO ANY KIND OF WORK IN SPACE

706  
00:23:16,828 --> 00:23:18,663  
THESE DAYS.

707  
00:23:18,730 --> 00:23:21,299  
THE NEXT PIECE OF THE

708  
00:23:21,366 --> 00:23:23,835  
EXPLORATION STRATEGY IS AROUND

709  
00:23:23,902 --> 00:23:24,402  
TECHNOLOGY.

710  
00:23:24,436 --> 00:23:25,971  
AND THIS AREA ALL THE AGENCY

711  
00:23:26,037 --> 00:23:27,606  
TECHNOLOGY EFFORTS WHETHER THEY

712  
00:23:27,672 --> 00:23:29,741

WERE IN ADVANCED, MOORE ACTION

713

00:23:29,808 --> 00:23:31,443

SYSTEMS OR SPACE TECHNOLOGY

714

00:23:31,510 --> 00:23:32,611

MISSION DIRECTIVES THEY WILL BE

715

00:23:32,677 --> 00:23:34,479

COMBINE AND THE REFOCUSSED TOWARD

716

00:23:34,546 --> 00:23:36,148

THE EXPLORATION CAMPAIGN.

717

00:23:36,214 --> 00:23:38,150

THE HEALTHY BUDGET LINE HERE OF

718

00:23:38,216 --> 00:23:40,252

ALMOST -- JUST OVER A BILLION

719

00:23:40,318 --> 00:23:41,720

DOLLARS WILL -- IS PROPOSED FOR

720

00:23:41,787 --> 00:23:43,388

WHAT WE ARE CALLING NOW

721

00:23:43,455 --> 00:23:44,556

EXPLORATION RESEARCH AND

722

00:23:44,623 --> 00:23:46,424

TECHNOLOGY AND IT INTEGRATES

723

00:23:46,491 --> 00:23:47,626

SPACE TECHNOLOGY AND THE

724

00:23:47,692 --> 00:23:50,729

TECHNOLOGY EFFORTS FOR AES.

725  
00:23:50,796 --> 00:23:53,732  
OUR INVESTMENTS IN TECHNOLOGY

726  
00:23:53,799 --> 00:23:55,700  
LAY THAT GROUNDWORK FOR FUTURE

727  
00:23:55,767 --> 00:23:56,835  
HUMAN AND ROBOTIC MISSIONS.

728  
00:23:56,902 --> 00:23:58,003  
WE ARE GOING TO INVEST IN A LOT

729  
00:23:58,069 --> 00:23:59,671  
OF THINGS FROM HABITAT SYSTEMS

730  
00:23:59,738 --> 00:24:02,307  
TO IN-SPACE PRO PUCKS TO ENTRY

731  
00:24:02,374 --> 00:24:03,809  
DIDESCENT AND LANDING THE THINGS

732  
00:24:03,875 --> 00:24:05,510  
THAT WE NEED TO CONTINUE TO

733  
00:24:05,577 --> 00:24:07,279  
PRESS HUMANS FORWARD BUT THE

734  
00:24:07,345 --> 00:24:08,513  
TECHNOLOGIES WILL BE FOCUSED

735  
00:24:08,580 --> 00:24:09,848  
AROUND EXPLORATION.

736  
00:24:09,915 --> 00:24:11,249  
AS SUCH WE ARE ALSO GOING TO

737  
00:24:11,316 --> 00:24:12,584

REALIGN THE ORGANIZATIONAL

738

00:24:12,651 --> 00:24:14,486

STRUCTURE TO BEST MEET THIS NEW

739

00:24:14,553 --> 00:24:15,353

EXPLORATION FOCUS.

740

00:24:15,420 --> 00:24:16,755

I HAVE ASKED STEVE THE CURRENT

741

00:24:16,822 --> 00:24:19,191

HEAD OF SPACE TECHNOLOGY MISSION

742

00:24:19,257 --> 00:24:20,559

DIRECTORATE TO LEAD HONEST TO

743

00:24:20,625 --> 00:24:22,360

DESIGN A NEW ORGANIZATIONAL

744

00:24:22,427 --> 00:24:22,961

APPROACH.

745

00:24:23,028 --> 00:24:23,962

TODAY WE ARE LOOKING AT TWO

746

00:24:24,029 --> 00:24:24,763

OPTIONS.

747

00:24:24,830 --> 00:24:26,431

A SINGLE-MISSION DIRECTORATE

748

00:24:26,498 --> 00:24:28,567

THAT INCLUDES THE LEO COMMERCIAL

749

00:24:28,633 --> 00:24:30,468

ACTIVITY I TALKED ABOUT, THE

750  
00:24:30,535 --> 00:24:31,703  
DEEP SPACE EXPLORATION I TALKED

751  
00:24:31,770 --> 00:24:32,971  
ABOUT AND THE EXPLORATION

752  
00:24:33,038 --> 00:24:34,973  
RESEARCH IN TECHNOLOGY.

753  
00:24:35,040 --> 00:24:36,808  
THE OTHER OPTION IS THE LEO

754  
00:24:36,875 --> 00:24:38,243  
COMMERCIAL IS BY ITSELF AND THE

755  
00:24:38,310 --> 00:24:39,511  
OTHER TWO ARE TOGETHER AS A

756  
00:24:39,578 --> 00:24:40,078  
MISSION DIRECTORATE.

757  
00:24:40,145 --> 00:24:41,446  
WE ARE GOING TO BE WORKING ON

758  
00:24:41,513 --> 00:24:42,981  
THROUGH THAT OVER THE NEXT FEW

759  
00:24:43,048 --> 00:24:44,182  
MONTHS TO SEE WHAT THE BEST

760  
00:24:44,249 --> 00:24:46,051  
OPTION IS GOING FORWARD AND EVEN

761  
00:24:46,117 --> 00:24:47,652  
HYBRIDS FROM THAT AS YOU CAN

762  
00:24:47,719 --> 00:24:48,086

IMAGINE.

763

00:24:48,086 --> 00:24:49,087

STEVE WILL BE LEAD THAT GO TO ME

764

00:24:49,154 --> 00:24:50,188

AND REPORTING BACK TO ME AS WE

765

00:24:50,255 --> 00:24:51,122

GO FORWARD.

766

00:24:51,189 --> 00:24:53,158

SO OVERALL FROM AN EXPLORATION

767

00:24:53,225 --> 00:24:54,693

PERSPECTIVE, A VERY EXCITING

768

00:24:54,759 --> 00:24:56,895

BUDGET.

769

00:24:56,962 --> 00:24:57,629

\$10.5 BILLION AND A LOT WE CAN

770

00:24:57,696 --> 00:24:59,731

DO AS AN AGENCY.

771

00:24:59,798 --> 00:25:01,299

I AM VERY EXCITED ABOUT THAT.

772

00:25:01,366 --> 00:25:03,201

NOW LET'S MOVE TO SCIENCE.

773

00:25:03,268 --> 00:25:04,903

THE SCIENCE -- OUR CRITICAL

774

00:25:04,970 --> 00:25:05,937

PORTFOLIO IN SCIENCE AND THE

775  
00:25:06,004 --> 00:25:08,640  
BUDGET PROPOSED THIS YEAR IS

776  
00:25:08,707 --> 00:25:10,475  
ROUGHLY \$5.9 BILLION.

777  
00:25:10,542 --> 00:25:12,777  
THE INCREDIBLE SCIENCE PORTFOLIO

778  
00:25:12,844 --> 00:25:14,012  
WILL CONTINUE TO INCREASE OUR

779  
00:25:14,079 --> 00:25:15,847  
UNDERSTANDING OF OUR PLANET.

780  
00:25:15,914 --> 00:25:18,350  
OUR PLACE IN THE UNIVERSE.

781  
00:25:18,416 --> 00:25:20,151  
PURSUE THOSE CIVILIZATION-LEVEL

782  
00:25:20,218 --> 00:25:21,386  
DISCOVERIES THAT OUR SCIENCE

783  
00:25:21,453 --> 00:25:22,921  
TEAM DOES SO OFTEN.

784  
00:25:22,988 --> 00:25:24,422  
SUCH AS WHETHER OR NOT THERE IS

785  
00:25:24,489 --> 00:25:25,724  
LIFE ELSEWHERE IN THE PLANET.

786  
00:25:25,790 --> 00:25:27,359  
OR OUT IN THE UNIVERSE.

787  
00:25:27,425 --> 00:25:29,094

AND SCOUT FOR KNOWLEDGE TO

788

00:25:29,160 --> 00:25:31,062

INFORM FUTURE HUMAN ADVANCEMENT

789

00:25:31,129 --> 00:25:32,097

IN SPACE.

790

00:25:32,163 --> 00:25:34,099

MARS ROVER SAMPLE RETURN

791

00:25:34,165 --> 00:25:35,233

MISSIONS, DIVERSE EARTH AND

792

00:25:35,300 --> 00:25:36,401

PLANETARY MINUTES AND SPACE

793

00:25:36,468 --> 00:25:37,736

CRAFT TO STUDY THE SUN AND HOW

794

00:25:37,802 --> 00:25:40,305

IT INFLUENCES THE VERY NATURE OF

795

00:25:40,372 --> 00:25:42,707

SPACE ARE THINGS WE'LL LEARN

796

00:25:42,774 --> 00:25:43,141

ABOUT.

797

00:25:43,141 --> 00:25:45,477

OUR WIDE-RANGING SCIENCE WORK IS

798

00:25:45,543 --> 00:25:47,145

ENABLED TO MANY FRONT.

799

00:25:47,212 --> 00:25:48,313

IN THIS BUDGET AND IT WILL

800  
00:25:48,380 --> 00:25:49,681  
CONTINUE TO LEAD THE WORLD IN

801  
00:25:49,748 --> 00:25:53,952  
ITS SIZE, SCOPE, AND SCIENTIFIC

802  
00:25:54,019 --> 00:25:56,354  
OUTPUT.

803  
00:25:56,421 --> 00:26:01,760  
ROBOTIC EXPLORATION CONTINUES.

804  
00:26:01,826 --> 00:26:04,195  
FUNDS TO GO EXPLORE THE

805  
00:26:04,262 --> 00:26:06,097  
POSSIBILITY OF RUNNING SAMPLES

806  
00:26:06,164 --> 00:26:24,349  
THERE MARS.

807  
00:26:37,262 --> 00:26:41,032  
THE SMALL LANDERS AND THE

808  
00:26:41,099 --> 00:26:42,867  
INTERMEDIATE LANDERS AS GET

809  
00:26:42,934 --> 00:26:43,434  
GOING.

810  
00:26:43,468 --> 00:26:44,269  
FOLLOW BY LADIES AND GENTLEMEN

811  
00:26:44,336 --> 00:26:50,742  
LANDERS THAT BEGIN

812  
00:26:50,809 --> 00:26:52,811

LUNAR, SOON AFTER POTENTIALLY

813

00:26:52,877 --> 00:26:55,213

THROUGH THE GATEWAY: PLATFORM

814

00:26:55,280 --> 00:26:57,349

GATEWAY THAT WE HAVE.

815

00:26:57,415 --> 00:26:58,650

THIS BUDGET ALSO CONTINUES TO

816

00:26:58,717 --> 00:27:00,518

FUND THE WORK OF OUR INCREDIBLE

817

00:27:00,585 --> 00:27:02,020

SCIENCES ACROSS THE COUNTRY.

818

00:27:02,087 --> 00:27:03,588

TO RESEARCH AND ANALYZE THE DATA

819

00:27:03,655 --> 00:27:05,423

COMING FROM OUR MANY SPACE

820

00:27:05,490 --> 00:27:05,990

CRAFT.

821

00:27:06,024 --> 00:27:07,425

THAT WE HAVE FLYING TODAY.

822

00:27:07,492 --> 00:27:09,227

AND DO TO LOOK AHEAD AT THE NEXT

823

00:27:09,294 --> 00:27:10,428

MISSIONS WE NEED TO ACCOMPLISH

824

00:27:10,495 --> 00:27:12,330

TO MEET THE MANY SCIENCE

825  
00:27:12,397 --> 00:27:13,999  
OBJECTIVES WE HAVE IN FRONT OF

826  
00:27:14,065 --> 00:27:14,366  
US.

827  
00:27:14,366 --> 00:27:16,301  
WE DID HAVE TO MAKE SOME HARD

828  
00:27:16,368 --> 00:27:17,902  
DECISIONS IN SCIENCE, THOUGH.

829  
00:27:17,969 --> 00:27:19,904  
AND THIS BUDGET PROPOSES

830  
00:27:19,971 --> 00:27:21,206  
CANCELING OUR "W" FIRST MISSION

831  
00:27:21,272 --> 00:27:22,774  
AND TAKING THOSE RESOURCES AND

832  
00:27:22,841 --> 00:27:26,711  
REDIRECTING THEM TO OTHER AGENCY

833  
00:27:26,778 --> 00:27:27,579  
PRIORITIES.

834  
00:27:27,645 --> 00:27:30,782  
IN AERONAUTICS, NASA'S STRENGTH

835  
00:27:30,849 --> 00:27:33,184  
IS THE NATIONAL ECONOMY AND

836  
00:27:33,251 --> 00:27:35,587  
TESTING OF NEW AERONAUTICS

837  
00:27:35,653 --> 00:27:36,888

## TECHNOLOGIES AND IT'S CRITICAL

838

00:27:36,955 --> 00:27:38,323

IN THESE AREAS FOR WHAT WE DO.

839

00:27:38,390 --> 00:27:39,824

I THINK THE BUDGET THIS YEAR

840

00:27:39,891 --> 00:27:41,526

WILL HELP US LEAD THE WORLD IN

841

00:27:41,593 --> 00:27:43,261

GLOBAL AVIATION, ECONOMY WITH

842

00:27:43,328 --> 00:27:44,829

INCREASED BENEFITS WORLDWIDE:

843

00:27:44,896 --> 00:27:47,232

THE BUDGET MAINTAINS A ROBUST

844

00:27:47,298 --> 00:27:50,402

INVESTMENT OF SIX-POINT --

845

00:27:50,468 --> 00:27:51,469

ROUGHLY \$634 MILLION.

846

00:27:51,536 --> 00:27:53,204

TO IMPROVE AIR TRAFFIC

847

00:27:53,271 --> 00:27:54,372

MANAGEMENT, MAKE PROGRESS

848

00:27:54,439 --> 00:27:55,440

INTEGRATING UNMANNED SYSTEMS IN

849

00:27:55,507 --> 00:27:56,775

TO THE AIRSPACE.

850  
00:27:56,841 --> 00:27:58,843  
AND TO FUND OUR EXPERIMENTAL

851  
00:27:58,910 --> 00:28:01,212  
SUPER SONIC AIRPLANE THE LOW

852  
00:28:01,279 --> 00:28:04,315  
BLOOM FLIGHT DEMONSTRATOR AND

853  
00:28:04,382 --> 00:28:05,617  
INCREASE RESEARCH IN THE AGENCY.

854  
00:28:05,683 --> 00:28:07,452  
ANOTHER EXCITING PROFILE FOR

855  
00:28:07,519 --> 00:28:08,453  
AERONAUTICS, EDUCATION.

856  
00:28:08,520 --> 00:28:09,287  
ANOTHER HARD CHOICE WE HAD TO

857  
00:28:09,354 --> 00:28:11,990  
MAKE WAS IN EDUCATION THE BUDGET

858  
00:28:12,057 --> 00:28:13,458  
REDIRECTS FUNDING FOR A NORMAL

859  
00:28:13,525 --> 00:28:14,726  
EDUCATION OFFICE TO OTHER

860  
00:28:14,793 --> 00:28:15,293  
PRIORITIES.

861  
00:28:15,326 --> 00:28:15,994  
HOWEVER THROUGH OUR AMAZING

862  
00:28:16,061 --> 00:28:17,262

MISSION THAT HIS WE DO, WE WILL

863

00:28:17,328 --> 00:28:18,730

MAINTAIN A HIGH LEVEL OF

864

00:28:18,797 --> 00:28:19,197

ENGAGEMENT.

865

00:28:19,197 --> 00:28:20,799

TO INSPIRE THE NEXT GENERATION

866

00:28:20,865 --> 00:28:22,567

TO PURSUE STEM, STUDIES AND JOIN

867

00:28:22,634 --> 00:28:23,902

US ON OUR JOURNEY OF DISCOVER

868

00:28:23,968 --> 00:28:25,303

FOY MANY YEARS TO COME.

869

00:28:25,370 --> 00:28:27,472

I WANT TO THANK MIKE KINKAID AND

870

00:28:27,539 --> 00:28:28,840

CHRIS BROWN WHO HAVE LED THE

871

00:28:28,907 --> 00:28:29,908

EFFORT FOR THIS BUDGET PROCESS

872

00:28:29,974 --> 00:28:31,643

IN THE EDUCATION OFFICE ACROSS

873

00:28:31,709 --> 00:28:33,378

THE WHOLE EDUCATION TEAM IN THE

874

00:28:33,445 --> 00:28:37,415

AGENCY FOR THEIR EFFORTS.

875

00:28:37,482 --> 00:28:38,817

LET'S TALK ABOUT THE

876

00:28:38,883 --> 00:28:40,051

INSTITUTIONAL PART THE SAFETY,

877

00:28:40,118 --> 00:28:41,886

SECURITY AND MISSION SERVICES

878

00:28:41,953 --> 00:28:45,356

AND THIS -- THE EN VIEMPLE THE

879

00:28:45,423 --> 00:28:46,691

REMUNERATION AND CONSTRUCTION

880

00:28:46,758 --> 00:28:47,792

BUDGET THAT WE HAVE.

881

00:28:47,859 --> 00:28:52,297

THIS BUDGETS FUNDS CONTINUING

882

00:28:52,363 --> 00:28:54,199

ONGOING NASA CENTERS TO ACHIEVE

883

00:28:54,265 --> 00:28:56,267

A SAFE AND HEALTHY WORKPLACE AND

884

00:28:56,334 --> 00:28:57,969

MAINTAIN FUNDING FOR THE

885

00:28:58,036 --> 00:28:58,703

INDEPENDENT TECHNICAL

886

00:28:58,770 --> 00:29:00,205

AUTHORITIES THAT PROVIDE US RISK

887

00:29:00,271 --> 00:29:01,806

REDUCK AS WE MOVE FORWARD WITH

888

00:29:01,873 --> 00:29:02,974

ALL OF OUR MISSIONS.

889

00:29:03,041 --> 00:29:05,043

IT ALSO STRENGTHENS OUR CYBER

890

00:29:05,110 --> 00:29:07,212

SECURITY CAPABILITIES.

891

00:29:07,278 --> 00:29:08,780

BY SAFEGUARDING CRITICAL DATA

892

00:29:08,847 --> 00:29:09,347

AND SYSTEMS.

893

00:29:09,347 --> 00:29:11,282

AN AREA THAT WE HAVE TO PLAY

894

00:29:11,349 --> 00:29:11,783

CLOSE ATTENTION TO.

895

00:29:11,783 --> 00:29:14,519

THE FUNDING LEVEL THERE IS

896

00:29:14,586 --> 00:29:16,454

ROUGHLY \$2.75 BILLION.

897

00:29:16,521 --> 00:29:17,489

AND OUR EFFORT THAT HIS WE HAVE

898

00:29:17,555 --> 00:29:19,157

HAD IN THE PAST TO REFORM AND

899

00:29:19,224 --> 00:29:20,892

OPTIMIZE THE AGENCY MISSION

900  
00:29:20,959 --> 00:29:22,160  
SUPPORT SERVICES WILL CONTINUE

901  
00:29:22,227 --> 00:29:23,862  
TO BE CRITICAL FOR THE LONG-TERM

902  
00:29:23,928 --> 00:29:26,397  
HEALTH OF OUR CENTER

903  
00:29:26,464 --> 00:29:27,365  
CAPABILITIES.

904  
00:29:27,432 --> 00:29:28,500  
IT'S ESSENTIAL THAT WE CONTINUE

905  
00:29:28,566 --> 00:29:30,869  
TO MAKE PROGRESS IN REDUCING OUR

906  
00:29:30,935 --> 00:29:32,604  
FACILITY FOOTPRINTS WITH THE

907  
00:29:32,670 --> 00:29:34,572  
GOAL OF REPLACING OLD AND

908  
00:29:34,639 --> 00:29:36,608  
OBSOLETE COSTLY FACILITIES WITH

909  
00:29:36,674 --> 00:29:38,376  
FEW MORE EFFICIENT FACILITIES,

910  
00:29:38,443 --> 00:29:40,311  
MARSHALL HAS DONE GREAT JOB WITH

911  
00:29:40,378 --> 00:29:42,380  
THAT IF YOU LOOK AT THE

912  
00:29:42,447 --> 00:29:42,947

CONSTRUCTION.

913

00:29:42,947 --> 00:29:43,447

BUILDINGS AROUND THERE.

914

00:29:43,448 --> 00:29:45,250

YOU CAN SEE A RETURN TO THAT

915

00:29:45,316 --> 00:29:46,751

INVESTMENT ANY TIME WE PUT A NEW

916

00:29:46,818 --> 00:29:47,785

FACILITY ANYWHERE IN THIS

917

00:29:47,852 --> 00:29:49,387

AGENCY, IT'S THE RIGHT THING DO.

918

00:29:49,454 --> 00:29:51,356

I APPLAUD THE WORK OF THE CENTER

919

00:29:51,422 --> 00:29:52,824

AND AGENCY FACILITY MASTER

920

00:29:52,891 --> 00:29:53,558

PLANNERS WHO REALLY HAVE

921

00:29:53,625 --> 00:29:58,296

IMMATERIMMATEREMBRACED THE VISIN

922

00:29:58,363 --> 00:29:59,931

INNOVATOR AND STRATEGICALLY

923

00:29:59,998 --> 00:30:01,733

ALIGNED MAST HE HAVE PLANS.

924

00:30:01,799 --> 00:30:03,668

I WANT TO THANKS ALL OF YOU

925  
00:30:03,735 --> 00:30:04,636  
CONTRIBUTING TO THE BUSINESS

926  
00:30:04,702 --> 00:30:06,137  
SERVICES ASSESSMENTS AND MORE

927  
00:30:06,204 --> 00:30:08,907  
CENT TO JANET PETRO'S

928  
00:30:08,973 --> 00:30:10,308  
ARCHITECTURE PROGRAM LOOKING AT

929  
00:30:10,375 --> 00:30:12,143  
ALL OF OUR FUNCTION TO HIS

930  
00:30:12,210 --> 00:30:13,344  
MODERNIZE, REGIONALIZE AND

931  
00:30:13,411 --> 00:30:14,879  
ELIMINATE DUPLICATION AND REALLY

932  
00:30:14,946 --> 00:30:16,814  
ACROSS THE GEOGRAPHIC BOUNDARIES

933  
00:30:16,881 --> 00:30:19,083  
WHERE POSSIBLE.

934  
00:30:19,150 --> 00:30:20,885  
NOW THESE EFFORTS ADMITTEDLY ARE

935  
00:30:20,952 --> 00:30:23,087  
NOT AS EXCITING AS AN ENGINE

936  
00:30:23,154 --> 00:30:25,089  
TEST, THEY ARE NOT AS EXCITING

937  
00:30:25,156 --> 00:30:27,392

AS A DISCOVERY FROM A SPACE

938

00:30:27,458 --> 00:30:29,527

CRAFT THAT WE HAVE OR A LAUNCH.

939

00:30:29,594 --> 00:30:31,596

BUT THEY ARE REALLY CRITICAL TO

940

00:30:31,663 --> 00:30:32,997

WHAT WE ARE DOING AS AN AGENCY

941

00:30:33,064 --> 00:30:34,566

TO GET MORE EFFICIENT AND MORE

942

00:30:34,632 --> 00:30:35,967

EFFECTIVE SO WE CAN TAKE THOSE

943

00:30:36,034 --> 00:30:37,268

RESOURCES AND PUMP THEM RIGHT

944

00:30:37,335 --> 00:30:41,940

BACK IN TO OUR MISSIONS.

945

00:30:42,006 --> 00:30:43,808

IN SUMMARY I BELIEVE THE BUDGET

946

00:30:43,875 --> 00:30:46,044

HAS STRONG ENGAGE FOR HIM ALL OF

947

00:30:46,110 --> 00:30:47,512

NASA, ACADEMIA, INDUSTRY AND,

948

00:30:47,579 --> 00:30:50,348

OUR INTERNATIONAL PARTNERS.

949

00:30:50,415 --> 00:30:52,217

IT IS TRULY THE AND SCENARIO

950  
00:30:52,283 --> 00:30:53,384  
THAT I TALK ABOUT SO MUCH.

951  
00:30:53,451 --> 00:30:54,786  
NOT THE OR.

952  
00:30:54,852 --> 00:30:56,487  
IT'S GOING TO TAKE ALL OF US TO

953  
00:30:56,554 --> 00:30:58,089  
DO THAT.

954  
00:30:58,156 --> 00:30:59,691  
WE HAD TO MAKE SOME HARD

955  
00:30:59,757 --> 00:31:01,559  
DECISIONS AS WE ALWAYS HAVE TO,

956  
00:31:01,626 --> 00:31:03,061  
THIS 29 BUDGET SETS THE STAGE

957  
00:31:03,127 --> 00:31:04,896  
FOR AN EXCITING DECADE OF THE

958  
00:31:04,963 --> 00:31:06,531  
2020s WHERE WE WILL TAKE OUR

959  
00:31:06,598 --> 00:31:08,967  
NEXT GIANT LEAP.

960  
00:31:09,033 --> 00:31:10,602  
TO DEMONSTRATE I BELIEVE -- TO

961  
00:31:10,668 --> 00:31:11,703  
DEMONSTRATE THAT I BELIEVE IT'S

962  
00:31:11,769 --> 00:31:12,770

USEFUL TO LOOK FORWARD TO THE

963

00:31:12,837 --> 00:31:14,639

END OF THE DECADE AND SEE WHAT

964

00:31:14,706 --> 00:31:16,608

WE CAN ACCOMPLISH WITH THIS

965

00:31:16,674 --> 00:31:17,041

BUDGET.

966

00:31:17,041 --> 00:31:18,309

SO IF YOU GO WITH ME HERE A

967

00:31:18,376 --> 00:31:19,877

LITTLE BIT, WE ARE GOING FOR

968

00:31:19,944 --> 00:31:22,247

FAST FORWARD TO 2030 AND LOOK

969

00:31:22,313 --> 00:31:22,680

BACK.

970

00:31:22,680 --> 00:31:23,715

AND I BELIEVE EVERYTHING THAT I

971

00:31:23,781 --> 00:31:27,285

AM GOING SAY IS PERFECTLY

972

00:31:27,352 --> 00:31:29,520

POSSIBLE WITH THIS BUDGET.

973

00:31:29,587 --> 00:31:30,888

IN EXPLORATION, WE WILL HAVE

974

00:31:30,955 --> 00:31:32,056

CREWS AND A GROWING NUMBER OF

975

00:31:32,123 --> 00:31:34,058

PEOPLE FROM ALL WALKS OF LIFE

976

00:31:34,125 --> 00:31:36,060

WORKING AROUND THE MOON.

977

00:31:36,127 --> 00:31:38,229

THE AND ON COMMERCIAL PLATFORMS

978

00:31:38,296 --> 00:31:39,998

IN LOWER EARTH ORBIT.

979

00:31:40,064 --> 00:31:41,566

WE'LL BE LEVERAGING OUR INDUSTRY

980

00:31:41,633 --> 00:31:43,001

PARTNERS TO PROVIDE SERVICES TO

981

00:31:43,067 --> 00:31:45,470

BOTH OF THE LUNAR VICINITY AND

982

00:31:45,536 --> 00:31:46,638

LOWER EARTH ORBIT.

983

00:31:46,704 --> 00:31:48,940

SLS AND ORION WILL BE

984

00:31:49,007 --> 00:31:50,775

TRANSPORTING CREWS TO THE LUNAR

985

00:31:50,842 --> 00:31:54,279

ORBITING PLATFORM GATEWAY AND TO

986

00:31:54,345 --> 00:31:56,414

AND FROM THE LUNAR SURFACE

987

00:31:56,481 --> 00:31:57,882

PREPARING FOR EVEN MORE FURTHER

988

00:31:57,949 --> 00:32:00,985

DEEP SPACE ON EXPLORATION.

989

00:32:01,052 --> 00:32:03,821

IN SIGNS, WE WILL HAVE UTILIZED

990

00:32:03,888 --> 00:32:05,356

OUR LUNAR SCOUTING MISSIONS AND

991

00:32:05,423 --> 00:32:06,758

PROSPECTING OF LUNAR RESOURCES

992

00:32:06,824 --> 00:32:08,493

WILL BE WELL UNDERWAY.

993

00:32:08,559 --> 00:32:10,695

SAMPLES WILL BE COLLECT ODD MARS

994

00:32:10,762 --> 00:32:12,497

AND WE'LL BE WELL ON OUR WAY TO

995

00:32:12,563 --> 00:32:15,900

BRINGING THEM BACK HOME.

996

00:32:15,967 --> 00:32:17,435

WE'LL HAVE DETERMINED IF WE CAN

997

00:32:17,502 --> 00:32:19,971

GENERATE OXYGEN FROM THE

998

00:32:20,038 --> 00:32:21,105

MARSHAWN ATMOSPHERE IN

999

00:32:21,172 --> 00:32:24,042

PREPARATION FOR HUMAN FUTURE

1000  
00:32:24,108 --> 00:32:25,143  
MISSIONS.

1001  
00:32:25,209 --> 00:32:27,111  
WE HAVE FOUND COUNTLESS ECHO

1002  
00:32:27,178 --> 00:32:29,180  
PLANETS FROM THE TELESCOPES AND

1003  
00:32:29,247 --> 00:32:31,449  
TESTS WE'LL HAVE EXPLORED EUROPE

1004  
00:32:31,516 --> 00:32:32,784  
A AND WELL ON OUR WAY OF

1005  
00:32:32,850 --> 00:32:34,385  
SPENDING A LANDER THERE, TO PRO

1006  
00:32:34,452 --> 00:32:36,254  
FOR POSSIBLE BIOLOGICAL EVIDENCE

1007  
00:32:36,321 --> 00:32:37,922  
OF LIFE ELSEWHERE IN OUR

1008  
00:32:37,989 --> 00:32:38,323  
UNIVERSE.

1009  
00:32:38,323 --> 00:32:40,591  
THE SCIENCE FROM THE PARKER

1010  
00:32:40,658 --> 00:32:41,326  
SOLAR PROBE.

1011  
00:32:41,392 --> 00:32:41,959  
SAY THAT FAST.

1012  
00:32:42,026 --> 00:32:43,227

WILL HAVE PROVIDED THE BEST

1013

00:32:43,294 --> 00:32:46,831

UNDERSTANDING OF OUR SUN EVER.

1014

00:32:46,898 --> 00:32:49,033

AND HOW SPACE WEATHER IMPACTS US

1015

00:32:49,100 --> 00:32:49,867

EACH DAY.

1016

00:32:49,934 --> 00:32:50,802

OUR CONTINUOUS UNDERSTANDING OF

1017

00:32:50,868 --> 00:32:52,937

THE EFFECT WILL HAVE EVOLVED

1018

00:32:53,004 --> 00:32:55,540

THANKS TO THE MINI SATELLITES

1019

00:32:55,606 --> 00:32:56,441

AND AIRCRAFT OF WE HAVE FEED ON

1020

00:32:56,507 --> 00:32:57,608

THE GROUND YOU ARE KNOWLEDGE AND

1021

00:32:57,675 --> 00:32:59,444

HELPING US MANAGE THIS

1022

00:32:59,510 --> 00:33:01,446

INCREDIBLY INCREASE BIG

1023

00:33:01,512 --> 00:33:03,314

INTERCONNECTED HOME PLANET.

1024

00:33:03,381 --> 00:33:05,750

FINALLY, OSIRIS REX WILL HAVE

1025  
00:33:05,817 --> 00:33:07,685  
RETURNED ITS SAMPLE FROM THE

1026  
00:33:07,752 --> 00:33:10,621  
ASTEROID AND PROVI PROVIDING USD

1027  
00:33:10,688 --> 00:33:12,256  
INSIGHT IN TO ANOTHER PLANETARY

1028  
00:33:12,323 --> 00:33:12,824  
BODY.

1029  
00:33:12,890 --> 00:33:14,592  
IN AERONAUTICS DRONES WILL BE

1030  
00:33:14,659 --> 00:33:16,694  
FULLY INTEGRATE ED IN THE

1031  
00:33:16,761 --> 00:33:18,830  
NATION'S AIRSPACE, BASED ON THE

1032  
00:33:18,896 --> 00:33:20,331  
SYSTEMS DEVELOPED BY NASA

1033  
00:33:20,398 --> 00:33:23,267  
RESEARCHERS FOR OUR FAA

1034  
00:33:23,334 --> 00:33:25,470  
PARTNERS.

1035  
00:33:25,536 --> 00:33:27,171  
THE URBAN AIR MOBILITY WILL BE

1036  
00:33:27,238 --> 00:33:28,339  
THE COMMON MODE OF

1037  
00:33:28,406 --> 00:33:29,507

TRANSPORTATION, YES, YOU'LL HAVE

1038

00:33:29,574 --> 00:33:30,341

YOUR JETTISON CAR.

1039

00:33:30,408 --> 00:33:32,276

AND A NEW FLEET OF SUPER SONIC

1040

00:33:32,343 --> 00:33:34,879

PASSENGER PLAYERS WILL BE IN THE

1041

00:33:34,946 --> 00:33:35,313

SKIES.

1042

00:33:35,313 --> 00:33:36,948

AND AT NASA AS AN INSTITUTION,

1043

00:33:37,014 --> 00:33:38,383

WE'LL HAVE A MUCH MORE

1044

00:33:38,449 --> 00:33:39,951

INTEGRATED AND EFFICIENT

1045

00:33:40,017 --> 00:33:41,586

FOOTPRINT AND WILL HAVE

1046

00:33:41,652 --> 00:33:43,388

TRANSFORMED OUR OPERATING MODEL

1047

00:33:43,454 --> 00:33:45,323

TO ALLOW REINVESTMENT OF

1048

00:33:45,390 --> 00:33:46,657

RESOURCES BACK IN TO THE MISSION

1049

00:33:46,724 --> 00:33:49,994

AND MISSION SUPPORT AREAS.

1050  
00:33:50,061 --> 00:33:53,431  
THIS IS WHAT WE CAN ACCOMPLISH

1051  
00:33:53,498 --> 00:33:54,532  
WITH THIS BUDGET.

1052  
00:33:54,599 --> 00:33:56,334  
NONE OF THIS IS OUT OF OUR

1053  
00:33:56,401 --> 00:33:56,734  
REACH.

1054  
00:33:56,734 --> 00:33:57,902  
AND IT'S GOING TO TAKE ALL OF

1055  
00:33:57,969 --> 00:34:00,037  
US, NASA, ACADEMIA, INDUSTRY,

1056  
00:34:00,104 --> 00:34:02,039  
OUR INTERNATIONAL PARTNERS, BUT

1057  
00:34:02,106 --> 00:34:04,242  
WE CAN DO THIS.

1058  
00:34:04,308 --> 00:34:05,576  
THE ADMINISTRATION HAS PROVIDED

1059  
00:34:05,643 --> 00:34:07,178  
US THAT VOTE OF CONFIDENCE

1060  
00:34:07,245 --> 00:34:08,479  
ENTRUSTING US WITH A VISION FOR

1061  
00:34:08,546 --> 00:34:12,183  
THE NATION'S GROWTH AND FUTURE.

1062  
00:34:12,250 --> 00:34:13,951

I WANT THE ENTIRE WORKFORCE

1063

00:34:14,018 --> 00:34:15,186

WHETHER YOU ARE OUT THERE

1064

00:34:15,253 --> 00:34:16,454

WATCHING OR HERE IN THE ROOM TO

1065

00:34:16,521 --> 00:34:18,022

KNOW HOW MUCH YOUR EFFORTS MEANT

1066

00:34:18,089 --> 00:34:20,291

TO NASA AND OUR ABILITY TO GAIN

1067

00:34:20,358 --> 00:34:21,492

THE CONFIDENCE AND WHERE YOU GET

1068

00:34:21,559 --> 00:34:22,894

TO PLAY IN ALL OF THOSE

1069

00:34:22,960 --> 00:34:24,028

ACCOMPLISHMENTS THAT I JUST

1070

00:34:24,095 --> 00:34:25,396

DESCRIBED THAT ARE COMING.

1071

00:34:25,463 --> 00:34:27,498

YOU ALWAYS COME THROUGH.

1072

00:34:27,565 --> 00:34:29,267

WE HAVE ONE MISSION SUCCESS

1073

00:34:29,333 --> 00:34:30,368

AFTER ANOTHER.

1074

00:34:30,435 --> 00:34:33,337

AND KEEP MOVING TOWARD THE NEXT

1075

00:34:33,404 --> 00:34:34,906

CHALLENGES TOGETHER.

1076

00:34:34,972 --> 00:34:36,841

AND BECAUSE OF THAT, I SAY THE

1077

00:34:36,908 --> 00:34:40,545

STATE OF FACE A IS STRONG.

1078

00:34:40,611 --> 00:34:55,426

[ APPLAUSE ]

1079

00:34:55,493 --> 00:34:56,661

>> IN CLOSING I WILL SHARE THIS.

1080

00:34:56,727 --> 00:34:58,629

WHAT WE DO IS GENE RAISAL.

1081

00:34:58,696 --> 00:35:02,533

AND AS OPERATIONAL.

1082

00:35:02,600 --> 00:35:04,168

IT MAKES US REACH HIGHER THAN WE

1083

00:35:04,235 --> 00:35:06,604

EVER THOUGHT WE COULD.

1084

00:35:06,671 --> 00:35:08,272

IT MAKES US PUSH THE LIMITS OF

1085

00:35:08,339 --> 00:35:10,107

OUR KNOWLEDGE AND IGNORE THE

1086

00:35:10,174 --> 00:35:11,209

SOMETIMES FALSE BOUNDARIES

1087

00:35:11,275 --> 00:35:12,810

BETWEEN POSSIBLE AND IMPOSSIBLE.

1088

00:35:12,877 --> 00:35:14,445

FOR ALL OF THAT, WHAT DO WE GET

1089

00:35:14,512 --> 00:35:16,214

IN RETURN?

1090

00:35:16,280 --> 00:35:17,381

SIMPLY AN OPPORTUNITY TO CHANGE

1091

00:35:17,448 --> 00:35:19,183

THE WORLD.

1092

00:35:19,250 --> 00:35:20,718

HOW COOL IS THAT.

1093

00:35:20,785 --> 00:35:24,222

THE YOU GET TO DO THAT EVERY

1094

00:35:24,288 --> 00:35:24,788

DAY.

1095

00:35:24,822 --> 00:35:26,491

IT'S TRULY AN HONOR TO LEAD THIS

1096

00:35:26,557 --> 00:35:27,492

INCREDIBLE TEAM AND I LOOK

1097

00:35:27,558 --> 00:35:28,559

FORWARD TO ACCOMPLISHING THESE

1098

00:35:28,626 --> 00:35:29,827

AMAZING MISSIONS WITH YOU.

1099

00:35:29,894 --> 00:35:31,229

WITH THE CONFIDENCE THIS BUDGET

1100

00:35:31,295 --> 00:35:32,430

PLACES IN NASA AND THE

1101

00:35:32,497 --> 00:35:35,099

CAPABILITIES OF OUR U.S.

1102

00:35:35,166 --> 00:35:36,167

INDUSTRY.

1103

00:35:36,234 --> 00:35:37,735

WE WILL SOLIDIFY AMERICAN

1104

00:35:37,802 --> 00:35:38,369

LEADERSHIP IN SPACE, THANK YOU

1105

00:35:38,436 --> 00:35:39,737

ALL FOR YOUR SERVICE TO NASA.

1106

00:35:39,804 --> 00:35:43,207

AND TO OUR NATION.

1107

00:35:43,274 --> 00:35:47,311

BEST OF LUCK TO ALL OF US, THANK