



AMES
 ARMSTRONG
 GLENN
 GODDARD
 JOHNSON
 JPL
 KENNEDY
 LANGLEY
 SHALL



STATE OF NASA



1
00:00:09,450 --> 00:00:17,000
>>> AT NASA LANGLEY I DEVELOP INFLATABLE
HEAT SHIELDS TO HELP US LAND

2
00:00:17,000 --> 00:00:20,919
HUMANS ON MARS.
>> I TEST SPACE CAPSULES SO

3
00:00:20,919 --> 00:00:26,680
ASTRONAUTS CAN LAND SAFELY IN
THE OCEAN.

4
00:00:26,680 --> 00:00:30,450
>> I IMAGINE, THEN ENGINEER
FAR-OUT MISSIONS TO EXPLORE THE

5
00:00:30,450 --> 00:00:36,260
SOLAR SYSTEM AND BEYOND.
>> AT NASA LANGLEY I DEVELOP

6
00:00:36,260 --> 00:00:40,230
SYSTEMS TO ACT SMARTER SO THEY
CAN ACT INDEPENDENTLY, EVEN IN

7
00:00:40,230 --> 00:00:49,530
OUTER SPACE.
>> AT NASA LANGLEY I PRODUCE

8
00:00:49,530 --> 00:00:55,620
ROBOTS.
>> AT NASA LANGLEY I ALLOW

9
00:00:55,620 --> 00:00:58,460
SATELLITES TO LINK TOGETHER TO
ALLOW FOR MORE FLEXIBLE

10
00:00:58,460 --> 00:01:03,750
CONSTRUCTION IN SPACE.
>> AT NASA LANGLEY I BUILD

11
00:01:03,750 --> 00:01:06,890
INSTRUMENTS THAT MONITOR AND
ATTRACT RECOVERY FROM THE OZONE

12
00:01:06,890 --> 00:01:10,229
LAYER FROM THE INTERNATIONAL
SPACE STATION.

13
00:01:10,229 --> 00:01:14,310
>> I STUDY HOW ACCURATELY WE
NEED TO MEASURE CLOUDS AND

14
00:01:14,310 --> 00:01:18,049
SATELLITES TO GET A BETTER IDEA
OF HOW CLIMATE IS CHANGING.

15
00:01:18,049 --> 00:01:20,530
>> SO WE CAN MAKE SMARTER AND
MORE COST EFFECTIVE DECISIONS

16
00:01:20,530 --> 00:01:25,549
ABOUT CLIMATE CHANGE.
>> I FLY AIRPLANES TO IMPROVE

17
00:01:25,549 --> 00:01:28,519
AVIATION TECHNOLOGY AND CLIMATE
SCIENCE.

18
00:01:28,519 --> 00:01:33,249
>> I TEST MODELS AT NASA LANGLEY
TO DESIGN PLANES THAT ARE

19
00:01:33,249 --> 00:01:37,090
QUIETER, MORE FUEL EFFICIENT,
AND PRODUCE FEWER EMISSIONS.

20
00:01:37,090 --> 00:01:41,100
>> AT NASA LANGLEY, I DEVELOP
ENVIRONMENTALLY FRIENDLY

21
00:01:41,100 --> 00:01:53,549
ELECTRIC AIRCRAFT THAT ARE GOING
TO TRANSFORM AVIATION.

22
00:01:53,549 --> 00:02:01,740
[APPLAUSE]
>> GOOD AFTERNOON.

23
00:02:01,740 --> 00:02:04,420
AND I'M DAVE, THE CENTER
DIRECTOR HERE AT NASA LANGLEY

24
00:02:04,420 --> 00:02:07,259
AND I HOPE YOU ENJOYED THE VIDEO
HIGHLIGHTING SOME OF THE GREAT

25
00:02:07,259 --> 00:02:10,340
THINGS WE DO HERE AT THE CENTER.
IT'S AN HONOR TO WELCOME YOU TO

26
00:02:10,340 --> 00:02:13,470
LANGLEY TODAY AND I'D LIKE TO
THANK ADMINISTRATOR CHARLIE

27
00:02:13,470 --> 00:02:18,590
BOLDEN FOR SELECTING US TO HOST
THE EVENT THE ANNUAL STATE OF

28
00:02:18,590 --> 00:02:21,739
THE AGENCY.
ESTABLISHED HERE IN HAMPTON,

29
00:02:21,739 --> 00:02:26,239
VIRGINIA, IN 1917, LANGLEY WAS
THE FIRST CIVILIAN AERONAUTICAL

30
00:02:26,239 --> 00:02:33,849
CENTER.
FOR NEARLY A CENTURY OUR HALLS

31
00:02:33,849 --> 00:02:37,799
AND LABS HAVE ECHOED WITH THE
GREAT PIONEERS AND THEIR

32
00:02:37,799 --> 00:02:41,590
TRIUMPHS THAT PAVED THE WAY FOR
OUR COUNTRY'S LEADERSHIP IN

33
00:02:41,590 --> 00:02:48,180
AEROSPACE, SCIENTIFIC DISCOVERY,
AND TECHNOLOGICAL BREAKTHROUGHS.

34
00:02:48,180 --> 00:02:51,930
WE'RE HOLDING TODAY'S EVENT FROM
LANGLEY'S RESEARCH HANGAR.

35
00:02:51,930 --> 00:02:55,379
RIGHT BEHIND ME YOU CAN SEE
SUSPENDED FROM THE CEILING THE

36
00:02:55,379 --> 00:02:58,209
HISTORIC RENDEZVOUS AND DOCKING
SIMULATOR.

37
00:02:58,209 --> 00:03:03,950
THIS IS WHERE IN THE 1960s THE
GEMINI AND APOLLO ASTRONAUTS

38
00:03:03,950 --> 00:03:06,890
PRACTICED DOING THE IN SPACE
DOCKING MANEUVER THAT WOULD

39
00:03:06,890 --> 00:03:11,840
ULTIMATELY LAND US ON THE MOON.
THIS IS JUST ONE OF THE MANY

40
00:03:11,840 --> 00:03:16,849
HISTORIC CONTRIBUTIONS LANGLEY
HAS MADE TO NASA AND OUR NATION,

41
00:03:16,849 --> 00:03:19,750
BUT AS PROUD AS WE ARE OF OUR
STORIED PAST, WE ARE ALSO

42
00:03:19,750 --> 00:03:25,069
PREPARING FOR A SOARING FUTURE.
JUST OUTSIDE IS THE CONSTRUCTION

43
00:03:25,069 --> 00:03:30,000
OF A NEW 40,000-SQUARE-FOOT
COMPUTATIONAL RESEARCH FACILITY

44
00:03:30,000 --> 00:03:32,500
THAT WILL HOUSE POWERFUL
COMPUTERS TO HELP PUSH THE

45
00:03:32,500 --> 00:03:35,950
BOUNDARIES OF MODELING AND
SIMULATION AND LATER THIS YEAR

46
00:03:35,950 --> 00:03:40,120
WE'LL BREAK GROUND ON A NEW
175,000 SQUARE FOOT STATE OF THE

47
00:03:40,120 --> 00:03:43,569
ART LABORATORY THAT WILL
INTEGRATE TEAMS ACROSS LANGLEY

48
00:03:43,569 --> 00:03:47,909
ALLOWING FOR SYSTEM ENGINEERING
SOLUTIONS THAT SPAN CONSTANT

49
00:03:47,909 --> 00:03:51,769
RESEARCH AND DEVELOPMENT.
WHAT WE DO IS SUPPORT EVERY NASA

50
00:03:51,769 --> 00:03:55,629
MISSION BUT NONE WOULD BE
POSSIBLE WITHOUT ALL OF YOU, THE

51
00:03:55,629 --> 00:03:58,219
PEOPLE THAT DO ALL THE GREAT
THINGS.

52
00:03:58,219 --> 00:04:00,930
IT'S A PRIVILEGE TRULY TO COME
TO WORK EVERY DAY AND BE

53
00:04:00,930 --> 00:04:05,030
SURROUNDED BY EMPLOYEES FULL OF
PASSION, CREATIVITY AND DESIRE

54
00:04:05,030 --> 00:04:09,099
TO MAKE OUR WORLD A BETTER PLACE
TODAY, A BETTER PLACE TO GO

55
00:04:09,099 --> 00:04:15,849
TOMORROW, AND FOR THE BENEFIT OF
ALL.

56
00:04:15,849 --> 00:04:27,290
\\MM
>> WE'RE ON A JOURNEY, A JOURNEY

57
00:04:27,290 --> 00:04:32,880
THAT STARTED WITH THE DREAMS AND
DETERMINATION OF MEN AND WOMEN

58
00:04:32,880 --> 00:04:35,920
AROUND THIS NATION.
A JOURNEY THAT SET COURSE FROM

59
00:04:35,920 --> 00:04:39,570
FLORIDA'S SPACE COAST, A JOURNEY
OF REAL INNOVATORS FROM

60
00:04:39,570 --> 00:04:43,610
CALIFORNIA'S SILICON VALLEY.
A VILLAGE OF EXPERIMENTATION

61
00:04:43,610 --> 00:04:47,480
SOARING ABOVE THE TIDE WATER
REJOP AND HIGH SOUTHERN DESERT

62
00:04:47,480 --> 00:04:52,360
OF CALIFORNIA.
ONE OF HUMAN KIND'S GREATEST

63
00:04:52,360 --> 00:04:55,790
ADVENTURES, A MAGNIFICENT
JOURNEY THAT TOOK VISION FROM

64
00:04:55,790 --> 00:05:01,190
TEXAS TO OHIO, FROM LOUISIANA TO
ALABAMA, AND FROM ALL AROUND

65
00:05:01,190 --> 00:05:04,870
THIS GREAT NATION.
>> THE START OF ANYTHING

66
00:05:04,870 --> 00:05:11,820
SUBSTANTIAL BEGINS WITH A DREAM.
FROM DREAMERS COME DOCUMENTS AND

67
00:05:11,820 --> 00:05:18,310
PLANS, ONWARD TO PROJECTS AND
FIELD TESTS.

68
00:05:18,310 --> 00:05:22,090
THAT MOMENT OF EXECUTION COMES
AS THE DREAM LIGHTS UP AND

69
00:05:22,090 --> 00:05:29,700
LITERALLY BURSTS INTO REALITY.
>> WELCOME TO NASA, WHERE EVERY

70
00:05:29,700 --> 00:05:32,530
DAY AT EVERY NASA CENTER THESE
DREAMS COME TRUE.

71
00:05:32,530 --> 00:05:35,770
>> IN OFFICES, CUBICLES,
HALLWAYS, HANGARS, AND CLEAN

72
00:05:35,770 --> 00:05:38,790
ROOMS.
>> ON LAUNCH PADS AND COCKPITS.

73
00:05:38,790 --> 00:05:41,390
>> DESK TOP OBSERVATORIES AND
CONTINUALLY.

74
00:05:41,390 --> 00:05:48,940
>> FOR MORE THAN 15 YEARS ABOARD
THE INTERNATIONAL SPACE STATION.

75
00:05:48,940 --> 00:05:55,830
>> INVESTMENTS IN NASA ARE
CREATING JOBS ACROSS AMERICA.

76
00:05:55,830 --> 00:05:57,840
>> INNOVATIVE JOBS THAT ARE
CRITICAL FOR OUR JOURNEY TO

77
00:05:57,840 --> 00:06:08,800
MARS.
>> JOBS THAT MAKE JOBS SAFER.

78
00:06:08,800 --> 00:06:12,890
>> OUR JOURNEY CONTINUES.
>> NOT AS A DREAM, BUT AS A

79
00:06:12,890 --> 00:06:14,870
REALITY.
>> WHERE WE SEE NEW HEIGHTS AND

80
00:06:14,870 --> 00:06:18,370
REVEAL THE UNKNOWN FOR THE
BENEFITS OF ALL HUMANKIND.

81
00:06:18,370 --> 00:06:20,210
>> EVERY DAY AND ON EVERY
PROJECT.

82
00:06:20,210 --> 00:06:23,240
>> WE ARE YOUR NATIONAL
AERONAUGHTICS AND SPACE

83
00:06:23,240 --> 00:06:28,990
ADMINISTRATION.
>> JOIN OUR JOURNEY AS WE INVEST

84
00:06:28,990 --> 00:06:39,440
IN YOUR FUTURE.
[APPLAUSE]

85
00:06:39,440 --> 00:06:50,990
>> ALL RIGHT, SO THERE'S ONE
PERSON IN PARTICULAR WHO

86
00:06:50,990 --> 00:06:54,470
PERSONIFIES THE PASSION YOU JUST
SAW IN THAT VIDEO FOR OUR

87
00:06:54,470 --> 00:06:56,750
PEOPLE, FOR OUR MISSION, AND OUR
FUTURE.

88
00:06:56,750 --> 00:06:59,890
AND IT'S NASA ADMINISTRATOR
CHARLIE BOLDEN.

89
00:06:59,890 --> 00:07:02,190
WHAT NASA DOES IS HARD, AND HARD
TAKES TIME.

90
00:07:02,190 --> 00:07:05,810
WHETHER WORKING ON THE JOURNEY
TO MARS OR BETTER UNDERSTANDING

91
00:07:05,810 --> 00:07:10,310
OF OUR CHANGING CLIMATE OR
MAKING AIRCRAFT QUIETER, SAFER,

92
00:07:10,310 --> 00:07:13,370
AND MORE EFFICIENT.
ADMINISTRATOR BOLDEN'S AND THE

93
00:07:13,370 --> 00:07:16,210
ADMINISTRATION'S FOCUS,
COMMITMENT, AND CONSISTENCY OF

94
00:07:16,210 --> 00:07:19,000
PURPOSE HAS PAVED THE WAY FOR
OUR SUCCESS.

95
00:07:19,000 --> 00:07:22,280
I PERSONALLY WANT TO THANK THE
ADMINISTRATOR FOR HIS SUPPORT.

96
00:07:22,280 --> 00:07:25,700
HIS PASSION AND VISION HAVE
HELPED ALL OF US, NOT ONLY ON

97
00:07:25,700 --> 00:07:28,830
DELIVER ON TODAY'S COMMITMENTS,
BUT ALSO PREPARE FOR THE

98
00:07:28,830 --> 00:07:31,800
CHALLENGES TOMORROW.
SO LADIES AND GENTLEMEN, MY

99
00:07:31,800 --> 00:07:35,140
GREAT HONOR NOW TO INTRODUCE THE
ADMINISTRATOR OF NASA, CHARLIE

100
00:07:35,140 --> 00:07:45,060
BOLDEN.
[APPLAUSE]

101
00:07:45,060 --> 00:07:50,020
AERONAUTIC

102
00:07:50,020 --> 00:07:53,050
>> THANKS VERY MUCH, DAVE, AND
THANKS FOR YOU COMING OUT TODAY

103
00:07:53,050 --> 00:07:57,650
BOTH HERE IN THIS HANGAR AND
ALSO ACROSS THE NATION AT OUR

104
00:07:57,650 --> 00:08:00,800
VARIOUS NASA CENTERS.
YOU KNOW, THIS HAS BEEN QUITE A

105
00:08:00,800 --> 00:08:03,890
YEAR FOR YOUR LANGLEY
MILESTONES.

106
00:08:03,890 --> 00:08:09,180
NOT THE LEAST OF WHICH IS THE
FACT THAT WE CAN NOW REFER TO MY

107
00:08:09,180 --> 00:08:15,480
FRIEND, OUR FRIEND, DAVE, AS
DIRECTOR DAVID BOLD, AS A RESULT

108
00:08:15,480 --> 00:08:20,140
OF MY DECISION TO BRING YOUR
FORMER DIRECTOR, NOT TO EVEN

109
00:08:20,140 --> 00:08:24,180
COUNT TAKING LISA ROWE AWAY
EARLIER.

110
00:08:24,180 --> 00:08:28,530
FROM GREAT PLACES AND GREAT
THINGS COME GREAT PEOPLE.

111

00:08:28,530 --> 00:08:33,110

JUST REMEMBER THAT, ALL RIGHT?
BUT BRINGING STEVE UP TO

112

00:08:33,110 --> 00:08:36,959

HEADQUARTERS TO SERVE AS THE
ASSOCIATED ADMINISTRATOR FOR THE

113

00:08:36,959 --> 00:08:40,880

SPACE TECHNOLOGY MISSION
DIRECTORATE, WHAT'S MORE,

114

00:08:40,880 --> 00:08:43,580

LANGLEY MARKED THE 95th
ANNIVERSARY OF THE FIRST

115

00:08:43,580 --> 00:08:47,130

FEDERALLY FUNDED WIND TUNNEL AND
YOU JOINED THE ENTIRE NASA

116

00:08:47,130 --> 00:08:51,370

FAMILY IN CELEBRATING THE 100th
ANNIVERSARY OF OUR PREDECESSOR,

117

00:08:51,370 --> 00:08:55,860

THE NACA.
I'D BE REMISS ALSO AS WE TALK

118

00:08:55,860 --> 00:09:01,140

ABOUT OUR PROGRESS FROM AIR TO
SPACE IF I DIDN'T MENTION THIS

119

00:09:01,140 --> 00:09:05,580

AMAZING CENTER IS PREPARING TO
CELEBRATE ITS 100th ANNIVERSARY

120

00:09:05,580 --> 00:09:12,079

NEXT YEAR.
WOW.

121

00:09:12,079 --> 00:09:17,230

[APPLAUSE]

THIS HAS BEEN QUITE A YEAR FOR

122

00:09:17,230 --> 00:09:21,530

AVIATION ANNIVERSARIES, AND I
THINK THERE'S A REAL PARALLEL

123

00:09:21,530 --> 00:09:25,260

BETWEEN THE BIRTH OF AVIATION
AND WHAT WE'RE EXPERIENCING

124

00:09:25,260 --> 00:09:28,380

TODAY IN TERMS OF COMMERCIAL
SPACE.

125

00:09:28,380 --> 00:09:31,440

BOTH ARE STORIES ABOUT HOW WE
WERE ABLE TO ACCOMPLISH GREAT

126

00:09:31,440 --> 00:09:35,680

THINGS WHEN WE COMBINED
STRATEGIC GOVERNMENT INVESTMENT

127

00:09:35,680 --> 00:09:39,630

AND RESEARCH WITH THE NATIVE
GENIUS OF AMERICAN INVENTORS AND

128

00:09:39,630 --> 00:09:42,580

INDUSTRIES.
SPEAKING OF ACCOMPLISHING GREAT

129

00:09:42,580 --> 00:09:47,480

THINGS, THIS YEAR ONE OF THE
GIANTS IN LANGLEY HISTORY

130

00:09:47,480 --> 00:09:50,940

RECEIVED THE PRESIDENTIAL MEDAL
OF FREEDOM, AND I'LL TRY NOT TO

131

00:09:50,940 --> 00:09:53,590

CHOK UP AS I TELL YOU THIS
STORY.

132

00:09:53,590 --> 00:09:56,880

SOME OF YOU MAY HAVE WORKED WITH
HER BEFORE.

133

00:09:56,880 --> 00:10:01,860

BEFORE HER RETIREMENT IN 1986
AFTER 33 YEARS OF SERVICE TO

134

00:10:01,860 --> 00:10:06,020

LANGLEY, TO NASA, AND TO THE
UNITED STATES OF AMERICA, HER

135

00:10:06,020 --> 00:10:10,380

NAME IS KATHERINE JOHNSON.
SHE'S AN AFRICAN-AMERICAN WOMAN

136

00:10:10,380 --> 00:10:14,930

WHO GREW UP DURING SEGREGATION
AT A TIME WHEN IT WASN'T EASY

137

00:10:14,930 --> 00:10:18,450

BREAKING INTO ENGINEERING EITHER
AS A WOMAN OR AS AN

138

00:10:18,450 --> 00:10:22,029

AFRICAN-AMERICAN.
KATHERINE JOINED LANGLEY IN THE

139

00:10:22,029 --> 00:10:26,480

NACA DAYS AND WENT ON TO PLAY A
ROLE IN VIRTUALLY EVERY MAJOR

140

00:10:26,480 --> 00:10:31,150

NASA SPACE MISSION FROM MERCURY
THROUGH THE SPACE SHUTTLE.

141

00:10:31,150 --> 00:10:35,160

SHE ALSO QUITE LITERALLY WROTE
THE TEXTBOOK ON ROCKET SCIENCE.

142

00:10:35,160 --> 00:10:39,630

NOW, I MENTIONED KATHERINE
JOHNSON FOR A REASON, ANDREW

143

00:10:39,630 --> 00:10:45,070

CARNEGIE ONCE SAID, AND I QUOTE,
"TAKE AWAY MY PEOPLE, BUT LEAVE

144

00:10:45,070 --> 00:10:50,180

MY FACTORIES AND SOON GRASS WILL
GROW ON THE FACTORY FLOORS.

145

00:10:50,180 --> 00:10:56,130

BUT TAKE AWAY MY FACTORIES AND
LEAVE MY PEOPLE AND SOON WE WILL

146

00:10:56,130 --> 00:11:01,800

HAVE NEW AND BETTER FACTORIES."
IT'S BECAUSE OF THE LEGACY OF

147

00:11:01,800 --> 00:11:06,029

NASA EMPLOYEES LIKE KATHERINE
JOHNSON, IT'S BECAUSE OF YOUR

148

00:11:06,029 --> 00:11:09,790

WORK HERE AT LANGLEY, IT'S
BECAUSE OF THE WORK OF YOUR

149

00:11:09,790 --> 00:11:14,100

COLLEAGUES AT OUR NASA CENTERS
AROUND THE COUNTRY.

150

00:11:14,100 --> 00:11:17,800

IT'S BECAUSE OF THE WORK OF OUR
CONTRACTORS AND OUR PARTNERS IN

151

00:11:17,800 --> 00:11:21,750

CLASSROOMS, BOARDROOMS,
LABORATORIES, AND EVEN GARAGES

152

00:11:21,750 --> 00:11:27,160

ACROSS OUR COUNTRY THAT THE
STATE OF OUR NASA IS AS STRONG

153

00:11:27,160 --> 00:11:31,420

AS IT'S EVER BEEN.
AND WHEN I SAY OUR, I REALLY

154

00:11:31,420 --> 00:11:34,290

MEAN IT.
BECAUSE OF THE WORK YOU AND YOUR

155

00:11:34,290 --> 00:11:41,800

NASA COLLEAGUES TO MAKE AVIATION
GREENER, CLEANER, SAFER, AND

156

00:11:41,800 --> 00:11:46,300

QUIETER, THE STATE OF OUR NASA
IS STRONG.

157

00:11:46,300 --> 00:11:48,360

BECAUSE†--
[APPLAUSE]

158

00:11:48,360 --> 00:11:57,560

BECAUSE NASA'S STUDY OF THE
COSMOS AND ROBOTIC EXPLORATION

159

00:11:57,560 --> 00:12:01,940

OF THE SOLAR SYSTEM IS UNLOCKING
THE MYSTERIES OF PLACES LIKE

160

00:12:01,940 --> 00:12:07,690

PLUTO, THE KUIPER BELT, JUPITER,
EUROPA, THE SUN, SATURN, HER

161

00:12:07,690 --> 00:12:13,210

MOONS, AND THE STARS, THE STATE
OF OUR NASA IS STRONG.

162

00:12:13,210 --> 00:12:16,550

BECAUSE NASA EARTH SCIENCE IS
TEACHING US ABOUT OUR OWN

163

00:12:16,550 --> 00:12:21,720

PLANET'S OCEANS, ATMOSPHERE,
SURFACE, ENERGY CYCLE, WATER

164

00:12:21,720 --> 00:12:27,880

CYCLE, CARBON CYCLE, WEATHER,
AND CHANGING CLIMATE, THE STATE

165

00:12:27,880 --> 00:12:32,650

OF OUR NASA IS STRONG.
BECAUSE ASTRONAUTS HAVE BEEN

166

00:12:32,650 --> 00:12:38,360

WORKING OFF THE EARTH, FOR THE
EARTH, FOR 15 CONTINUOUS YEARS

167

00:12:38,360 --> 00:12:41,720

ABOARD THE INTERNATIONAL SPACE
STATION AND THEY WILL BE THROUGH

168

00:12:41,720 --> 00:12:48,520

AT LEAST 2024, THE STATE OF OUR
NASA IS STRONG.

169

00:12:48,520 --> 00:12:51,770

IT'S ALSO STRONG BECAUSE OF THE
WORK THAT SO MANY IN OUR NASA

170

00:12:51,770 --> 00:12:55,370

FAMILY ARE DOING TO SUPPORT THE
STATION'S OPERATIONS AND

171

00:12:55,370 --> 00:12:59,380

SCIENTIFIC RESEARCH.

IT'S STRONG BECAUSE OUR

172

00:12:59,380 --> 00:13:02,350

COMMERCIAL PARTNERS ARE

TRANSFORMING THE U.S. SPACE

173

00:13:02,350 --> 00:13:07,180

INDUSTRY, OPENING UP NEW

MARKETS, AND REDUCING THE COST

174

00:13:07,180 --> 00:13:11,130

OF SPACE TRAVEL.

IT'S STRONG BECAUSE WE'RE

175

00:13:11,130 --> 00:13:15,510

LAUNCHING CARGO TO THE SPACE

STATION FROM AMERICAN SOIL AND

176

00:13:15,510 --> 00:13:19,100

PREPARING TO RETURN HUMAN SPACE

FLIGHT LAUNCHES TO THE U.S., AS

177

00:13:19,100 --> 00:13:24,580

WELL.

IN FACT, LAST YEAR WE ANNOUNCED

178

00:13:24,580 --> 00:13:29,880

THAT FOUR AMERICANS, BOB BINGEN,

SUNNY WILLIAMS, ERIC BEAU, AND

179

00:13:29,880 --> 00:13:34,500

DOUG HURLEY WILL BE THE FIRST

NASA ASTRONAUTS TO TRAIN AND FLY

180

00:13:34,500 --> 00:13:42,160

ON PRIVATELY OWNED SPACECRAFT.

THE STATE OF OUR NASA IS STRONG.

181
00:13:42,160 --> 00:13:44,850
BECAUSE OUR MOST RECENT
ASTRONAUT CLASS, FOR THE FIRST

182
00:13:44,850 --> 00:13:49,660
TIME IN HISTORY, HAS THE EQUAL
NUMBER OF FEMALES AND MALE

183
00:13:49,660 --> 00:13:52,089
CANDIDATES.
AND I WILL REMIND YOU, WE

184
00:13:52,089 --> 00:13:56,430
STARTED WITH A LITTLE OVER 6,300
APPLICANTS AND WE ENDED UP

185
00:13:56,430 --> 00:14:01,720
SELECTING EIGHT, FOUR WOMEN,
FOUR MEN, WHO ARE ABSOLUTELY

186
00:14:01,720 --> 00:14:08,390
INCREDIBLE.
[APPLAUSE]

187
00:14:08,390 --> 00:14:16,610
AND BECAUSE WE'RE ACCEPTING
APPLICATIONS TO
BLAZE A TRAIL TO

188
00:14:16,610 --> 00:14:20,260
MARS.
BECAUSE NASA AND OUR PARTNERS

189
00:14:20,260 --> 00:14:24,279
ARE DEVELOPING THE TECHNOLOGIES
THAT DRIVE BOTH EXPLORATION AND

190
00:14:24,279 --> 00:14:29,060
ECONOMIC GROWTH, I HAVE 1,600
MORE REASONS THAT THE STATE OF

191

00:14:29,060 --> 00:14:33,810

OUR NASA IS STRONG.

THE 1,600 NEW TECHNOLOGIES EVERY

192

00:14:33,810 --> 00:14:39,089

YEAR THAT WE DEVELOP AND THE

THOUSANDS OF PRODUCTS, SERVICES,

193

00:14:39,089 --> 00:14:42,690

AND PROCESSES THAT WE HELP

BUSINESSES TRANSFER INTO THE

194

00:14:42,690 --> 00:14:48,180

MARKETS FOR JOB CREATION AND

ECONOMIC GROWTH.

195

00:14:48,180 --> 00:14:52,540

WHILE WE'RE AT IT, THE STATE OF

OUR NATION IS STRONG BECAUSE

196

00:14:52,540 --> 00:14:56,050

MORE VENTURE CAPITAL WAS

INVESTED IN AMERICA'S SPACE

197

00:14:56,050 --> 00:15:04,860

INDUSTRY IN 2015 THAN IN ALL

PREVIOUS 15 YEARS COMBINED.

198

00:15:04,860 --> 00:15:09,210

MEANWHILE, BECAUSE FOR THE

FOURTH YEAR IN A ROW WE ARE THE

199

00:15:09,210 --> 00:15:13,490

NUMBER ONE RATED BEST PLACE TO

WORK IN THE FEDERAL GOVERNMENT.

200

00:15:13,490 --> 00:15:24,580

THE STATE OF OUR NASA IS STRONG.

[APPLAUSE]

201

00:15:24,580 --> 00:15:28,050

BECAUSE OUR PEOPLE ARE MAKING
STRIDES EVERY DAY TO ENCOURAGE

202

00:15:28,050 --> 00:15:33,560

MORE AMERICANS FROM UNDERSERVED
COMMUNITIES TO PURSUE CAREERS IN

203

00:15:33,560 --> 00:15:37,210

SCIENCE, TECHNOLOGY,
ENGINEERING, AND MATHEMATICS,

204

00:15:37,210 --> 00:15:41,279

THE STATE OF OUR NASA IS STRONG.
BECAUSE WE'RE HITTING OUR

205

00:15:41,279 --> 00:15:46,920

BENCHMARKS WITH NEW EXPLORATION
SYSTEMS LIKE THE ORION CREW

206

00:15:46,920 --> 00:15:51,350

VEHICLE, BECAUSE A NEW CONSENSUS
IS EMERGING IN THE SCIENTIFIC

207

00:15:51,350 --> 00:15:56,399

AND POLICY COMMUNITIES AROUND
OUR VISION, TIME TABLE, AND

208

00:15:56,399 --> 00:16:01,390

PLANNING FOR SENDING AMERICAN
ASTRONAUTS TO MARS IN THE 2030s.

209

00:16:01,390 --> 00:16:04,050

BECAUSE MORE AND MORE OUR
NEIGHBORS ARE FINDING NEW

210

00:16:04,050 --> 00:16:09,560

MEANINGS IN THE WORDS "MARS
MATTERS."

211

00:16:09,560 --> 00:16:14,020

AND BECAUSE WE ARE CLOSER TODAY
THAN EVER BEFORE IN HUMAN

212

00:16:14,020 --> 00:16:19,630

HISTORY, IN HUMAN HISTORY, TO
SENDING AMERICAN ASTRONAUTS TO

213

00:16:19,630 --> 00:16:29,649

THE RED PLANET.
THE STATE OF OUR NASA IS STRONG.

214

00:16:29,649 --> 00:16:36,140

[APPLAUSE]
BECAUSE THE STATE OF OUR NASA IS

215

00:16:36,140 --> 00:16:40,480

STRONG, PRESIDENT OBAMA IS
RECOMMENDING A \$19 BILLION

216

00:16:40,480 --> 00:16:43,850

BUDGET FOR THE NEXT YEAR TO
CARRY OUT OUR AMBITIOUS

217

00:16:43,850 --> 00:16:47,300

EXPLORATION AND SCIENTIFIC
DISCOVERY PLANS.

218

00:16:47,300 --> 00:16:53,010

IN FACT, OVER HIS TENURE,
PRESIDENT OBAMA HAS NOW INVESTED

219

00:16:53,010 --> 00:16:58,930

A \$147 BILLION IN AMERICA'S
SPACE PROGRAM.

220

00:16:58,930 --> 00:17:02,890

OUR ELECTED LEADERS ON A
BIPARTISAN BASIS HAVE CHOSEN TO

221

00:17:02,890 --> 00:17:07,240

MAKE THIS INVESTMENT IN OUR
AGENCY BECAUSE THEY BELIEVE

222

00:17:07,240 --> 00:17:11,799

NASA'S JOURNEY TO MARS AND THEY
RECOGNIZE THAT INVESTMENT IN

223

00:17:11,799 --> 00:17:17,759

NASA'S PRESENT ARE INVESTMENTS
IN AMERICA'S, IN OUR FUTURE.

224

00:17:17,759 --> 00:17:20,909

A FUTURE WHERE WE SEND AMERICAN
ASTRONAUTS TO MARS IN THE 2030s.

225

00:17:20,909 --> 00:17:26,649

A FUTURE WHERE MORE AMERICANS
ARE MAKING A GOOD LIVING WORKING

226

00:17:26,649 --> 00:17:31,509

IN STEM-BASED CAREERS THAT PAY
WELL AND CONTRIBUTE TO OUR

227

00:17:31,509 --> 00:17:36,710

GLOBAL ECONOMIC COMPETITIVENESS,
AND WHEN I SAY MORE AMERICANS, I

228

00:17:36,710 --> 00:17:42,119

MEAN ALL AMERICANS.
INCLUDING WOMEN AND MINORITIES,

229

00:17:42,119 --> 00:17:45,860

WHO ARE UNDERREPRESENTED IN
THESE FIELDS TODAY.

230

00:17:45,860 --> 00:17:50,360

A FUTURE WHERE OUR CHILDREN AND
GRANDCHILDREN, SPECIAL TO ME, MY

231

00:17:50,360 --> 00:17:55,169

THREE GRANDDAUGHTERS, BREATHE
CLEANER AIR, DRINK CLEANER

232

00:17:55,169 --> 00:18:00,220

WATER, AND FLY ON CLEANER,
GREENER, MORE FUEL EFFICIENT

233

00:18:00,220 --> 00:18:03,480

AIRCRAFT.
A FUTURE WHERE HUMANKIND HAS A

234

00:18:03,480 --> 00:18:08,220

DEEPER UNDERSTANDING OF OUR
UNIVERSE, OUR PLACE IN IT, AND

235

00:18:08,220 --> 00:18:11,869

OUR OWN PLANET.
IF YOU TAKE A STEP BACK FOR A

236

00:18:11,869 --> 00:18:15,179

MOMENT AND REFLECT ON WHAT
NASA'S WORK MEANS TO OUR

237

00:18:15,179 --> 00:18:20,600

EVERYDAY LIVES HERE ON EARTH,
IT'S VERY CLEAR TO ME THAT EVERY

238

00:18:20,600 --> 00:18:26,179

AMERICAN BENEFITS IN SOME WAYS
FROM NASA'S JOURNEY TO MARS.

239

00:18:26,179 --> 00:18:33,190

THINK ABOUT IT, AS WE SPEAK,
THERE ARE AMERICANS WHO ARE

240

00:18:33,190 --> 00:18:38,159

WORKING TODAY IN VIRTUALLY EVERY
STATE IN JOBS THAT ARE FUNDED BY

241

00:18:38,159 --> 00:18:42,309

NASA INVESTMENTS.

THINK OF WHAT IT MEANS TO A

242

00:18:42,309 --> 00:18:48,179

YOUNG GIRL OR BOY WHO IS ABLE TO
GO TO SCHOOL WITH A FULL STOMACH

243

00:18:48,179 --> 00:18:52,019

AND DECENT SCHOOL SUPPLIES
BECAUSE THEIR PARENTS HAVE GOOD

244

00:18:52,019 --> 00:18:55,399

JOBS.

THINK OF WHAT IT MEANS TO THE

245

00:18:55,399 --> 00:19:01,369

PERSON WHO RUNS A DELI NEXT TO
ONE OF MORE THAN 1,000 COMPANIES

246

00:19:01,369 --> 00:19:05,669

WORKING IN SUPPORT OF NASA'S
COMMERCIAL SPACE ENDEAVORS.

247

00:19:05,669 --> 00:19:11,649

BEYOND THAT, THINK OF WHAT
INVESTMENTS IN NASA MEANS TO

248

00:19:11,649 --> 00:19:15,889

SOMEONE WHOSE HUSBAND OR WIFE IS
ALIVE TODAY THANKS TO

249

00:19:15,889 --> 00:19:19,220

NASA-DRIVEN ADVANCES IN
MEDICINE.

250

00:19:19,220 --> 00:19:24,470

TO A GRANDPARENT WHOSE GRANDKIDS
ARE DRIVING OVER TO THEIR HOMES

251

00:19:24,470 --> 00:19:29,730

GUIDED BY GPS ON SAFER TIRES AND
SAFER HIGHWAYS.

252

00:19:29,730 --> 00:19:33,509

TO A BABY WHO IS EATING SAFER
FOODS.

253

00:19:33,509 --> 00:19:37,100

TO A FAMILY GATHERED AROUND THE
TELEVISION SET WATCHING A MOVIE

254

00:19:37,100 --> 00:19:41,519

DELIVERED TO EARTH VIA SATELLITE
SIGNAL.

255

00:19:41,519 --> 00:19:45,309

THINK OF WHAT IT MEANS TO A
COMMUNITY WHEN NASA TECHNOLOGIES

256

00:19:45,309 --> 00:19:49,230

ARE USED TO PURIFY THEIR
DRINKING WATER OR LISTEN FOR

257

00:19:49,230 --> 00:19:54,830

BEATING HEARTS IN THE RUBBLE
AFTER A NATURAL DISASTER.

258

00:19:54,830 --> 00:19:58,509

ONE OF THE MOST FORTUITOUS
THINGS ABOUT INVESTMENTS IN NASA

259

00:19:58,509 --> 00:20:03,649

IS THAT WE LEVERAGE THEM.
WE ARE ABLE TO WALK AND CHEW GUM

260

00:20:03,649 --> 00:20:07,399

AT THE SAME TIME.
NOT EVERYBODY CAN DO THAT.

261

00:20:07,399 --> 00:20:10,850

WHAT I MEAN BY THAT IS, WE'RE
ABLE TO ACHIEVE ALL THESE

262

00:20:10,850 --> 00:20:15,419

EARTHLY BENEFITS WHILE STILL
PUSHING FARTHER OUT INTO THE

263

00:20:15,419 --> 00:20:18,639

UNIVERSE.
WHILE MOVING CLOSER TO SENDING

264

00:20:18,639 --> 00:20:22,960

HUMANS TO MARS, AND TO ANSWERING
SOME OF THE OLDEST QUESTIONS IN

265

00:20:22,960 --> 00:20:27,330

THE HISTORY OF CIVILIZATION,
INCLUDING THE QUESTION OF

266

00:20:27,330 --> 00:20:30,850

WHETHER WE ARE ALONE IN THIS
UNIVERSE.

267

00:20:30,850 --> 00:20:34,940

THIS IS WHAT WE MEAN BY REACHING
NEW HEIGHTS FOR THE BENEFIT OF

268

00:20:34,940 --> 00:20:38,609

ALL HUMANKIND.
THE INVESTMENTS IN THE

269

00:20:38,609 --> 00:20:44,289

PRESIDENT'S FY-2017 BUDGET
PROPOSAL ANNOUNCED TODAY WILL

270

00:20:44,289 --> 00:20:48,269

EMPOWER THE PEOPLE OF NASA TO
IMPROVING OUR QUALITY OF LIFE

271

00:20:48,269 --> 00:20:52,179

TODAY AND PREPARING TO SEND
AMERICAN ASTRONAUTS TO MARS IN

272

00:20:52,179 --> 00:20:55,489

THE 2030s.
WE'LL CONTINUE TO MAKE GREAT

273

00:20:55,489 --> 00:21:00,269

PROGRESS ON THE SPACE LAUNCH
SYSTEM OR SLS ROCKET, AND WE'RE

274

00:21:00,269 --> 00:21:03,690

PREPARING FOR A SECOND SERIES OF
ENGINE TESTS.

275

00:21:03,690 --> 00:21:07,739

AT THE KENNEDY SPACE CENTER, OUR
TEAM WILL OUTFIT ORION'S CREW

276

00:21:07,739 --> 00:21:10,850

MODULE WITH THE SPACECRAFT'S
HEAT SHIELDING THERMAL

277

00:21:10,850 --> 00:21:17,139

PROTECTION SYSTEMS, AVIONICS AND
ELECTRICAL POWER STORAGE, CABIN

278

00:21:17,139 --> 00:21:22,600

PRESSURE CONTROL, AND FLIGHT
SOFTWARE, TO NAME JUST A FEW.

279

00:21:22,600 --> 00:21:26,519

DIRECT FIELD ACOUSTIC TESTING
WILL BE COMPLETED IN COLORADO.

280

00:21:26,519 --> 00:21:31,149

STRUCTURAL INTEGRITY TESTS WILL
BE PERFORMED AT GLEN, WHICH

281

00:21:31,149 --> 00:21:36,299

CELEBRATED ITS 75th ANNIVERSARY
THIS YEAR, AND SPLASH DOWN TEST,

282

00:21:36,299 --> 00:21:43,090

AS I SAW THIS MORNING, WILL BE
PERFORMED RIGHT HERE AT LANGLEY.

283

00:21:43,090 --> 00:21:47,690

AT THE SAME TIME, WE'LL CONTINUE
TO WORK WITH PARTNERS BOTH IN

284

00:21:47,690 --> 00:21:51,619

AND OUT OF GOVERNMENT TO DEVELOP
THE TECHNOLOGIES THAT DRIVE

285

00:21:51,619 --> 00:21:55,559

EXPLORATION, CREATE JOBS, AND
CONTINUE TO MAKE LAUNCHES MORE

286

00:21:55,559 --> 00:21:58,509

AFFORDABLE.
FROM SMALL SATELLITES, TO

287

00:21:58,509 --> 00:22:01,869

HUMANOID ROBOTS, TO GREEN
PROPELLANTS AND ADVANCED

288

00:22:01,869 --> 00:22:05,830

NAVIGATION SYSTEMS, OUR
COLLEAGUES ARE WORKING ON WHAT

289

00:22:05,830 --> 00:22:11,489

WILLIAM SHAKESPEARE WOULD CALL
SUCH STUFF AS DREAMS ARE MADE

290

00:22:11,489 --> 00:22:15,570

OF.
IN THE COMING YEAR, WE'LL TEST

291

00:22:15,570 --> 00:22:20,009

AND EXPANDABLE SPACE HABITAT
ABOARD THE SPACE STATION THAT

292

00:22:20,009 --> 00:22:22,980

CAN LAY THE GROUNDWORK FOR
GIVING OUR ASTRONAUTS A PLACE TO

293

00:22:22,980 --> 00:22:26,869

LIVE DURING LONG DURATION SPACE
STATIONS.

294

00:22:26,869 --> 00:22:31,129

SPEAKING OF THE SPACE STATION,
IN MARCH SCOTT KELLY WILL RETURN

295

00:22:31,129 --> 00:22:35,970

HOME FROM HIS YEAR IN SPACE.
THE FIRST EVER BY AN AMERICAN

296

00:22:35,970 --> 00:22:39,840

ASTRONAUT.
IN MARCH, ASTRONAUT JEFF

297

00:22:39,840 --> 00:22:45,239

WILLIAMS WILL BECOME THE FIRST
AMERICAN TO SPEND THREE, THREE

298

00:22:45,239 --> 00:22:50,340

LONG DURATION EXPEDITIONS ABOARD
THE INTERNATIONAL SPACE STATION.

299

00:22:50,340 --> 00:22:55,509

IN MAY, ASTRONAUT KEITH RUBENS
LAUNCHING TO THE ISS AND PLANS

300

00:22:55,509 --> 00:23:00,690

TO BECOME THE FIRST PERSON TO
PERFORM DNA SEQUENCING IN SPACE

301

00:23:00,690 --> 00:23:04,039

AFTER SHE ARRIVES AT THE
STATION.

302

00:23:04,039 --> 00:23:08,109

IN NOVEMBER, USA NAUGHT PEGGY
WOODSON, ONCE ONE OF MY

303

00:23:08,109 --> 00:23:16,009

PRINCIPAL INVESTIGATORS, WILL
ADD TO THE 192 DAYS SHE'S

304

00:23:16,009 --> 00:23:23,590

ALREADY LOGGED IN SPACE AND
BECOME THE ONLY, THE ONLY WOMAN

305

00:23:23,590 --> 00:23:29,429

TO FLY TWO MISSIONS ON THE ISS.
NEXT YEAR WE'LL ANNOUNCE A NEW

306

00:23:29,429 --> 00:23:33,159

TEAM OF ASTRONAUT CANDIDATES,
THE NEXT GENERATION OF SPACE

307

00:23:33,159 --> 00:23:37,889

EXPLORERS WHO WILL LEAVE PLANET
EARTH FROM U.S. SOIL AND CARRY

308

00:23:37,889 --> 00:23:42,080

OUT MISSIONS TO ADVANCE
AMERICA'S JOURNEY TO MARS.

309

00:23:42,080 --> 00:23:46,470

MEANWHILE, AS WE BROADEN THE
ROBOTIC EXPLORATION OF OUR SOLAR

310

00:23:46,470 --> 00:23:50,109

SYSTEM AND BEYOND, THIS YEAR
WILL BRING US A LOT OF

311

00:23:50,109 --> 00:23:54,229

EXCITEMENT.

JUNO'S ARRIVAL AT JUPITER,

312

00:23:54,229 --> 00:23:58,970

FURTHER PROGRESS ON THE JAMES

WEBB SPACE TELESCOPE, MISSIONS

313

00:23:58,970 --> 00:24:04,999

TO STUDY COSMIC RAYS AND NEUTRON

STARS, AND THE LAUNCH OF OSIRIS

314

00:24:04,999 --> 00:24:08,450

REX, THE FIRST U.S. SPACECRAFT

TO COLLECT SAMPLES FROM AN

315

00:24:08,450 --> 00:24:13,159

ASTROID AND RETURN THEM HOME TO

EARTH.

316

00:24:13,159 --> 00:24:16,830

HERE ON EARTH WE'LL MOVE CLOSER

TOWARD MAKING THE NEXT

317

00:24:16,830 --> 00:24:20,669

GENERATION OF AIR TRAFFIC

MANAGEMENT A REALITY.

318

00:24:20,669 --> 00:24:25,320

WE'LL CONTINUE YOUR WORK TO MAKE

FLIGHT EVEN SAFER, TO MAKE IT

319

00:24:25,320 --> 00:24:31,509

QUIETER, AND THROUGH A HEALTHY

INVESTMENT IN AERONAUTICS, WE'LL

320

00:24:31,509 --> 00:24:37,639

MAKE IT CLEANER AND GREENER.

WE'LL ACCELERATE AVIATION ENERGY

321

00:24:37,639 --> 00:24:43,609

EFFICIENCY, WE'LL TRANSFORM
PROPULSION SYSTEMS AND ENABLE

322

00:24:43,609 --> 00:24:47,070

IMPROVEMENTS IN AVIATION
MOBILITY.

323

00:24:47,070 --> 00:24:51,200

AFTER SIX YEARS OF CUTTING EDGE
RESEARCH, WE'VE LEARNED THAT WE

324

00:24:51,200 --> 00:24:56,479

COULD SAVE THE COMMERCIAL
AIRLINE INDUSTRY AS MUCH AS \$255

325

00:24:56,479 --> 00:25:04,080

BILLION, THAT'S BILLION, WITH A
"B" DOLLARS OVER 25 YEARS, AND

326

00:25:04,080 --> 00:25:09,940

THESE FINDINGS CAME BEFORE THIS
INVESTMENT IN AVIATION.

327

00:25:09,940 --> 00:25:14,210

MORE IMPORTANTLY, WE MIGHT JUST
HELP SAVE OUR PLANET FROM THE

328

00:25:14,210 --> 00:25:19,379

EFFECTS OF OUR CHANGING CLIMATE.
SPEAKING OF EARTH, THE MOST

329

00:25:19,379 --> 00:25:23,879

IMPORTANT PLANET, THE NEXT YEAR
WILL SEE A CONTINUATION OF OUR

330

00:25:23,879 --> 00:25:28,309

IMPORTANT WORK ON EARTH SCIENCE
TAKE SHAPE, INCLUDING OCEAN

331

00:25:28,309 --> 00:25:32,169

OBSERVATIONS THAT WILL ALLOW US
TO TRACK THE RISE OF GLOBAL SEA

332

00:25:32,169 --> 00:25:37,159

LEVELS AND BETTER FORECAST THE
STRENGTH OF HURRICANES, TIDES,

333

00:25:37,159 --> 00:25:40,809

AND CURRENTS.
AS I WRAP UP, I WANT TO MAKE ONE

334

00:25:40,809 --> 00:25:44,879

FINAL POINT.
AMONG THE BIG ANNIVERSARIES WE

335

00:25:44,879 --> 00:25:48,710

CELEBRATED THIS YEAR, WE ALSO
MARKED FIVE YEARS SINCE

336

00:25:48,710 --> 00:25:52,539

PRESIDENT OBAMA LAID OUT HIS
PLAN FOR NASA AND FOR A JOURNEY

337

00:25:52,539 --> 00:25:56,440

TO MARS THAT WILL TAKE AMERICAN
ASTRONAUTS TO THE RED PLANET IN

338

00:25:56,440 --> 00:25:59,649

THE 2030s.
I MENTIONED EARLIER THAT THERE'S

339

00:25:59,649 --> 00:26:04,690

A BIPARTISAN CONSENSUS EMERGING
AROUND THIS PLAN AND TIME TABLE,

340

00:26:04,690 --> 00:26:08,950

AND IT'S A CONSENSUS THAT
EXTENDS FAR BEYOND WASHINGTON TO

341

00:26:08,950 --> 00:26:13,899

THE VARIOUS CORNERS OF SCIENCE,
POLICY, HIGHER LEARNING,

342

00:26:13,899 --> 00:26:19,450

INDUSTRY, NONPROFITS, CITIZEN
SCIENTISTS, AND SO FORTH.

343

00:26:19,450 --> 00:26:26,080

LESS OFTEN ARE FOLK ASKING, WHY
AREN'T YOU DOING THINGS MY WAY,

344

00:26:26,080 --> 00:26:30,039

OR IS MARS THE RIGHT
DESTINATION?

345

00:26:30,039 --> 00:26:36,239

RATHER TODAY THEY ARE ASKING,
HOW CAN WE BE A PART OF THIS?

346

00:26:36,239 --> 00:26:40,350

AND WHAT ARE SOME OF THE AREAS
IN WHICH WE CAN WORK TOGETHER?

347

00:26:40,350 --> 00:26:46,450

I LIKE TO THINK THAT†-- I LIKE
TO THINK THAT PART OF THIS IS

348

00:26:46,450 --> 00:26:51,609

BECAUSE OUR PLAN IS CLEAR,
AFFORDABLE, SUSTAINABLE, AND

349

00:26:51,609 --> 00:26:55,080

ATTAINABLE.
ANOTHER REASON IS SIMPLY BECAUSE

350

00:26:55,080 --> 00:26:58,820

MARS MATTERS.
MARS DOES MATTER.

351

00:26:58,820 --> 00:27:02,820

I SPENT A LOT OF TIME TODAY
TALKING ABOUT THE FUTURE.

352

00:27:02,820 --> 00:27:07,369

OUR IMMEDIATE FUTURE AND THE
DECADES AHEAD, BUT THROUGH THIS,

353

00:27:07,369 --> 00:27:10,009

THE ONLY THING WE CAN HOPE TO
KNOW FOR CERTAIN ABOUT OUR

354

00:27:10,009 --> 00:27:14,889

FUTURE IS THAT IT'S UNCERTAIN.
GROWING UP IN THE SEGREGATED

355

00:27:14,889 --> 00:27:18,989

SOUTH, I NEVER DREAMED MY OWN
JOURNEY WOULD TAKE ME TO THE

356

00:27:18,989 --> 00:27:23,909

UNITED STATES MARINE CORPS AS A
COMBAT PILOT, LET ALONE TO SPACE

357

00:27:23,909 --> 00:27:30,299

OR TO THAT MYSTERIOUS PLANET
KNOWN AS WASHINGTON, D.C.

358

00:27:30,299 --> 00:27:34,849

I CERTAINLY NEVER THOUGHT IT
WOULD TAKE ME TO THE

359

00:27:34,849 --> 00:27:38,470

ADMINISTRATION OF THE FIRST
BLACK PRESIDENT.

360

00:27:38,470 --> 00:27:43,840

OR TO BE ADMINISTRATOR OF NASA
AT A TIME WHEN OUR PEOPLE ARE

361

00:27:43,840 --> 00:27:47,879

PREPARING TO RETURN HUMAN SPACE
LAUNCHES TO AMERICAN SOIL AND

362

00:27:47,879 --> 00:27:52,070

LAYING THE FOUNDATION FOR A
JOURNEY TO MARS.

363

00:27:52,070 --> 00:27:57,629

WHILE OUR FUTURE IS UNKNOWN, WE
CAN SAY WITH A GREAT DEAL OF

364

00:27:57,629 --> 00:28:03,139

CERTAINTY THAT INVESTMENTS IN
NASA'S TODAY ARE INVESTMENTS IN

365

00:28:03,139 --> 00:28:07,710

OUR CHILDREN'S AND
GRANDCHILDREN'S TOMORROW.

366

00:28:07,710 --> 00:28:12,899

ULTIMATELY, THIS TOMORROW WILL
BE SHAPED BY THE CHOICES MADE BY

367

00:28:12,899 --> 00:28:21,259

FUTURE LEADERS.
WHEN IT COMES TO AIR SPACE, IT'S

368

00:28:21,259 --> 00:28:25,039

MY SINCERE HOPE THAT FUTURE
LEADERS FROM ALL SIDES OF THE

369

00:28:25,039 --> 00:28:28,950

POLITICAL SPECTRUM WILL SEE IT
THROUGH.

370

00:28:28,950 --> 00:28:32,929

BECAUSE IN THIS TOMORROW, WE ALL
WANT OUR CHILDREN AND

371

00:28:32,929 --> 00:28:40,229

GRANDCHILDREN TO BREATHE CLEANER
AIR, DRINK CLEANER WATER, GO TO

372

00:28:40,229 --> 00:28:45,729

WORK IN GOOD JOBS ALONGSIDE
AMERICANS OF ALL GENDERS, RACES,

373

00:28:45,729 --> 00:28:49,529

SEXUAL ORIENTATIONS,
ETHNICITIES, AND GEOGRAPHIC AND

374

00:28:49,529 --> 00:28:55,710

ECONOMIC BACKGROUNDS IN JOBS
SUPPORTED BY NASA'S WORK.

375

00:28:55,710 --> 00:28:59,749

WE ALL WANT A FUTURE WHERE NASA
TECHNOLOGIES ARE SAVING EVEN

376

00:28:59,749 --> 00:29:04,460

MORE LIVES AND IMPROVING ALL OF
OUR QUALITY OF LIFE.

377

00:29:04,460 --> 00:29:07,889

A FUTURE WHERE WE KNOW MORE
ABOUT OUR SOLAR SYSTEM AND

378

00:29:07,889 --> 00:29:12,559

BEYOND, A FUTURE WHERE WE HAVE
AN ANSWER TO THE AGE OLD

379

00:29:12,559 --> 00:29:17,799

QUESTION OF WHETHER WE ARE ALONE
IN THE UNIVERSE.

380

00:29:17,799 --> 00:29:22,759

A FUTURE WHERE AS PRESIDENT
OBAMA PUT IT, WE'VE PUSHED,

381

00:29:22,759 --> 00:29:28,450

PUSHED, FURTHER OUT INTO THE
SOLAR SYSTEM, NOT JUST TO VISIT,

382

00:29:28,450 --> 00:29:32,190

BUT THIS TIME TO STAY.
A FUTURE WHERE THERE IS

383

00:29:32,190 --> 00:29:38,499

CONTINUOUS HUMAN PRESENCE ON
MARS.

384

00:29:38,499 --> 00:29:43,659

THANKS TO EACH AND EVERY ONE OF
YOU, EACH AND EVERY ONE OF YOU

385

00:29:43,659 --> 00:29:48,159

IN THIS AUDIENCE, EACH AND EVERY
ONE OF YOU IN OUR NASA FAMILY

386

00:29:48,159 --> 00:29:55,999

AROUND THE COUNTRY, THANKS TO
EACH AND EVERY ONE OF YOU.

387

00:29:55,999 --> 00:30:01,570

WE'LL CONTINUE TO DO OUR†-- WHAT
IT TAKES TO TURN SCIENCE FICTION

388

00:30:01,570 --> 00:30:05,580

INTO SCIENCE FACT.
AND TO MAKE THE IMPOSSIBLE

389

00:30:05,580 --> 00:30:09,989

POSSIBLE.
IT'S BECAUSE OF EACH AND EVERY

390

00:30:09,989 --> 00:30:15,559

ONE OF YOU THAT I CAN SAY RIGHT
NOW WITH GREAT CONFIDENCE THE

