1
00:00:05,930 --> 00:00:03,220
understanding our home planets and

2
00:00:09,169 --> 00:00:05,940
extending humanity's reach into the

3
00:00:15,020 --> 00:00:09,179
vastness of space arguably our grandest

4
00:00:17,840 --> 00:00:15,030
endeavors with the fiscal year 2012

5
00:00:20,359 --> 00:00:17,850
budget proposal NASA will continue to

6
00:00:23,240 --> 00:00:20,369
lead a quest to win the future by hoping

7
00:00:25,220 --> 00:00:23,250
to protect Earth uncover distant worlds

8
00:00:30,400 --> 00:00:25,230
and expand the frontiers of Technology

9
00:00:35,299 --> 00:00:33,440
innovate with an increased investment in

10
00:00:38,299 --> 00:00:35,309
research and technology that supports

11
00:00:40,400 --> 00:00:38,309
next-generation space systems designed

12
00:00:45,110 --> 00:00:40,410
to make exploration more capable and

13
00:00:47,029 --> 00:00:45,120

afforded educate by championing student

14
00:00:49,970 --> 00:00:47,039
studies in science technology

15
00:00:52,369 --> 00:00:49,980
engineering and mathematics as a way to

16
00:00:57,290 --> 00:00:52,379
ensure America's future competitive edge

17
00:00:59,599 --> 00:00:57,300
and build by nurturing new roles for

18
00:01:02,060 --> 00:00:59,609
American industries that will create an

19
00:01:04,460 --> 00:01:02,070
exciting and vibrant space economy that

20
00:01:07,700 --> 00:01:04,470
creates jobs and enhances the way we

21
00:01:10,760 --> 00:01:07,710
explore the cosmos we out innovate we

22
00:01:13,760 --> 00:01:10,770
out-educate and we out build any other

23
00:01:17,060 --> 00:01:13,770
agency of our type in the world we will

24
00:01:20,030 --> 00:01:17,070
continue to lead this innovative effort

25
00:01:25,700 --> 00:01:20,040
for the nation that returns so much for

26
00:01:30,020 --> 00:01:28,100
NASA continues to embrace its

27
00:01:32,990 --> 00:01:30,030
partnership with America's commercial

28
00:01:35,600 --> 00:01:33,000
space industry to enable safe reliable

29
00:01:39,950 --> 00:01:35,610
and cost-effective delivery approve and

30
00:01:42,020 --> 00:01:39,960
cargo to low Earth or it allows NASA to

31
00:01:45,020 --> 00:01:42,030
concentrate on accomplishing what no one

32
00:01:47,389 --> 00:01:45,030
else can extending human exploration to

33
00:01:48,859 --> 00:01:47,399
new destinations in the solar system we

34
00:01:51,410 --> 00:01:48,869
are taking in what we are calling in a

35
00:01:53,030 --> 00:01:51,420
capability driven approach which is that

36
00:01:55,310 --> 00:01:53,040
we are developing the very first

37
00:01:57,260 --> 00:01:55,320
capabilities that will need in going

38
00:01:59,630 --> 00:01:57,270

beyond low-earth orbit which includes a

39
00:02:02,419 --> 00:01:59,640
Space Launch System and a multi-purpose

40
00:02:04,340 --> 00:02:02,429
crew vehicle these are required no

41
00:02:06,590 --> 00:02:04,350
matter what destination we go to in the

42
00:02:09,109 --> 00:02:06,600
future this is called a flexible path

43
00:02:10,969 --> 00:02:09,119
because what these capabilities will be

44
00:02:12,830 --> 00:02:10,979
able to go to multiple destinations such

45
00:02:15,440 --> 00:02:12,840
as back to the moon to near-earth

46
00:02:17,930 --> 00:02:15,450
objects to Mars and its moons and to

47
00:02:20,449 --> 00:02:17,940
Lagrange points these are all places

48
00:02:24,979 --> 00:02:20,459
that we can feasibly go to with people

49
00:02:27,710 --> 00:02:24,989
in the in the foreseeable future these

50
00:02:30,110 --> 00:02:27,720
new cross-cutting technologies developed

51
00:02:32,509 --> 00:02:30,120
by a new generation of the agency's best

52
00:02:34,699 --> 00:02:32,519
and brightest will not only expand

53
00:02:37,340 --> 00:02:34,709
NASA's exploration beyond the bounds of

54
00:02:39,110 --> 00:02:37,350
Earth's orbit but will also lead to new

55
00:02:41,539 --> 00:02:39,120
achievements by other government and

56
00:02:43,130 --> 00:02:41,549
commercial space entities at NASA we

57
00:02:44,990 --> 00:02:43,140
want to make technology investments

58
00:02:46,880 --> 00:02:45,000
because we believe they're important to

59
00:02:50,210 --> 00:02:46,890
our future our future missions in

60
00:02:52,130 --> 00:02:50,220
aeronautics science and exploration but

61
00:02:54,319 --> 00:02:52,140
in making those investments we also

62
00:02:56,390 --> 00:02:54,329
contribute to everyday life we're also

63
00:02:58,759 --> 00:02:56,400

building the technological capability of

64
00:03:01,009 --> 00:02:58,769
our nation we're there for contributing

65
00:03:03,140 --> 00:03:01,019
to the global competitiveness of this

66
00:03:05,180 --> 00:03:03,150
nation and we're building the workforce

67
00:03:09,259 --> 00:03:05,190
that will go after the grand challenges

68
00:03:11,150 --> 00:03:09,269
in the next decade aligned with the

69
00:03:14,270 --> 00:03:11,160
goals of our nation and the scientific

70
00:03:16,120 --> 00:03:14,280
community NASA's robotic spacecraft will

71
00:03:18,319 --> 00:03:16,130
continue to probe the solar system

72
00:03:20,780 --> 00:03:18,329
uncover the mysteries that lie beyond

73
00:03:23,210 --> 00:03:20,790
and improve our understanding of earth

74
00:03:24,800 --> 00:03:23,220
and it's changing climate we'll be

75
00:03:26,690 --> 00:03:24,810
launching a lot of missions this year to

76
00:03:29,180 --> 00:03:26,700
do some great science and unique science

77
00:03:31,460 --> 00:03:29,190
a satellite messenger is going to come

78
00:03:33,800 --> 00:03:31,470
around for the third time and pass by

79
00:03:36,200 --> 00:03:33,810
mercury we're also going to be launching

80
00:03:38,640 --> 00:03:36,210
a satellite called glory demonic

81
00:03:40,830 --> 00:03:38,650
aerosols in our Earth's atmosphere and

82
00:03:43,350 --> 00:03:40,840
then three big launches in the summer

83
00:03:44,940 --> 00:03:43,360
and fall first we'll be Grail which is a

84
00:03:47,010 --> 00:03:44,950
mission to really understand the

85
00:03:49,920 --> 00:03:47,020
interior of the moon and what how it was

86
00:03:51,960 --> 00:03:49,930
formed the second one will be a mission

87
00:03:54,450 --> 00:03:51,970
called Juno which is a mission to orbit

88
00:03:56,250 --> 00:03:54,460

the planet Jupiter and then finally the

89
00:03:58,770 --> 00:03:56,260
really big mission is going to be the

90
00:04:00,540 --> 00:03:58,780
Mars Science Laboratory after eight or

91
00:04:04,470 --> 00:04:00,550
nine month journey will land and then

92
00:04:06,150 --> 00:04:04,480
Rove around Mars twenty-four-seven the

93
00:04:08,400 --> 00:04:06,160
new budget proposal maintains our

94
00:04:11,280 --> 00:04:08,410
commitment to humanity's platform in

95
00:04:13,820 --> 00:04:11,290
space the International Space Station to

96
00:04:16,289 --> 00:04:13,830
at least 20 20 and possibly be on

97
00:04:18,690 --> 00:04:16,299
bringing nations together in a common

98
00:04:21,000 --> 00:04:18,700
pursuit of excellence aboard the world's

99
00:04:24,120 --> 00:04:21,010
only scientific research laboratory in

100
00:04:25,740 --> 00:04:24,130
microgravity we're running into the last

101
00:04:27,240 --> 00:04:25,750
couple shuttle flights that will put the

102
00:04:29,640 --> 00:04:27,250
kind of final touches on Space Station

103
00:04:31,890 --> 00:04:29,650
will carry up the last critical supplies

104
00:04:33,690 --> 00:04:31,900
to really get station outfitted will

105
00:04:35,790 --> 00:04:33,700
bring up the AMS which will be a

106
00:04:38,250 --> 00:04:35,800
tremendous scientific experiment to

107
00:04:40,290 --> 00:04:38,260
allow us to peer back into the to the

108
00:04:42,420 --> 00:04:40,300
past and potentially even see remnants

109
00:04:44,400 --> 00:04:42,430
of the big banks so the budget we've got

110
00:04:46,380 --> 00:04:44,410
going forward is excellent it helps us

111
00:04:50,790 --> 00:04:46,390
get ready for this next phase of station

112
00:04:53,250 --> 00:04:50,800
as we move into full up utilization in

113
00:04:55,710 --> 00:04:53,260

aeronautics NASA will continue cutting

114
00:04:58,409 --> 00:04:55,720
edge research with a sharp focus on

115
00:05:01,230 --> 00:04:58,419
making commercial aviation safer cleaner

116
00:05:03,930 --> 00:05:01,240
and more efficient because aviation is

117
00:05:06,990 --> 00:05:03,940
one big system would be hardly enough if

118
00:05:10,050 --> 00:05:07,000
we want to do it just one right thing

119
00:05:13,140 --> 00:05:10,060
what NASA Aeronautics is trying to do is

120
00:05:17,010 --> 00:05:13,150
trying to find the sweet spot to

121
00:05:18,810 --> 00:05:17,020
maximize safety and fuel efficiency at

122
00:05:22,320 --> 00:05:18,820
the same time trying to minimize

123
00:05:26,820 --> 00:05:25,230
NASA will promote STEM education to

124
00:05:29,700 --> 00:05:26,830
develop and inspire the next generation

125
00:05:32,520 --> 00:05:29,710
of scientists technologists and

126
00:05:35,100 --> 00:05:32,530
engineers and maintain the nation's

127
00:05:37,140 --> 00:05:35,110
security and economic world via programs

128
00:05:39,570 --> 00:05:37,150
like the NASA Explorer schools and

129
00:05:42,450 --> 00:05:39,580
summer of innovation give students a

130
00:05:44,279 --> 00:05:42,460
hands-on experiential opportunity to see

131
00:05:46,559 --> 00:05:44,289
what a scientist and engineer does to

132
00:05:49,170 --> 00:05:46,569
think out of the box to be curious to be

133
00:05:50,279 --> 00:05:49,180
motivated to look at their dreams and

134
00:05:56,369 --> 00:05:50,289
see how to make their dreams become a

135
00:05:58,290 --> 00:05:56,379
reality wow I can be a scientist volume

136
00:06:00,689 --> 00:05:58,300
in engineer while I can develop the next

137
00:06:02,399 --> 00:06:00,699
rocket ship that takes us to Mars the

138
00:06:05,610 --> 00:06:02,409

things and the programs that we have at

139
00:06:09,749 --> 00:06:05,620
NASA will ignite that curiosity in the

140
00:06:12,510 --> 00:06:09,759
mind of a child with a 2012 budget

141
00:06:15,420 --> 00:06:12,520
proposal NASA will continue to pioneer

142
00:06:17,999 --> 00:06:15,430
space exploration scientific discovery

143
00:06:21,469 --> 00:06:18,009
and aeronautics research it is

144
00:06:24,420 --> 00:06:21,479
responsible affordable sustainable and

145
00:06:27,180 --> 00:06:24,430
achievable I look forward to the days

146
00:06:29,790 --> 00:06:27,190
ahead when we actually do send people

147
00:06:33,059 --> 00:06:29,800
out to to these places to touch them and

148
00:06:35,430 --> 00:06:33,069
and set foot on them and discover things

149
00:06:38,219 --> 00:06:35,440
we don't even have a clue of with this

150
00:06:40,769 --> 00:06:38,229
budget NASA will encourage more students

151
00:06:42,659 --> 00:06:40,779
to pursue educational paths and science

152
00:06:44,879 --> 00:06:42,669
and technology to build our

153
00:06:47,189 --> 00:06:44,889
technological future and to create those

154
00:06:49,469 --> 00:06:47,199
missions that this agency was built to

155
00:06:51,269 --> 00:06:49,479
accomplish these are difficult budget

156
00:06:53,010 --> 00:06:51,279
times but we really appreciate the

157
00:06:55,469 --> 00:06:53,020
support the administration has shown

158
00:06:58,920 --> 00:06:55,479
earth and space science that support

159
00:07:00,510 --> 00:06:58,930
continues the discoveries the wonderful

160
00:07:02,249 --> 00:07:00,520
things we get from station are just

161
00:07:04,200 --> 00:07:02,259
really unknown at this point but we've

162
00:07:06,540 --> 00:07:04,210
got good sound research plans we've got

163
00:07:08,309 --> 00:07:06,550

good storm products in place this budget

164
00:07:12,559 --> 00:07:08,319
fully supports those it strongly

165
00:07:15,899 --> 00:07:12,569
endorses the need for quality and

166
00:07:17,640 --> 00:07:15,909
preeminent aeronautics already did for

167
00:07:19,379 --> 00:07:17,650
the country the president's budgets can

168
00:07:21,510 --> 00:07:19,389
allow us to do really great things in

169
00:07:24,240 --> 00:07:21,520
mass education this year and we're truly

170
00:07:26,850 --> 00:07:24,250
excited to be able to inspire that next

171
00:07:29,369 --> 00:07:26,860
generation of explorers NASA is all

172
00:07:31,889 --> 00:07:29,379
about investing in the future this

173
00:07:33,449 --> 00:07:31,899
budget puts us on a path to be able to

174
00:07:35,850 --> 00:07:33,459
do just that there's only been one

175
00:07:38,100 --> 00:07:35,860
nation only one agency

176
00:07:40,619 --> 00:07:38,110
put humans on another heavenly body we

177
00:07:43,140 --> 00:07:40,629
did it back in the 60s and 70s and we

178
00:07:46,499 --> 00:07:43,150
will do it again this is NASA's promise

179
00:07:49,170 --> 00:07:46,509
to reach for new heights and reveal the