



1
00:00:05,630 --> 00:00:03,949
today is a big day at NASA later I'll be

2
00:00:07,130 --> 00:00:05,640
joining members of Congress to make a

3
00:00:09,110 --> 00:00:07,140
major announcement on our next

4
00:00:11,060 --> 00:00:09,120
heavy-lift launch system but I wanted

5
00:00:14,240 --> 00:00:11,070
you members of the NASA family to hear

6
00:00:16,369 --> 00:00:14,250
it first from me the next chapter of

7
00:00:19,849 --> 00:00:16,379
America's space exploration story is

8
00:00:21,679 --> 00:00:19,859
being written right here right now we've

9
00:00:24,200 --> 00:00:21,689
selected the design of a new space

10
00:00:27,470 --> 00:00:24,210
exploration system that will take humans

11
00:00:29,390 --> 00:00:27,480
far beyond Earth this important decision

12
00:00:31,970 --> 00:00:29,400
will create high-quality jobs here at

13
00:00:33,680 --> 00:00:31,980

home and provide the cornerstone for

14

00:00:37,639 --> 00:00:33,690

America's future human space exploration

15

00:00:39,590 --> 00:00:37,649

efforts this new heavy-lift rocket will

16

00:00:41,240 --> 00:00:39,600

be America's most powerful since the

17

00:00:43,729 --> 00:00:41,250

Saturn five rocket that carried Apollo

18

00:00:45,979 --> 00:00:43,739

astronauts to the moon it will launch

19

00:00:49,160 --> 00:00:45,989

humans to places no one has gone before

20

00:00:52,220 --> 00:00:49,170

such as asteroids Mars and other deep

21

00:00:53,779 --> 00:00:52,230

space destinations in combination with

22

00:00:55,760 --> 00:00:53,789

the crew capsule already under

23

00:00:57,729 --> 00:00:55,770

development commercialization of

24

00:00:59,540 --> 00:00:57,739

astronaut travel to low Earth orbit

25

00:01:02,029 --> 00:00:59,550

extension of activities on the

26

00:01:04,910 --> 00:01:02,039

International Space Station and a fresh

27

00:01:07,160 --> 00:01:04,920

focus on new technologies this rocket is

28

00:01:09,830 --> 00:01:07,170

key to implementing the plan laid out by

29

00:01:13,670 --> 00:01:09,840

President Obama and Congress president

30

00:01:16,490 --> 00:01:13,680

obama challenged us to be bold and dream

31

00:01:19,280 --> 00:01:16,500

big and that's exactly what we're doing

32

00:01:21,560 --> 00:01:19,290

at NASA while I was proud to fly on the

33

00:01:24,340 --> 00:01:21,570

space shuttle tomorrow's explorers will

34

00:01:26,840 --> 00:01:24,350

now dream of one day walking on Mars

35

00:01:28,810 --> 00:01:26,850

this launch vehicle decision is the

36

00:01:30,830 --> 00:01:28,820

culmination of a months-long

37

00:01:33,170 --> 00:01:30,840

comprehensive review of potential

38

00:01:34,819 --> 00:01:33,180

designs to ensure that the nation gets

39

00:01:37,640 --> 00:01:34,829

the best possible rocket for the

40

00:01:40,789 --> 00:01:37,650

investment one that's not only powerful

41

00:01:42,310 --> 00:01:40,799

but is also evolvable so it can be

42

00:01:45,289 --> 00:01:42,320

adapted to different missions as

43

00:01:47,719 --> 00:01:45,299

opportunities arise and new technologies

44

00:01:49,960 --> 00:01:47,729

are developed the rocket will use liquid

45

00:01:53,480 --> 00:01:49,970

hydrogen and liquid oxygen fuel systems

46

00:01:56,209 --> 00:01:53,490

RS 25 de engines will provide the core

47

00:01:58,660 --> 00:01:56,219

propulsion for the Jade the j-2x engine

48

00:02:00,889 --> 00:01:58,670

is planned for use in the upper stage

49

00:02:02,630 --> 00:02:00,899

there will be a full and open

50

00:02:05,539 --> 00:02:02,640

competition to develop the Boosters

51
00:02:07,310 --> 00:02:05,549
based on performance requirements it's

52
00:02:10,729 --> 00:02:07,320
early flights will be capable of lifting

53
00:02:13,170 --> 00:02:10,739
70 to 100 metric tons before evolving to

54
00:02:16,209 --> 00:02:13,180
a lift capacity of 130 metric ton

55
00:02:17,830 --> 00:02:16,219
the early developmental flights will

56
00:02:19,740 --> 00:02:17,840
take advantage of existing solid

57
00:02:23,229 --> 00:02:19,750
boosters and other existing hardware

58
00:02:25,869 --> 00:02:23,239
this will help us control costs and make

59
00:02:27,399 --> 00:02:25,879
early tests smoother the selection of

60
00:02:29,860 --> 00:02:27,409
the vehicle needed to transport our

61
00:02:31,569 --> 00:02:29,870
astronauts beyond low Earth orbit is one

62
00:02:34,390 --> 00:02:31,579
of the most important decisions NASA

63
00:02:35,920 --> 00:02:34,400

will make this decade it will require a

64

00:02:38,589 --> 00:02:35,930

major commitment on the part of the

65

00:02:41,949 --> 00:02:38,599

American people that's why we took the

66

00:02:44,619 --> 00:02:41,959

time to get it right the hard work and

67

00:02:46,839 --> 00:02:44,629

expertise of you in the NASA family have

68

00:02:49,390 --> 00:02:46,849

brought us to this point and will be

69

00:02:52,780 --> 00:02:49,400

critical as we continue to do the big

70

00:02:54,399 --> 00:02:52,790

things that only NASA can do we must

71

00:02:56,970 --> 00:02:54,409

continue to challenge ourselves as a

72

00:02:59,770 --> 00:02:56,980

people to reach our highest potential

73

00:03:02,500 --> 00:02:59,780

the future is bright for exploration and