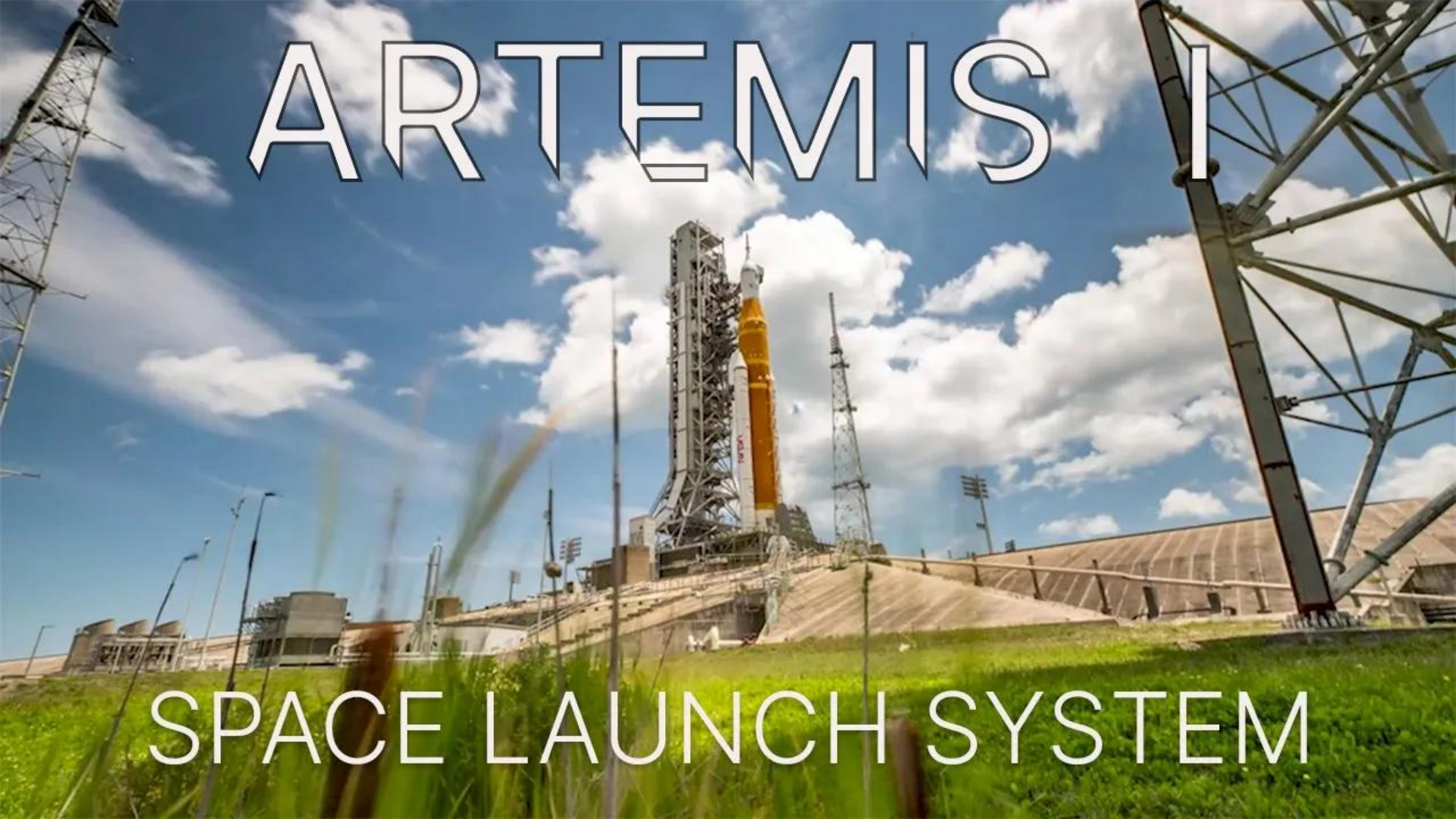
ARTEMIS I
SPACE LAUNCH SYSTEM

1
00:00:00,720 --> 00:00:04,920
The Space Launch System is really the\h
backbone of the Artemis missions. It's the\h\h

2
00:00:04,920 --> 00:00:10,740
truck. It's the big carry vehicle.
It allows us to carry both crew,\h\h

3
00:00:10,740 --> 00:00:15,180
as well as the equipment that we\h
need to live and work on the Moon.
\h

4
00:00:16,620 --> 00:00:21,480
Sixty years ago, NASA was in a race to\h
get to the Moon. This time is more than\h\h

5
00:00:21,480 --> 00:00:24,420
just a race. It's about establishing\h
a long-term presence on the Moon.
\h

6
00:00:24,420 --> 00:00:29,820
Can you imagine rolling the Statue of Liberty out\h
to put at the pad? That’s what we’re doing.
\h

7
00:00:31,320 --> 00:00:35,880
It will lift-up from Earth with more power\h
than the Saturn V, which was the first\h\h

8
00:00:35,880 --> 00:00:40,380
vehicle to take us to the Moon.
Artemis is our next giant leap.
\h

9
00:00:48,180 --> 00:00:53,280
The difference between the Apollo program\h
and the Artemis program is really the focus\h\h

10

00:00:53,280 --> 00:00:57,600
on sustainability, and using the Moon\h
as an outpost for further exploration.
\h

11
00:00:57,600 --> 00:01:03,720
This time we're going back to learn\h
how to live and work on the Moon.
\h

12
00:01:03,720 --> 00:01:11,940
The Space Launch System really is a culmination of\h
our knowledge for 60 years of building rockets.
\h

13
00:01:11,940 --> 00:01:20,520
We started by looking at over 1700 different\h
potential components that would go into the\h\h

14
00:01:20,520 --> 00:01:25,920
rocket, and by looking at the way we\h
could reuse some of the most reliable\h\h

15
00:01:25,920 --> 00:01:30,840
equipment that was flown on the shuttle.
We took those and we put them together into\h\h

16
00:01:30,840 --> 00:01:37,560
a system that had enough energy to make sense to\h
do the mission that we've been asked to do to.
\h

17
00:01:37,560 --> 00:01:43,560
We're moving from low-Earth orbit, like you\h
see in the International Space Station today,\h\h

18
00:01:43,560 --> 00:01:47,340
to moving beyond that to taking\h
the next step in exploration.
\h

19

00:01:48,840 --> 00:01:56,700
It's 322 feet tall. It's got 700,000 gallons of\h
cryogenic propellant in the core stage alone.\h\h

20
00:01:57,300 --> 00:02:01,440
It can produce 8.8 million\h
pounds of vacuum thrust.
\h

21
00:02:01,440 --> 00:02:06,660
The Space Launch System is really a\h
national rocket, a national asset, too.
\h

22
00:02:06,660 --> 00:02:11,100
We have worked with contractors\h
as well as with our NASA experts,\h\h

23
00:02:11,100 --> 00:02:15,240
our science and engineering department,\h
our safety and mission assurance team.
\h

24
00:02:15,240 --> 00:02:19,560
To get the Space Launch System\h
designed, developed and produced,\h\h

25
00:02:19,560 --> 00:02:22,680
it has taken thousands of\h
companies across the country.
\h

26
00:02:22,680 --> 00:02:29,400
It comes together by train. It comes together\h
by plane. It comes together by barges.
\h

27
00:02:29,400 --> 00:02:34,140
All of that culminates at the Kennedy Space Center\h
for the launch of the first Artemis mission.
\h

28
00:02:34,140 --> 00:02:38,640
Everybody has worked together to make sure\h
we have a safe and reliable rocket>
\h

29
00:02:39,480 --> 00:02:46,860
At NASA, safety and testing is extremely important\h
because ultimately this rocket isn't meant just to\h\h

30
00:02:46,860 --> 00:02:52,620
carry cargo, it's meant to carry people.
It takes all types of education, all types of\h\h

31
00:02:52,620 --> 00:02:57,240
backgrounds, all types of diversity to\h
do the things we do, and it'll be great\h\h

32
00:02:57,240 --> 00:03:03,120
to see a diverse crew land on the moon.
Where the Space Launch System comes in is\h\h

33
00:03:03,120 --> 00:03:08,400
providing that reliable transportation, so that\h
we can start flying these rockets on a routine\h\h

34
00:03:08,400 --> 00:03:15,300
basis to take people and to take payload to that\h
outpost, the Moon and also the Gateway system.
\h

35
00:03:15,300 --> 00:03:20,700
We have a generation who have never seen deep\h
space exploration, and this will give them an\h\h

36
00:03:20,700 --> 00:03:24,660
opportunity to see that this is something\h
that they can potentially do themselves.
\h

37
00:03:24,660 --> 00:03:27,240

It's going to be a paradigm shift for NASA. We're\h\h