



1  
00:00:12,789 --> 00:00:11,110  
[Music]

2  
00:00:14,070 --> 00:00:12,799  
the vehicle system testbed is an

3  
00:00:15,910 --> 00:00:14,080  
engineering model version

4  
00:00:17,670 --> 00:00:15,920  
of the perseverance roller which means

5  
00:00:19,670 --> 00:00:17,680  
that it has all the same electronics

6  
00:00:21,269 --> 00:00:19,680  
as perseverance it's important for

7  
00:00:23,349 --> 00:00:21,279  
perseverance to have a twin

8  
00:00:24,790 --> 00:00:23,359  
so that we have a place where we can

9  
00:00:27,830 --> 00:00:24,800  
test things before

10  
00:00:30,470 --> 00:00:27,840  
we actually operate perseverance

11  
00:00:31,349 --> 00:00:30,480  
then once we do land on mars we need the

12  
00:00:33,750 --> 00:00:31,359  
twin to

13  
00:00:35,270 --> 00:00:33,760

test out all of the sequences and plans

14

00:00:36,870 --> 00:00:35,280

that we have for the rover

15

00:00:39,110 --> 00:00:36,880

before we actually send them up to

16

00:00:40,630 --> 00:00:39,120

perseverance on the surface mars

17

00:00:42,549 --> 00:00:40,640

also if we have a problem with

18

00:00:44,709 --> 00:00:42,559

perseverance the vstb

19

00:00:48,730 --> 00:00:44,719

is going to give us a place to practice

20

00:00:53,910 --> 00:00:52,069

[Music]

21

00:00:55,430 --> 00:00:53,920

this is a really big milestone for us

22

00:00:56,150 --> 00:00:55,440

today this is the first time we've ever

23

00:00:59,830 --> 00:00:56,160

driven

24

00:01:02,310 --> 00:00:59,840

the test bed so by driving

25

00:01:04,950 --> 00:01:02,320

we're validating that mechanically we

26

00:01:07,590 --> 00:01:04,960

can drive the rover on its own weight

27

00:01:14,390 --> 00:01:07,600

on earth the vstv is now ready to drive

28

00:01:29,550 --> 00:01:16,550

today we're moving the vstb from its

29

00:01:41,590 --> 00:01:35,570

[Music]

30

00:01:45,350 --> 00:01:43,990

i'm extremely proud of what the vstb

31

00:01:47,190 --> 00:01:45,360

team has accomplished today

32

00:01:48,789 --> 00:01:47,200

i'm really excited to see this vstv out

33

00:01:56,210 --> 00:01:48,799

of mars yard where we can truly test

34

00:02:02,789 --> 00:02:01,350

[Music]

35

00:02:04,149 --> 00:02:02,799

today is a great day for the test bed

36

00:02:06,230 --> 00:02:04,159

it's the first time that we've driven

37

00:02:07,830 --> 00:02:06,240

optimism out into the mars yard

38

00:02:08,949 --> 00:02:07,840

we get to actually drive in the dirt and