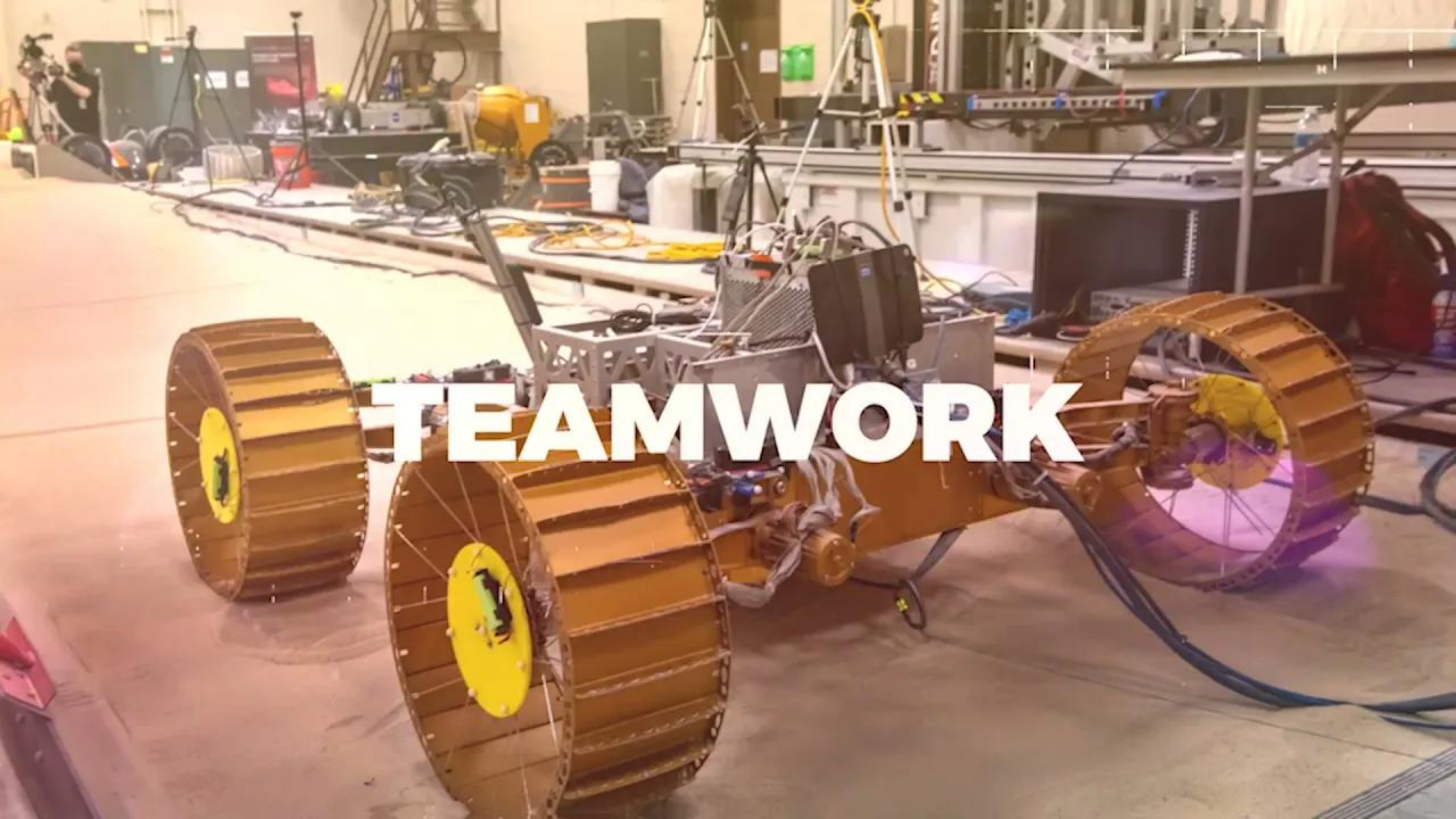
TEAMWORK

1
00:00:10,230 --> 00:00:06,240
[Music]

2
00:00:14,230 --> 00:00:11,190
these steps

3
00:00:15,749 --> 00:00:14,240
will help us get ready for the future

4
00:00:17,590 --> 00:00:15,759
tests during the fall

5
00:00:19,029 --> 00:00:17,600
where we will be doing further mobility

6
00:00:21,029 --> 00:00:19,039
testing for viper

7
00:00:22,550 --> 00:00:21,039
to understand the rover's performance in

8
00:00:25,349 --> 00:00:22,560
terms of how how well

9
00:00:26,150 --> 00:00:25,359
the rover can traverse simulated lunar

10
00:00:28,550 --> 00:00:26,160
soil

11
00:00:29,429 --> 00:00:28,560
how well it can overcome obstacles like

12
00:00:32,870 --> 00:00:29,439
rocks

13
00:00:35,030 --> 00:00:32,880

and slope is the ideal location for this

14
00:00:36,389 --> 00:00:35,040
type of mobility test it's a world class

15
00:00:39,830 --> 00:00:36,399
facility

16
00:00:42,389 --> 00:00:39,840
we have a really well characterized soil

17
00:00:44,069 --> 00:00:42,399
we have unique capability that it's

18
00:00:45,670 --> 00:00:44,079
indoors and we can control the

19
00:00:48,470 --> 00:00:45,680
environment very well

20
00:00:49,430 --> 00:00:48,480
the tilt bed on the slope itself is very

21
00:00:52,150 --> 00:00:49,440
well controlled

22
00:00:52,709 --> 00:00:52,160
we've recently added software upgrades

23
00:00:54,950 --> 00:00:52,719
and

24
00:00:57,270 --> 00:00:54,960
advanced our optical tracking system

25
00:00:58,709 --> 00:00:57,280
quite a bit we installed a 16 camera

26
00:01:00,150 --> 00:00:58,719
infrared tracking system

27
00:01:02,549 --> 00:01:00,160
which allow us in the software to

28
00:01:03,029 --> 00:01:02,559
identify individual pieces of the

29
00:01:05,429 --> 00:01:03,039
vehicle

30
00:01:06,390 --> 00:01:05,439
which we can track in real time it has

31
00:01:08,710 --> 00:01:06,400
been challenging

32
00:01:11,350 --> 00:01:08,720
to work through this pandemic but this

33
00:01:14,630 --> 00:01:11,360
pandemic has also brought opportunities

34
00:01:15,109 --> 00:01:14,640
to look and understand and learn how we

35
00:01:17,510 --> 00:01:15,119
can

36
00:01:18,230 --> 00:01:17,520
keep highly performing and engaging

37
00:01:21,429 --> 00:01:18,240
teams

38
00:01:25,350 --> 00:01:21,439

we encountered procurement delays

39
00:01:26,710 --> 00:01:25,360
covid delays snow delays and we still

40
00:01:28,789 --> 00:01:26,720
we still pulled it off and made it

41
00:01:29,910 --> 00:01:28,799
happen and it was a huge team effort to

42
00:01:33,670 --> 00:01:29,920
get here

43
00:01:38,710 --> 00:01:33,680
viper is a rover of many first the first

44
00:01:41,670 --> 00:01:38,720
nasa's rover to map water resources

45
00:01:43,590 --> 00:01:41,680
and is the first rover to wear a

46
00:01:46,789 --> 00:01:43,600
headlight

47
00:01:47,749 --> 00:01:46,799
for many many years i was dreaming about

48
00:01:50,310 --> 00:01:47,759
joining nasa

49
00:01:51,990 --> 00:01:50,320
and sending big rovers to mars and other

50
00:01:53,510 --> 00:01:52,000
places in the solar system

51
00:01:55,590 --> 00:01:53,520
so that dream came through last year

52
00:01:58,550 --> 00:01:55,600
when i joined nasa glenn

53
00:01:59,990 --> 00:01:58,560
to lead and manage projects for future

54
00:02:02,469 --> 00:02:00,000
missions to mars

55
00:02:09,109 --> 00:02:02,479
and i love mars but i also love the moon