1
00:00:11,830 --> 00:00:09,669
with the launch of nasa's prototype

2
00:00:14,070 --> 00:00:11,840
planetary lakelander on laguna negra in

3
00:00:15,350 --> 00:00:14,080
the central andes of chile our ability

4
00:00:18,470 --> 00:00:15,360
to search for life elsewhere in the

5
00:00:20,150 --> 00:00:18,480
universe took a bold step forward

6
00:00:21,990 --> 00:00:20,160
the lakelander project is testing

7
00:00:23,590 --> 00:00:22,000
robotic systems that can be used to

8
00:00:25,750 --> 00:00:23,600
search for signatures of life in our

9
00:00:27,670 --> 00:00:25,760
solar system

10
00:00:30,070 --> 00:00:27,680
the roboticists on the team include

11
00:00:32,630 --> 00:00:30,080
professor david wettagren along with dr

12
00:00:34,470 --> 00:00:32,640
liam pedersen and dr trey smith

13
00:00:36,229 --> 00:00:34,480

patterson and smith are responsible for

14
00:00:38,310 --> 00:00:36,239
assembling and monitoring the lakelander

15
00:00:42,229 --> 00:00:38,320
and its sensing equipment professor

16
00:00:43,510 --> 00:00:42,239
wedigren is developing a smart camera

17
00:00:44,950 --> 00:00:43,520
well this is a prototype for an

18
00:00:46,389 --> 00:00:44,960
underwater camera

19
00:00:48,630 --> 00:00:46,399
we are

20
00:00:50,310 --> 00:00:48,640
trying to get some close-up images of

21
00:00:51,910 --> 00:00:50,320
the very small organisms that live here

22
00:00:53,670 --> 00:00:51,920
in the lake

23
00:00:55,350 --> 00:00:53,680
what will be interesting is when we

24
00:00:56,630 --> 00:00:55,360
start to automatically process those

25
00:00:58,950 --> 00:00:56,640
pictures

26
00:01:01,430 --> 00:00:58,960
any rover that's exploring

27
00:01:03,590 --> 00:01:01,440
mars or titan is not going to be able to

28
00:01:05,109 --> 00:01:03,600
send back all those pictures

29
00:01:07,670 --> 00:01:05,119
so where it gets interesting is what do

30
00:01:10,550 --> 00:01:07,680
we do with that visual information how

31
00:01:12,630 --> 00:01:10,560
can we automatically analyze find the

32
00:01:14,149 --> 00:01:12,640
one frame that's important or maybe just

33
00:01:16,630 --> 00:01:14,159
a small portion of the image that's

34
00:01:19,109 --> 00:01:16,640
important pick that out and send it back

35
00:01:22,710 --> 00:01:19,119
and say this is what you should look at

36
00:01:26,469 --> 00:01:24,630
for more information on these topics go