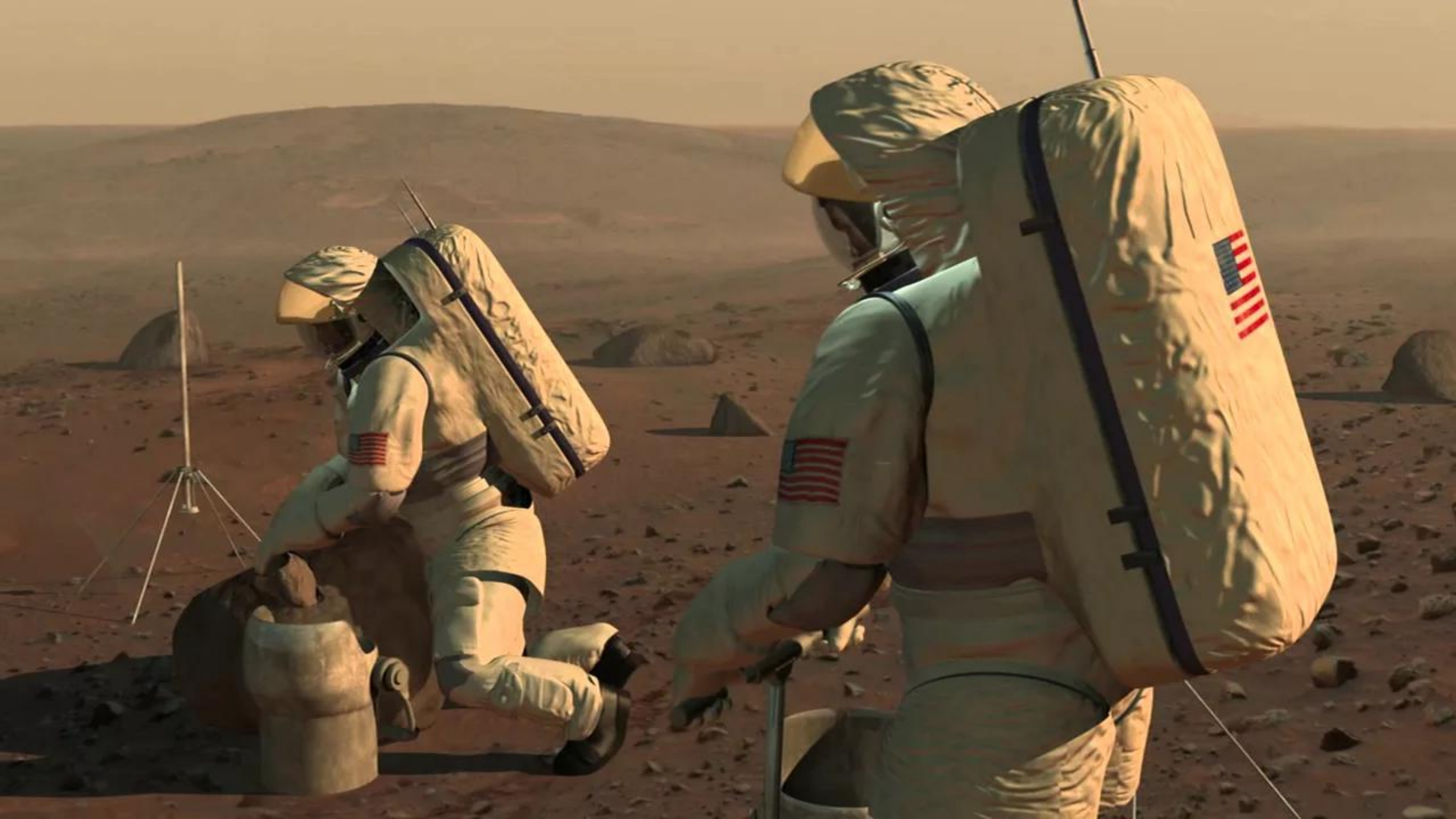

1
00:00:00,000 --> 00:00:06,500
Hi, I'm Dr. Veronica Pinnick and I work on the Mars Organic Molecule Analyzer for the 2018 Exo-Mars Rover.

2
00:00:06,500 --> 00:00:15,880
Music

3
00:00:15,900 --> 00:00:21,560
I am working on the Mars Organic Molecule Analyzer, which is a very exciting instrument,

4
00:00:21,560 --> 00:00:26,900
which will look at the chemical make-up of the soil of Mars from a depth of 2 meters below the surface.

5
00:00:26,900 --> 00:00:32,520
We know a lot about the chemical make-up up on the surface from all of the previous Rover missions.

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00:00:32,540 --> 00:00:35,000
But it the first chance that we'll get to really look below the surface.

7
00:00:35,000 --> 00:00:38,000
Understanding the chemical make-up of Mars is important for a few reasons;

8
00:00:38,000 --> 00:00:45,000
one, we need to understand what resources we might potentially be harvesting when we send explorers.

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00:00:45,000 --> 00:00:47,900
So we not only need to understand what's happening on the surface of Mars but also

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00:00:47,900 --> 00:00:52,100
once we start drilling down below the surface, what kind of resources can we expect to find.

11
00:00:52,200 --> 00:01:00,340
Understanding the chemical make-up of the Mars soil is important for us to understand potential hazards that h

12
00:01:00,440 --> 00:01:05,980
The next step in understanding the chemical make-up of the red planet would be to,

13
00:01:06,000 --> 00:01:12,900

instead of sending these very sophisticated robots to do the chemistry, it would be much better to cache these