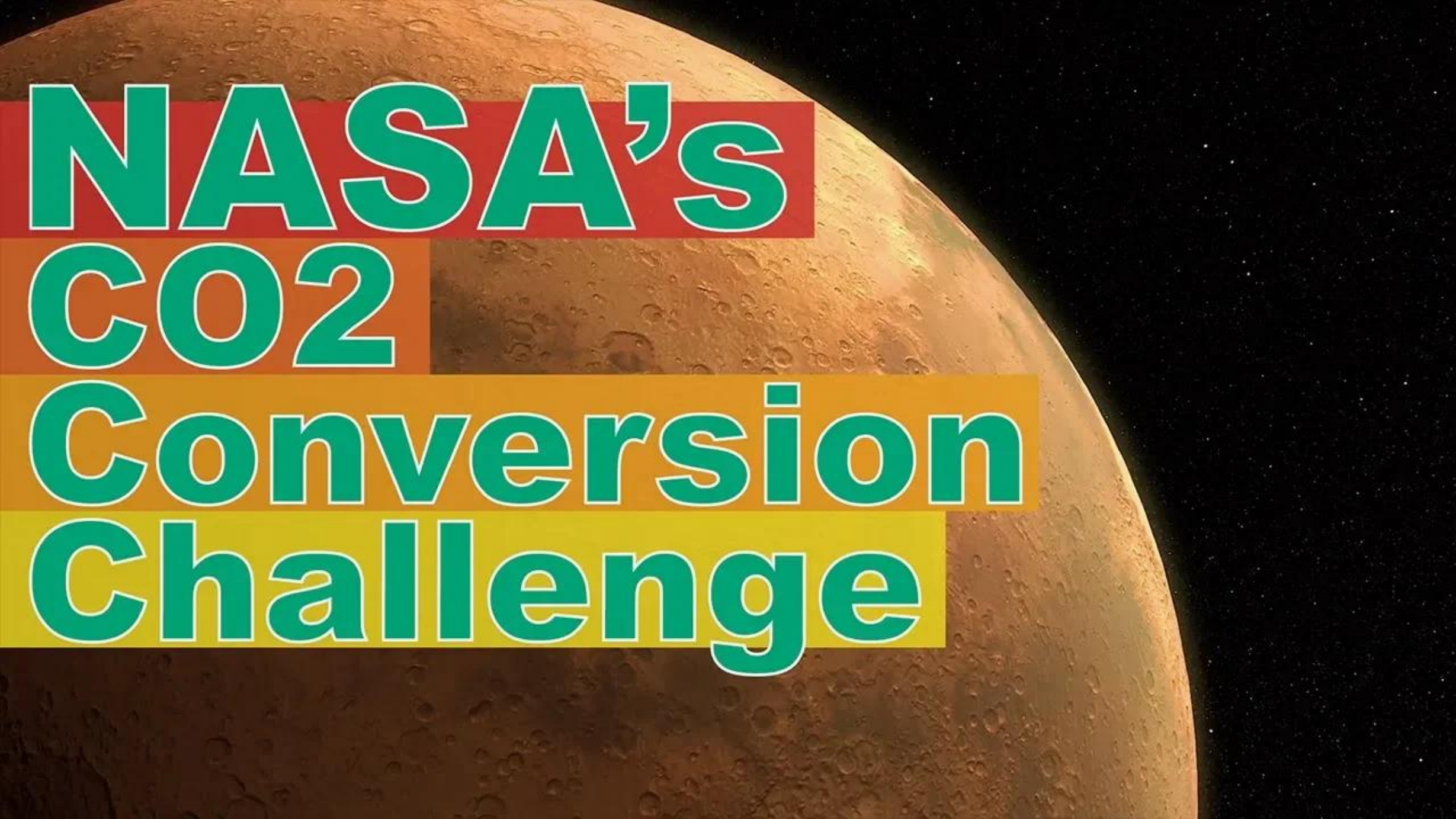
NASA's
CO2
Conversion
Challenge

1
00:00:00,540 --> 00:00:06,080
On Earth, plants convert CO2 into some of
the essentials we need to survive.

2
00:00:07,140 --> 00:00:10,560
On Mars, there are no plants, but there is
a lot of CO2.

3
00:00:11,200 --> 00:00:15,380
What if there was a way to use Martian CO2 to create the essentials

4
00:00:15,380 --> 00:00:17,640
we need to survive away from Earth?

5
00:00:18,500 --> 00:00:22,800
If we can find a way to convert carbon dioxide into sugar molecules,

6
00:00:22,800 --> 00:00:25,780
we could feed microorganisms in bioreactors.

7
00:00:25,900 --> 00:00:30,400
These multifunctional bioreactors would act just like little farms on Mars,

8
00:00:30,820 --> 00:00:34,320
creating the resources we need to survive, on demand.

9
00:00:34,700 --> 00:00:38,780
Food, medicine, vitamins and even construction materials.

10
00:00:39,540 --> 00:00:43,740
NASA’s CO2 Conversion Challenge is working to do just that,