
NASA's
BREAK
THE ICE
LUNAR CHALLENGE

1
00:00:01,226 --> 00:00:08,901
Our Moon — the next step in human exploration
beyond our Earth.

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00:00:08,901 --> 00:00:15,609
In order to live there sustainably, we'll
need habitats, water, fuel and so much more.

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00:00:15,609 --> 00:00:18,601
But we can't bring everything with us when
we go.

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00:00:18,601 --> 00:00:23,923
We need a way to collect valuable resources
already available on the Moon.

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00:00:23,923 --> 00:00:28,621
The Moon's regolith — or soil — can
be used to construct habitats.

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00:00:28,621 --> 00:00:34,940
Water hidden under the surface can be harvested
for human use and for future propellant needs.

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00:00:34,940 --> 00:00:40,239
But responsibly gathering these resources
far away from our home planet will require

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00:00:40,239 --> 00:00:43,344
technologies that aren't currently available.

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00:00:43,344 --> 00:00:48,940
And with frigid temperatures, low gravity,
and challenging shipping conditions, traditional

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00:00:48,940 --> 00:00:54,514
Earth-based excavation technologies aren't
going to cut it.

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00:00:54,514 --> 00:00:56,780
That’s where you come in.

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00:00:56,780 --> 00:01:02,819
NASA’s Break the Ice Lunar Challenge is
looking to industry, students, small businesses

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00:01:02,819 --> 00:01:08,479
and garage inventors to develop innovative
ways to excavate the Moon’s icy regolith

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00:01:08,479 --> 00:01:12,124
and deliver water in extreme lunar conditions.

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00:01:12,124 --> 00:01:18,290
These technologies and resources will be critical
as we learn to live off-world.

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00:01:18,290 --> 00:01:24,971
And your ideas could help us get there, extending
sustainable human exploration to the Moon,