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00:00:00,100 --> 00:00:04,580

Hey I'm NASA Kennedy's Steven Gilmore and I'm taking you Inside KSC.

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00:00:07,000 --> 00:00:11,920

Kennedy Space Center Director Bob Cabana shared details about the center's ongoing transformation

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00:00:12,120 --> 00:00:16,570

into a multi-user spaceport with about 200 officials and business leaders across Central

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00:00:16,570 --> 00:00:17,770

Florida.

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00:00:17,770 --> 00:00:21,960

Kennedy has diversified in robust ways, ranging from retooling existing structures for new

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00:00:21,960 --> 00:00:27,199

programs to enabling companies to build new facilities such as Blue Origin's rocket factory

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00:00:27,199 --> 00:00:31,090

and OneWeb's satellite manufacturing center in Exploration Park.

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00:00:31,090 --> 00:00:35,200

Cabana also addressed the program advancements of Ground Systems Development and Operations,

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00:00:35,200 --> 00:00:40,829

Commercial Crew, Launch Services and Exploration Research and Technology.

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00:00:40,829 --> 00:00:45,429

Researchers at Kennedy's Swamp Works are modifying an electrostatic precipitator – an existing

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00:00:45,429 --> 00:00:49,890

technology used to clean up power plant plumes
- to help remove dust from valuable elements

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00:00:49,890 --> 00:00:51,719

in the Martian atmosphere.

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00:00:51,719 --> 00:00:55,789

The dust can damage equipment and must be
separated from the atmosphere, making it easier

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00:00:55,789 --> 00:01:00,429

to extract oxygen and water needed to sustain
life, as well as methane which can be used

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00:01:00,429 --> 00:01:02,760

as rocket fuel for the return to earth.

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00:01:02,760 --> 00:01:06,900

The plan would be to send an electrostatic
precipitator to a landing site on Mars before

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00:01:06,900 --> 00:01:09,820

crews arrive.