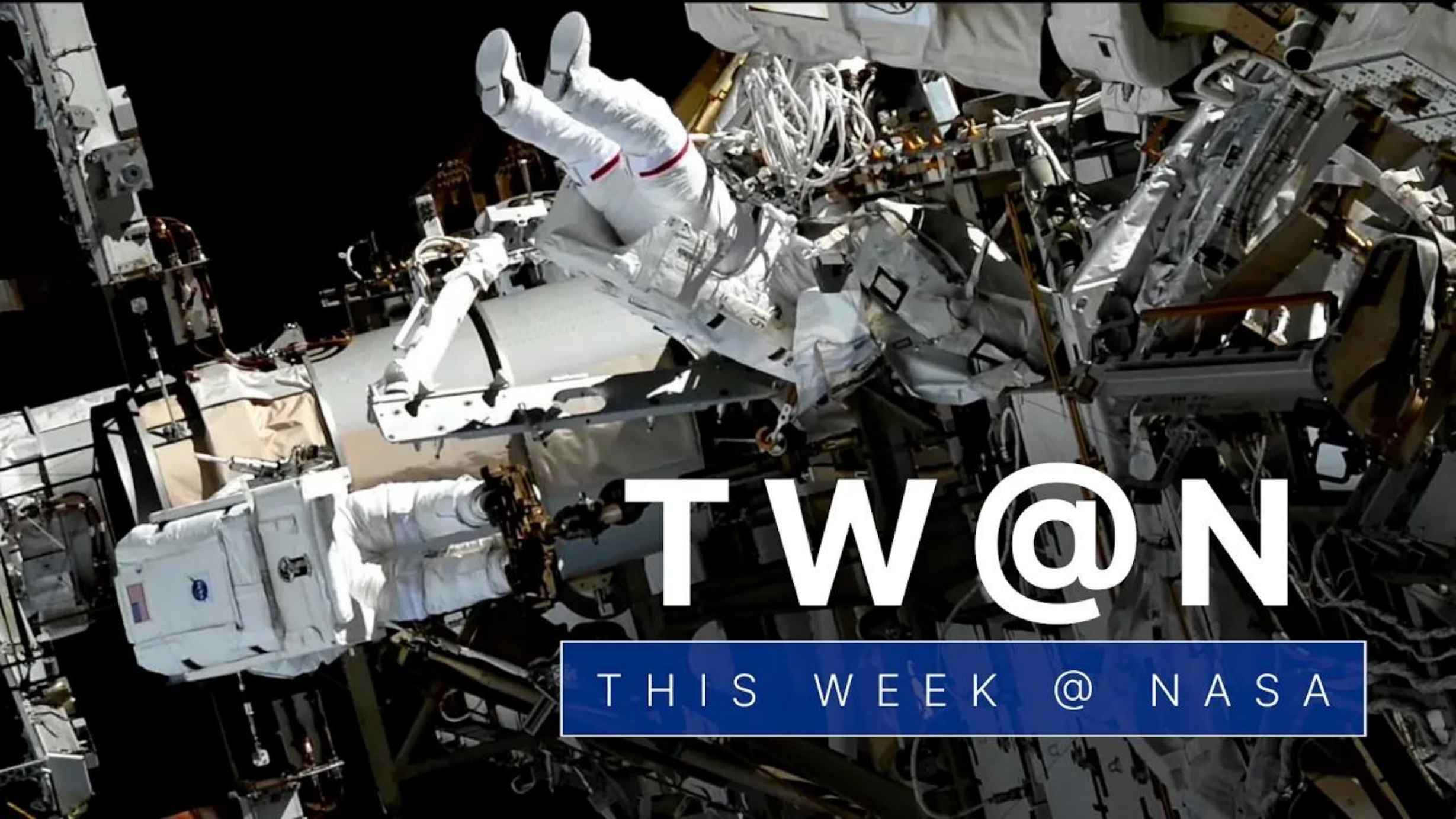
TW@N
THIS WEEK @ NASA

1
00:00:00,000 --> 00:00:05,250
■Preparing for a more powerful space station …
Building a more fuel-efficient aircraft …
\h

2
00:00:05,250 --> 00:00:09,780
And a way to possibly predict solar\h
flares … a few of the stories to\h\h

3
00:00:09,780 --> 00:00:17,100
tell you about – This Week at NASA!
On Jan. 20, NASA astronaut Nicole Mann and\h\h

4
00:00:17,100 --> 00:00:22,800
Japan Aerospace Exploration Agency astronaut\h
Koichi Wakata conducted a spacewalk outside\h\h

5
00:00:22,800 --> 00:00:27,840
the International Space Station to prepare\h
for future upgrades to the station’s power\h\h

6
00:00:27,840 --> 00:00:34,200
system. The station’s existing power channels are\h
being augmented with new roll-out solar arrays.
\h

7
00:00:34,200 --> 00:00:41,580
On Jan. 18, we announced a partnership with\h
Boeing to build, test, and fly an experimental\h\h

8
00:00:41,580 --> 00:00:46,620
full-scale Sustainable Flight Demonstrator\h
aircraft aimed at lowering emissions.
\h

9
00:00:46,620 --> 00:00:57,000
“And Boeing’s concept is a Transonic\h
Truss-Braced Wing single-aisle aircraft.”
\h

10

00:00:57,000 --> 00:01:02,520
Learn more about NASA’s work in\h
aeronautics research at nasa.gov/flight.
\h

11
00:01:02,520 --> 00:01:09,480
Our Solar Dynamics Observatory has identified\h
small-scale flashes in the upper layers of the\h\h

12
00:01:09,480 --> 00:01:14,340
solar atmosphere, the corona, that could\h
help us predict solar flares, which,\h\h

13
00:01:14,340 --> 00:01:20,100
in turn could help us anticipate the disruptive\h
impacts of space weather storms here on Earth.
\h

14
00:01:20,820 --> 00:01:26,280
Teams at our Michoud Assembly Facility recently\h
completed welding of the Space Launch System,\h\h

15
00:01:26,280 --> 00:01:33,420
or SLS core stage liquid oxygen tank dome for\h
Artemis III. The liquid oxygen and the liquid\h\h

16
00:01:33,420 --> 00:01:39,840
hydrogen tanks hold the propellant used to launch\h
the SLS and the Orion spacecraft into space.
\h