
imaging earth with
MUSES

1
00:00:00,506 --> 00:00:15,486
[ Music ]

2
00:00:15,986 --> 00:00:16,956
>> There's four places

3
00:00:17,046 --> 00:00:19,606
for [inaudible] individual
payloads to be mounted.

4
00:00:20,266 --> 00:00:23,336
These four places provide
an individual scientist

5
00:00:23,516 --> 00:00:26,746
or a commercial endeavor
to use this platform

6
00:00:26,746 --> 00:00:31,696
for acquiring access to
space-borne opportunities

7
00:00:31,696 --> 00:00:32,756
for looking at the Earth.

8
00:00:33,166 --> 00:00:36,976
We use this as a multiuser
system for Earth sensing.

9
00:00:37,186 --> 00:00:41,586
It's the first of its kind
that actually allows the change

10
00:00:41,586 --> 00:00:45,636
out of payloads onboard this
particular system robotic

11
00:00:45,696 --> 00:00:48,806
interaction with the onboard

Space Station Remote Manipulator

12
00:00:48,806 --> 00:00:52,106
System actually allows
plucking a payload off of this

13
00:00:52,106 --> 00:00:53,926
and replacing it with a new one.

14
00:00:54,516 --> 00:01:01,966
[ Music ]

15
00:01:02,466 --> 00:01:03,926
This is our server drawer.

16
00:01:04,166 --> 00:01:06,456
It's designed to take
the volumes of data

17
00:01:06,536 --> 00:01:10,126
that we collect onboard the
[inaudible] externally and house

18
00:01:10,126 --> 00:01:13,166
that for temporary storage
onboard the U.S. laboratory

19
00:01:13,566 --> 00:01:15,256
for subsequent downlink
to the ground.

20
00:01:15,666 --> 00:01:19,726
We actually have
shoved 18 terabytes

21
00:01:20,026 --> 00:01:22,776
of data storage capacity in
this single drawer that goes

22

00:01:22,776 --> 00:01:23,936
into the express rack.