



ISS
U.S. NATIONAL LABORATORY



POWERED THROUGH PARTNERSHIP



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ISS NATIONAL LABORATORY



The International Space Station

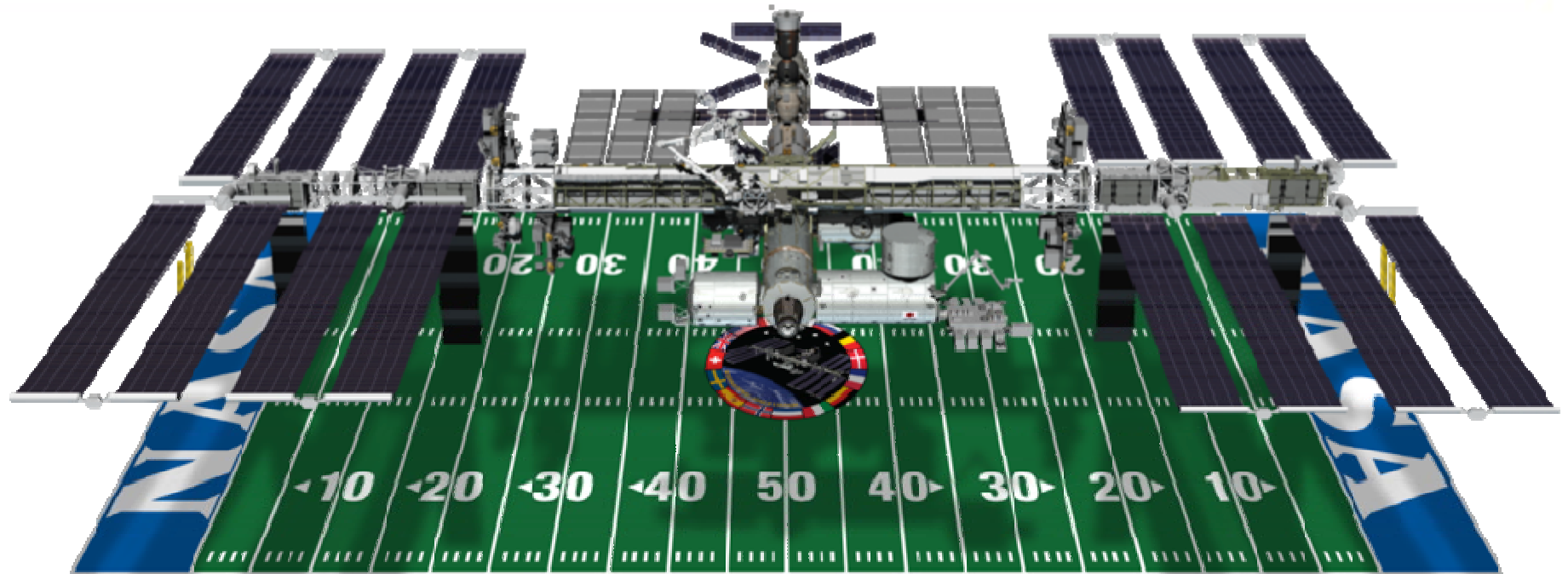


Image courtesy of NASA

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Why Space?

Extreme Conditions

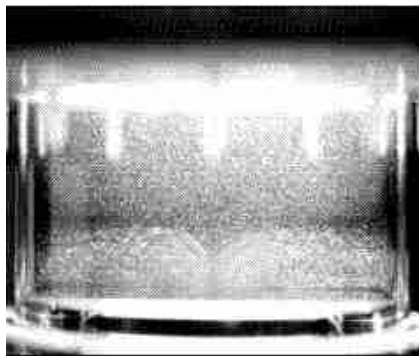
Structural Degradation



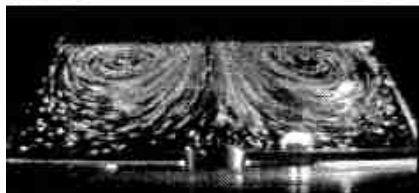
Microgravity

Thermo-capillary flows

Earth

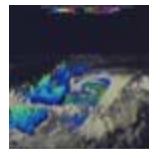


Space



Low Earth Orbit

Tracking Algal Growth

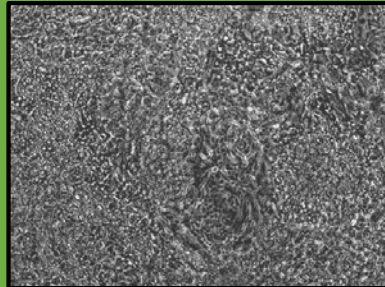


Images courtesy of NASA

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ISS U.S. National Lab: Expanding the Frontiers of Science



**Accelerating
U.S. Innovation
and Commercial
Space
Leadership**

**Pursuing
Groundbreaking
Science,
Technology &
Innovation**

**Captivating and
Empowering the
Next Generation
with ISS STEM
Opportunities**

Working with NASA to Access the ISS U.S. National Lab

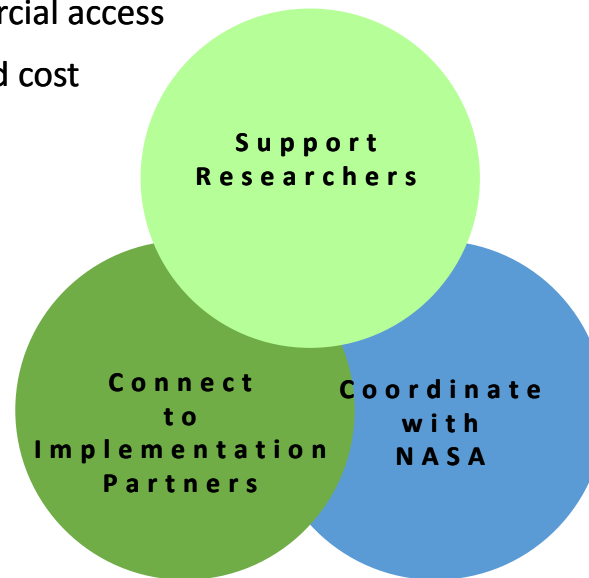
CASIS facilitates:

- Translation of ground-based studies
- Logistics for data acquisition, sample recovery, data/software interfaces
- Support of real-time, in-orbit operations
- Contingency plans to improve science



The ISS U.S. National Lab enables:

- Resource availability
- Commercial access
- Reduced cost

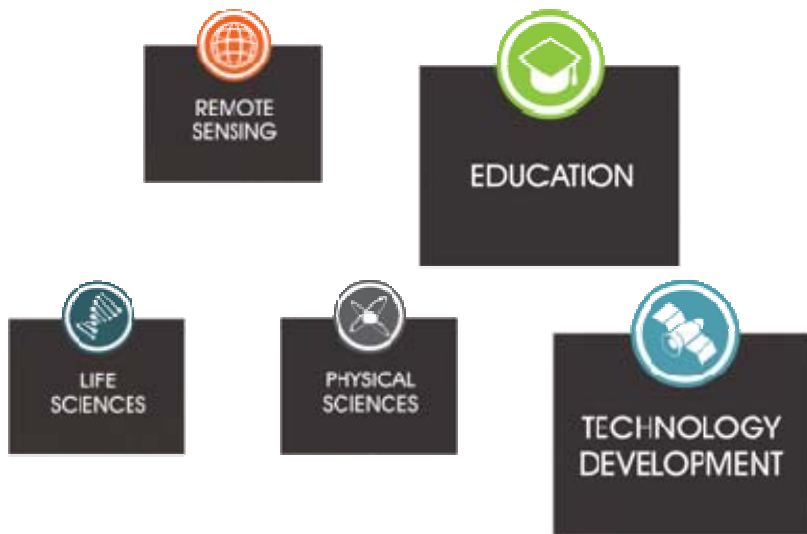


Images courtesy of NASA

The ISS U.S. National Lab

The ISS U.S. National Lab provides opportunity for research and discovery targeted to a definitive impact on Earth

The opportunities are wide-ranging:



IMPROVE LIFE ON

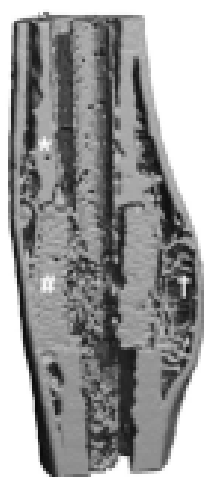




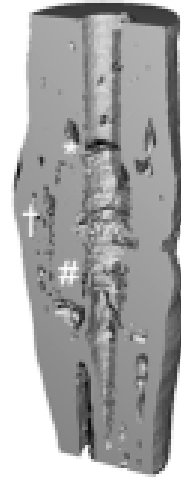
Control



FDA approved drug



New drug



Life Sciences

Images courtesy of NASA

Item: Focused on the Next Generation

Engaging and Empowering the Next Generation with ISS STEM Opportunities





Education

Image courtesy of NASA

Zero Robotics

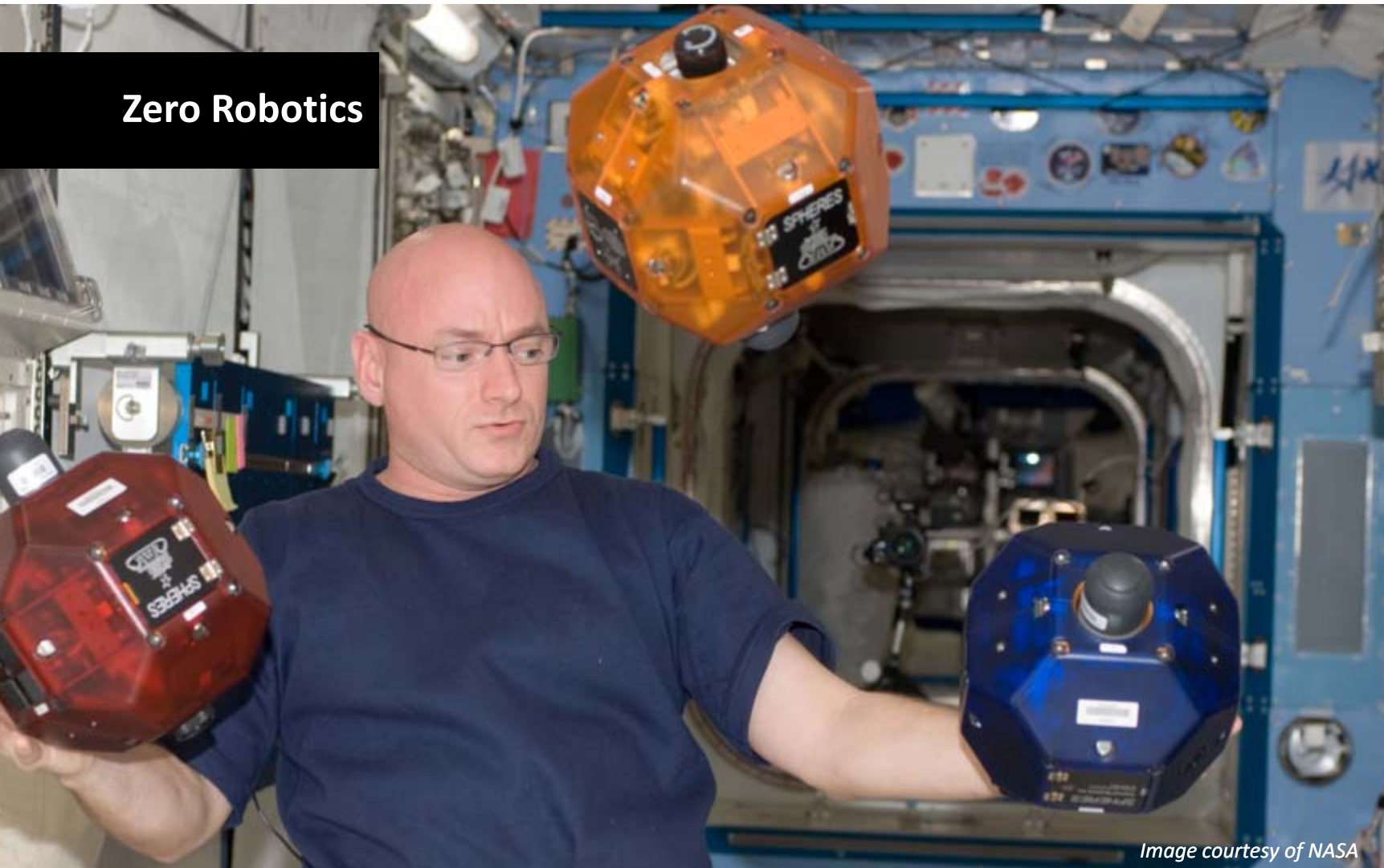


Image courtesy of NASA

What the Future Looks Like

We are making progress toward creating a sustainable LEO marketplace

- CASIS cultivates both demand and supply (commercial facilities) as well as facilitates investment to enable economic development of LEO
- The creation of a vibrant and sustainable market in LEO supports the use of the ISS through 2024 and future stations beyond

We are creating value

- We have completed a baseline value impact review and will continue to validate results going forward
- We will use our new value impact methodology to improve our portfolio and ISS U.S. National Lab results
- The ISS U.S. National Lab is a platform for value creation for the American public and the U.S. economy