

Opportunities aboard the International Space Station

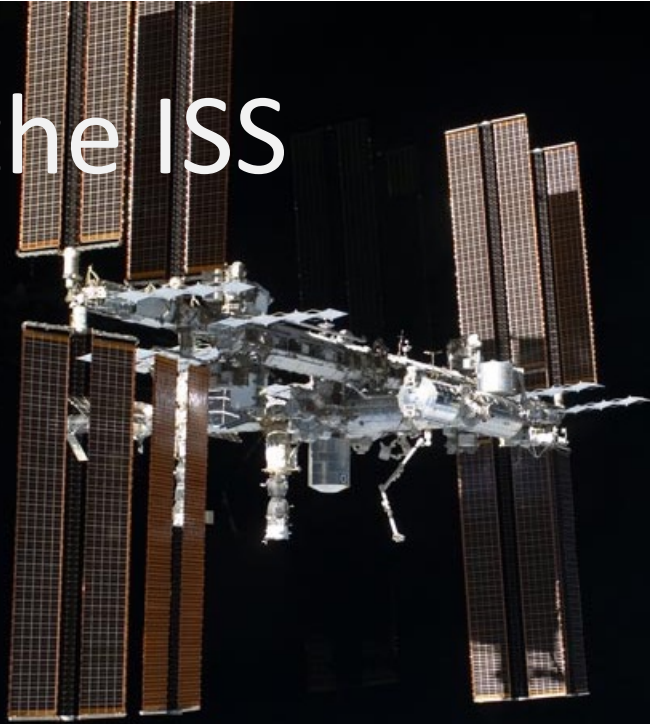


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Ted Tagami CEO, Magnitude.io



About the ISS



- 450 tons
- 7.66 km/s
- 400 km altitude
- 17+ years
- 230+ people
- 18 countries
- 2400+ experiments
- 103 countries

<https://www.iss-casis.org/>

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- Project Based
- K-12 Education
- NGSS Standards
- Award winning



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CanSat

- Simulated Satellite
- 66 mm diameter
- 122 mm length
- 350 grams

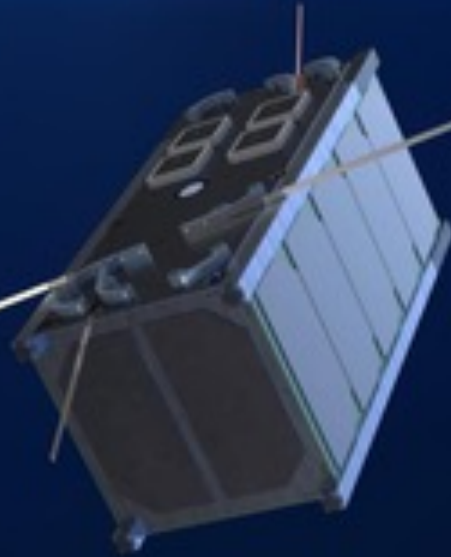


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CubeSat

- 10 cm cube
- 1.33 kg



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Intermodal

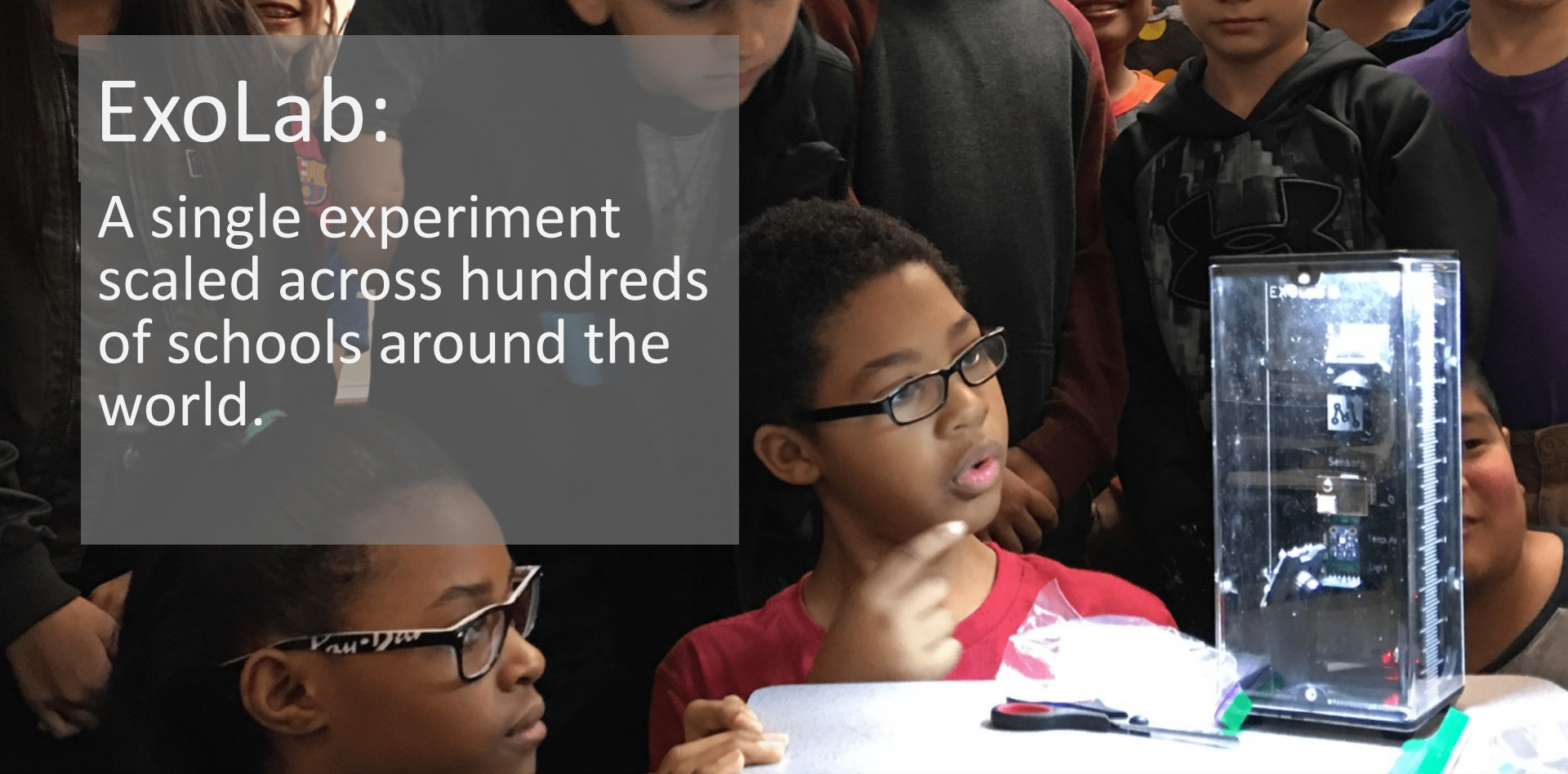


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ExoLab:

A single experiment
scaled across hundreds
of schools around the
world.



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Time Lapse



CASIS

Center for the Advancement of Science in Space

- Funded by **NASA**
- Half of astronaut time
- Half of the up-mass



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Partner Opportunities

1. Research
2. Investment
3. Education
4. Commercial

ISS Advantages

- Gravity as a variable
- Extreme environment
- Earth observation



Research Capabilities

- Plant biology
- Rodent research
- Protein crystal growth
- Materials testing
- DNA sequencing



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Research Areas

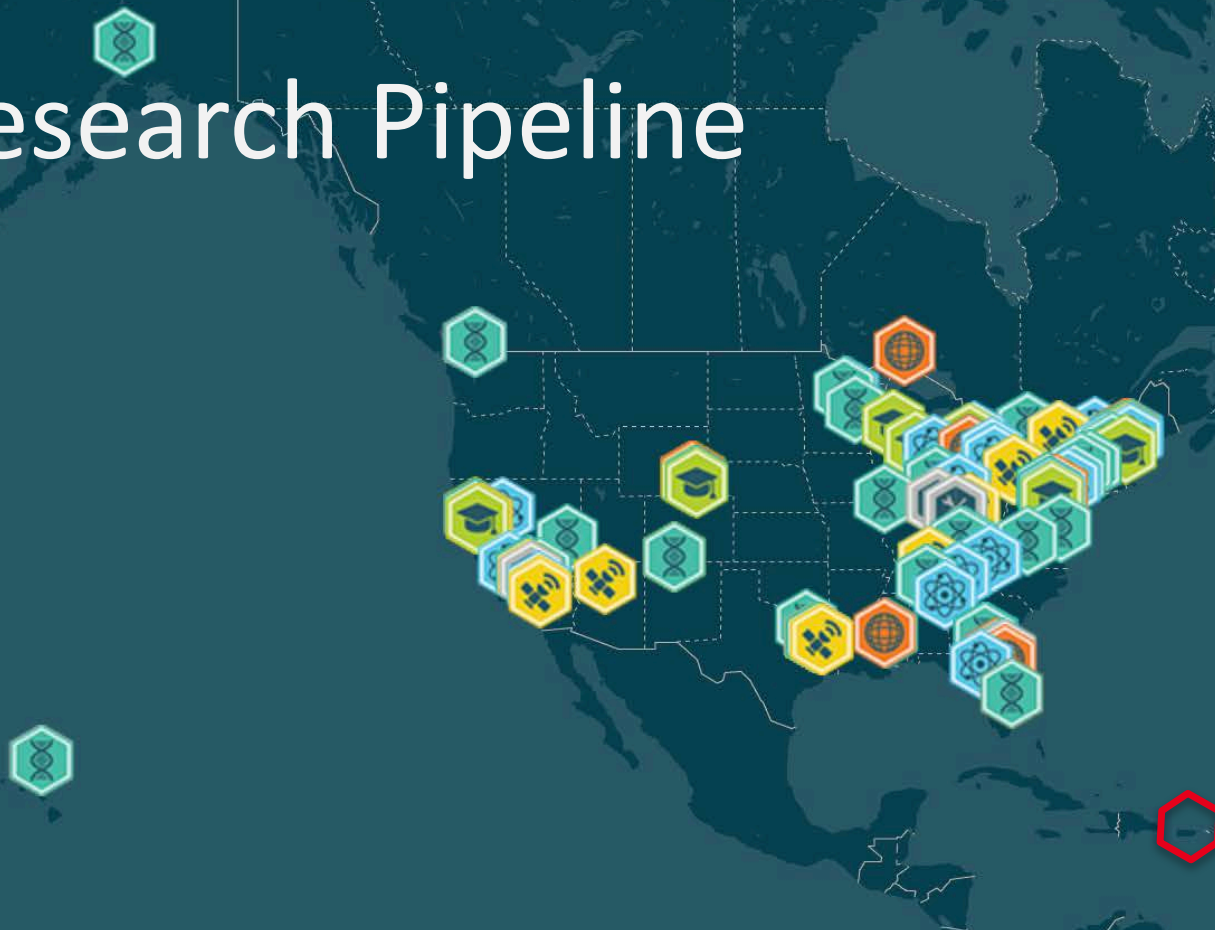
- Physical Sciences
- Life Sciences
- Tech Development
- Remote Sensing
- Education



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Research Pipeline



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Solicitations

Example: MUSES

Multi-User System for
Earth Sensing

\$4.5 million Award

Step-1 due: **28 SEP 18**

RFP No. CASIS 2018-3



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Competitions

- Astrobee
- Genes in Space



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Proposals

- Scientific
- Technical
- Education
- Commercial

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International Space Station Puerto Rico Challenge

#RetoPR



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Questions?

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