

ISS Commercialization Group 8 - Final presentation

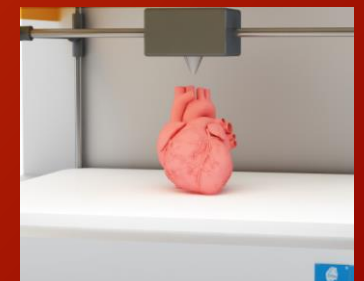
- Ideation:

- What can be done in space? Value assets from space?
- Global themes & challenges / earth services translation: what can be helped by space value assets?
- What can be helped by ISS value assets? (earth viewing, space viewing, microgravity, radiation, space exposure)



- What could be your service / product?

- What is idea of service / product using space value assets for earth benefit?
- Who would be stakeholders?
- Who would be users / customers?
- How to test / utilize ISS?



Why? What is proposed service / product?

*Small Free-flyer
Can be supported by ISS crew
Allows for flexible and
modular operations*

Who users / customers? Stakeholders?

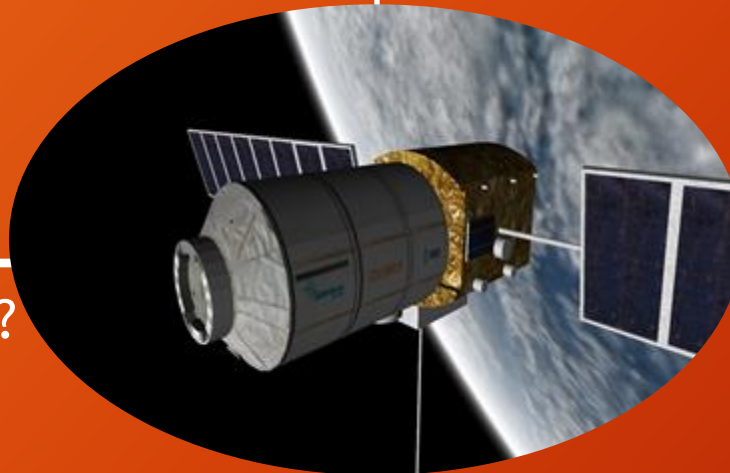
*Users from space station
Universities / research centres
companies*

Which ISS technical capabilities?

*Docking / undocking
Crew support
Resources*

ISS commercial application

*Free Flyer offer making use of
ISS capabilities for flexible
usage*



Human Free Flyer



Why? What is proposed service / product?

Save lives
Predict natural disaster
Manage catastrophic events

Who users / customers? Stakeholders?

Governments
Population
Humanitarian associations
Construction companies

Which ISS technical capabilities?

Earth observation
Communication means
International

ISS commercial application

Analyze images from ISS,
characterizing events with a
risk level. When it is higher
than a threshold,
communicate useful data to
government



Natural Disaster prediction



Why? What is proposed service / product?

*Security through space assets
by linking to satellites*

Who users / customers? Stakeholders?

*Agencies / governments
Companies*

Which ISS technical capabilities?

*Base for coordination
Communication*



ISS commercial application

Security through space

Why? What is proposed service / product?

*Machine Learning &
Space Imaging for Prediction
of natural disasters*

Microsatellite constellation

Who users / customers? Stakeholders?

*Stakeholders:
Governments*

*Costumers and Users:
Public transport
Hotels
Farmers*

Which ISS technical capabilities?

*Proof of concept
Maintaining the service*

ISS commercial application

Small satellite inside of it



Space for Earth



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THANK YOU -ありがとうございました
Arigatōgozaimashita

