

Hackaton - ActInSpace

DoubleEnum Group

2022-11-18, 2022-11-19

Notes

Project idea

- TODO: SpaceY ?

Problem Description

Find new ideas based on Earth technologies to build the next Space generation. We are looking for exceptional Earth developments with a clear relevance for Space that promise to have a lasting influence on our daily lives. This can be anything developed on Earth and adapted to the Space environment such as: Hardware, Industrial processes, Applications, Business models, etc. . .

Anything that we can make here on earth and put it in space. It has to have a clear purpose.
The only possible limitation is our imagination and knowledge

Outcome Key-points

- Profitable (*Viable*)
- Desirability (*Clear market*)
- Feasibility (*Possible*)

Market Examples

- Earth observation and environmental monitoring
- Mobility and transportation
- IoT/M2M Space connectivity
- **Space exploration** and the sustainable use of space
- Agriculture, life sciences and health
- Microgravity and materials research
- New and sustainable technologies and services

Brainstorming Session

- Climate change, monitoring temperature. Heat maps.
- Something hardware related
- 3D printing (related)
- space exploration(s)
- sending a *specimen* (of something) to the ‘moon’/space. Make something useful for it.
- [?] the removal of debris from space - space debris or space junk as they do not serve any purpose
- Different types of debris - payload (fragments from wear and tear/ collisions); mission related objects
 - Critical to have a check on them as they cause collisions with space stations/ operational satellite

- ‘*Google Maps*’ for space (solar system)? There doesn’t seem to be a model for that.
- VR/AR Traveling
- Look for a distribution table of debris sizes
- Put the data of the debris (Size, Speed, Whatever)

Initial brainstorming outcome: a space debris collecting **robot**

Space debris collecting robot



Figure 1: debris inspiration