

Design Thinking project 19-23 March– 14/15 year-olds

Theme of the project:

Space awareness and Planet Earth: How might we solve problems of your own world, country, region, city, school or maybe your own family by Observation of the Earth from the space.

The students will be inspired by the Copernicus program of ESA and the possibilities of the Sentinel satellites in order to develop their own idea(s) and planning for a startup business using data from satellites.

Main objective:

Each group of 4 students will develop a plan and prototype for a startup business and present their ideas and prototype for their startup with a final pitch at the end of the week.

Objectives for Space component part of the project

- create in the students awareness of and enthusiasm for space projects, and in particular for satellite projects and ventures.
- give the students an overview of the scale of activities in space: not just the ISS and travel to the Moon, but thousands of satellites with very diverse objectives and applications.
- give the students a feeling of the overview effect experienced by astronauts as they view our planet from space: the Earth is a fragile system that supports life in many forms, and that we all should cherish, protect and share in peace.
- inspire the students to the (business) opportunities available to everyone by exploring and using the data collected by Earth observation satellites (in particular the Sentinel satellites) and which is publicly available (=free to use).
- give the students the opportunity to discover the type of data and possibilities made available by Earth observation satellites (such as the Sentinel satellites).
- give the students some inspirational examples of the use of satellite Earth observation data, both on a global and on a local scale.

- give the students a view of what a (space) startup business is and what is necessary in order set up a space startup business.
- awaken in students a sense of empowerment: that they too can come up with ideas for the use of satellite data, and which can help tackle or solve actual problems (global or local) in the world we live in.

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