ActInSpace CHALLENGE

cnes CENTRE NATIONAL D'ÉTUDES SPATIALES

esa space solutions

BE A NEW SPACE PLAYER

SEE THE WORLD WITH A NEW PERSPECTIVE

A simplified and cost effective optical design

NUMBER

CHALLENGE FROM

esa

FROM SPACE

Imaging spectrometers are important optical instruments, which are used among others in space missions for Earth Observation and Science.

ESA has developed a design of an imaging spectrometer (EP3301415B1) that allows more compact and cheaper optical designs. Thanks to the flexibility to change the spectrometer magnification, the telescope design is simplified.
The number of optical elements and multiple reflections on the same optical element is minimized which translates in a reduction of the overall size of the spectrometer and can therefore save costs and mass.

TO THE CHALLENGE

Imaging spectrometer have a broad range of terrestrial applications control of food quality, control of industrial processes, environmental monitoring, materials identification, energy applications (e.g. biofuels analysis and control of photovoltaic panels), medical applications, forensic science.

Your challenge is to identify which market will be easier/faster to penetrate, based on the advantages offered by this solution.

Analyze the potential market for your product and work on a effective market strategy. Identify who are your key partners and how you will associate to them. Build your business plan.

ActInSpace business sectors

- ENERGY -
- IT -
- IOT -
- HEALTH -
- SECURITY -
- ENVIRONMENT -
- AGRICULTURE -
- OTHER -