



ActinSpace 2020

Contribution to Access to Space for All

Scientific and Technical Subcommittee 2020













A worldwide reference space hackathon created by CNES in 2014 and organized jointly with ESA since the 2nd edition.

24 hours over 2 days simultaneously all over the world to imagine the uses and products of tomorrow based on space technologies, backed by coaches and international space experts in real time.

> #AIS 2020 will be the 4th edition of the event created in 2014.



ACTINSPACE ORGANIZATION CHART



AIS Project Management

Organizing partner







space solutions





International Project Operator





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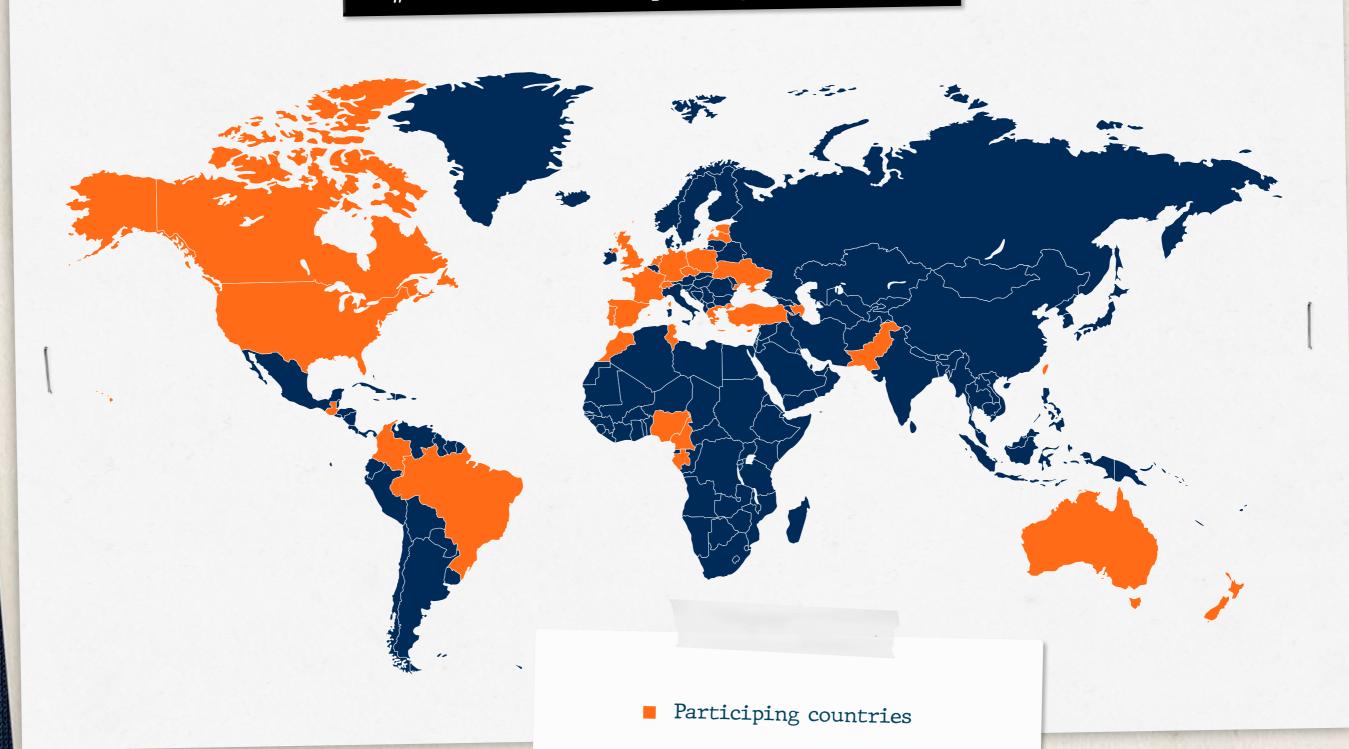






EXPANSION OF ACTINSPACE

#AIS2018 Participating Countries



ACTINSPACE



esa

space solutions

EXPANSION OF ACTINSPACE

PROJECTION

#AIS2020 Participating Countries



ACTINSPACE



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THIS EDITION WILL BE PLACED UNDER THE SIGN OF DIVERSITY AND FOR THE USE OF SPACE TOWARDS THE BENEFIT OF MANKIND AND PLANET EARTH.

MANKIND AND PLANET EARTH:

by addressing environment & health related issues sponsored by











DIVERSITY:

by showing that everyone, everywhere can make business in space downstream sectors.







DIVERSITY:

ACCESS TO SPACE FOR ALL

AIS IS OPEN TO EVERYONE

- No matter your origin, gender or background, you all have something to contribute.
- The qualities of each serving a team will allow you to meet the challenges that we are launching for you.
 - No needs to have skills in space, all profiles are welcome to create.

CNES CENTRE NATIONAL ActinSpace CHALLENGE eesa CNES#03 LOAD-UP WITH CHALLENGE FROM GEOMETRIC PATTERNS Antenna optimisation using intricated patterns cnes PLAYER FROM SPACE For reconfigurable multifrequency satellite antennas, the surface area is divided into several antennas placed side by side. Cnes has developed a process (FR2981514) using the same surface area with intricated geometric patterns producing new radiating units. The resulting radiating units perform very well and the system is robust. The units work on a large frequency range, they have little sensitivity to parasites, the system is light and has no mechanical TO THE CHALLENGE Find applications for this technology in the fields of : telecommunications, transmission security, radar applications. Imagine applications that are well suited to such antennas using its key advantages : compactness, lightness, simple mechanical engineering and shielded from parasites. Make a commercial brochure that highlights the application fields and the advantages brought by such a technology. Define your business plan. Find the markets with the highest potentials and target the ActInSpace business sectors

After ActInSpace?

CNES and its partners commits to help the teams to develop their project even if they are not laureates, and no matter where they are located.



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DIVERSITY:

SPACE BUSINESS APPLICATION FOR ALL, EVERYWHERE

AIS AIMS TO CONTRIBUTES TO THE LOCAL SOCIO-ECONOMIC GROWTH

We would like to foster the creation of startups using space based solutions in local ecosystems.

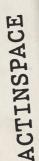
Business in space downstream sectors could be developed everywhere: in developing countries or countries without space agencies & space industries













ONGOING ACTIONS

TO PROMOTE ACCESS TO SPACE FOR ALL





Through our partnership,
ActInSpace is expanding
all over the world especially
in Africa and in Asia.

We are working to attract more women to the event by planning a dedicated communication for women.









AIS CHALLENGE WILL BE ACCESSIBLE FOR ALL NO MATTER THE PARTICIPANTS BACKGROUND.



AIS OUTCOMES

STARTUPS CREATION

Number of startup created after AIS

FRANCE 10	GERMANY 3	AUSTRALIA 2	uk 2	GREECE 2
colombia 2	LATVIA 2	POLAND 1	ESTONIA 1	NETHERLANDS 1
LUXEMBOURG 1	TURKEY 1	NIGERIA 1	SPAIN 1	TAIWAN 1

1

USA





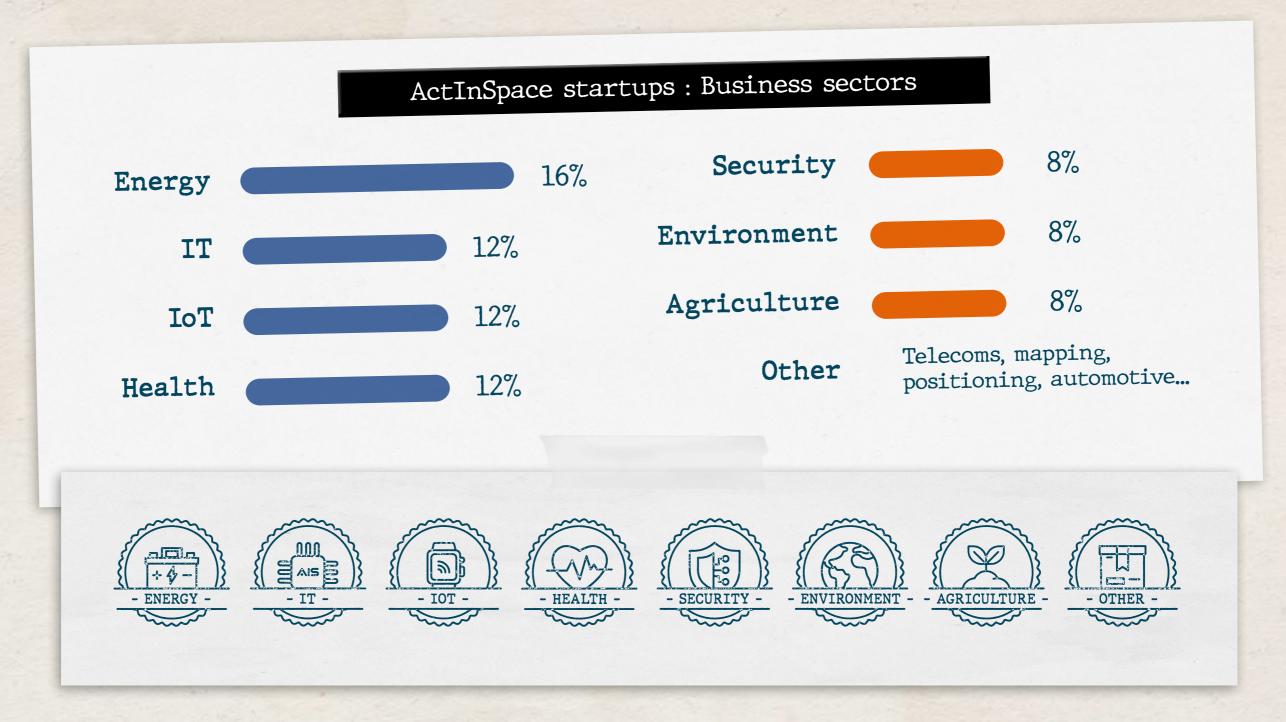






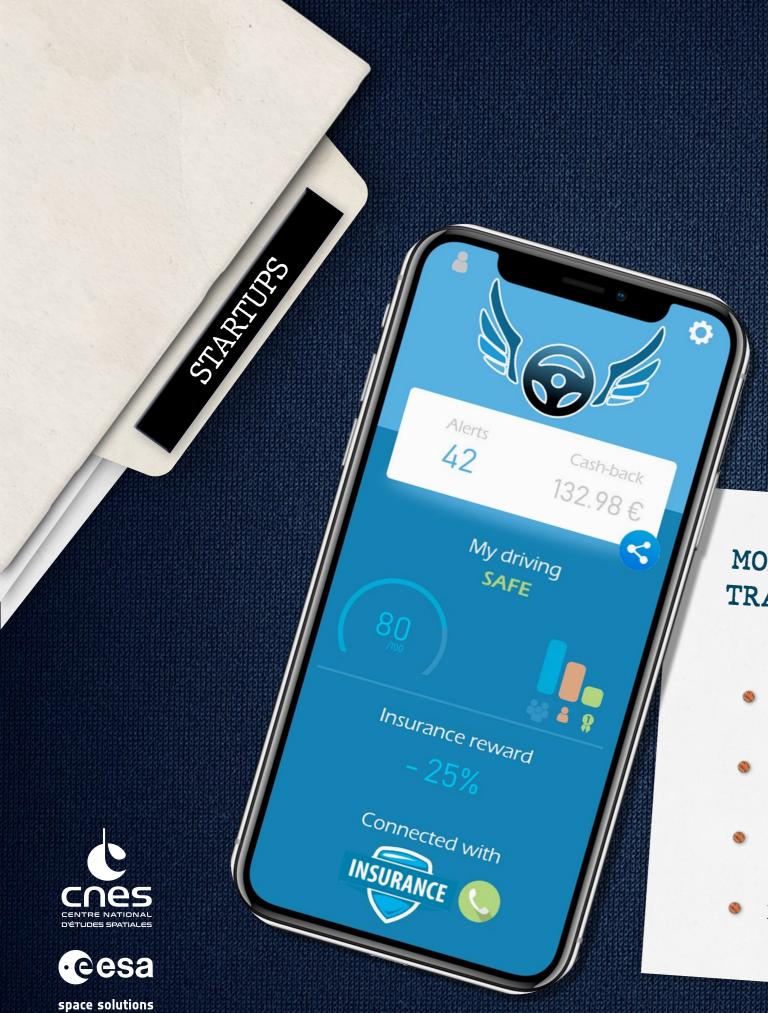
AIS STARTUP BUSINESS SECTORS







FOR AIS2020 A FOCUS IS MADE ON ENVRIONMENT AND HEALTH BUSINESS SECTORS





Lycie is a mobile solution that efficiently reduces the number of road traffic accidents and saves lives. Prize winner at both ActInSpace France and Galileo Masters, it uses a CNES patent based on artificial intelligence to detect abnormal behaviour either on the road or inside the car.

MOBILE SOLUTION THAT ACTIVELY PREVENTS ROAD TRAFFIC ACCIDENTS BY TAKING INTO ACCOUNT THE DRIVER, THE ROAD AND THE ENVIRONMENT

- Based on CNES patent using machine learning to detect abnormal behaviours
- Works on any car either as an application or within the multimedia dashboard
- Learns the driver's behaviour and provides personalised notifications
- Keeps personal data safe



O'Sol develops innovative solar solutions to bring electricity to remote locations or emergency situations. Its batteries are portable, modular and integrate patented deployment mechanisms. O'Sol also proposes tailored deployment solutions for satellites and nanosats.



- Efficient mechanical deployment
- Highly compact system in folded position
- Simple to install and easy to use
- Diverse applications (photovoltaïc, antennas...)
- Possible reversible deployment



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JOIN AIS!

Have an impact on the world of tomorrow.

Registration opening on February 29th International space hackathon near you on April 24th-25th

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AIS Project Management

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