



A person stands on a dark pier in the foreground, looking out over a calm body of water. In the distance, a bright light source, likely the sun or moon, is positioned directly behind the person, creating a strong lens flare and illuminating the scene. The sky transitions from a deep blue at the top to a warm orange and yellow near the horizon. The water reflects the colors of the sky and the light source. The overall mood is contemplative and serene.

Space Innovation Forum

# ACCESS TO SPACE

December 1–2

# Peter Törlind

Associate Professor at LTU

# SPACE INNOVATION FORUM UNIVERSEH PROJECT

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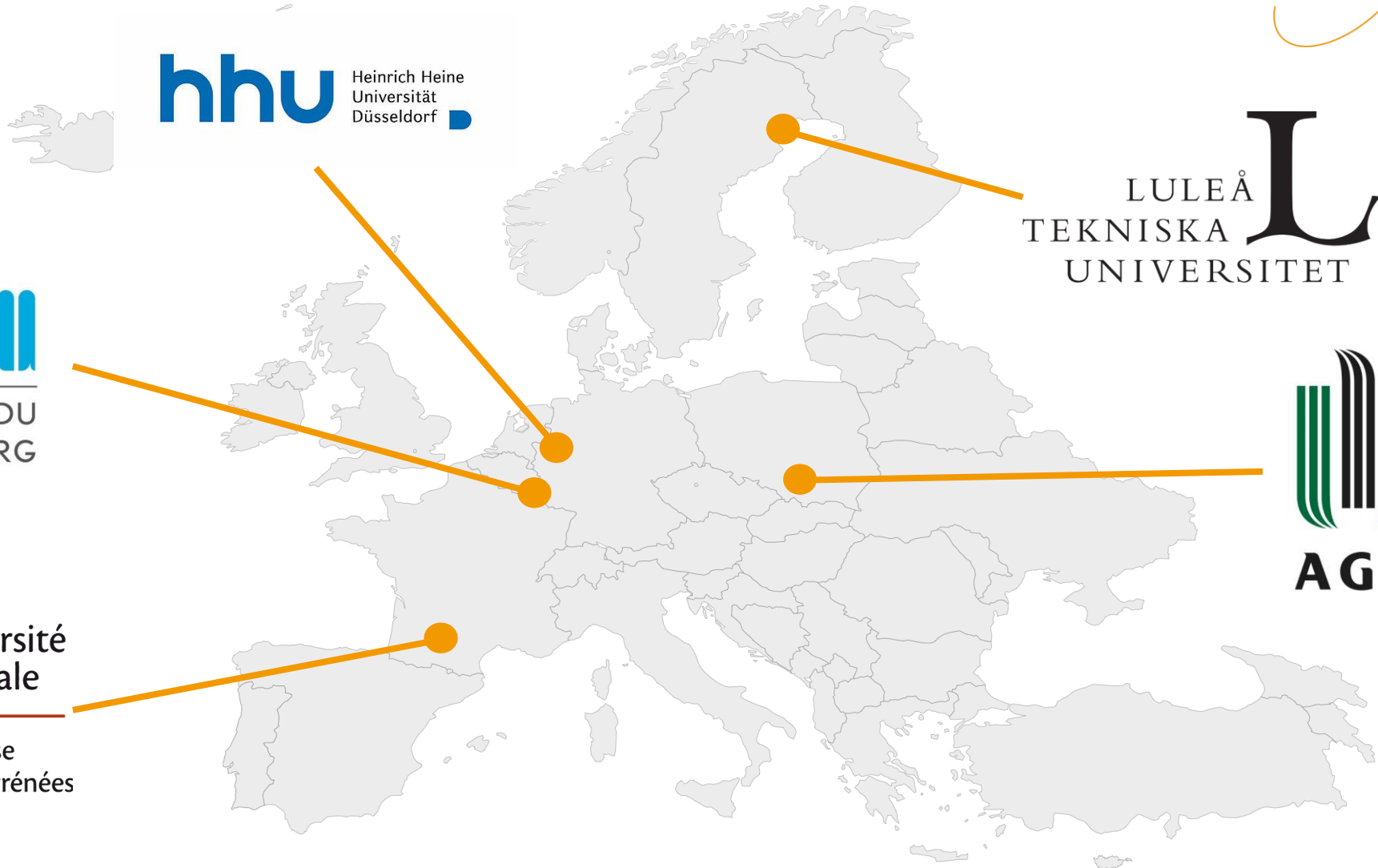


# EU Funded initiative through Erasmus+ **41 Consortiums in Europe**

*“Increase international competitiveness of  
European higher education and bring  
Europeans together”*

# European Space University for Space and Humanity

5 partners



## Why is this important?

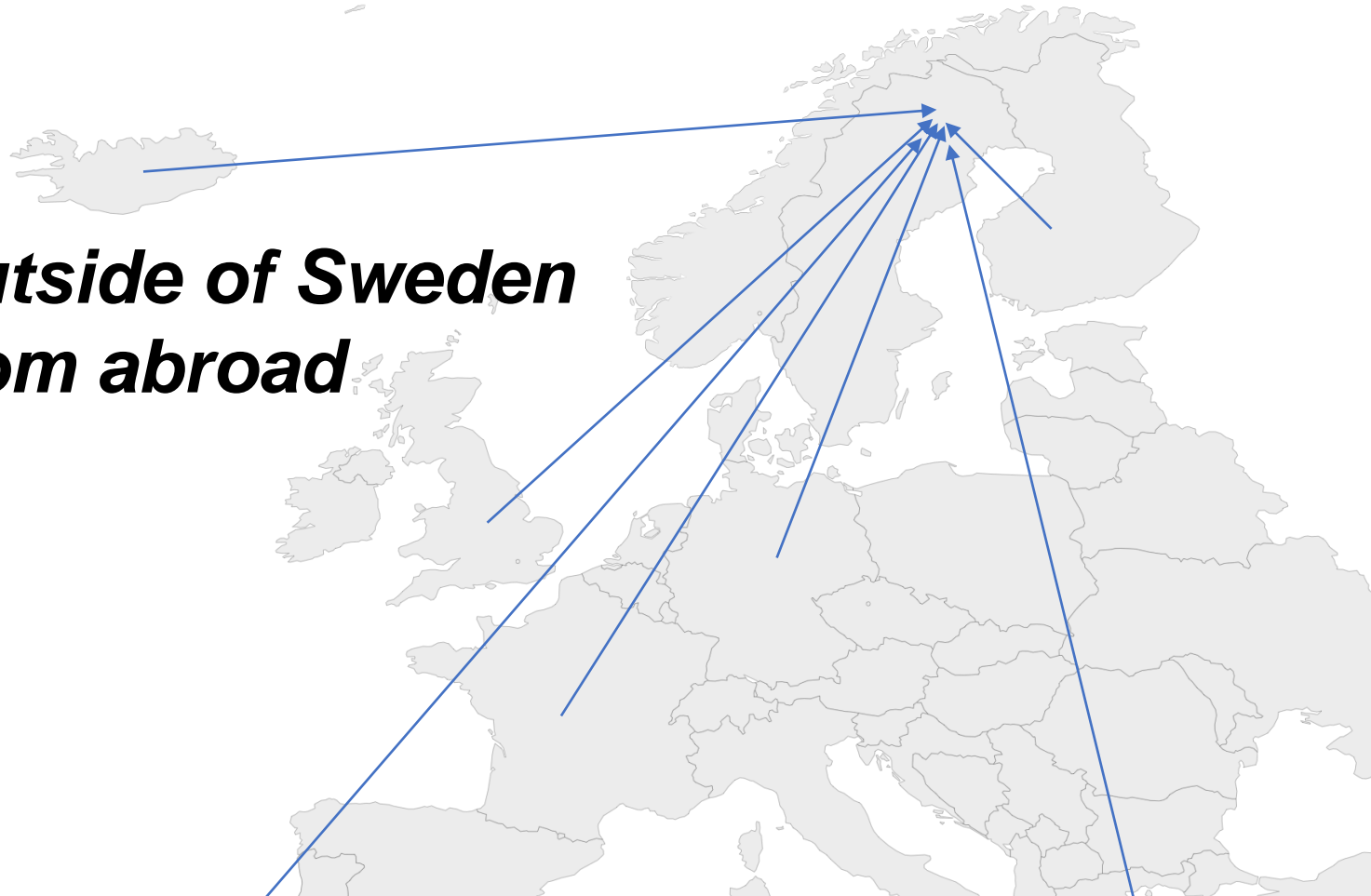


### COMPETENCE

*Space engineering (5 year)  
Master Space Science and Technology  
Master Spacecraft Design*

***For the masters >95% outside of Sweden  
2021 63 new students from abroad  
+ about 30 from Sweden***

***UNIVERSEH will  
enhance this***



## *Mission*



- Offer **innovative and multi-disciplinary courses** to train students for the jobs of today and tomorrow;
- Support **entrepreneurship and innovation**;
- Develop **digital, open science and transferable** skills among students and researchers;
- Contribute to **match skills** of graduates with the **requirements** of the labour market;
- Strengthen the European Union as a global leader in the space domain.



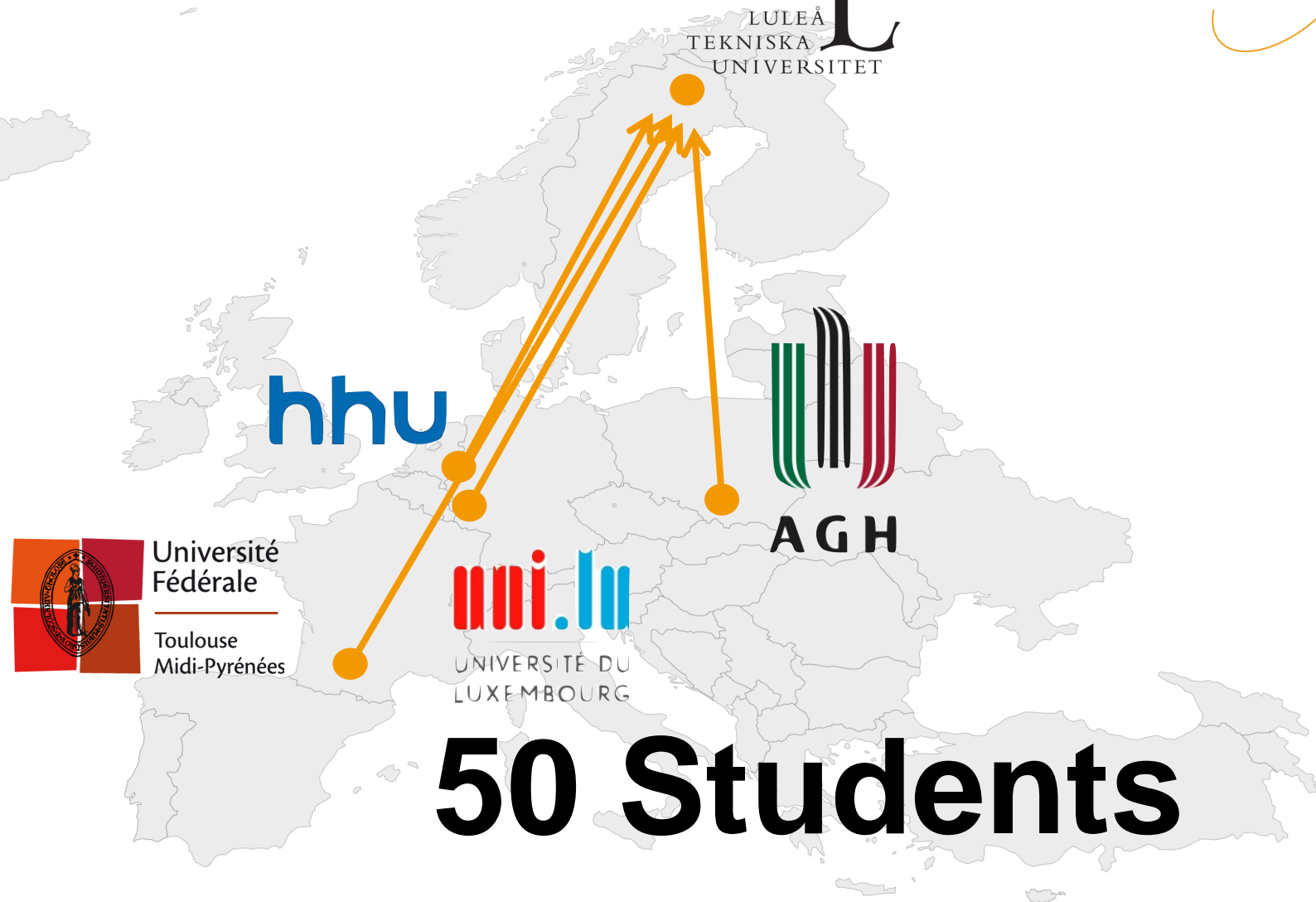
## *Work packages*



- WP1 Project management Toulouse
- WP2 Mobility and multilingualism Düsseldorf
- WP3 Interdisciplinary and cross-sectorial curricula Toulouse
- WP4 Innovative educational models LTU
- WP5 Entrepreneurship and innovation Luxembourg
- WP6 Equality, inclusion, and diversion Krakow
- WP7 Communication and dissemination Toulouse

# Highlight – Arctic winterschool in Kiruna Abisko

February 2022

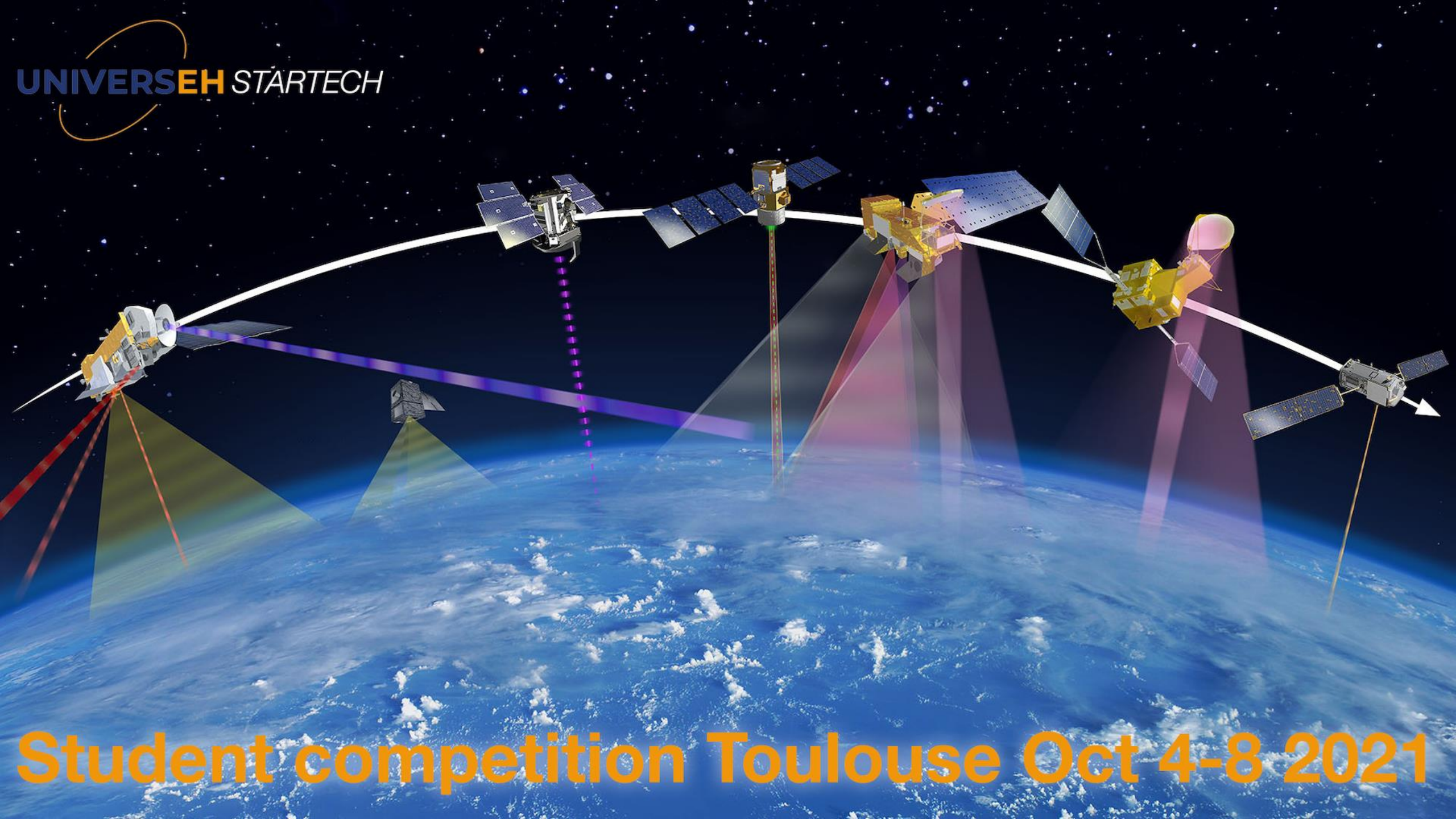


**50 Students**

## WP5 Entrepreneurship and innovation



5.1-2	<i>Develop a common courses and curriculum for innovation and Entrepreneurship</i>
5.2b	<i>Common innovation program with students from all universities, final pitch in Toulouse</i>
5.3	<i>Stimulate entrepreneurial mindset and creativity - <b>workshops, cases, competitions</b></i>
5.4	<i>Project with stakeholders such as industry/NGOs (e.g. ActInSpace) <b>winners get internship</b></i>
5.5	<i>Raising awareness about intellectual property and financing opportunities</i>
5.6	Networking and mentoring program ( <b>workshops, talks, networking, mentoring</b> )
5.7	Practical experience in research and innovation
5.8	Support students entrepreneurial projects





# ***First Startech event – 7 LTU Students***

*Startech event – from geodata to business*



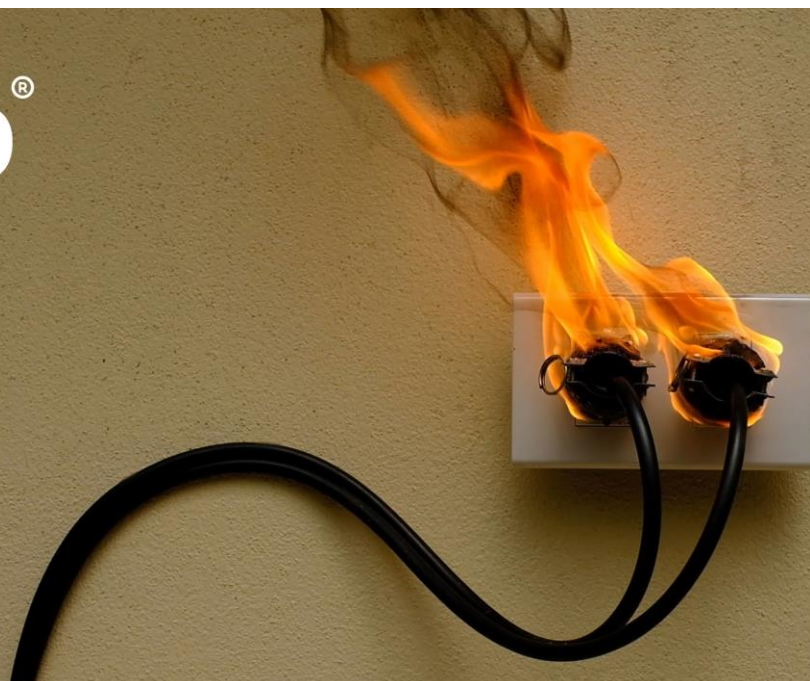
***Next event will be in Kiruna in Nov 22***



## Highlights - Events, Workshops

Short events hackatons, workshops, etc

**Fuckup**<sup>®</sup>  
N I G H T S



# HACKATHON

## SPACEHACK

LUXEMBOURG 2021  
NOVEMBER 12<sup>TH</sup>, 13<sup>TH</sup> & 14<sup>TH</sup>  
VIRTUAL EVENT

SpaceHack is a hackathon, a collaborative event meant to combine the expertise and skills of space and non-space talents in a collective entrepreneurial action. The scope of participating teams is to design innovative concepts that explore the near future potentials of the new space industry.

The hackathon is structured as a team competition of **24hours over three days (3x8hrs)** with the support of domain experts and coaches. It is open to international university/doctoral students, professionals, researchers.

- Contribute to designing the future Lunar settlement foundations
- Foster your entrepreneurial and innovation management practices
- Meet the newspace players from the Greater Region

[www.spacehack.lu](http://www.spacehack.lu)

**REGISTER NOW HERE** Participation is free-of-charge

**In|Tech**  
PostLUXEMBOURG Group

**technoport**<sup>®</sup>  
technology business incubator

Event Ambassadors

# Highlights - Entrepreneurial courses



Oct

Nov

Dec

Jan

Feb

March

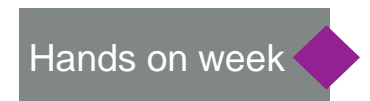
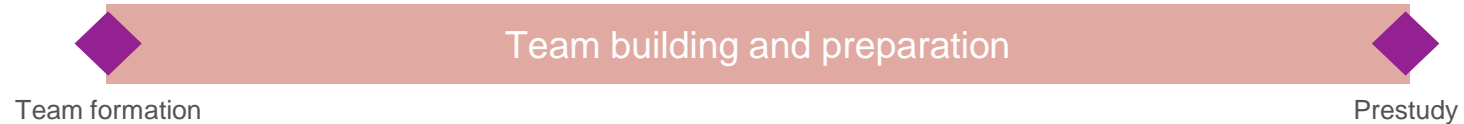
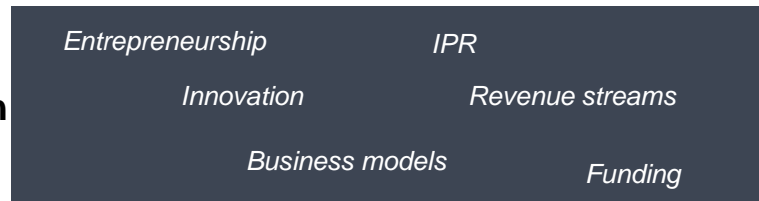
**Business path**



**Central spine**



**Engineering path**



Final pitch & Business plan

## **WP5.4 Project with stakeholders**

*Call for project with stakeholders*



*Network of companies will launch at least one call for **UNIVERSEH students' projects**, with a focus on inter/multidisciplinarity.*

*The 3 finalists will pitch their ideas to the industrial partners (travel costs financed) and the winners will get a traineeship to work on the project at the industrial partners' place.*

*So for the companies – do you have an interesting challenge and want to participate?*



## **WP5.6**

*Networking and mentoring program*



*Tailor-made events for students and staff to unlock imagination and foster entrepreneurial thinking.*

- ***Workshops***
- ***Inspirational talks and round tables***
- ***Networking***
- ***Mentoring***

*So for the companies – should we create a series of information events about your companies?*

## **WP5.7**

*Practical experience in research and innovation*



*Creating opportunities for internship and collaboration with established industry, startups, and grass roots initiatives*

*So for the companies – can we create a couple of internships within space sector in Kiruna?*

## **WP5.8**

*Support to student projects*



*System to support students to develop entrepreneurial projects.*

*Here we have LTU Business and ESA BIC.*

*Do we need something more? What is missing?*

## **Zoom out**

*Why is UNIVERSEH important for Kiruna region*



- **COMPETENCE** – bring in bright students from all over Europe to this region
- **COLLABORATION** – create new ways of meeting students/researchers/industry
- **EDUCATION** – we will create new courses that will be available for students and industry

**UNIVERSEH**

*Summary*



**COMPETENCE**

**COLLABORATION**

**EDUCATION**

## **CONTACTS AT LTU**

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