

LIFTOFF OF UNIVERSEH

EUROPEAN SPACE UNIVERSITY FOR EARTH AND HUMANITY

14 DECEMBER 2020

UNIVERSEH



Co-funded by the
Erasmus+ Programme
of the European Union



UNIVERSEH

European Space University for Earth and Humanity

Kick-Off Meeting
Dec. 14th, 2020

General Presentation

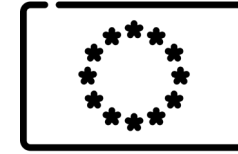
Emmanuel Zenou



01 | Background and Context

An ambitious project...

Conclusions of the 2017 Social Summit in
Gothenburg



Education and Culture

*Education and culture are key to building **inclusive** and **cohesive societies**, and to sustaining our **competitiveness**. In Gothenburg we expressed a willingness to do more in these areas, in which the EU plays an important supplementing and supporting role. As a result, the European Council calls on Member States, the Council and the Commission, in line with their respective competences, to take work forward with a view to:*

(...)

*« **Strengthening strategic partnerships** across the EU between higher education institutions and encouraging the emergence by 2024 of some twenty 'European Universities', consisting in **bottom-up networks of universities** across the EU which will enable students to obtain a degree by **combining studies in several EU countries** and **contribute to the international competitiveness of European universities** »*

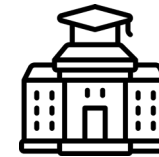
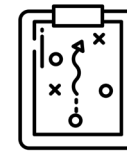
An ambitious project...

Under the ERASMUS framework



«European Universities» have an ambitious mandate aimed to **trigger unprecedented levels of institutionalised cooperation** between higher education institutions, making it **systemic, structural and sustainable**.

More specifically 'European Universities' aim to establish:



- A shared, integrated, **long-term joint strategy** for education with, where possible, links to research and innovation and society at large
- A **European higher education inter-university 'campus'** offering curricula where students doctoral candidates and staff can experience mobility at all study levels
- **European knowledge-creating teams** addressing together societal challenges in a multi-disciplinary approach.

Our ambitious project...

Main concept



Creation of a European University focusing on **space sector**, and taking into account
social, societal and environmental challenges.

A **comprehensive** University focused on the space sector

European Space University for **E**arth and **H**umanity

UNIVERSEH

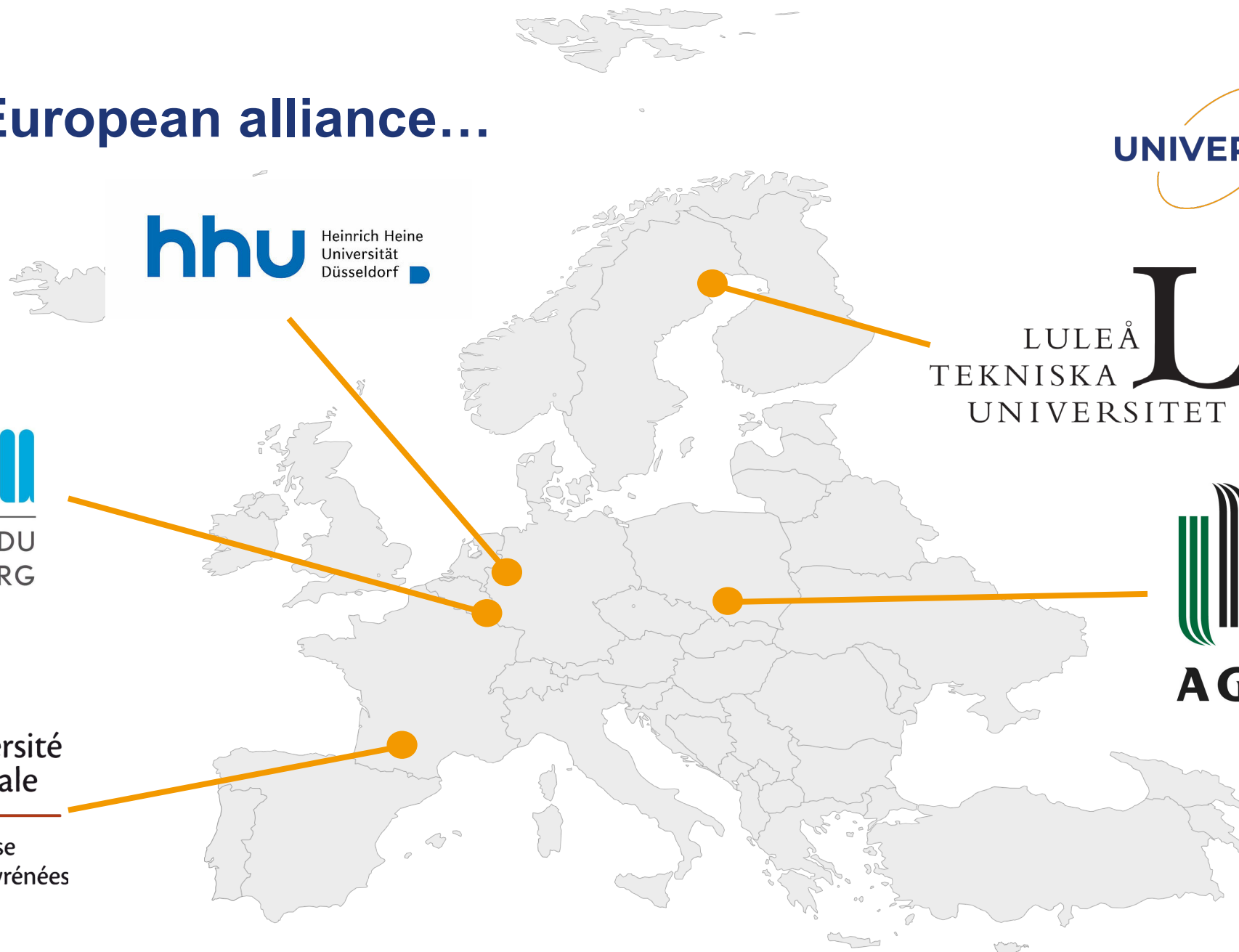
62 applications, 24 EU selected

€ 8.2 M€

02 | The consortium

A pan-European alliance...

5 partners



A pan-European alliance...

Université Fédérale de Toulouse Midi-Pyrénées



23 HEI
1 Univ. Hospital
7 Research Institutions



+9000 Teaching
& Research staff



143 laboratories



100,000 students



City #1 in
France
for Student Life!



Université
Fédérale

Toulouse
Midi-Pyrénées



A pan-European alliance...

Université du Luxembourg



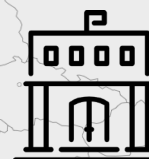
UNIVERSITÉ DU
LUXEMBOURG



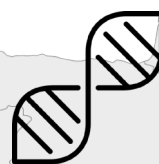
1329 Academic
Staff



6,700 students



3 Faculties
3 Interdisciplinary
Centers



13 Departments
6 Areas of Research
Excellence



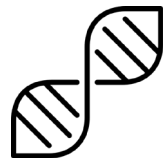
**#1 worldwide for its
“international
outlook”
(THE Ranking)**

A pan-European alliance...

Heinrich Heine Universität Düsseldorf



+36,000 students



1 Cluster of Excellence
4 Collaborative Research Centers
2 Research Units
5 Research Training Groups



275 Professors,
19 Junior
Professors



5 Faculties
1 University Hospital



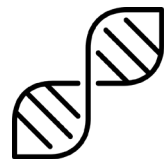
#1 Citizen University
Night of Science Event

A pan-European alliance...

Luleå Tekniska Universitet



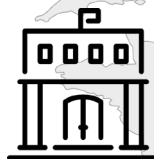
#1 Commissioned
Research with Industry



69 Research subjects
Swedish Space University



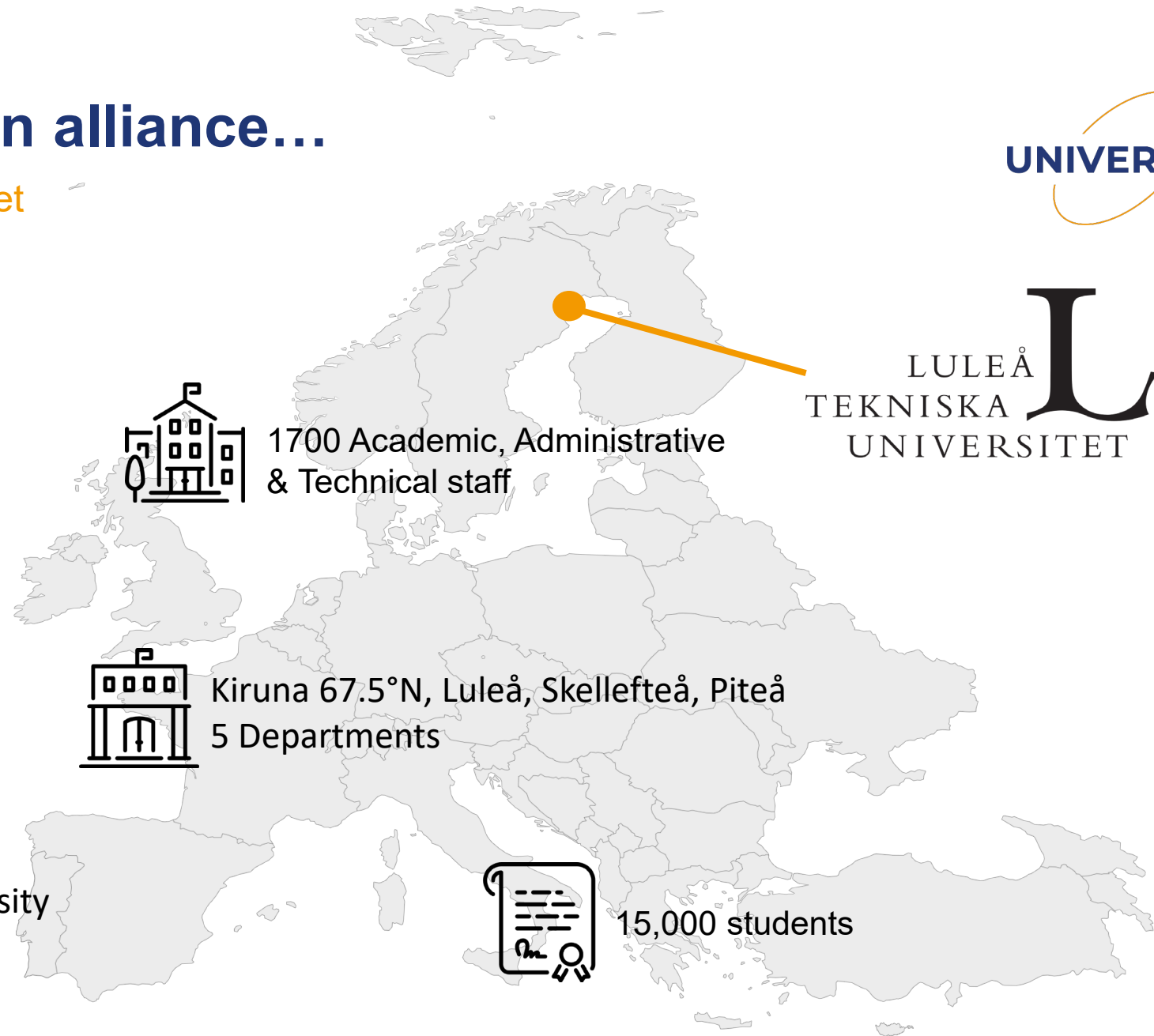
1700 Academic, Administrative
& Technical staff



Kiruna 67.5°N, Luleå, Skellefteå, Piteå
5 Departments



15,000 students

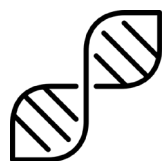


A pan-European alliance...

Akademia Górniczo-Hutnicza im. Stanisława Staszica w Krakowie



#1 Technical University
in Poland



700 Research
Laboratories



+2200 Teaching
& Research staff



8 Fields of Research
75 Spécialisations



+33,000 students



03 | The project

A long-term vision for Education



Within the Space strategy for Europe and the New skills agenda for Europe, UNIVERSEH will assemble European, knowledge-creating teams of **students, learners, academics, researchers, businesses, regional and civil society stakeholders** to:

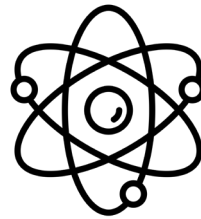
- Offer **innovative and multi-disciplinary courses** to train students for the **jobs of today and tomorrow**;
- Support **entrepreneurship** and **innovation**;
- Develop **digital, open science** and **transferable skills** among students and researchers;
- Contribute to match **skills of graduates**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

A comprehensive University

6 disciplines



Science & Engineering



Economy, Business & Finance



Medicine & Health

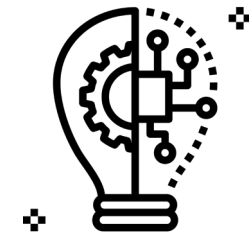
Human & Social Sciences



Art & Cultural Studies



Innovation & Entrepreneurship



The Space sector

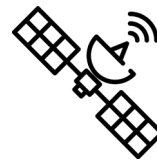
4 sections

Our Earth: Social, Societal &
Environmental Challenges

Sustainable Space

Space Settlement & Resources

Space Exploration & Deep Space



The Space sector

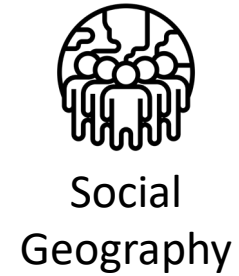
Our Earth

Our Earth: Social, Societal & Environmental Challenges

Sustainable Space

Space Settlement & Resources

Space Exploration & Deep Space



And much more...

The Space sector

Sustainable space

Our Earth: Social, Societal & Environmental Challenges

Sustainable Space

Space Settlement & Resources

Space Exploration & Deep Space



Access to
Space



Space Law



Military
Issues



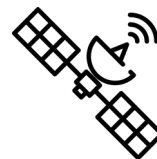
Space Debris



Satellite
constellations



Earth
Observation



And much more...

The Space sector

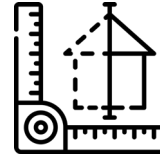
4 sections

Our Earth: Social, Societal & Environmental Challenges

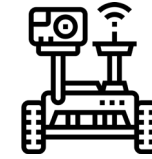
Sustainable Space

Space Settlement & Resources

Space Exploration & Deep Space



Architecture



Robotics @ AI



Confinement



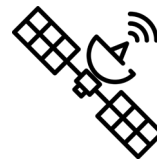
ISRU



Water Mgmt



Telemedicine



And much more...

The Space sector

4 sections

Our Earth: Social, Societal & Environmental Challenges

Space Sustainability

Space Settlement & Resources

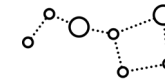
Space Exploration & Deep Space



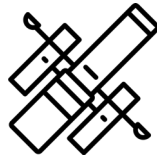
Litterature



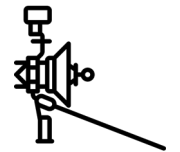
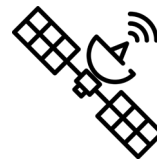
Sci-Fi



Cultural Studies



Deep Space



Space Probes



And much more...

A comprehensive University on the Space Sector



Our Earth

Space Sustainability

Space Settlement & Resources

Space Exploration & Deep Space

Science & Engineering

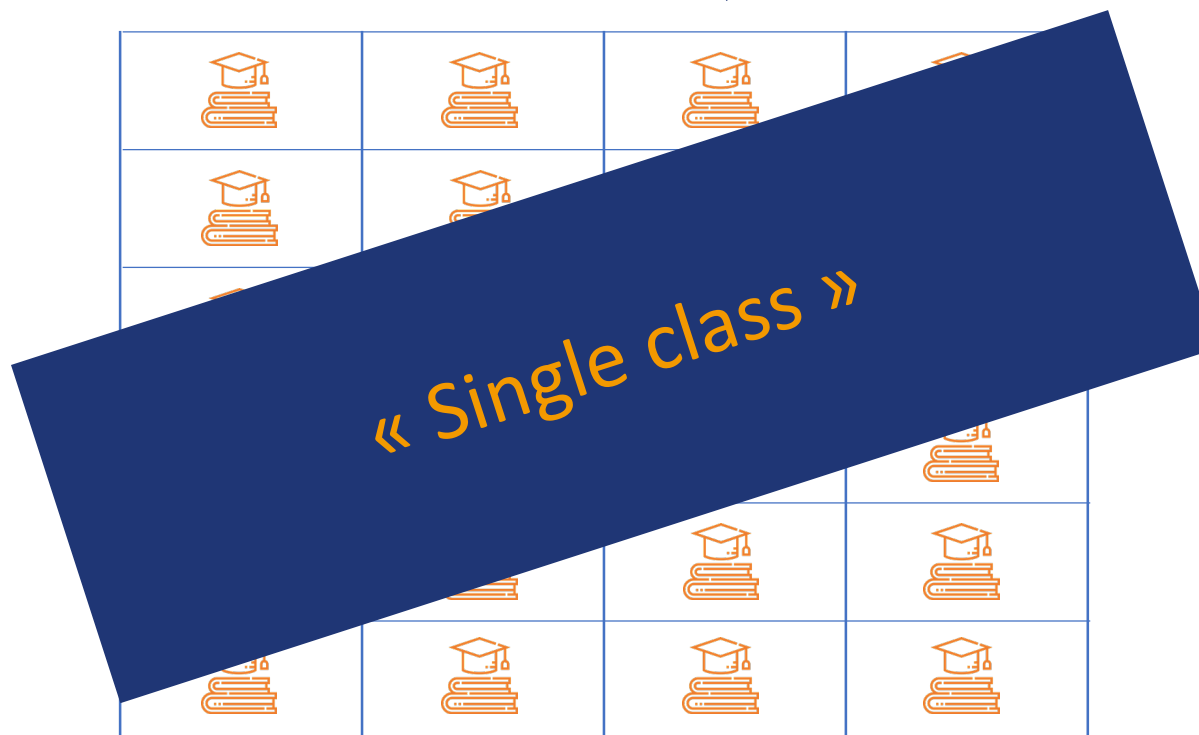
Economy, Business & Finance

Medicine & Health

Human & Social Sciences

Art & Cultural Studies

Innovation & Entrepreneurship



24

Courses
/
options
/
programmes

For Earth and Humanity

A challenge-driven University



UNIVERSEH commits to

- Contribute to the **European Green Deal** to improve the **well-being of people** (climate-neutral by 2050, cutting pollution, clean products and technologies, just and inclusive transition)
- Contribute to the **UN 2030 Agenda for Sustainable Development** and its 17 SD Goals and 169 associated targets
- Contribute especially on SDG #4 (on **equal access** for all women and men to education), SDG #5 (on **gender equality**), SDG #8 (on **decent work and economic growth**) and SDG #13 (on **climate change**)
- Promote **civic engagement** and reinforce training and research in **culture, space technologies, infrastructure, services and data** which contribute to provide the EU with the tools needed to address **societal challenges and global concerns**

Innovation and Entrepreneurship

A challenge-driven University



The alliance will:

- Promote **entrepreneurship** through education and business start-up support.
- Collaborate with **local incubators**, including two innovative business incubators accredited by ESA (ESA BIC Sud France & ESA Bic Sweeden)
- Promote work-based learning such as **apprenticeships** and **internships**
- Implement and monitor **new innovative educational models** such as microlearning, student-to-student teaching and learning, virtual classes

European Education Area

EC Initiatives



The Commission is developing initiatives to help work towards a European Education Area. The vision contained within this policy is that, across the EU:

- Spending **time abroad to study and learn** should become the **norm**
- School and higher education qualifications should be **recognised across the EU**
- Knowing **two languages** in addition to one's mother tongue should be **standard**
- Everyone should be able to **access high-quality education, irrespective** of their **socio-economic background**
- People should have a **strong sense of their identity as a European**, of Europe's cultural heritage and its diversity

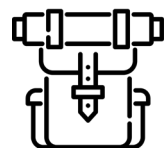
(pathway by 2025)

UNIVERSEH Workpackages

7 WPs



WP5
Entrepreneurship &
Innovation



WP2
Mobility &
Multilingualism



WP4
Innovative
Pedagogical Models



WP7
Sustainability &
Dissemination



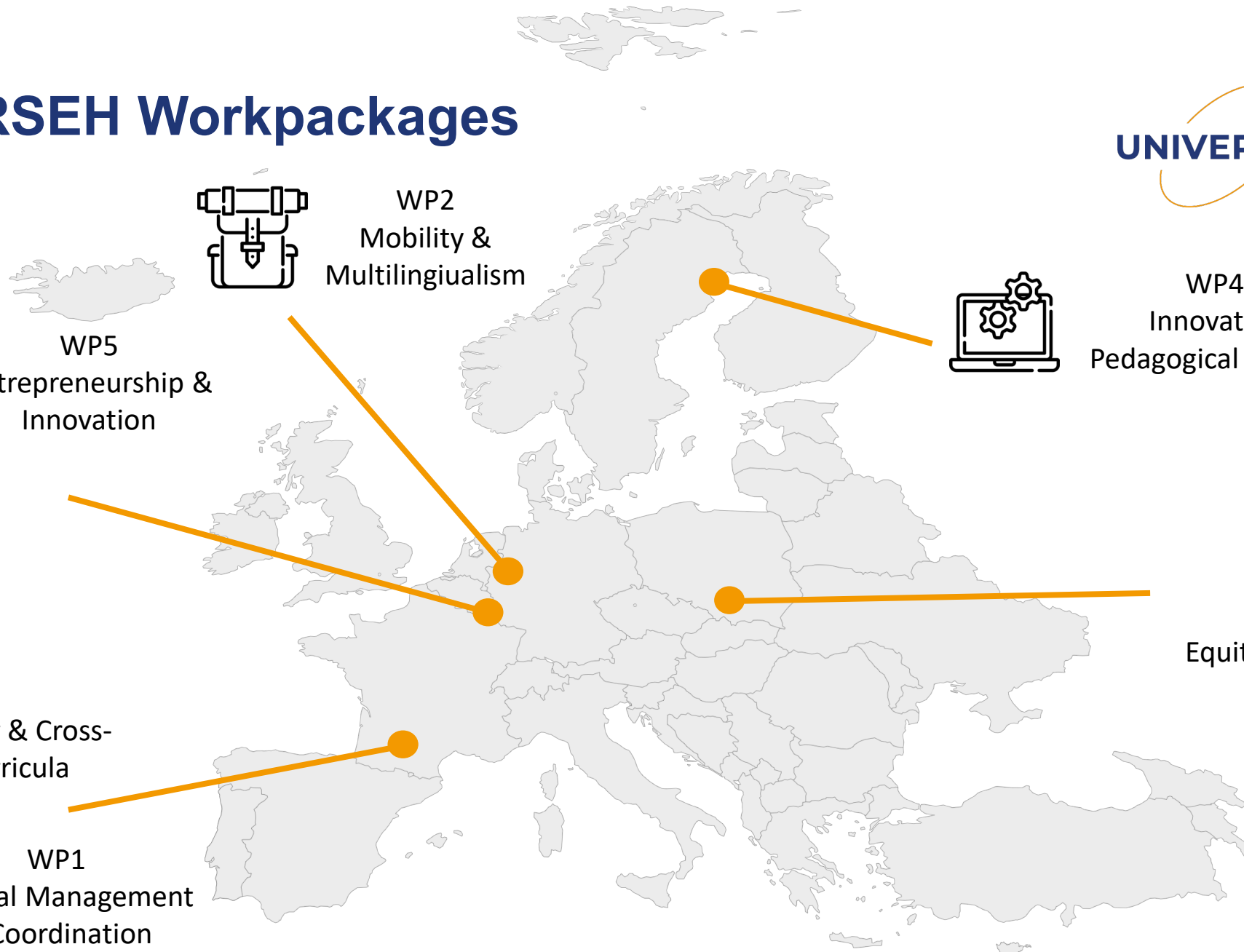
WP3
Interdisciplinary & Cross-
Sectorial Curricula



WP1
General Management
& Coordination

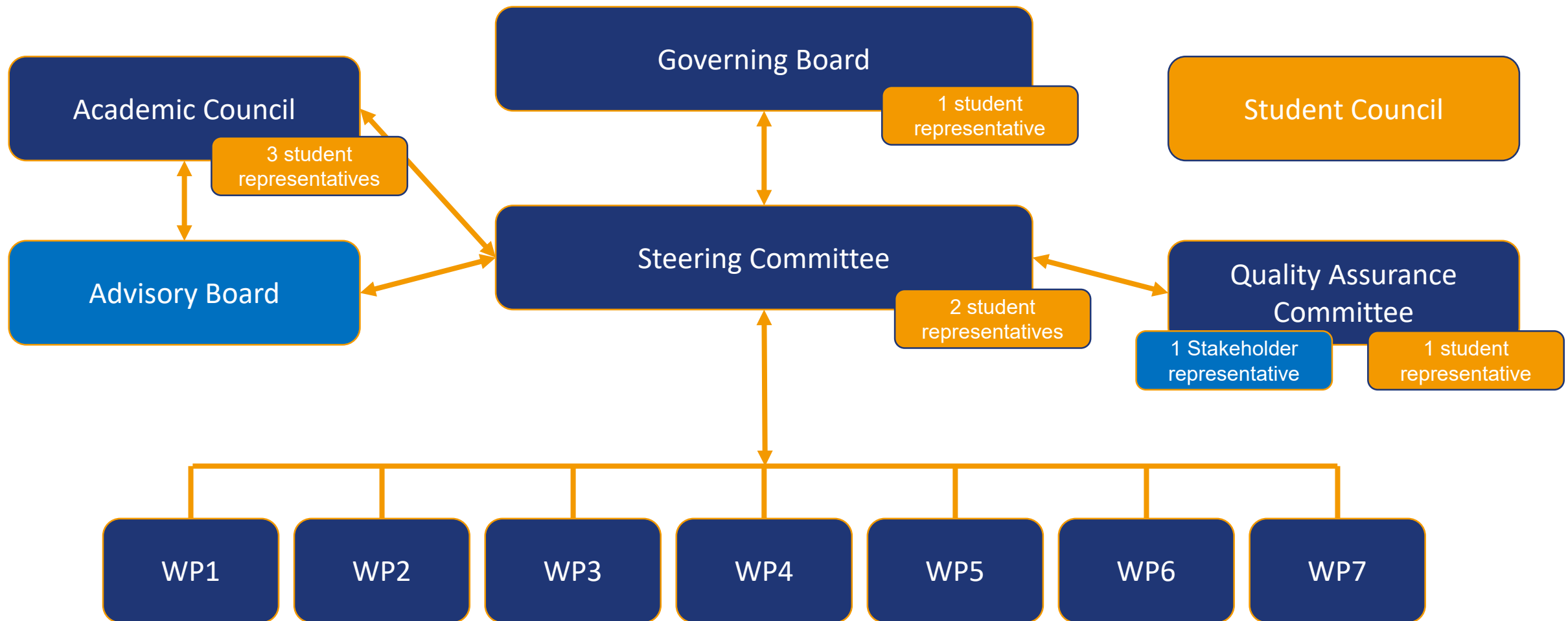


WP6
Equity, Inclusion &
Diversity



03 | Organisation & Teams

The governance



The Governing Board



Anja Steinbeck
President



Birgitta Bergvall-Kåreborn
Vice-Chancellor



Stéphane PALLAGE
Rector



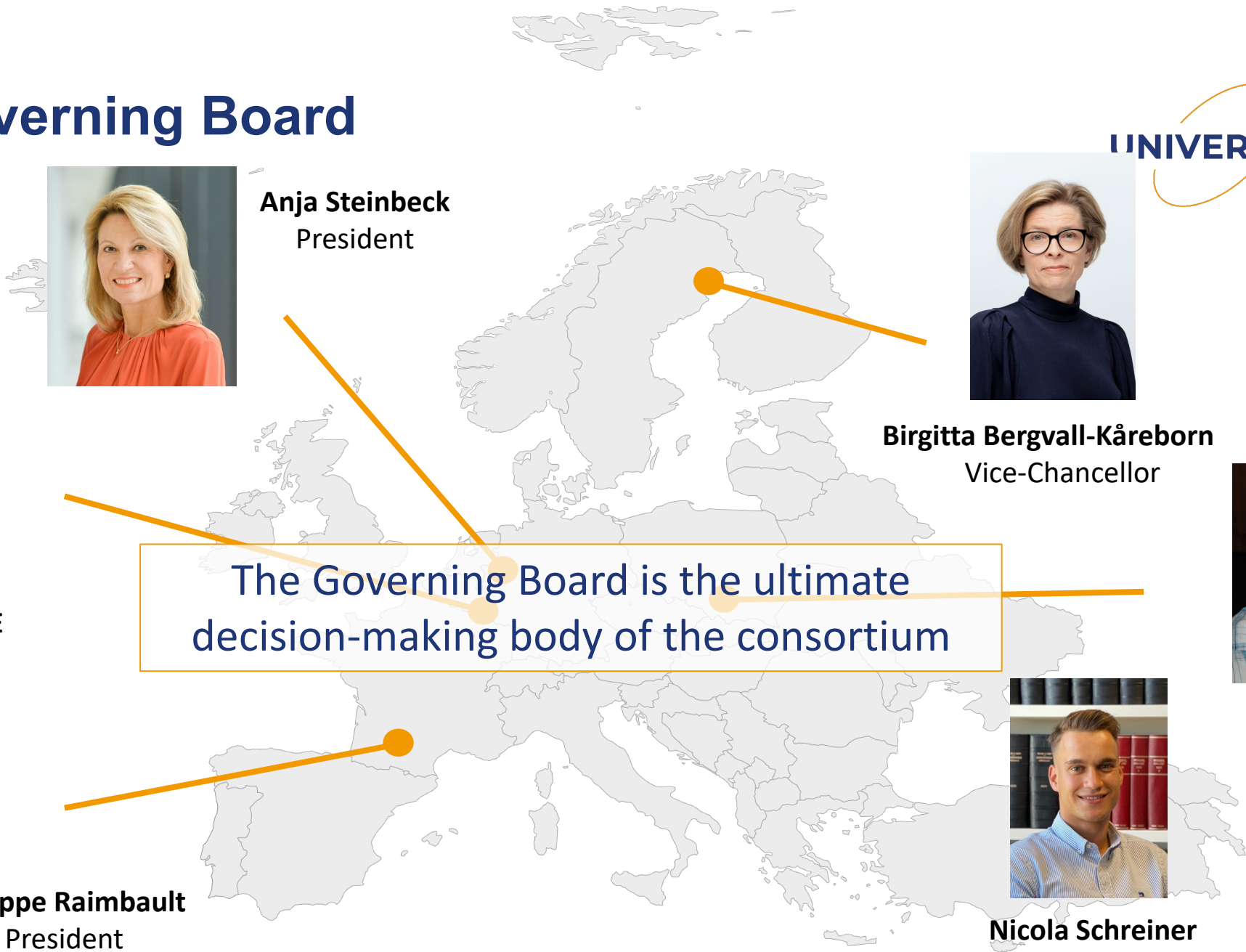
Jerzy Lis
Rector



Philippe Raimbault
President



Nicola Schreiner
Student representative

A light grey map of Europe is centered in the background. Five orange dots are placed on the map: one in Scandinavia, one in Central Europe, one in Western Europe, one in Southern Europe, and one in Eastern Europe. Orange lines connect these dots to the portraits of the Governing Board members. A central orange box contains the text 'The Governing Board is the ultimate decision-making body of the consortium'.

**The Governing Board is the ultimate
decision-making body of the consortium**

The Steering Committee



**Emmanuel
Zenou**



**Stefan
Marschall**



**Tadeusz
Uhl**



**Jonas
Ekman**



**Eric
Tschirhart**



**Elizaveta
Shashkova**



**Albin
Allevret**



The Steering Committee is the supervisory body for the execution of the Project which reports to and is accountable to the Governing Board

UNIVERSEH Workpackages

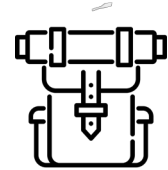
7 WPs



Eric Tschirhart



WP5
Entrepreneurship &
Innovation



WP2
Mobility &
Multilingualism

TBD
(Stefan Marschall &
Benjamin Irkens)

WP4
Innovative
Pedagogical Models

Agneta
Hedenström



WP7
Sustainability &
Dissemination



Jean-Paul
Hoffman



WP6
Equity, Inclusion &
Diversity



WP3
Interdisciplinary & Cross-
Sectorial Curricula



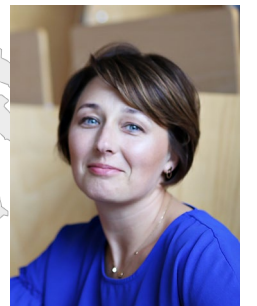
WP1
General Management
& Coordination



Hélène Gentils



Adam Walters



Joanna
Pyrkosz-Pacyna

The Academic Council



**Fabrice
Dumas**



**Mats
Näsström**



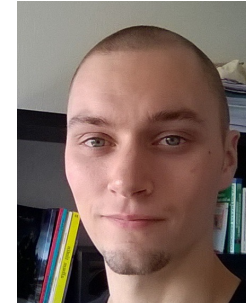
**Catherine
Léglu**



**Stefan
Marschall**



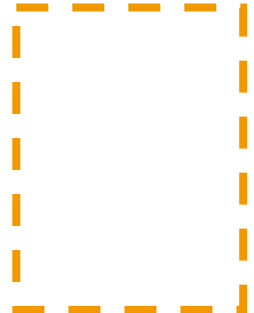
**Rafał
Dańko**



**François
Rulier**



**Agata
Zwolak**



**Axel
Lindgren**

The Academic Council is the body overseeing all learning and staff development activities and their certification

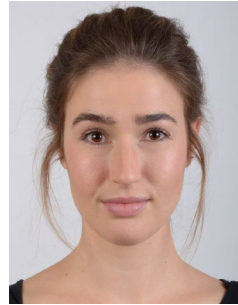
The student Council



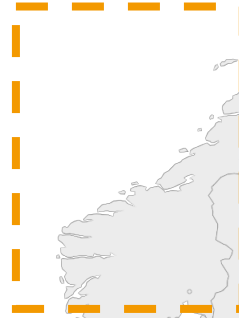
**Alessio
Buscemi**



**Nicola
Schreiner**



**Jil
Hageney**



**Maximilian
Kempen**

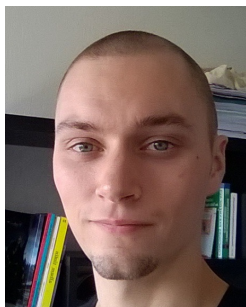


**Axel
Lindgren**

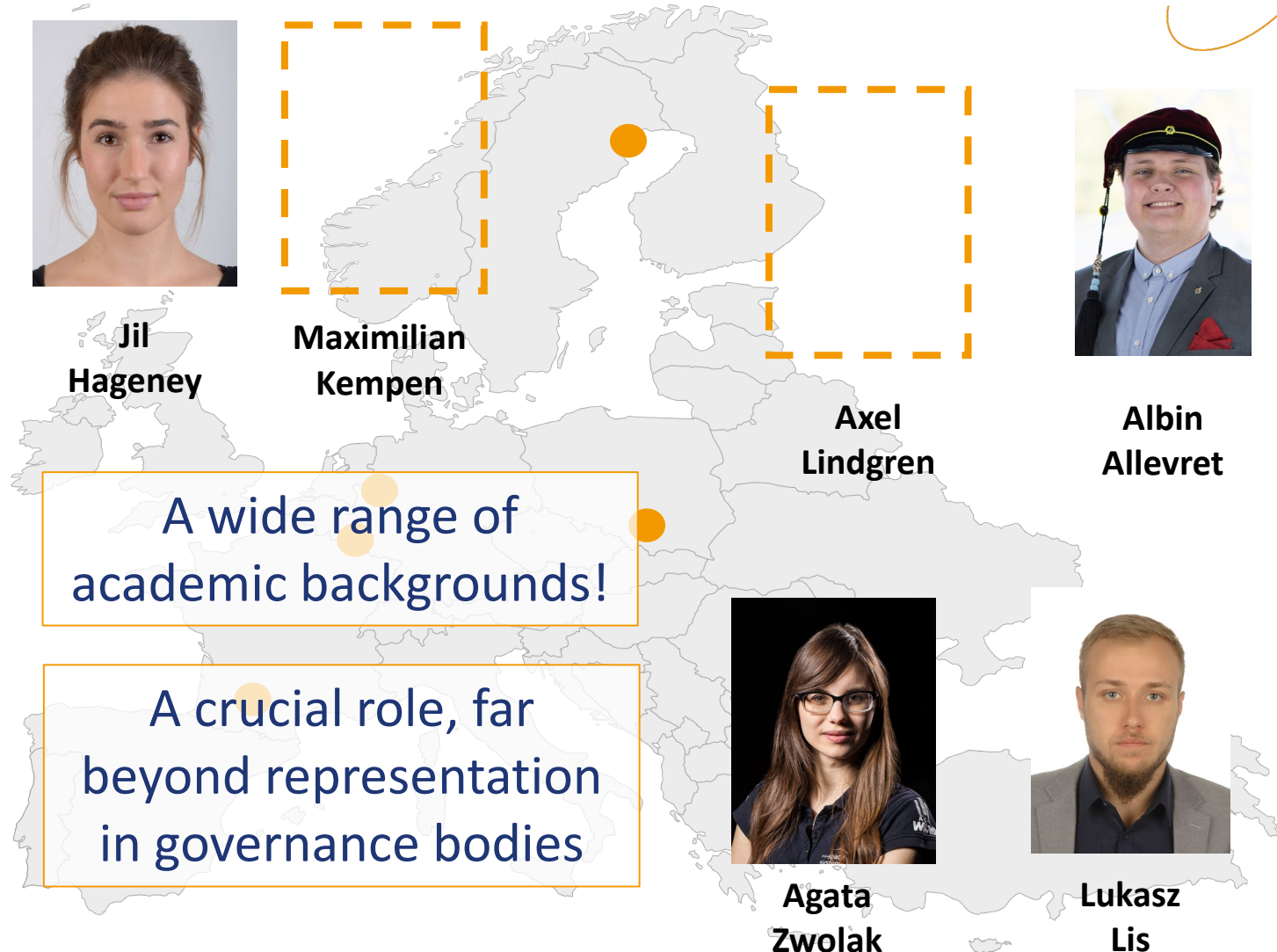
**Albin
Allevret**



**Elizaveta
Shashkova**



**François
Rulier**



**Agata
Zwolak**



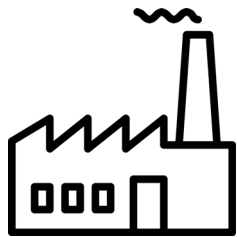
**Lukasz
Lis**



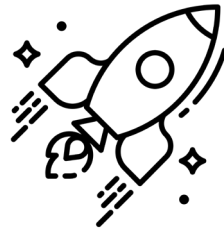
03 | Partners & Support

A wide range of partners...

In 5 countries, and more !



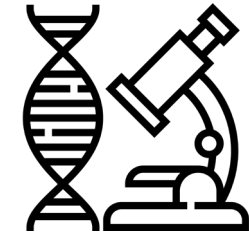
Industrials



Space
Agencies



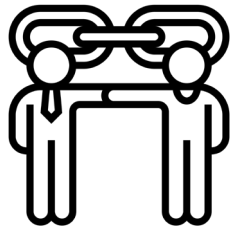
Public
Authorities



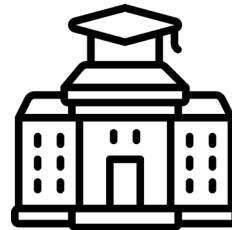
Labs



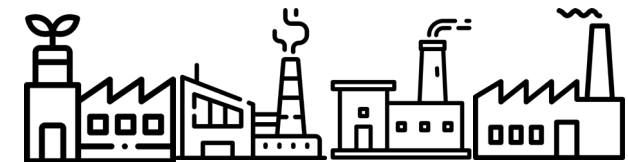
Students



Associations



Academics



SMEs

toulouse
métropole



technoport®
technology business incubator



Together
ahead. **RUAG**



A THALES Group Company





03

Beyond UNIVERSEH

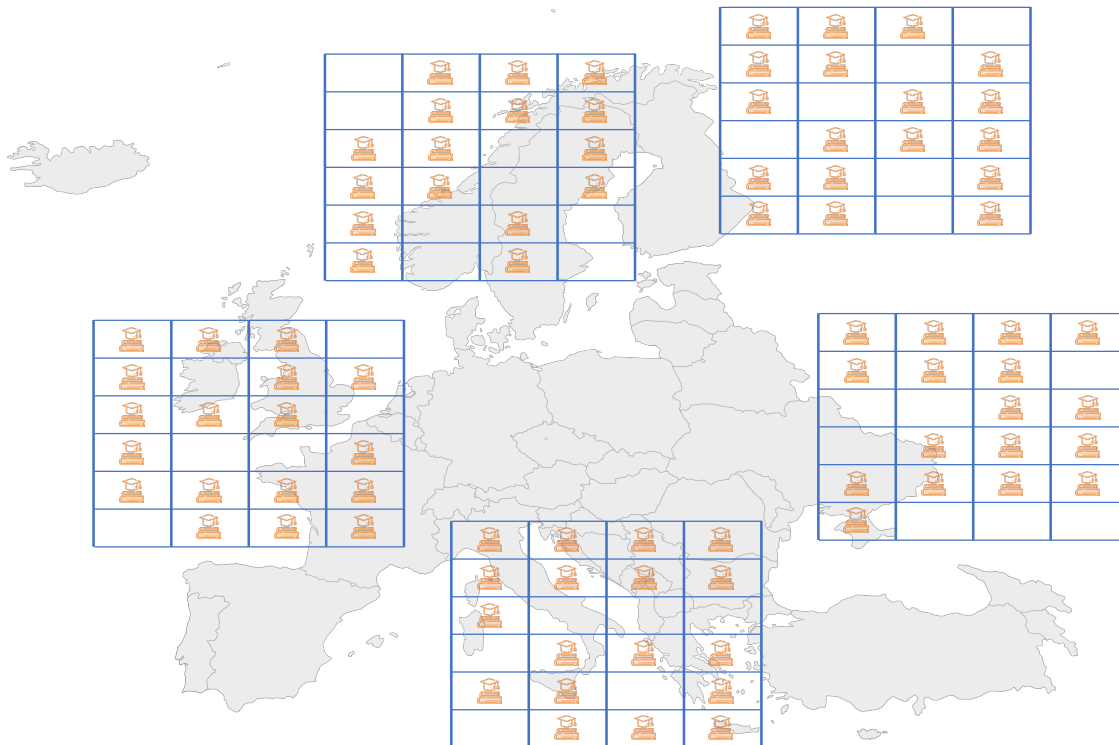
Toward common research

Beyond UNIVERSEH

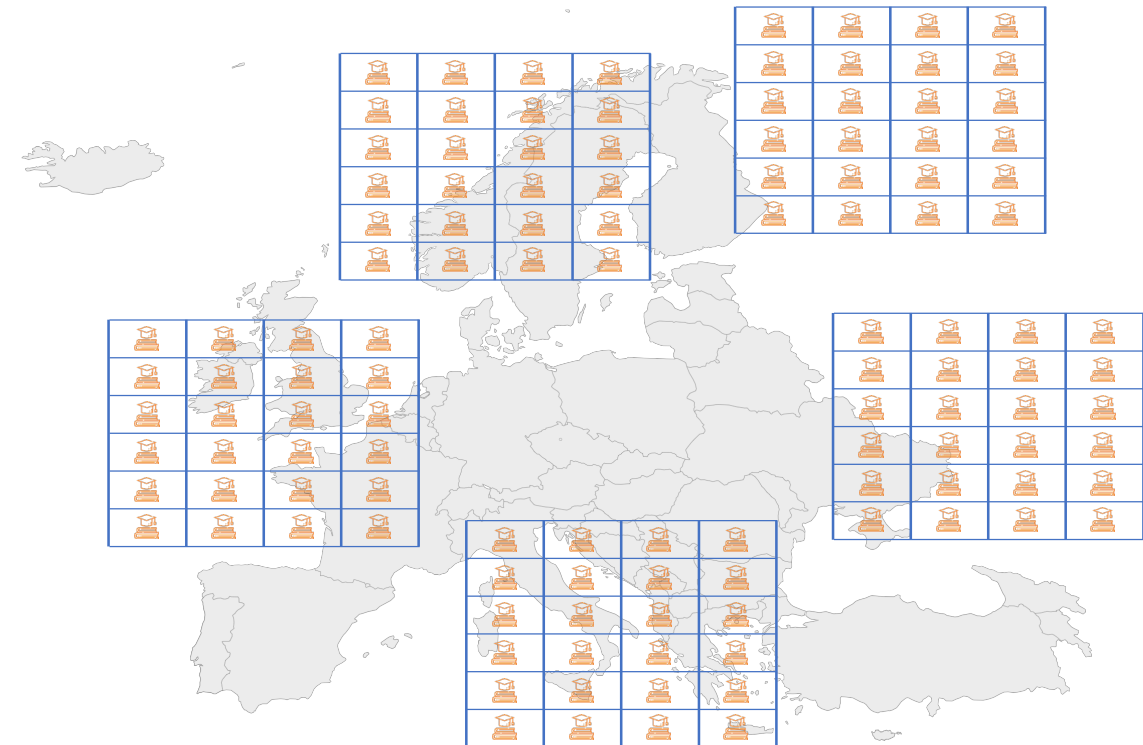
A long-term vision



A 3-year project...



A 7-year vision!

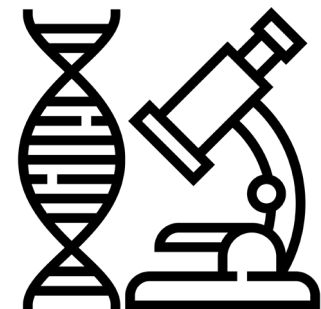


Beyond UNIVERSEH

Proposal (SwafS call)



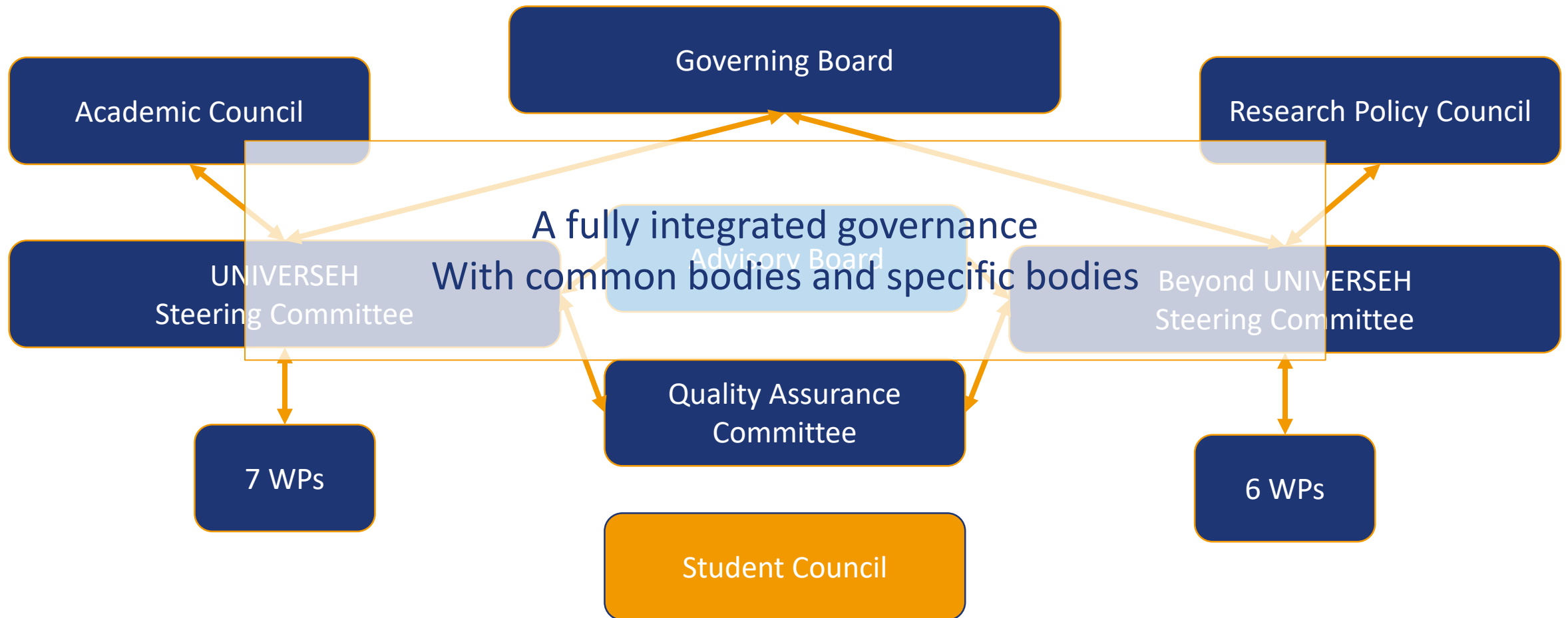
- | | |
|--|-----|
| 1. General Management & Coordination | UFT |
| 2. UNIVERSEH research roadmap for 2035 & vision for 2050 | LTU |
| 3. Towards a UNIVERSEH single lab & research community | UFT |
| 4. UNIVERSEH knowledge transfer and innovation strategy | AGH |
| 5. UNIVERSEH outside the lab | HHU |
| 6. Dissemination and collaboration with policy makers
and other European Universities | LUX |



The governance

Beyond UNIVERSEH

Result: Feb. 3rd, 2021



03

Now it's time...

Toward common research

A warm thanks to the “founding fathers and mothers”...



Now it's time...



LIFTOFF OF UNIVERSEH

EUROPEAN SPACE UNIVERSITY FOR EARTH AND HUMANITY

14 DECEMBER 2020

UNIVERSEH

Photo: Copyright ESA - S. Corvaja



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THANK YOU

