RLS-Sciences Project Presentation
Munich, 15 July 2016

MUNICH AEROSPACE

Global Aerospace Campus

Professor Klaus Drechsler

Executive Board Member Munich Aerospace
Director of the Institute for Carbon Composites at the Technical University of Munich

MUNICH AEROSPACE

VISION

Pooling key competencies in the fields of aeronautics and space in the Munich area

PREMISE

Munich Aerospace was founded on 9 July 2010 as a non-profit organisation

SPONSORED BY

Bavarian State Ministry of Economic Affairs, Media, Energy and Technology

Bavarian State Ministry of Education, Science and the Arts

Members

Technical University of Munich

Universität der Bundeswehr München

DLR

Bauhaus Luftfahrt
Neue Wege.

Activities

MUNICH AEROSPACE

RESEARCH

- Fostering **collaborations** between aerospace institutes in Munich
- **Recognition** as Munich Aerospace Research Group

TEACHING

- Cooperation in teaching and **mutual credit recognition** between Technical University of Munich and the University of the German Armed Forces
- Developing **new academic programmes**

NETWORKING

- **Networking events** for researchers and private sector representatives
- **Seeking solutions** for partnership activities

Research

MUNICH AEROSPACE

Autonomous Flight

Advanced Aerospace Communications and Navigation

Public Security

Key Topics

Safety in Orbit

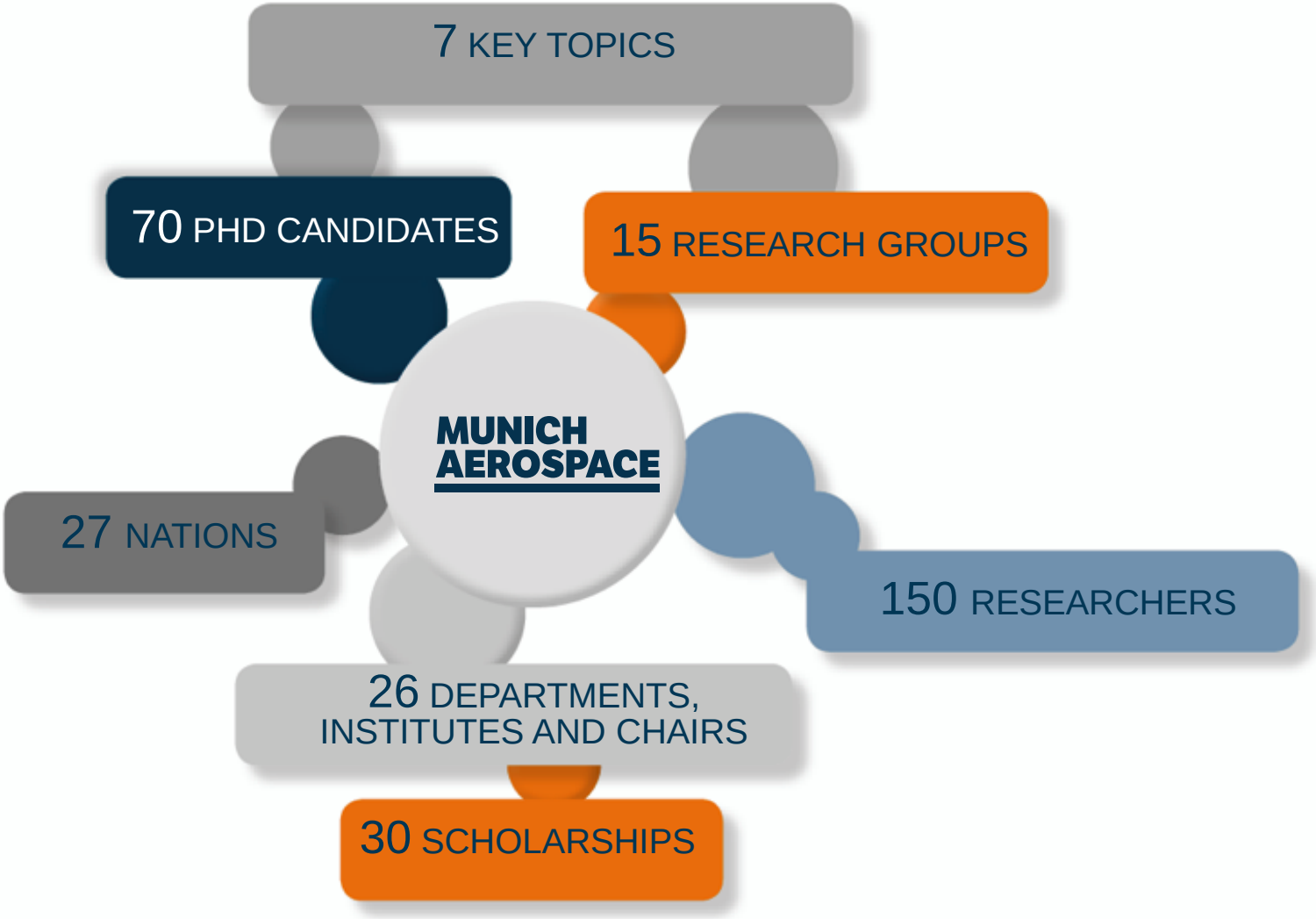
Green Aerospace

Geodetic Earth Observation

Aviation Management

Research Network

MUNICH AEROSPACE



Location

MUNICH AEROSPACE

Ludwig Bölkow Campus was initiated in 2012 by the **Free State of Bavaria**, **research** and **industry partners**. The Campus is located on the Airbus site to the south of Munich.

The **Ludwig Bölkow Campus**

- is a hub for international aerospace researchers and experts,
- links teaching, science and private sector
  and
- boosts innovation – from idea to product.

Location

Ludwig Bölkow Campus is managed by

- **Munich Aerospace**, representing the research community

and

- **Ludwig Bölkow Campus GmbH**, representing the private sector.

Project Presentation

Global Aerospace Campus

Teaching – Networking – Research

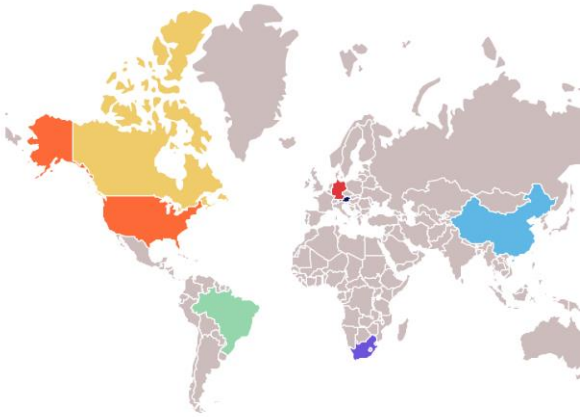
Global Aerospace Campus

Vision

Faciliating partnership activities between aerospace researchers from the RLS Network and raising the profile of our regions as distinguished aerospace centres

Global Aerospace Campus

Concept



1. Teaching

Virtual Aerospace Campus

Massive Open Online Courses (MOOCs) with contributions from each partner region on the RLS MOOC Channel

2. Networking

Summer School focused around select research topics determined by a different region each year

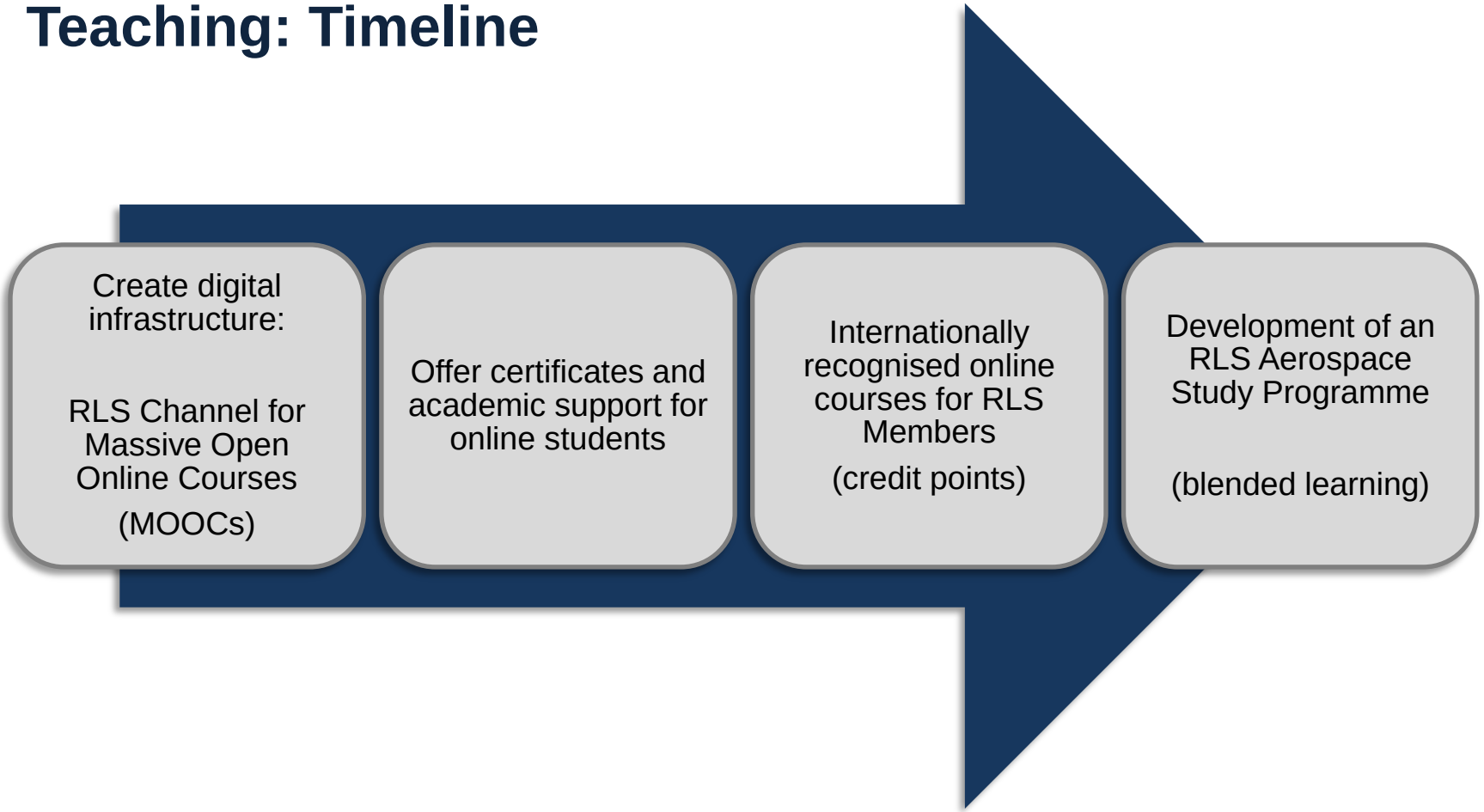
3. Research

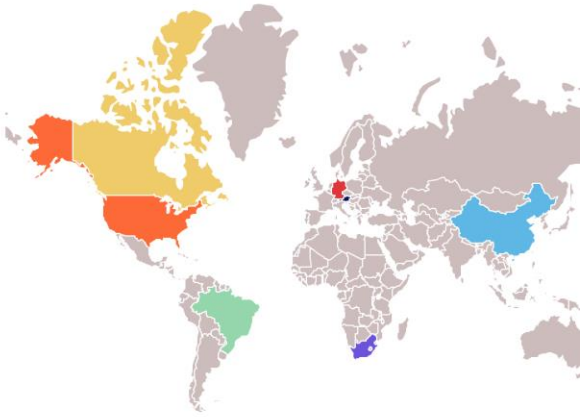
Publishing platform for latest content and research

Presentation platform for researchers

Global Aerospace Campus

Teaching: Timeline





1. Teaching

Virtual Aerospace Campus

Massive Open Online Courses (MOOCs) with contributions from each partner region on the RLS MOOC Channel

Publishing platform for latest content and research

2. Networking

Summer School focused around select research topics determined by a different region each year

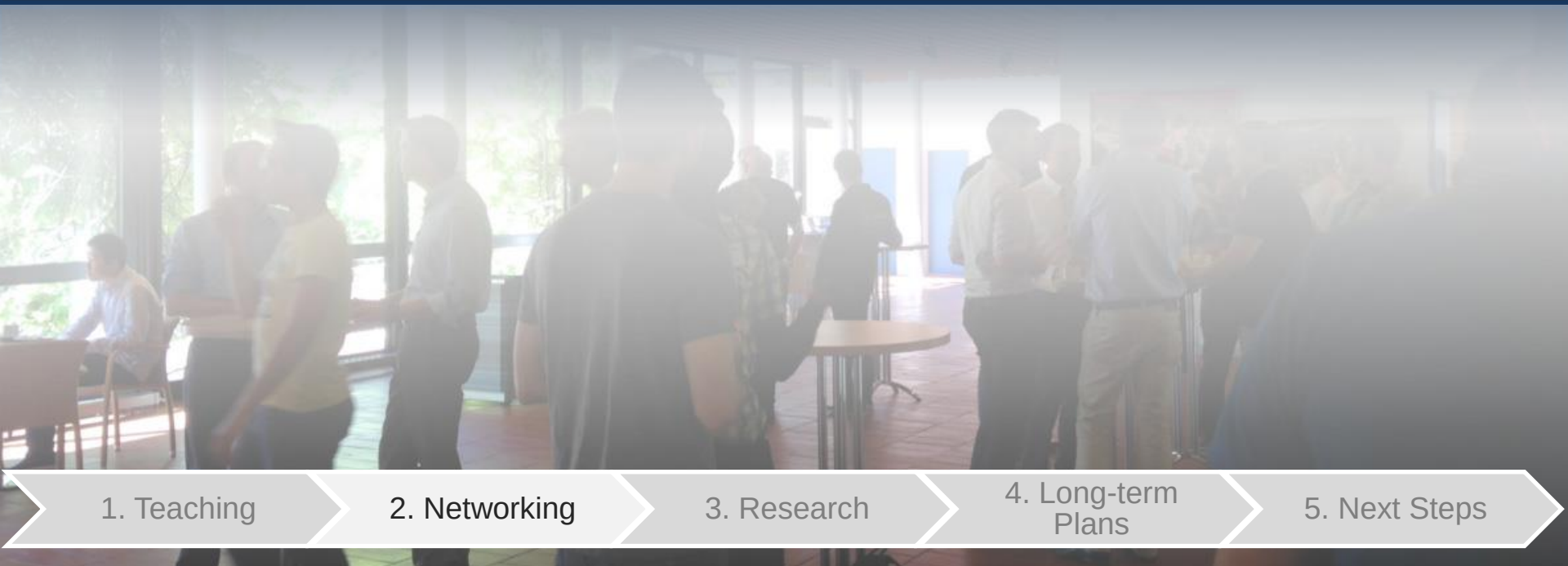
Presentation platform for researchers

3. Research

Global Aerospace Campus

Networking

RLS Networking Events are held to strengthen ties through personal interaction at annual partner events conducted alternately in each partner region



Global Aerospace Campus

1st RLS Summer School 2016

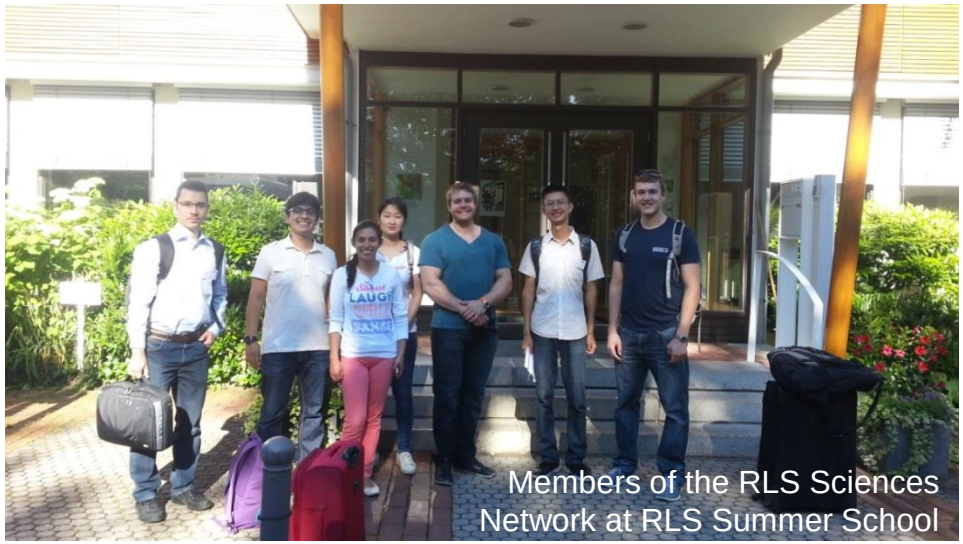
- 1st RLS Summer School was held from 22 to 24 June 2016 at Lake Ammer, Bavaria
- Main topic: Autonomous Flight
- 100 attendees, for 3 days

Concept

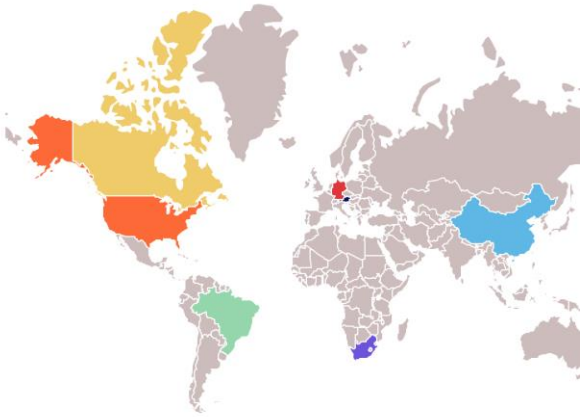
- International speakers and guests from the scientific and private sectors
- 1 main topic
- 2 days of lectures
- 1 day exclusively for members
- Interdisciplinary dialogue
- Opportunity for conversation and networking

Global Aerospace Campus

1st RLS Summer School 2016



Members of the RLS Sciences Network at RLS Summer School



1. Teaching

Virtual Aerospace Campus

Massive Open Online Courses (MOOCs) with contributions from each partner region on the RLS MOOC Channel

Publishing platform for latest content and research

2. Networking

Summer School focused around select research topics determined by a different region each year

Presentation platform for researchers

3. Research

The virtual aerospace campus is an open-access **online presentation platform** for **aerospace researchers** from the RLS Network

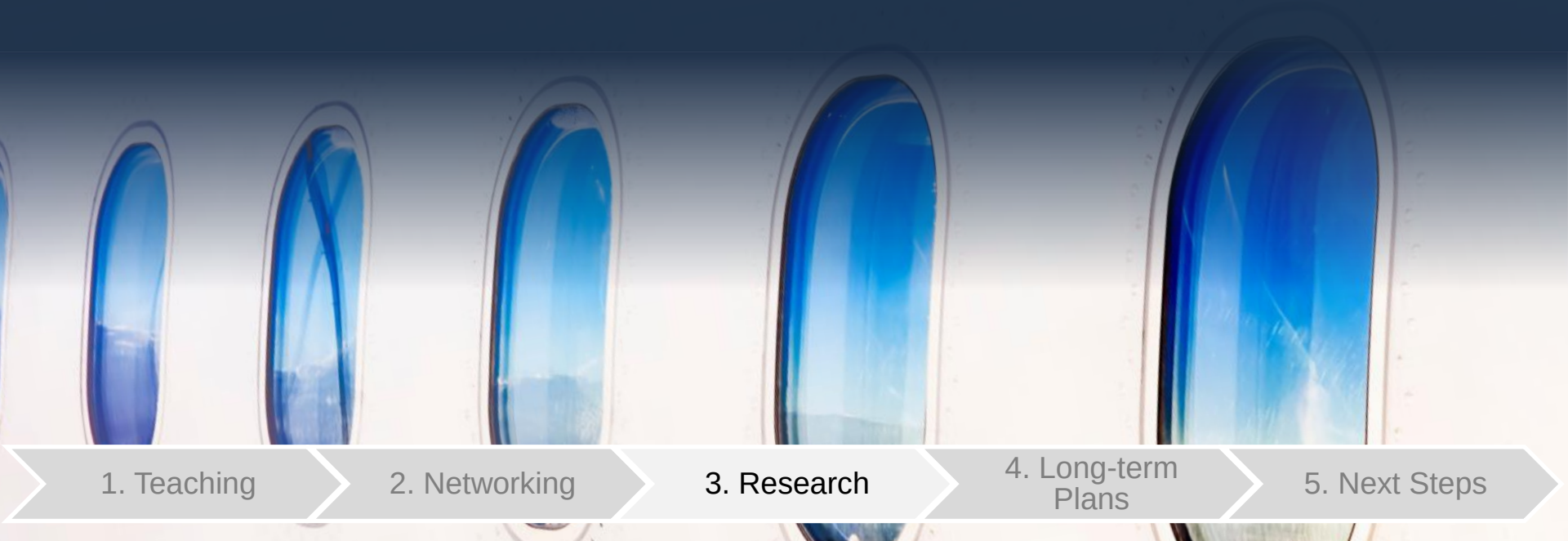
Research: Goals

The Global Aerospace Campus

- **strengthens the profile** of aerospace research activities,
- greatly accelerates the **releasing of research results**

and

- **diminishes the gap** between teaching and research.



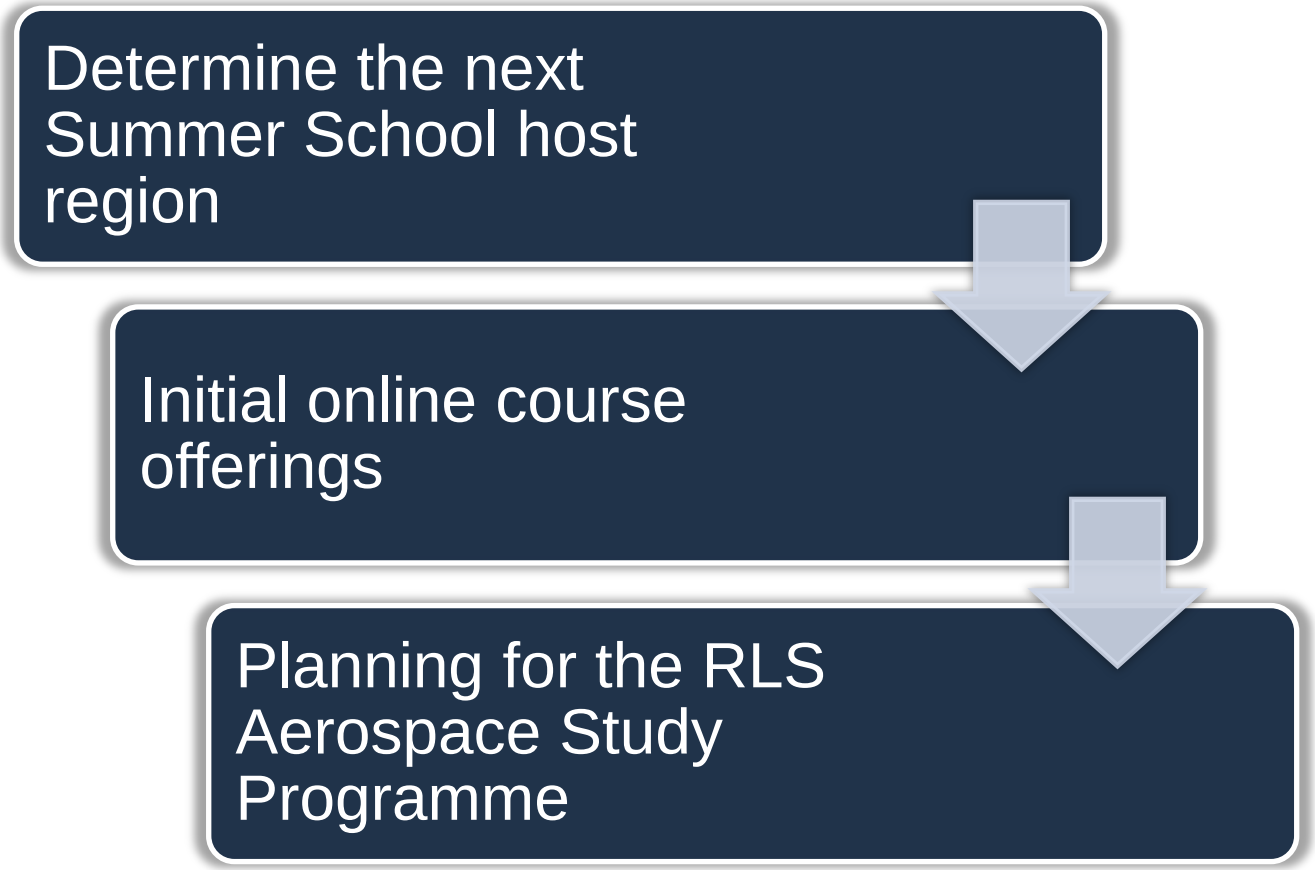
Global Aerospace Campus

Long-term Plans

- Develop an **RLS Aerospace Online Study Programme** with attendance phases (blended learning)
- Establish an **alternating RLS Summer School Event**
- Offer a **global exchange programme** for aerospace students including
  - **internships** with industry partners

    and
  - establishing a **mobility programme** for aerospace students modelled on the European Mobility Programme *Erasmus*
- Offer an **exchange programme for RLS Aerospace professors**

Next Steps


Determine the next Summer School host region
Initial online course offerings
Planning for the RLS Aerospace Study Programme

MUNICH AEROSPACE

Thank you for your attention.