

A stylized illustration of a solar system on a dark blue background. At the top left is a large yellow sun. Several planets of various colors (orange, blue, red, yellow, white) are shown on elliptical orbits. A satellite is depicted in the middle. At the bottom right, there are two more planets, one with rings and one with a ring, both in shades of blue and cyan.

eur@PLANET 2024
Research Infrastructure

What role for EUROPLANET in the future
European Space Industrial Landscape

Didier Moreau, PhD

Benelux Hub industry officer

This workshop is mainly dedicated to discuss on the integration of industrial policy within the framework of the activities of the Europlanet Society

1. What are the main (operational) objectives of this workshop
2. Industry business @ the regional hub level: Where are we today
3. Identification of the space clusters in line with the Europlanet objectives (strengths and areas of expertise.)
 - *Personal analysis (to be consolidated with the hub industry officers)*
 - *How to initiate partnerships*
4. How to promote commercialization using the Hub network and/or with a top-down approach:
5. **In addition to this discussion** : how integrate policy approach to optimize the presence of Europlanet in the Industrial pan-European landscape

1. **At which level the interaction between Europlanet and Space industry should be done**
 - **Top - down approach?**
 - **Bottom- up approach?**
2. **What could be the criteria to use to identify the space clusters to interact with**
 - **Condition: not duplicate the existing networks developed by i.e the Space Agencies**
3. **What “product(s)” could H2020 Europlanet RI offer to develop partnerships with identified Clusters**
 - **Elaboration of a list of recommendations to propose to the Europlanet RI industry/policy committee**
4. **What are the means (ES support, funding, board representation,...) needed to increase the visibility of Europlanet for Industry**

Benelux ✓

- ESA Space Business Park **Netherlands**
- Liège Science Park, **Belgium**
- Belgian Space Pole, **Belgium**.
- **Luxembourg** Space Cluster,
- Delft Space Cluster, **Netherlands**

France ✓

- Toulouse Aerospace Valley:
- Cannes - Sophia Antipolis:
- Bordeaux - Aquitaine:
- Brittany - Rennes:

Switzerland ✓

Space Innovation Park (SIP) – Zürich
:Swiss Space Center – Lausanne
EPFL Innovation Park – Lausanne
Technopôle de Sion - Sion

Ireland & UK ✓

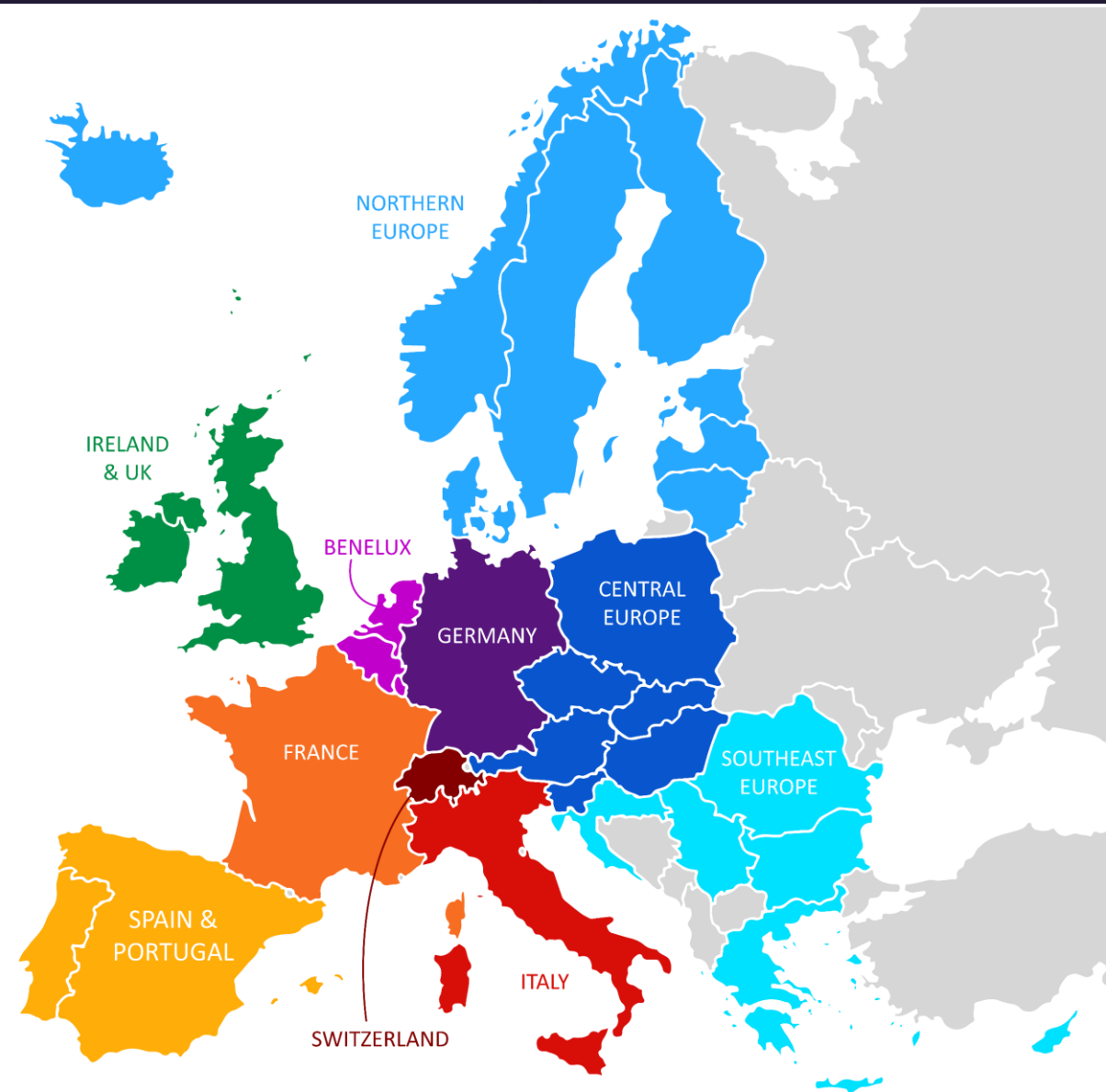
- National Space Centre: **Ireland**
- Harwell Science and Innovation Campus, **UK**
- Scottish Space Cluster: **Scotland**

Southeast Europe ✓

- Romania Space Agency (ROSA) – **Romania**
- Sofia Tech Park – **Bulgaria**
- Hellenic Space Agency

Spain & Portugal ✓

- Aerópolis **Spain**
- Canary Islands Space Cluster - **Spain**
- Institute Pedro Nunes (IPN) - **Portugal**
- Science and Technology Park of the University of Porto: **Portugal**

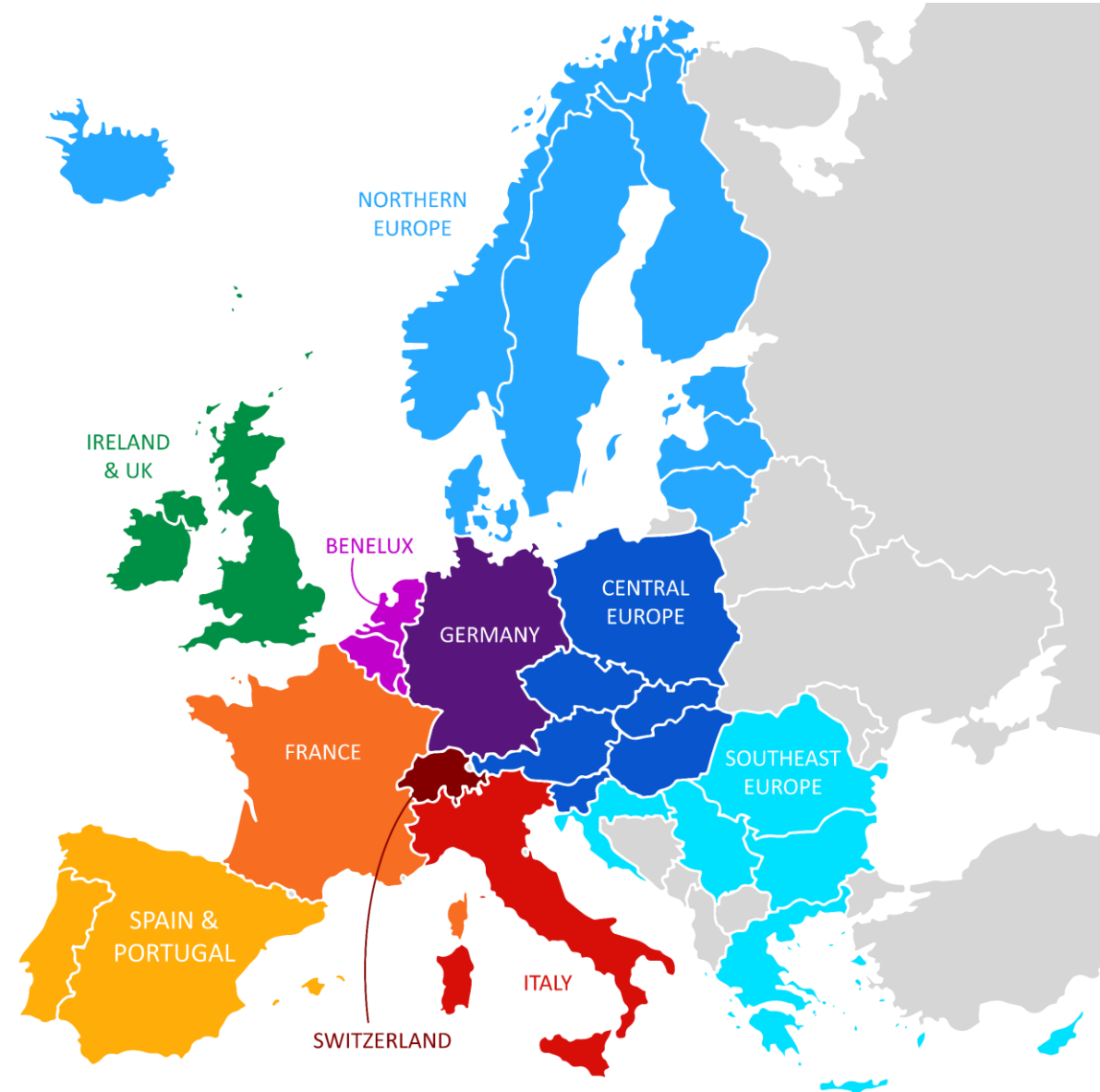


- Italy** ✓
- Piemonte Aerospace Cluster
 - Campania Aerospace District
 - Sardinia Aerospace District:
 - Sicily Aerospace District

- Central Europe** ✓
- Czech Space Cluster, **Czech Republic**
 - Wiener Neustadt Aerospace Cluster, **Austria**

- Northern Europe** ✓
- To be investigated

- Germany** ✓
- Bremen Space Cluster
 - Munich Aerospace Cluster
 - German Aerospace Valley
 - German Space Operations Center (GSOC)



Questions / Considerations

1. Analyse, discuss and validate the proposed clusters for the different hubs
 - Regular meeting/brainstorming with industry officers
2. Find Industry officers for the Hubs without one (hopefully during this meeting)
 - Following the rules of Europlanet Society, someone from a hub can also be part of another hub
3. How to increase the interactivity between industry hub officers and the executive board ?
4. ES can work with the national space clusters to promote the commercialization of planetary science research and technology
 - How can we proceed

Context

- **Last months of the Europlanet RI (Ending next year in July – September for the final report to EU)**
 - Perfect momentum to receive requests from our community to insure sustainability of the Society
 - no “European” EPSC to organize this year, this let us plenty of time to organize the future ,
 - Europlanet sustainability structure has been created (will be presented @ GA). Your inputs are then essential to refine the organization of this sustainability
 - Reorganization of the Society board (new peoples and tasks definition for the future)
- **Synthetize all ideas from the planetary community to find the best way to increase interactivity between theEuroplanet executive board and all the committees**

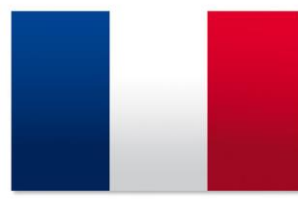
Main concerns and questions

1. **At which level the interaction between Europlanet and Space industry should be done**
2. **What could be the criteria to use to identify the space clusters to interact with**
3. **What “product(s)” could H2020 Europlanet RI offer to develop partnerships with identified Clusters**
4. **What are the means (ES support, funding, board representation,...) needed to increase the visibility of Europlanet for Industry**
5. **How integrate industry and policy approach to optimize the presence of Europlanet in the Industrial pan-European landscape.**
6. **Creation of a working group to take actions on this roadmap at the level of Industry to be proposed to the GA**

A stylized illustration of a solar system on a dark blue background. At the top left is a large yellow sun. Several planets of various colors (orange, blue, red, yellow, cyan) are shown on elliptical orbits. A satellite is depicted in the middle. The overall style is clean and modern.

eur  **PLANET 2024**
Research Infrastructure

Thanks for your attention
and let discuss now 😊



Jeronimo Bernard-Salas
Industry Officer

- France clusters represent some of the best space industrial hubs several prominent space industrial clusters that are home to major companies and organizations involved in the space industry. Here are some of the best space industrial clusters in France. They foster collaboration, innovation, and economic growth, contributing to France's prominence in the global space sector.



- 1 Toulouse Aerospace Valley:
- 2 Cannes - Sophia Antipolis:
- 3 Bordeaux - Aquitaine:
- 4 Brittany - Rennes:

Didier Moreau
Industry Officer

- The Benelux countries (Belgium, Netherlands, and Luxembourg) have been actively involved in space activities and have several noteworthy space industrial clusters. Here are some of the prominent ones:

- 5 Space Business Park Noordwijk, **Netherlands**: Located in Noordwijk, this business park is home to the European Space Research and Technology Centre (ESTEC) of the European Space Agency :
- 6 Liège Science Park, **Belgium**: Situated in Liège. It collaborates closely with academic institutions and research centers in the region.
- 7 Belgian Space Pole, **Belgium**. The cluster fosters collaboration among space companies, research institutions, and universities
- 8 Luxembourg Space Cluster, **Luxembourg**. The country has been actively supporting the development of commercial space mining and satellite servicing technologies.
- 9 Delft Space Cluster, **Netherlands** The university has a strong aerospace engineering program, and numerous spin-offs and companies in the area specialize in satellite technology, space instruments, and satellite applications.



TBD

Industry Officer

- Central Europe has several notable space industrial clusters that contribute to the region's space industry. Here are some of the prominent clusters

16

Czech Space Cluster, Czech Republic: The Czech Space Cluster is an association that brings together companies, universities, research institutions, and government agencies involved in the space sector. It fosters collaboration and supports the development of space technologies, satellite applications, and Earth observation.

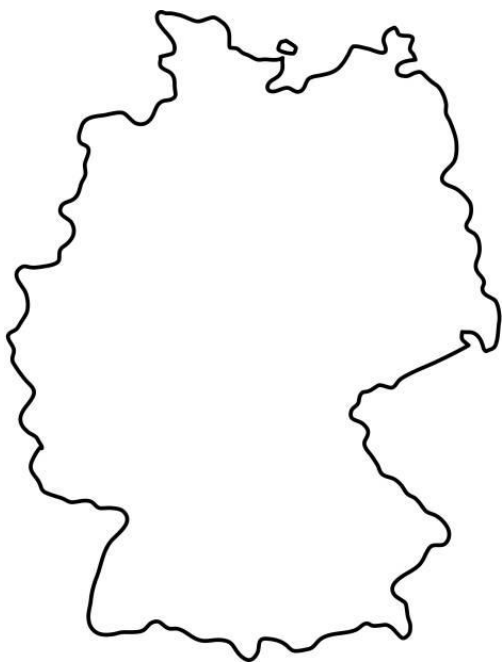
17

Wiener Neustadt Aerospace Cluster, Austria: Located in Wiener Neustadt, this cluster is a hub for aerospace and space activities in Austria. It hosts several companies specializing in satellite manufacturing, avionics, space systems, and propulsion technology. The cluster collaborates with the nearby FH Wiener Neustadt University of Applied Sciences, offering aerospace engineering programs.





TBD
Industry Officer



- Germany is a key player in the European space industry and has several notable space industrial clusters. Here are some of the prominent clusters in Germany:

18 Bremen Space Cluster: is a major space cluster in Germany and is home to significant players in the space sector. The cluster is known for its expertise in spacecraft production, robotics, and space applications.

19 Munich Aerospace Cluster: The cluster includes major aerospace companies such as Airbus, MT Aerospace, and IABG. It is known for its specialization in satellite technology, satellite applications, and space systems engineering.

20 German Aerospace Valley (Aerospace Region Stuttgart): This cluster is a hub for aerospace and space activities in Germany. It brings together numerous companies, research institutions, and universities involved in various aspects of aerospace and space technology development.

21 German Space Operations Center (GSOC) Cluster: Located in Oberpfaffenhofen near Munich, this cluster focuses on satellite operations and ground station activities.

TBD

Industry Officer

- Germany is a key player in the European space industry and has several notable space industrial clusters. Here are some of the prominent clusters in Germany:
 1. Lazio Aerospace District: Located in the Lazio region. The cluster focuses on satellite manufacturing, space applications, and Earth observation.
 2. Piemonte Aerospace Cluster: It includes important players such as Leonardo S.p.A., which specializes in satellite technology and space systems.
 3. Campania Aerospace District: The cluster collaborates with organizations like the Italian Space Agency and the National Research Council (CNR) and encompasses companies involved in space technology development, satellite applications, and aerospace engineering.
 4. Sardinia Aerospace District: Sardinia. The cluster supports the development of space technologies and fosters collaboration among companies, research institutions, and universities in the region.
 5. Sicily Aerospace District: The cluster collaborates with universities and research centers to promote innovation and technological advancement.

Andrés Catalán
Industry Officer

- Spain and Portugal also have notable space industrial clusters that contribute to the development and advancement of the space sector.

10 Aerospace Technology Park of Andalusia (Aerópolis) Spain: Aerópolis is one of the largest aerospace technology parks in Spain.

11 Barcelona Aerospace Park (BAP)- Spain : BAP is a major hub for aerospace and space activities. It brings together companies, research organizations, and educational institutions.

12 Canary Islands Space Cluster - Spain. The Canary Islands Space Cluster consists of various companies and research centers specializing in satellite operations, tracking stations, and space tourism initiatives.

13 Institute Pedro Nunes (IPN) - Portugal: Located in Coimbra, IPN is a science and technology park that actively supports the space industry in Portugal.

14 Science and Technology Park of the University of Porto (UPTEC) - Portugal: UPTEC is a renowned innovation hub in Porto

15 Azores Space Center - Portugal: The Azores, an autonomous region of Portugal.



Outline

1. To Integrate Europlanet into the industrial European landscape, it is necessary to identify the **national space clusters** in each country and understand their strengths and areas of expertise
 - Lack of participation hub industry officer this week has to be clarify, during this discussion to analyze the added value to integrate industry business inside the Hub .
 - Establish Partnerships:
 - Proposition of national cluster to be potentially contacted
 1. Identify common interest
2. Identify common interests