



Brainport Eindhoven

inter-regional collaboration of innovation hubs

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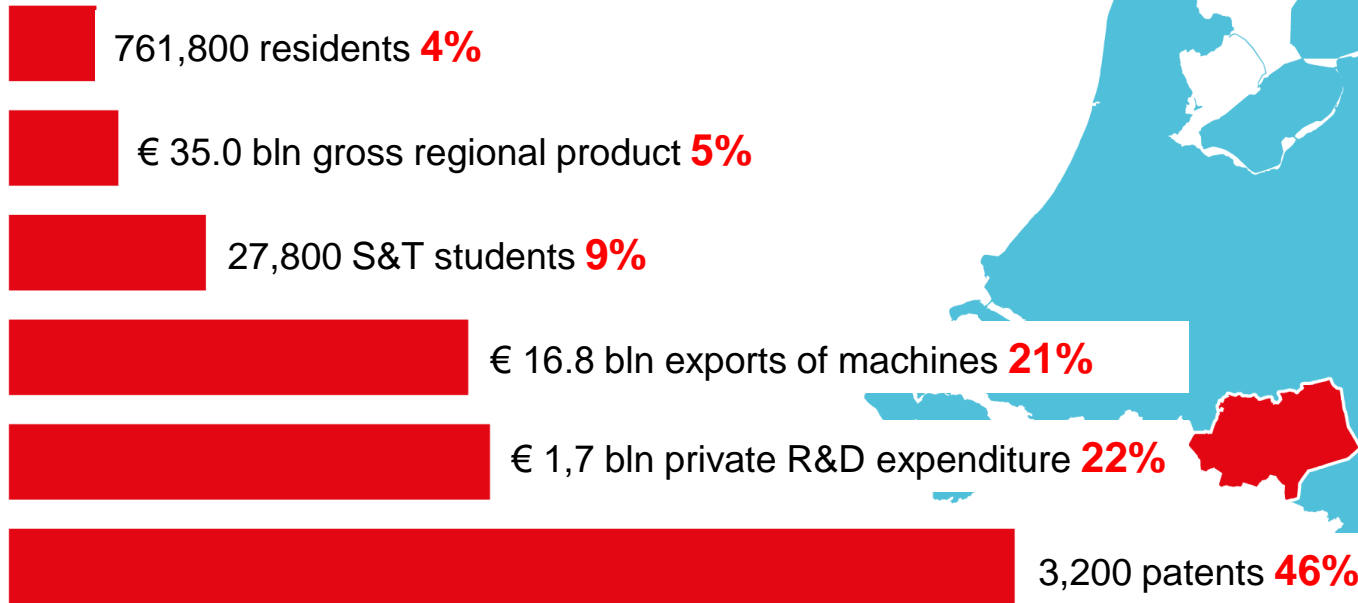
Manager Innovation Brainport International Programme

Brainport Development

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SHARE IN DUTCH COMPETITIVENESS

The share of Brainport Eindhoven in the Dutch Competitiveness



THE LAST DECADE

- Regional **economic growth** constantly 50% above national average
- **Unemployment rate** constantly below national average
- Number of **start-ups** 7% above national average
- **Fast growing companies** 19% above national average
- **Public R&D** doubled
- **Private R&D expenditure** is almost 8 times higher than public R&D
- Number of **foreign knowledge workers** tripled (in 5 years)

Technology



Economy



Society

Our perfect mixture of
Technology Competences

Lead to
Iconic Applications

That help solving
Societal Challenges



MATERIALS



HIGH TECH SYSTEMS



DATA SCIENCE



COLLABORATION



HUMAN-TECHNOLOGY
INTERACTION



DESIGN



SYSTEM OF SYSTEMS



MICRO SURGERY
ROBOTS



PHOTONICS
CHIPS



TRUCK
PLATOONING



CITY
FARMING



INTERACTIVE
LIGHTING



HEALTH



ENERGY



MOBILITY



AGRIFOOD



SAFETY

Shared Facilities/Demonstrators/Industry commons

1. The interest for Shared Facilities is growing

Sharing the initial investment, operational costs and risks, while strengthening the competitive position of the regional industry by:

- a. Improvement of knowledge and technology position (also across regions, e.g. Vanguard initiative)*
- b. Generation and development of new business opportunities*
- c. Creation of new products and jobs*

2. The initial investment is the biggest problem

- The role of public money is essential...*
- Initial investments to be considered as sunk costs...*
- Business case on operational costs only...*



3. Long-term commitment is required of all stakeholders involved

4. Independent Operational Management is essential for success

Recommendations (source: EURIS-SFFS, Interreg C)

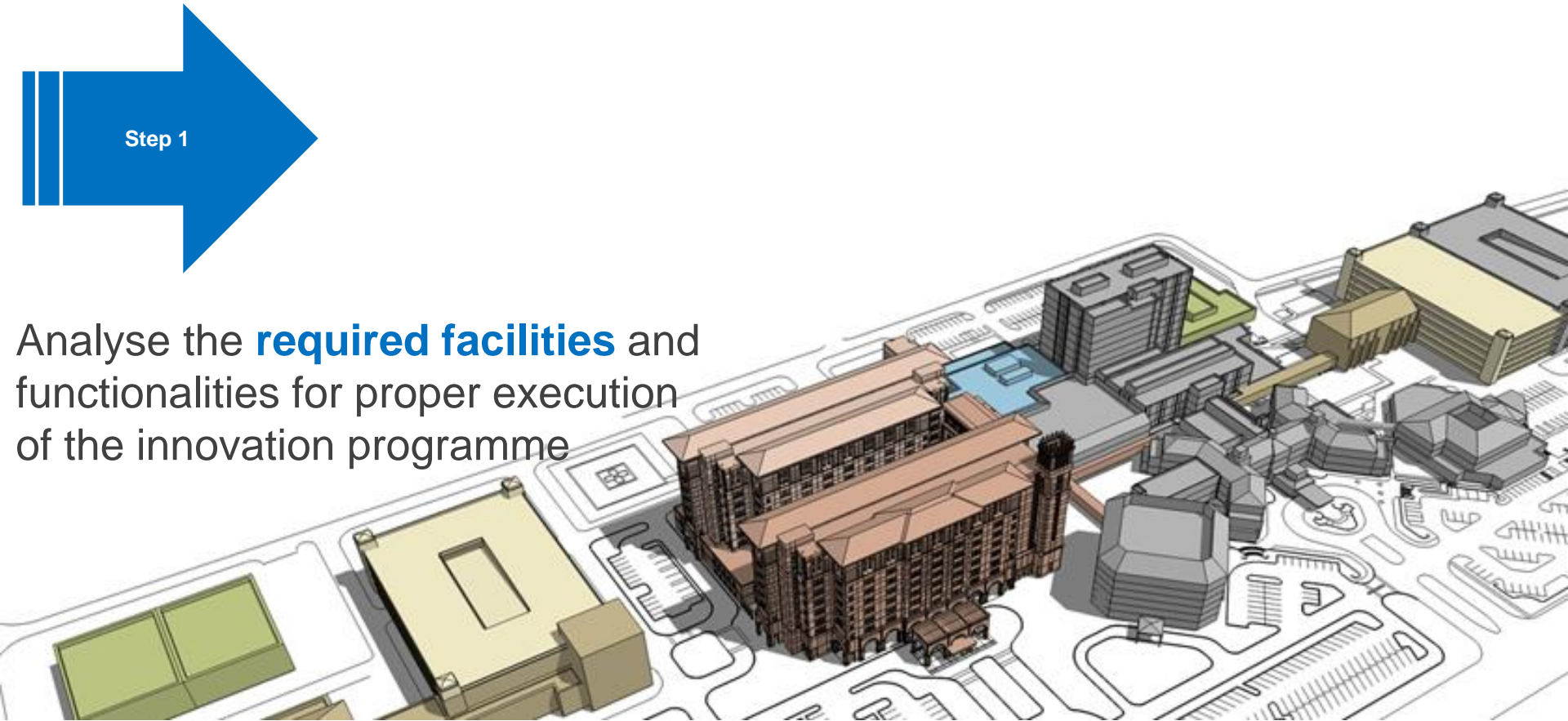
**A comprehensive innovation programme (as a building block of RIS3)
should be the starting point for new Shared Facilities**



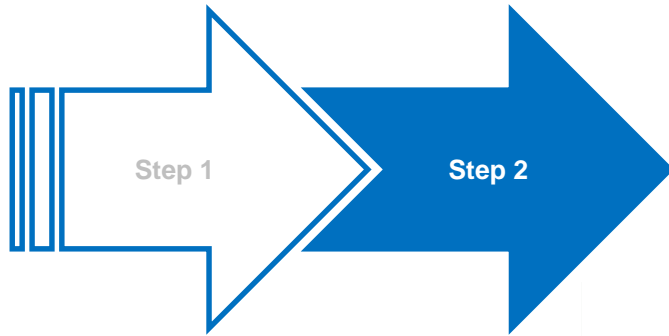
Recommendations

Step 1

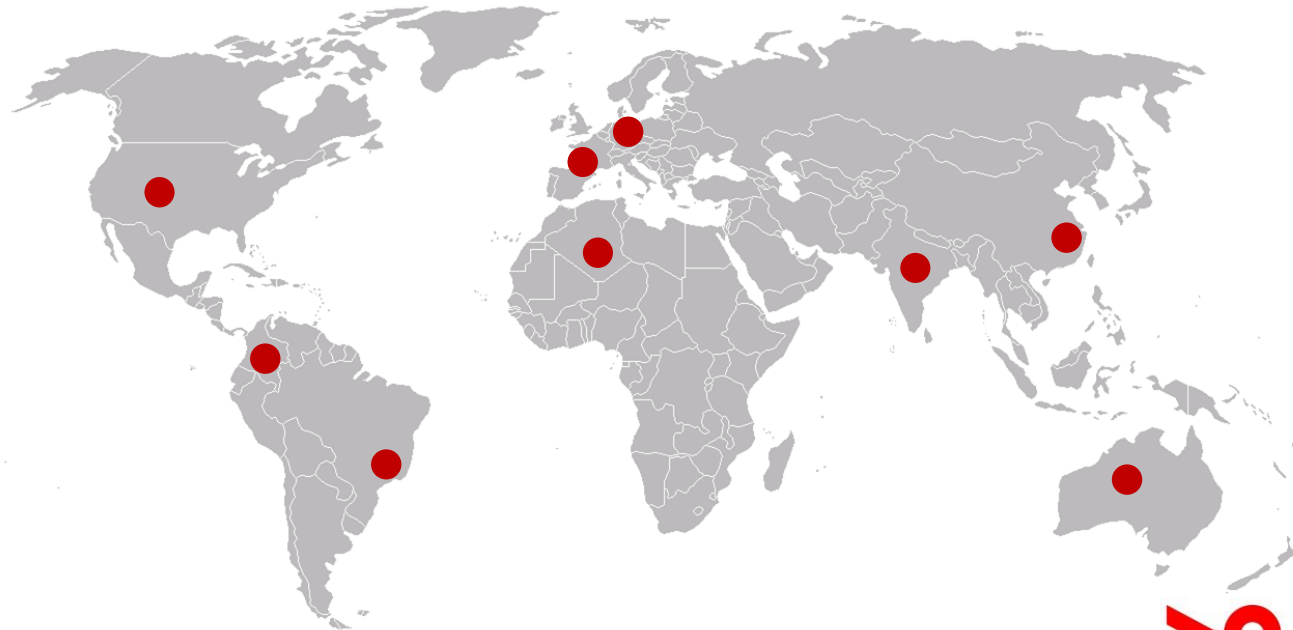
Analyse the **required facilities** and functionalities for proper execution of the innovation programme



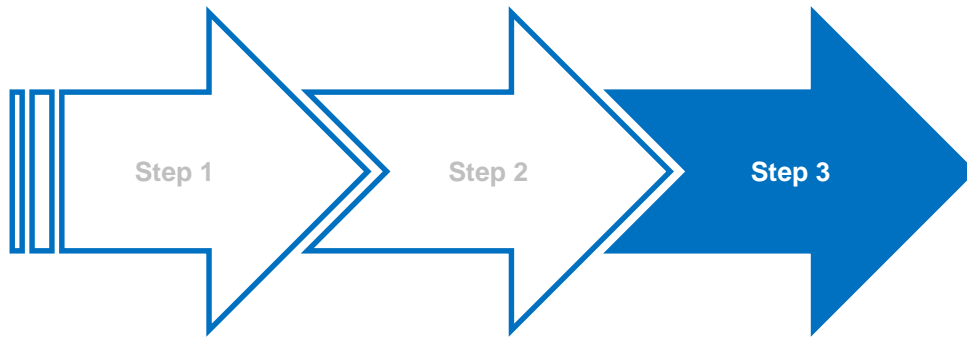
Recommendations



Locate similar facilities that already exist and identify the functionalities that are **currently not existing** or publically available.



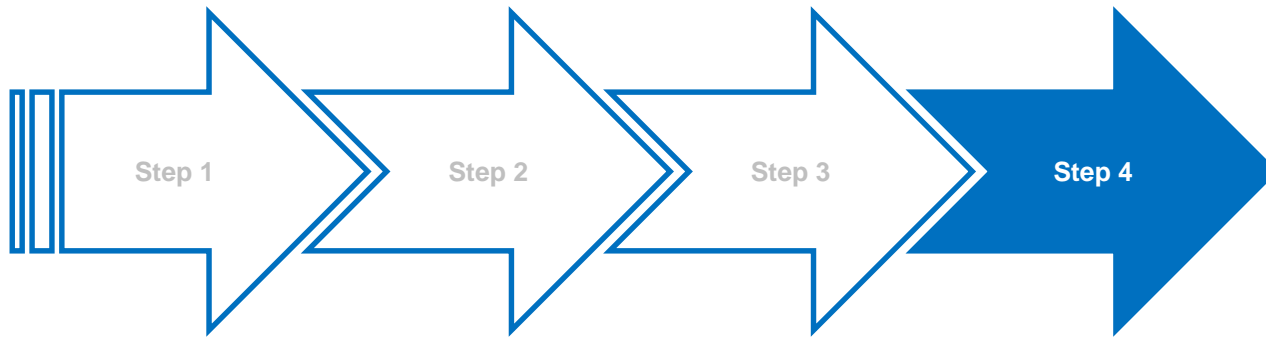
Recommendations



Estimate the **required specifications** and capacity for facilities and functionalities that not yet exist.



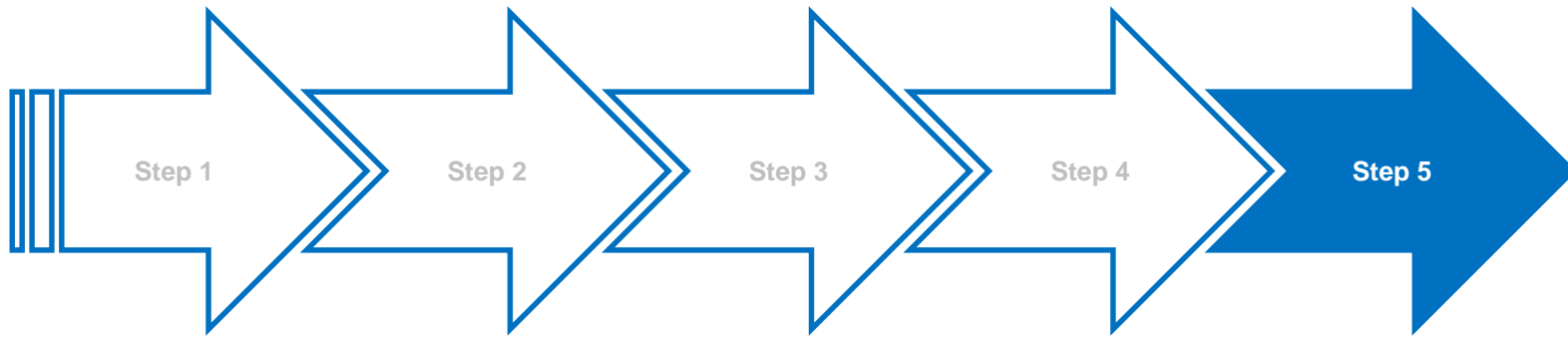
Recommendations



Develop a **draft business case** for the new facility and calculate the **commercial rates** for operation.



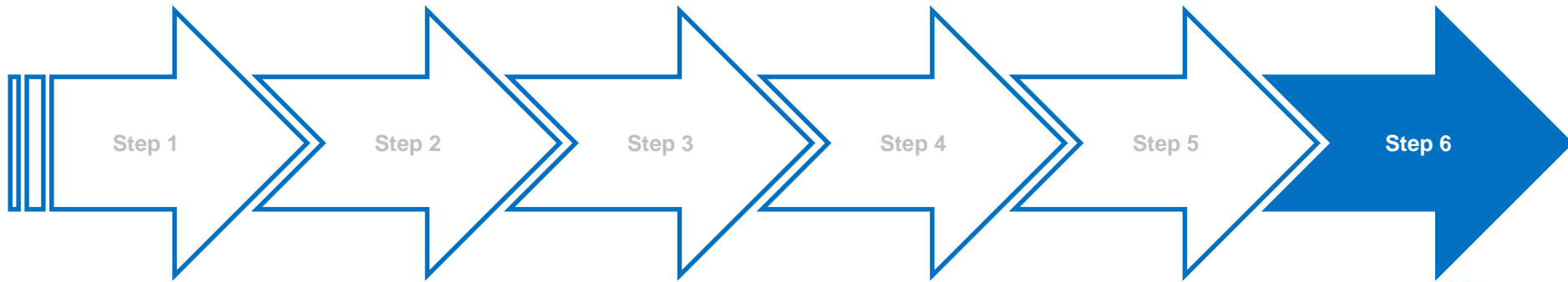
Recommendations



Present the commercial rates to the most important stakeholders and analyse their **long-term commitment**



Recommendations



Analyse the **business case** for **investments** in new shared facilities or sharing of existing facilities with new functionalities, based on the total commitment given.



Shared Facilities/Demonstrators Industry commons

- **easier and cheaper access** to connected and combined technology infrastructures,
- lead to **industrial upscale** and replication in various sectors,
- the potential to increase efficiency of research and innovation systems;
- **moving beyond “just retour” thinking, towards “high return thinking”**. It is not about where the means are deployed, but about maximizing the returns they can yield through interlinked innovation ecosystems throughout Europe.
- At this moment, 15 to 20 such ‘shared demonstration platforms’ are being developed by the Vanguard Initiative in 5 technology domains. **Many companies have already committed themselves to access the demonstration platforms once they are operational, co-investing in it.**

Shared Facilities/Demonstrators Industry commons

- **But a financial gap remains to be closed** for these ‘industry commons’ to become effective and to deliver growth and jobs
- ... and at this moment, **there is no suitable instrument in cross-regional, pan-European setting** to support the very much needed investments in innovation infrastructure / ‘industry commons’
- **The lack of matching with current funding possibilities is a major constraint.** Finding a better match is a collective responsibility (regional , national + EU authorities)
 - Low success rate and uncertainty of EU Calls (no structural solution);
 - Complexity of ESIF-H2020-EFSI combinations, especially in a transregional context;
 - Lack of funding for investment in demonstration infrastructure in H2020.
- **Thus, at this moment, it is impossible to set up a continuous pipeline of industrial investments** ... In the best case we have only a few ‘lucky one shots’

Shared Facilities/Demonstrators Industry commons

“Different rules, for example in the field of state aid or public procurement, make synergies difficult between the different EU funds, such as Cohesion Policy funds, the European Fund for Strategic Investments (EFSI), Horizon 2020 or COSME, although they often pursue the same objectives”

“Projects financed by Cohesion Policy should not receive more restrictive treatment than similar projects under central EU management.”

Recommendation from the HLG on Simplification ESIF post 2020



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