Tampere University

Horizon Europe

Some funding possibilities

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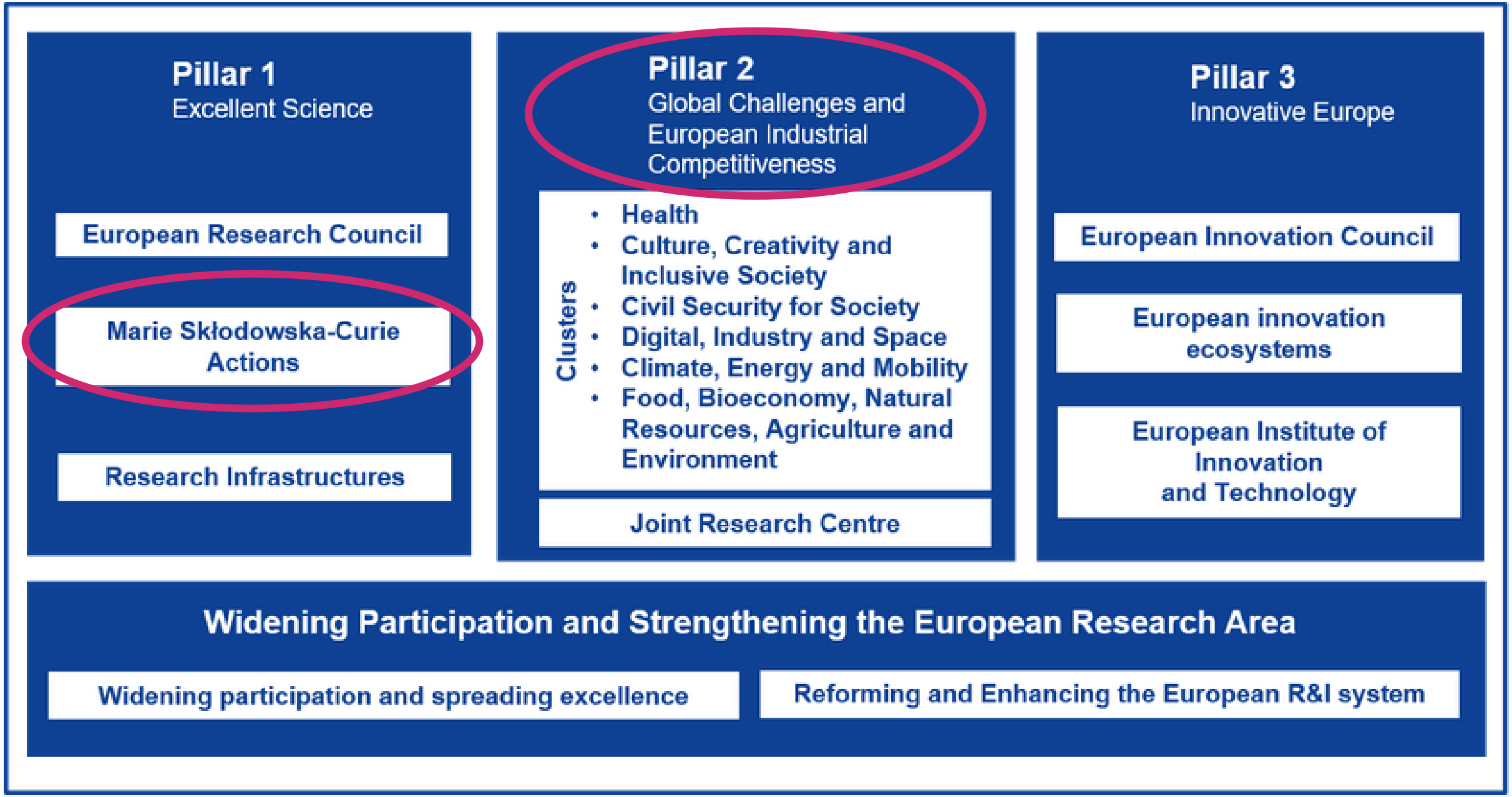
Programme structure



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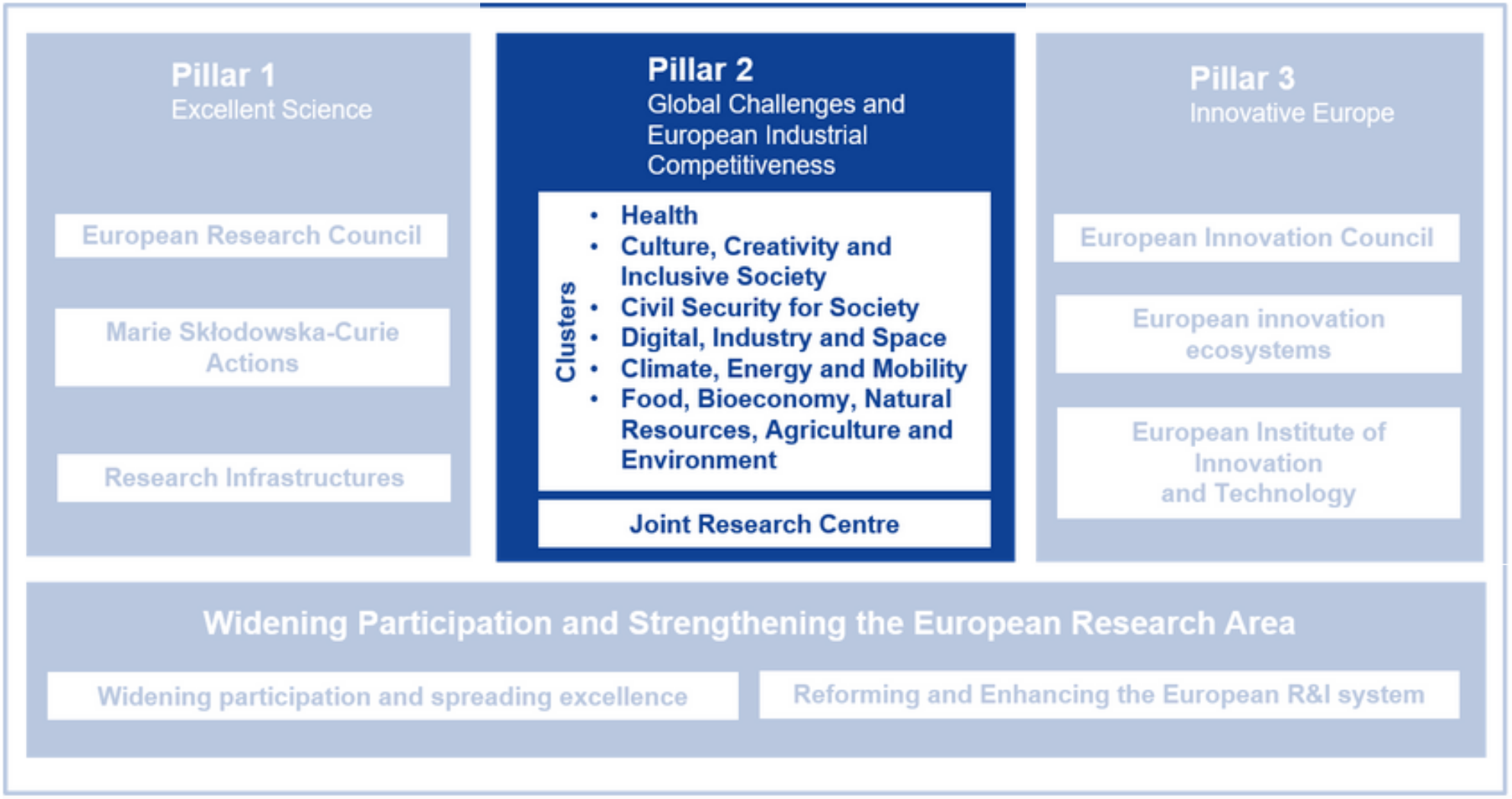
Pillar 2:
Global challenges and European Industrial Competitiveness



Research and Innovation Actions

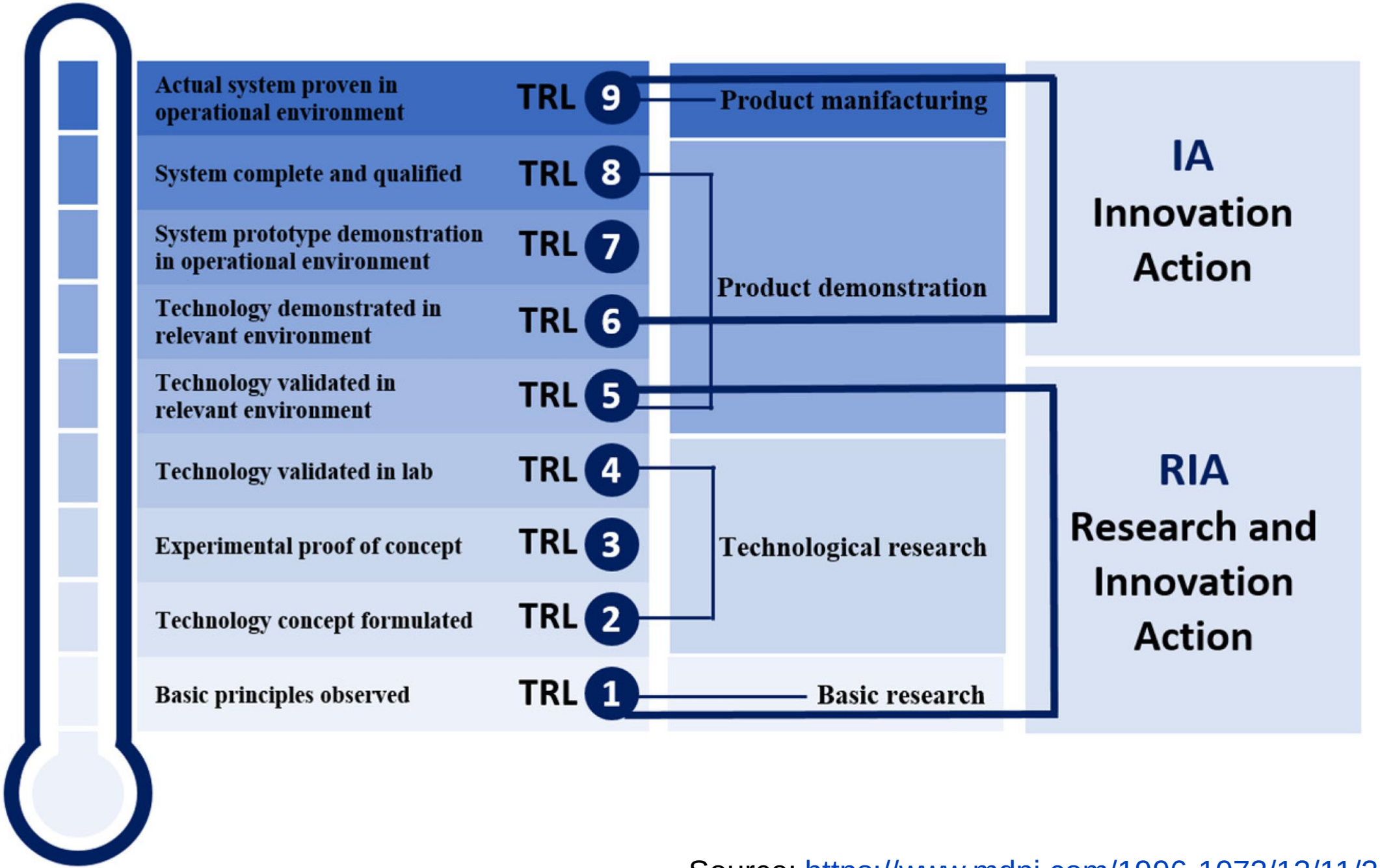
EU funding rate – 100%

Activities aiming to establish new knowledge and/or to explore the feasibility of a new or improved technology, product, process, service or solution. For this purpose, they may include **basic and applied research, technology development and integration, testing and validation on a small-scale prototype in a laboratory or simulated environment**. Projects may contain closely connected but limited demonstration or pilot activities aiming to show technical feasibility in a near to operational environment.

Innovation Actions

EU funding rate – 70% (except non-profit, which are still funded 100%)

Activities directly aiming at producing plans and arrangements or designs for new, altered or improved products, processes or services. For this purpose, they may include **prototyping, testing, demonstrating, piloting, large-scale product validation and market replication**.



Source: https://www.mdpi.com/1996-1073/13/11/2835/htm

What does the funding cover?

a) **Personnel costs**
   - Gross salaries + employer costs

b) **Subcontracting costs**
   - May not cover core tasks of the project

c) **Purchase costs**
   - Travel, durable equipment (~partial remuneration), consumables, services, …

d) **Indirect costs**
   - 25% flat rate A+C

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Intelligent work piece handling in a full production line (Made in Europe Partnership) (RIA)

Expected Outcome: Projects are expected to contribute to the following outcomes:

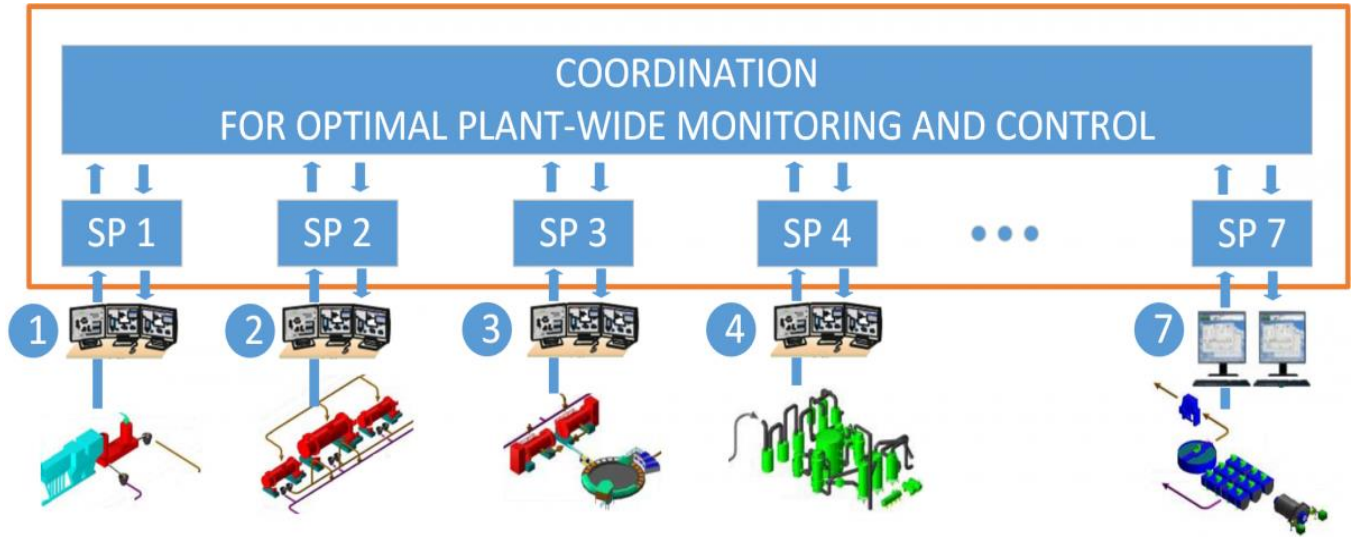
- Develop highly **flexible, resilient, reconfigurable and agile production lines** able to handle a variety of different products and materials with high precision;
- Deploy **easy to program advanced control systems** capable of intelligent handling of complex products in terms of shape, size, material and stiffness;
- **Increase productivity** by enabling fast and accurate movement of work pieces through the production line, ensuring **just-in-time delivery and reducing downtime**.

Scope:

- The global trends towards product customization have increased production complexity. To maintain global leadership and competitiveness of European manufacturing industry, there is a strong need for efficient, flexible, reconfigurable and data-driven agile factories. The recent pandemic crisis highlighted even further the need of manufacturing lines that can switch production within a matter of hours.
- Products and component handling is an integral part of the manufacturing industry and its optimization increases productivity while minimizing production costs and time. However, the increasing complexity and customization of products coupled to the paradigm shift towards circular economy requires new assembly and disassembly lines able to handle a high variety of work pieces which might be available as 3D models or just as physical artefacts. Therefore, there is an increasing demand for innovative smart automated handling systems.

Example project: Coordinating Optimisation of Complex Industrial Processes COCOP

The objective is to define, design and implement a concept that integrates existing industrial control systems with efficient data management and optimisation methods and provides means to monitor and control large industrial production processes.



Optimation's role:

In this project, we will focus on developing the basic requirements and architectures forming the basis for the development process. We also believe that the results from COCOP project will be possible to transfer to our customers in e.g. pulp and paper, energy production and minerals and mining.

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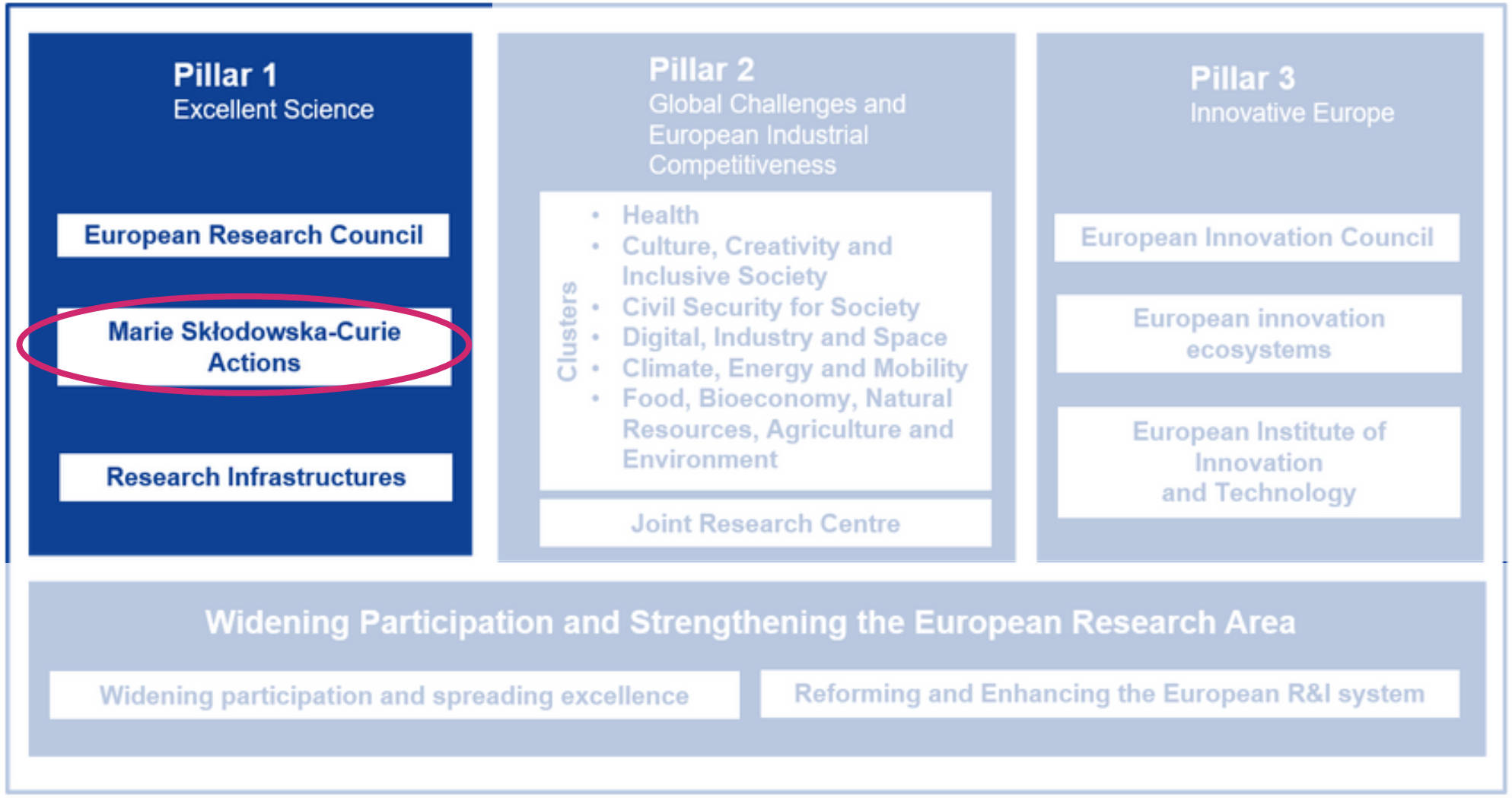
Pillar 1: Excellent Science



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MSCA – Marie Skłodowska-Curie Actions

WHAT?

- Research project aligned with career development
- International, intersectoral and interdisciplinary

TO WHOM?

- **Postdoctoral fellowship**: post-docs
- **Doctoral networks**: PhD candidates

TAU EXAMPLE

- ITN: Plenoptima

WHEN?

- MSCA Post-docs: 9/2022
- MSCA Doctoral network: 11/2022
- Typically deadlines every year around same month

MSCA Post Doctoral Fellowships – What?

- Supports the **researchers's career development** through mobility
- **Bottom-up** approach – any research field/any innovation!
- Open to **all nationalities**
- Supports cooperation between **different sectors**

Call open now!
Call deadline: 14.9.2022

MSCA PF target group:
Researchers with a **PhD**!

MSCA Post Doctoral Fellowships – What's new?

- Must have **a PhD** by the deadline of the call
- No age limit but "scientific age" restrictions now applied – 8 years (to which only **full-time scientific work** counts)
- Candidates must have spent less than 12 months in the host country during the last 3 years (counted back from call deadline)!
- Additional 6 months for placement in the non-academic sector implemented at the end of the fellowship
- Worldwide secondments

Call open now!
Call deadline: 14.9.2022

MSCA PF target group:
Researchers with a **PhD**!

MSCA Doctoral Networks – What?

- Aim to train creative, entrepreneurial, innovative and resilient doctoral candidates, able to face current and future challenges.
- **Bottom-up** approach – any research field/any innovation!
- Open to **all nationalities**
- Supports cooperation between **different sectors**

Call deadline: 15.11.2022

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Project types

Duration of programme in all types: 48 months maximum

Standard Doctorates

- Max number of months is 36 per student
- 360 Months Per project
- **Max 10 Doctoral Student/Network**

Industrial Doctorates

- Max Doctoral Candidate Months per network can be increased to 540
- Max number of months is 36 per student
- **Max 15 Doctoral Candidates/Network**
- Joint supervision is mandatory

Joint Doctorates

- Max Doctoral Candidate Months per network can be increased to 540
- Max number of months is 36 per student
- **Max 15 Doctoral Candidates/Network**
- Joint degrees, selection and supervision
- **Preagreement is required**

MSCA Doctoral Networks – What else

Eligibility conditions – Who can apply?

- **consortia** of universities, research institutions, businesses and other
- **at least three independent legal entities**, each established **in a different EU Member State or Horizon Europe Associated Country** and with at least one of them in an EU Member State
- all **beneficiaries must recruit** at least one doctoral candidate to host at their premises and supervise

Call deadline: 15.11.2022

Some useful links

- EUTI kouluttaa https://dreambroker.com/channel/90cfvygh#/nomenu
- Esitysaineistoja: https://www.businessfinland.fi/suomalaisille-asiakkaille/palvelut/rahoitus/horisontti-eurooppa/esitysaineistoja
- Horizon Europe events: https://ec.europa.eu/info/events_en

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Thank you!

Further information and questions:

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