



Yrityksen kasvun sparraus -sarja:

**PK-yritystenTKI-aktivointi ja EU-
hankeohjelmat**

Tampereen Yliopiston yrityspalvelut EU-projekteissa

TkT Mika Saarinen
Grant Writer

Tutkimuspalvelut
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Mika Saarinen

PhD 2002 Technical physics (semiconductors & photonics)

Evaluation experience:

- **FP7 PEOPLE MSCA-IF Evaluator 2006-2013**
- **H2020 MSCA-IF Evaluator 2014-2018, Vicechair 2019-2020**
- **Horizon Europe MSCA-PF Vicechair 2021**

- H2020 NMBP Evaluator and Project Reviewer 2016-2021
- H2020 Spreading Excellence and Widening - ERA Chairs Evaluator 2019-2021
- Denmark Innovation Fund Evaluator 2015-
- Eureka EuroStars-1 and EuroStars-2 Evaluator 2012-
- INNOWWIDE Evaluator 2019-

Companies:

- Nordic Epitaxy, Modulight, EpiCrystals, Soiwa Design, Coherent

Visits:

- University of Minnesota, University of California Santa Barbara



EU-rahoitusta?

Mitä?

- Rahoitusta tukemaan yrityksen tuotekehitystä ja kv. kasvua
- Rahoitusta tukemaan tutkijoiden huippututkimusta ja liikkuvuutta, esim. työskentelyä yrityksissä

Mihin?

- Uuden tiedon tuottamiseen
- Uusien palveluiden, tuotteiden, prosessien sekä liiketoimintaidean jalostamiseen

Miksi?

- Rahoitusta
- Yhteistyötä, asiakkaita, markkinoita
- Kasvulle tärkeitä verkostoja
- Kilpailijat ovat jo siellä!

Miksi juuri nyt?

- Onnistuminen vaatii työtä, strategista suunnittelua sekä yhteistyökumppaneita
- Uusi puiteohjelma, Horisontti Eurooppa, on alkamassa

- Yksinkertaistettu raportointi ja hallinnointi, ennakkomaksut



#HorizonEU

THE EU
RESEARCH & INNOVATION
PROGRAMME

2021 – 2027

Support to RIA / IA proposal preparations (TAU coordinator)

- Services offered by TAU Research Services: preaward@tuni.fi
 - Trainings (general & customised)
 - Co-developing your idea and finding suitable funding calls
 - Suggestions on potential partners
 - Commenting your proposal and guidance on budgeting
 - Co-writing your proposal, if project coordinated by TAU
 - Co-financing of external consultants – case by case
 - Feedback on your budget, faculty's financial support
- Open Access: oa@tuni.fi
- Data Management: researchdata@tuni.fi
- Administrative project manager, data manager –services, IPR

HORIZON EUROPE April 2021 – December 2027

- The next EU research & innovation programme, succeeding Horizon 2020
- Budget deal finally reached – 95.5 billion euros → 30% increase from H2020
- In comparison to Horizon 2020: "Evolution, not revolution"
- Drafts available for the clusters – Not all are confirmed yet (ERC and EIC confirmed).
- Publication of the first calls anticipated by mid-~~April~~ June 2021
- The first calls will close already in fall 2021

European Innovation Council, EIC

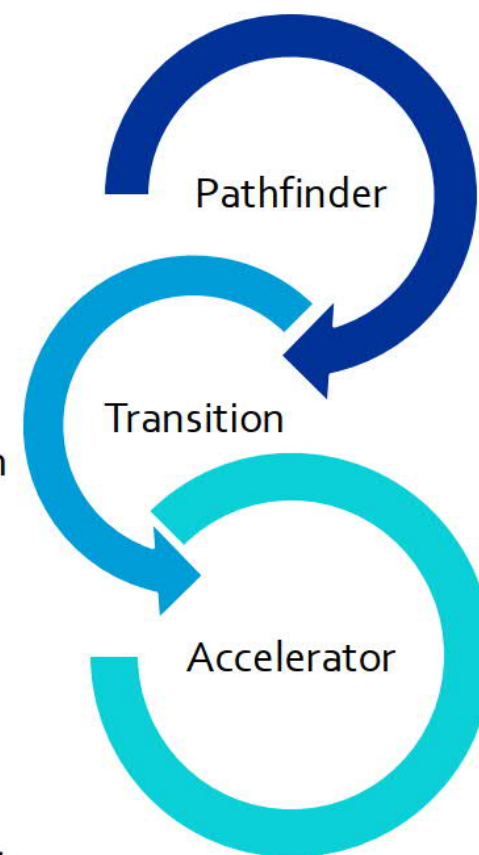
Support to the full innovation cycle from **research and development** to **rapid scale** up of innovative technologies and companies (mainly start-ups and SMEs) at international level.

[EIC Pilot \(2018-2020\) Impact Report](#)

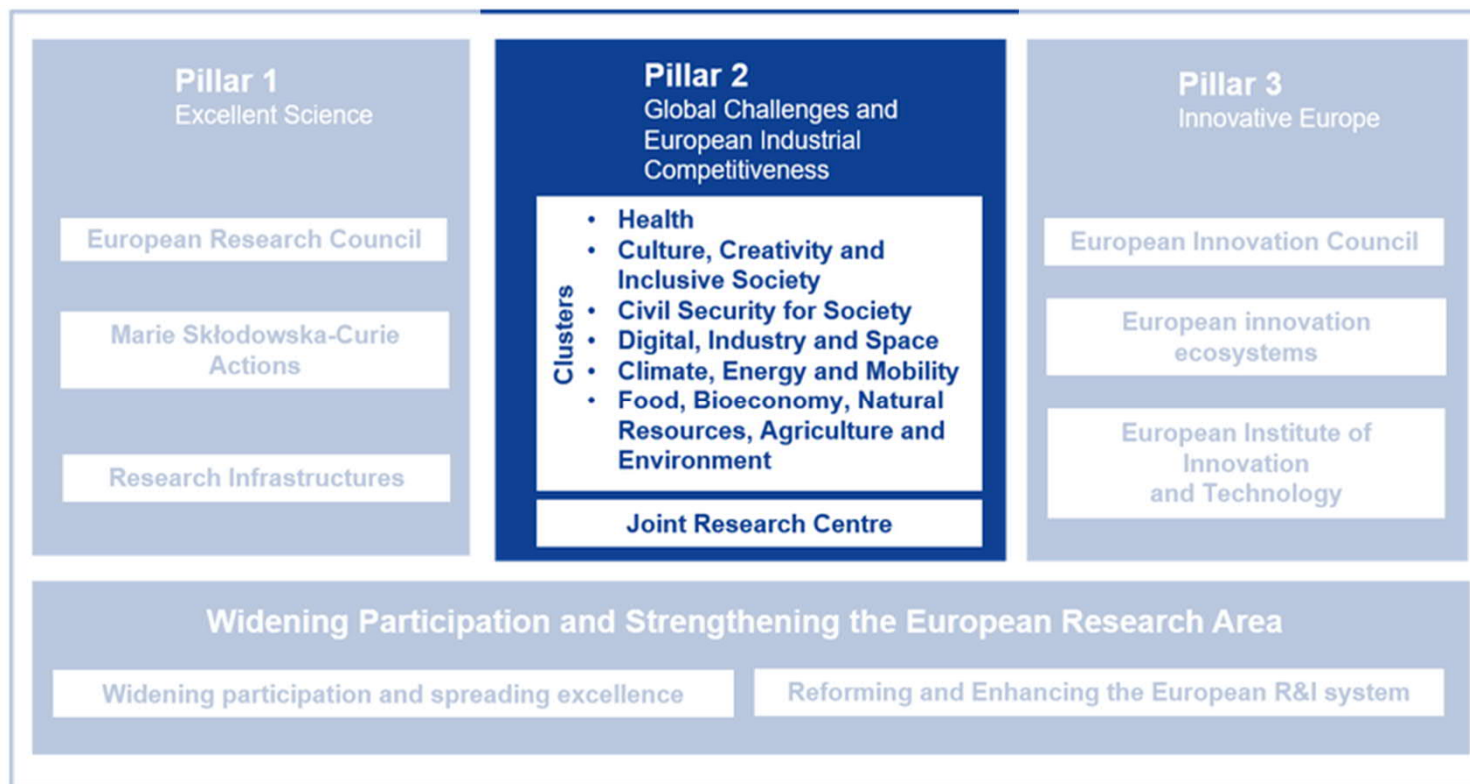
- **Pathfinder** (ex FET Open/Proactive): early stage research of breakthrough technologies by a multidisciplinary/sectorial consortium
- **Transition**: to develop market readiness of most potential research findings – open only to Pathfinder or ERC PoC projects
- **Accelerator** (ex SME Instrument): finalize the deep-tech technology, commercialisation and scale-up by single innovative SMEs

Funding mainly through **bottom-up schemes** – *Open Calls*

All instruments also contribute to **thematic priorities**: – *Challenge Calls*



Pillar 2: Global challenges and European Industrial Competitiveness



Collaborative projects in Pillar 2 – the instruments

- **RIA** Research and Innovation Action
 - Activities to establish new knowledge or to explore the feasibility of a new or improved technology, product, process, service or solution. Pre-competitive research
 - Activities are expected to achieve TRL 3-5 by the end of the project, budget anywhere 3-**5-8**-10 M€, usually more than 4-5 partners, *TRL4 technology validated in lab*
- **IA** Innovation Action
 - Activities to produce plans and arrangements or designs for new, altered or improved products, processes or services. Getting innovation closer to the market.
 - Activities are expected to achieve TRL 6-8 by the end of the project , budget anywhere 5-**8-12**-25 M€, usually more than 10 partners and even more than 20 partners might be fine
 - *TRL7 system prototype demo in operational environment*
- **CSA** Coordination and Support Action
 - Activities that contribute to the objectives of Horizon Europe. This excludes R&I activities, except for ‘Widening participation and spreading excellence’. Policy support, project clustering and services to the European Commission, budget anywhere 0,5-**1-2**-5 M€

Calls in the six Clusters in 2021-2022 (tentative)

- CL1 Health: RIA - 31 calls, IA - 1 call, CSA - 11 calls
- CL2 Culture & Society: RIA - 43 calls, IA - 0 calls, CSA - 4 calls
- CL3 Civil Security: RIA - 23 calls, IA - 31 calls, CSA - 9 calls
- CL4 Digital, Industry & Space: RIA - 99 calls, IA - 55 calls, CSA - 29 calls
- CL5 Climate, Mobility & Energy: RIA - 93 calls, IA - 72 calls, CSA - 21 calls
- CL6 Food, Bioeconomy: RIA - 92 calls, IA - 41 calls, CSA - 42 calls

Commonly the number of IA calls increase towards the end of the programme to provide funding for advancement of results from RIA-projects to higher TRL

Overview of 49 candidate European Partnerships

PILLAR II - Global challenges & European industrial competitiveness

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture, ...
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth
Transformation of health systems	High Performance Computing	Single European Sky ATM Research 3	Climate Neutral, Sustainable & Productive Blue Economy
Chemicals risk assessment	European Metrology (Art. 185)	Europe's Rail	Water4All
ERA for Health	AI-Data-Robotics	Connected and Automated Mobility (CCAM)	Animal Health & Welfare*
Rare diseases*	Photonics	Batteries	Accelerating Farming Systems Transitions*
One-Health Anti Microbial Resistance*	Made in Europe	Zero-emission waterborne transport	Agriculture of Data*
Personalised Medicine*	Clean steel – low-carbon steelmaking	Zero-emission road transport	Safe & Sustainable Food System*
Pandemic Preparedness* <i>Co-funded or co-programmed</i>	Processes4Planet	Built4People	
	Global competitive space systems**	Clean Energy Transition	
		Driving Urban Transitions	

- Institutionalised Partnerships (Art 185/7)
- Institutionalised partnerships / EIT KICs
- Co-Programmed
- Co-Funded

* Calls with opening dates in 2023-24
 ** Calls with opening dates not before 2022

PILLAR III - Innovative Europe

EIT	SUPPORT TO INNOVATION ECOSYSTEMS
InnoEnergy	Innovative SMEs
Climate	
Digital	
Food	
Health	
Raw Materials	
Manufacturing	
Urban Mobility	
Cultural and Creative Industries	

CROSS-PILLARS II AND III

European Open Science Cloud



Who is eligible for funding?



EU COUNTRIES

- Member States (MS) including their outermost regions
- The Overseas Countries and Territories (OCTs) linked to the MS.



NON-EU COUNTRIES

- Countries associated to Horizon Europe (AC)
- Low and middle income countries: See [HE Programme Guide](#).
- Other countries when announced in the call or exceptionally if their participation is essential



SPECIFIC CASES

- Affiliated entities established in countries eligible for funding.
- EU bodies
- International organisations (IO):
 - International European research organisations are eligible for funding.
 - Other IO are not eligible (only exceptionally if participation is essential)
 - IO in a MS or AC are eligible for funding for Training and mobility actions and when announced in the call conditions

Eligibility criteria of RIA/IA/CSA

- RIA and IA
 - at least one independent legal entity established in a Member State, **and**
 - at least two other independent legal entities each established either in a different Member State or an Associated Country.
- CSA
 - at least one legal entity established in a Member State or associated country.
- Always check the call text! Examples:
 - In order to achieve the expected outcomes, and safeguard the Union's strategic assets, interests, autonomy, or security,
 - namely the security-sensitive nature of the autonomy of European infrastructures against systemic risks and hybrid threats participation is **limited to legal entities established in Member States only**.
 - namely to increase EU resilience in raw materials supply chains for EU industrial value chains and strategic sectors to enable their green and digital transition and to reduce current EU over-dependence on a few third countries for critical raw materials by diversifying supply and using environmentally friendly technologies, **participation is limited to legal entities established in Member States, associated countries, OECD countries, African Union Countries, and Latin America**
 - This topic requires the active involvement of at least 2 Border or Coast Guard Authorities and 2 Customs Authorities, from at least 3 different EU Member States or Associated countries.

Recommended mapping before you start

- State-of-the-Art and the EU-projects behind published results and known pilots
 - Who and what was funded by Horizon 2020?
- Winning research teams: oligarchs of the EU system
 - Key coordinators
- Scarce resources: companies to win over to your idea
 - All information are public on CORDIS

Consortium and stakeholders

Beneficiaries signing the Grant Agreement with the EU

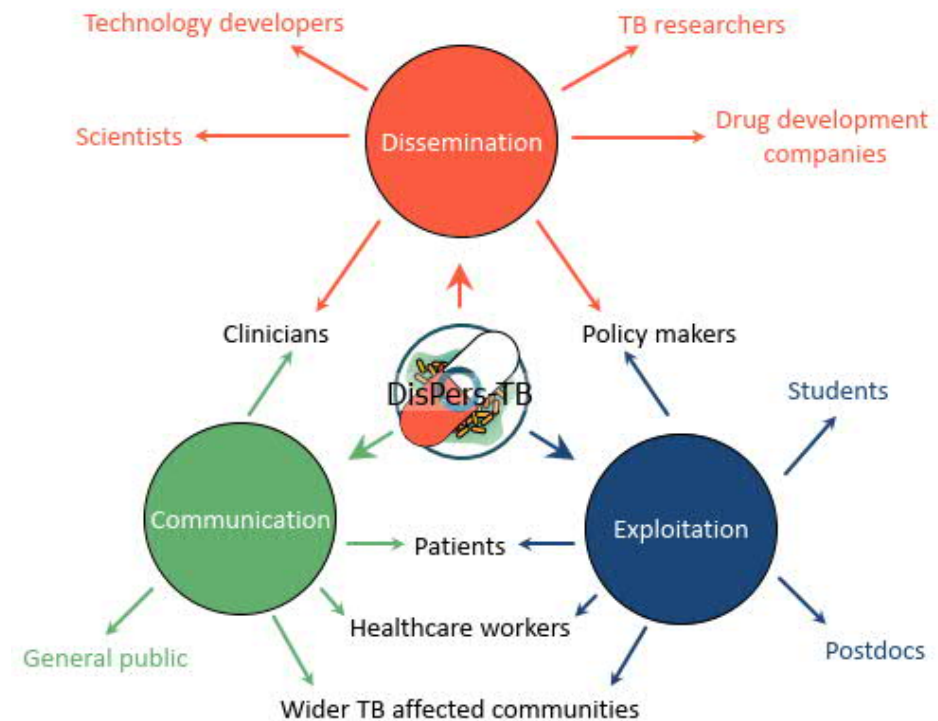
- Coordinator and Partners

Parties NOT signing, but listed in the Grant Agreement

- Third Parties (Linked Third Parties)
= Associated parties

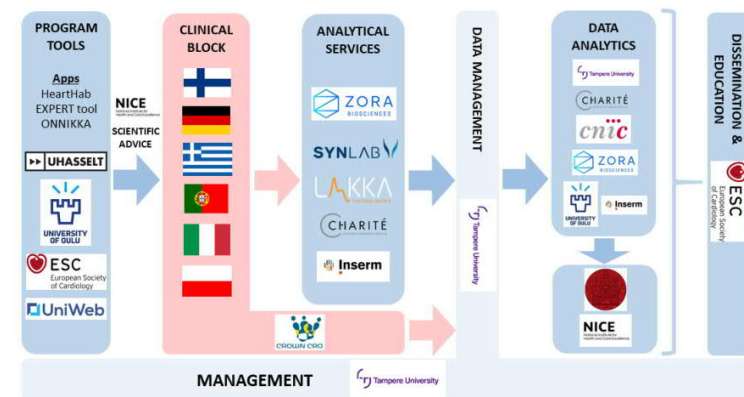
Parties Not signing, Not having a legal role in the GA

- Subcontractors
- Advisory/Sounding Board, Industry Interest Group/Panel
- Stakeholders, e.g. cities, patient organisations
- Proof of Commitment by Letters of Support



Strategies to form a consortium

- Invite friends *You might not invite strangers without any recommendations*
- Meet people (online) at Brokerage events
- Think outside the box and analyse successful consortia (CORDIS)
- Analyse the essential competences required to implement your idea
- Analyse the call text "Expected Outcomes" and design "Pathways to Impact" and identify the needed actors and stakeholders interested in the outcomes especially AFTER the project
- Form a value chain from a business perspective (IA)
- Networking, partnerships



Policy priorities: your project & partners

Horizon Europe - Work Programme 2021-2022 FI 6.4 in ISC, Mar '21

EN
Annex 4
Horizon Europe
Work Programme 2021-2022
4. Health

Horizon Europe - Work Programme 2021-2022 FI 6.4 in ISC, Mar '21
Health

Destination 2 - Living and working in a health-promoting environment: Living and working environments are health-promoting and sustainable thanks to better understanding of environmental, occupational, social and economic determinants of health.

Destination 3 - Tackling diseases and reducing disease burden: Health care providers are able to better tackle and manage diseases (infectious diseases, including poverty-related and neglected diseases, non-communicable and rare diseases) and reduce the disease burden on patients effectively thanks to better understanding and treatment of diseases, more effective and innovative health technologies, better ability and preparedness to manage epidemic outbreaks and improved patient safety.

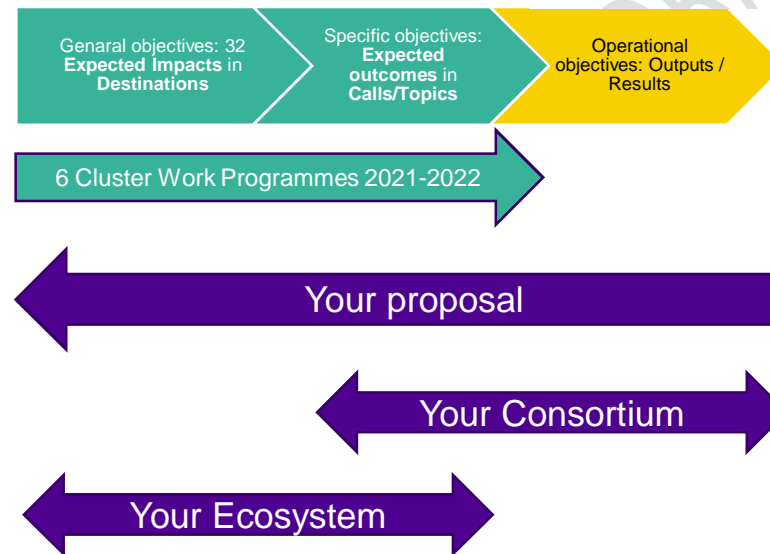
Destination 4 - Ensuring access to innovative, sustainable and high-quality health care: Health care systems provide equal access to innovative, sustainable and high-quality health care thanks to the development and uptake of safe, cost-effective and people-centred solutions, with a focus on population health, health systems resilience, as well as improved evidence-based health policies.

Destination 5 - Unlocking the full potential of new tools, technologies and digital solutions for a healthy society: Health technologies, new tools and digital solutions are applied effectively thanks to their inclusive, secure and ethical development, delivery, integration and deployment in health policies and health care systems.

Destination 6 - Maintaining an innovative, sustainable and globally competitive health-related industry: EU health industry is innovative, sustainable and globally competitive thanks to improved up-take of breakthrough technologies and innovations, which makes the EU with its Member States more resilient and less dependent from imports with regard to the access to and supply of critical health technologies.



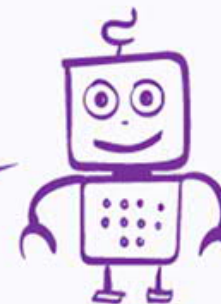
CLUSTER IMPACT SUMMARY	
Cluster 1 HEALTH	
Cluster 1 will support in particular the following two Horizon Europe key strategic orientations and impact areas associated to them ²³	
KEY STRATEGIC ORIENTATIONS FOR R&I	<p>KSO A: Promoting an open strategic autonomy by leading the development of key digital, enabling and emerging technologies, sectors and value chains</p> <p>KSO D: Creating a more resilient, inclusive and democratic European society</p>
IMPACT AREAS	<p>Competitive and secure data-economy</p> <p>High quality digital services for all</p> <p>A resilient EU prepared for emerging threats</p> <p>Good health and high-quality accessible healthcare</p>
EXPECTED IMPACTS	<p>5. Unlocking the full potential of new tools, technologies and digital solutions for a healthy society</p> <p>6. Maintaining an innovative, sustainable and globally competitive health-related industry</p> <p>1. Staying healthy in a rapidly changing society</p> <p>2. Living and working in a health-promoting environment</p> <p>3. Tackling diseases and reducing their burden</p> <p>4. Ensuring access to innovative, sustainable & high-quality health care</p>



EUROPEAN RESEARCH & INNOVATION DAYS

23 → 24
JUNE 2021

DIGITAL EVENT



#RiDaysEU



Thank you!

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