Rannís, Iceland

Navigating Horizon Europe: Finding the Right Opportunities for Your Expertise

Kolla Bjargmundsdóttir. NCP for cluster 5 & 6. Task Leader in Greenet

Agenda

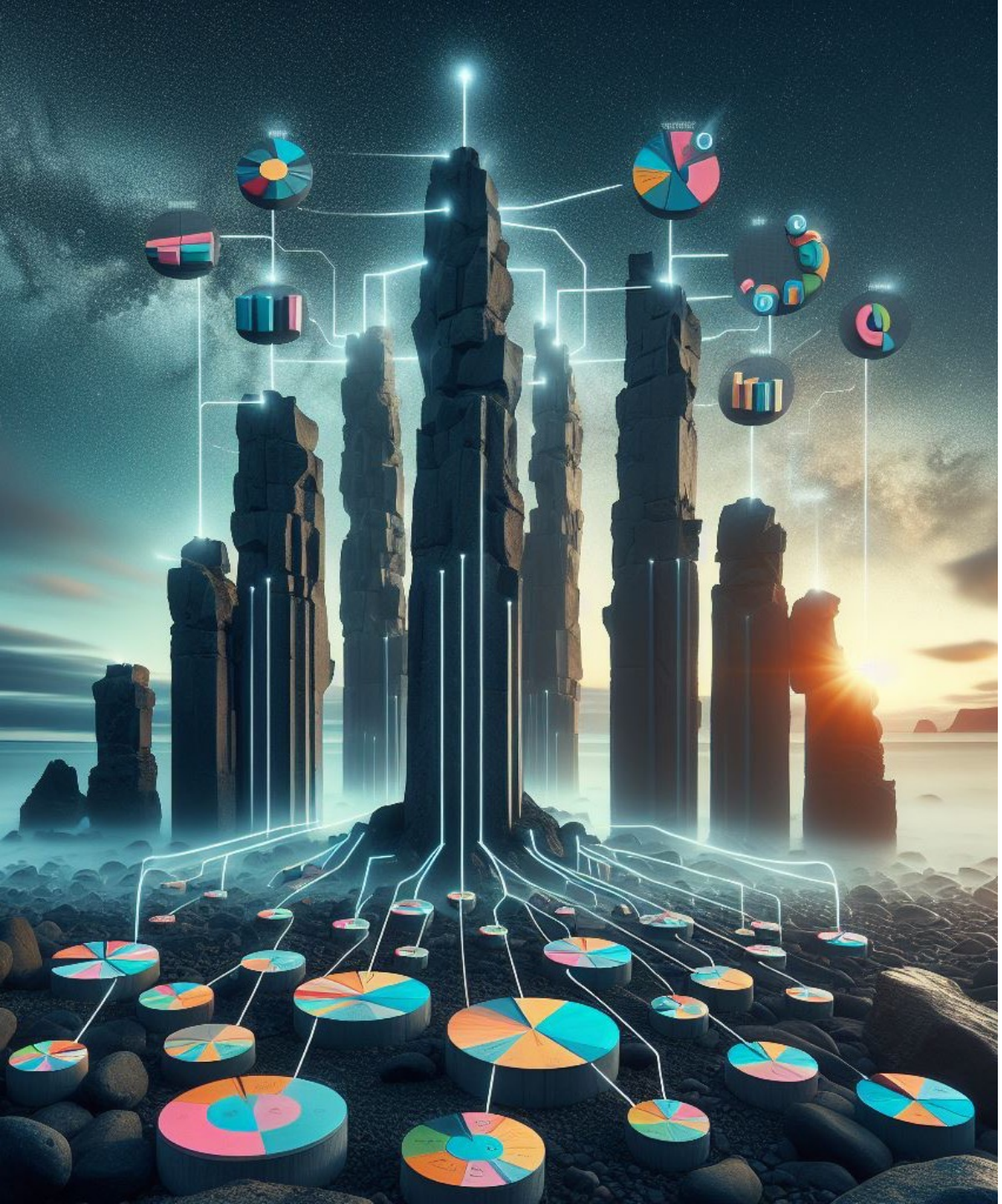
Little bit about Rannís

Icelandic Landscape & Success in Horizon Europe

How to find opportunities in line with your passion within Horizon Europe

How to find a consortium

- Useful links, networks & support



Little bit about Rannís

The Icelandic Centre for Research **(RANNIS)** supports research, innovation, education and culture in Iceland

Administers competitive funds in the fields of research, innovation, education and culture, as well as strategic research programmes.

Coordinates and promotes Icelandic participation in European programmes such, as **Horizon Europe**, LIFE, EEN, Erasmus+ and Creative Europe.

Iceland's parliament is the oldest in Europe

Althingi, Iceland’s parliament, was established in 930 AD and is considered to be the first parliamentary institution in Europe. It was originally located in **Thingvellir** but is now in the capital city of **Reykjavik**.

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Iceland had the world's first democratically elected female president

Vigdís Finnbogadóttir became the world's first democratically elected female president when she was elected as the President of Iceland in **1980**. She served as president for **four consecutive terms** until 1996.

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Iceland's energy is 90% green

Iceland is known for having one of the **highest percentages of renewable energy use in the world**.

The country relies primarily on renewable energy sources such as geothermal and hydroelectric power for its electricity production and heating needs. **Approximately 85-90% of Iceland's total energy consumption comes from renewable sources**.

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Demography

Iceland's population size stands at approximately **389.444** people & ~400.000 sheeps

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Horizon Europe: Icelandic Participation
Updated: August 2024

Number of funded projects with Icelandic participation	120
Number of participation instances in funded projects.	153
Number of proposals submitted	486
Number of participation instances in proposals.	692
Number of Icelandic entities as Coordinator of projects.	21
Number of Icelandic entities as Coordinator of proposals	208
Overall success rate	25%
Total funding to Icelandic entities	66.590.123 €

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Horizon Europe: Icelandic Participation By type of Entity

Participation Type	Participants in Proposals	Proposals % of total	Participants in Projects	Projects % of Total
Larger companies	116	17%	23	15%
Small and medium-sized enterprises (SMEs)	**136**	**20%**	**24**	**16%**
Research institutions	**134**	**19%**	**36**	**24%**
Universities	**223**	**32%**	**33**	**22%**
Public institutions	64	9%	30	20%
Others	19	3%	7	5%
Total	692	100%	153	100%

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Programme	No of Icelandic entities in proposals (aug 2024)	No of Icelandic entities in proposals (jan 2024)	No of Icelandic entitites in proposals (sept 2023)
CL2	32	22	15
CL3	20	17	12
CL4	59	45	28
CL5	**98**	**78**	**33**
CL6	**156**	**89**	**45**
EIC	55	43	30
EIE	7	3	1
EIT	3	0	0
ERC	21	19	17
EURATOM	1	1	1
EUROHPC	3	2	1
HLTH	52	35	18
INFRA	21	14	4
JTI	15	1	1
JU	18	9	4
MISS	24	18	7
MSCA	85	60	46
SESAR	8	6	4
WIDERA	14	7	5
Samtals	**692**	**469**	**272**

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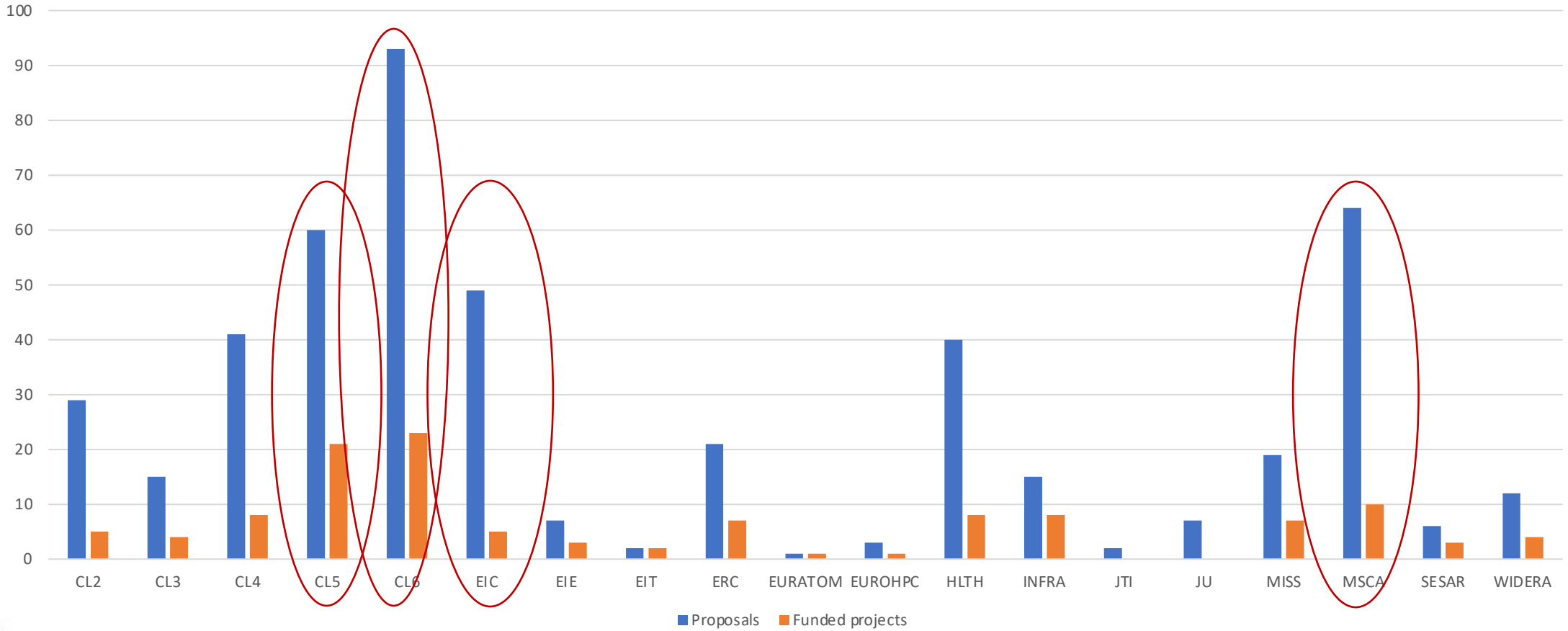
Horizon Europe: Icelandic Participation
Success rate ~25%



What I want to do for you!

Teach you how to find opportunities in line with your passion / path of trajectory

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HORIZON EUROPE

EURATOM

SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND

Exclusive focus on defence research & development

- Research actions
- Development actions

SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT*

Exclusive focus on civil applications

Pillar I
EXCELLENT SCIENCE

- European Research Council
- Marie Skłodowska-Curie
- Research Infrastructures

Pillar II
GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

Clusters

- Health
- Culture, Creativity & Inclusive Society
- Civil Security for Society
- Digital, Industry & Space
- Climate, Energy & Mobility
- **Food, Bioeconomy, Natural Resources, Agriculture & Environment**

- Joint Research Centre
- EU Missions

Pillar III
INNOVATIVE EUROPE

- European Innovation Council
- European Innovation Ecosystems
- European Institute of Innovation & Technology*

WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

- Widening participation & spreading excellence
- Reforming & Enhancing the European R&I system

EURATOM

- Fusion
- Fission
- Joint Research Center

* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

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European Commission

Cluster topic calls: Some basics!

Top Down topic calls – Predefined Expected Outcomes & Impacts but **your expertise might be that missing compounding effect towards a greater impact**

3 Country collaboration (at least one member state)

- Average consortium ~12 partners

Common: 2-30 million euros

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Predefined expected Outcomes

HORIZON-CL5-2026-02-D3-22: Underground Thermal Energy Storage in dense urban areas

Call: Cluster 5 Call 02-2026 (WP 2025)	
Specific conditions	
Expected EU contribution per project	n of around EUR 9.00 ressed appropriately. n and selection of a
Indicative budget	.00 million.
Type of Action	
Technology Readiness Level	e end of the project – see General Annex B. Activities may start at any TRL.

Dont worry if you feel this is a bit fast.
Ms Natalia Shatirishvili has a presentation at 15:30:
Presentation of Horizon Europe Cluster 5 new work programme for 2025

Expected Outcome: Project results are expected to contribute to all of the following expected outcomes:

- Advanced European innovative knowledge basis and increased technology competitiveness in the area thermal storage;
- Improved security of the future European renewable-based energy system;
- Contribution to the decarbonisation of cities and densely populated urban areas with high safety solutions;
- Significant reduction of LCOHS (Levelised Cost of Heat Storage);
- Local communities are engaged and their expectations are responded to.
- Technology developers practice inclusive societal engagement which is early, continuous, and sensitive to the technical specificities (e.g. local resource, subsurface uncertainties) and social challenges (e.g. low public awareness) of underground thermal energy storage technologies in the context of densely populated urban areas.

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Top Down: Rainbow and Butterflies

For some this seems hard: *They may dislike collaboration, find the administrative and proposal processes challenging, or feel unsure where to begin.*

They want to pursue their own projects.

But you absolutely can! Your research, passion, or expertise might be the missing element that creates that essential **"compounding effect"** for greater impact.

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Topic calls can be found on:

F&T Portal once they‘re published

In PDF documents

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Rainbow and butterflies

Your research, your passion project 2026-2030?

What is it going to be?

Match your research with the expected outcomes in the topic calls

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Finding your expected outcomes

AI ; ChatGPT, Gemini, Coral AI . . .

Upload the work programmes to your preferred AI and **start playing around…**

You research papers, abstracts, past projects that you want to revisit… ……**anything actually**

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Energy
Volume 320, 1 April 2025, 135205

Deploying a rooftop PV panels in the southern regions of Kazakhstan

Saulesh Minazhova [a], Michael Kurrat [b], Bulbul Ongar [a], Aleksandar Georgiev [c]

Please find expected outcomes where this research is valuable, here's the abstract :

Kazakhstan's solar energy sector is rapidly advancing due to its vast territory and high solar radiation levels in its regions. The progress achieved to date has been primarily driven by large-scale solar power plants. However, further growth in solar energy also requires the

1. Expected Outcome: Energy yield improvement of PV systems based on smart digitalization.

- **How Your Research Contributes:** Your research provides crucial data on real-world PV performance in a specific climate (high irradiance, hot summers). This data can inform the development of smarter, AI-powered inverters that:
    - **Compensate for Temperature Effects:** Inverters can be programmed to dynamically adjust operation to mitigate the negative effects of high panel temperatures on efficiency.
    - **Optimize Power Tracking:** Algorithms can be developed to track the maximum power point more effectively in the fluctuating irradiance conditions you've documented, improving overall energy capture.
    - **Predictive Maintenance:** Data on panel heating and degradation can be used to develop predictive maintenance algorithms for inverters, minimizing downtime and maximizing lifetime energy yield.

2. Expected Outcome: Optimal utilization of generated energy, energy savings, and enhanced overall energy efficiency.

- **How Your Research Contributes:**
    - **Inverter Sizing Optimization:** Knowing the actual power output profile of rooftop PV systems in hot climates will allow for more accurate inverter sizing. This avoids oversizing (which increases costs) and ensures inverters operate at peak efficiency for longer periods.

Finding partners

You have identified „your“ opportunities.

You know what you are seeking

Map: identify your expertise, infrastructure, and available personnel resources & understand how your participation complements the overall project

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Finding partners

Your own network

Greenet: Partner Search Tool & The Stakeholder Directory

B2match of the NCP networks

Partner search

Funding & Tenders Portal. *Look for closed topic calls with overlaps to your topic call. The funded partners might be applying to the same topic call as you have your eyes on.*

Successful Projects on Cordis

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Upcoming events & useful sites

Info days + Brokerage events for the Clusters, MSCA, Missions & ERC to name a few.

Occuring May-June, further information here

I recommend **bookmarking** your respective NCP networks on the NCP Portal bookmarking especially **Greenet**

Here is an annotated template, contemplation sheet.

Useful questions, tips and tricks helping you finetune/adjust each section in the proposal

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Greenet

Thanks for the attention

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Good Luck

Kolbrun@rannis.is

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