

ERC

Patrick Lansley, NCP

HORIZON EUROPE NORTHERN IRELAND ROADSHOW
24 OCTOBER 2024
LISBURN



European Research Council

Patrick Lansley – ERC (SSH) & CL2 NCP
October 2024

Supported by the Irish Research Council Becoming Research Ireland
and jointly operated with the Irish Universities Association

About Me

- National Contact Point for Cluster 2 and European Research Council
- Based at the Irish Universities Association
- Funded by the Irish Research Council (Becoming Research Ireland)



Taighde Éireann
Research Ireland

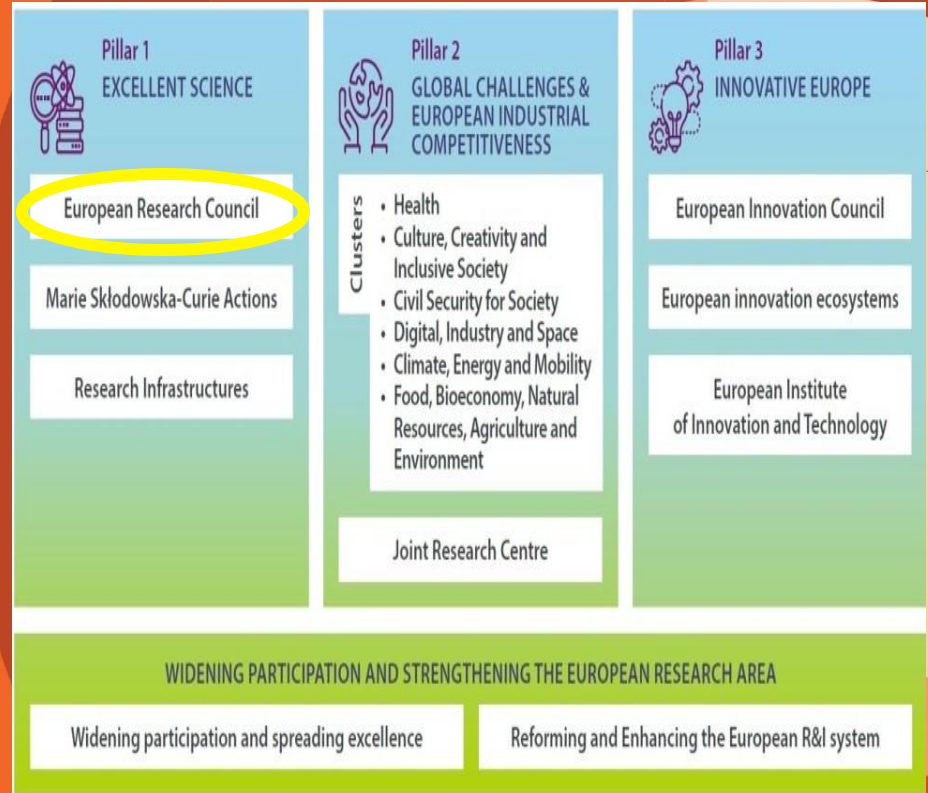
iuua

IRISH
UNIVERSITIES
ASSOCIATION



ERC & Horizon Europe

- Set up in 2007
- Designed to fund excellent frontier research from any academic discipline
- Over 12,000 projects funded
- Budget under the current framework of €16 billion
- President Maria Leptin, implemented by the ERC Executive Agency (ERCEA)



Funding Schemes

Starting Grant

€1.5 million (+€1mil)
2-7 Years Post PhD

Consolidator Grant

€2.0 million (+€1mil)
7-12 Years Post PhD

Advanced Grant

€2.5 million (+€1mil)
Any Career Stage

Synergy Grant

€10 million
2-4 researchers
Any Career Stage

Proof of Concept Grant

€150k
For existing award
holders

Project and Candidate Suitability

Research Project	Principal Investigator
To what extent does the proposed research address important challenges?	To what extent has the PI demonstrated the ability to conduct ground-breaking research?
To what extent are the objectives ambitious and beyond the state of the art?	To what extent does the PI provide evidence of creative and original thinking?
To what extent is the outlined scientific approach feasible bearing in mind the ground-breaking nature and ambition of the proposed research?	To what extent does the PI have the required scientific expertise and capacity to successfully execute the project?
<i>To what extent are the proposed research methodology and working arrangements appropriate to achieve the goals of the project</i>	
<i>To what extent are the proposed timescales, resources, and PI's commitment adequate and properly justified</i>	

Step 2 Assessment only

Career Stage
Appropriate

Application Process



Section A: Administrative
Data, Budget, Ethics



Section B1: Extended
Synopsis (5 pages)



Section B1: CV and
Track Record



Section B2: Scientific
Proposal (14 pages)



Supporting Documents

Panel Selection

Life Sciences
(LS)

SH1 - Individuals, Markets and Organisations

SH2 - Institutions, Governance and Legal Systems

SH3 - The Social World and Its Interactions

SH4 - The Human Mind and Its Complexity

SH5 - Texts and Concepts

SH6 - The Study of the Human Past

SH7 - Human Mobility, Environment and Space

SH8 - Studies of Culture and Arts

Physical
Sciences &
Engineering (PE)

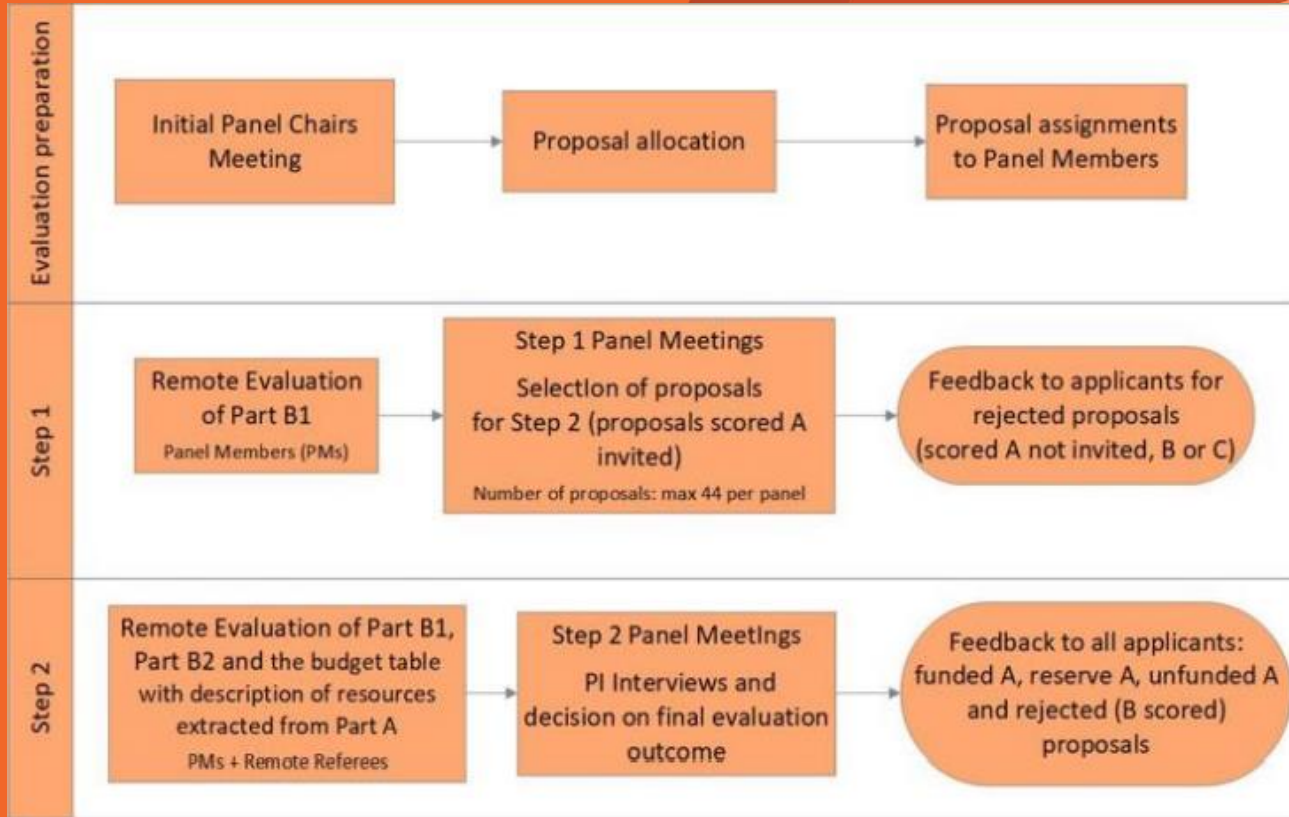
Social Sciences
and Humanities
(SH)

SH2 Institutions, Governance and Legal Systems

Political science, international relations, law

- 1 Political systems, governance
- 2 Democratisation and social movements
- 3 Conflict resolution, war, peace building
- 4 Legal studies, comparative law, law and economics
- 5 Constitutions, human rights, international law
- 6 International relations, global and transnational governance
- 7 Humanitarian assistance and development
- 8 Political and legal philosophy
- 9 Digital approaches to political science and law

Assessment Process



Finding Projects

erc
European Research Council

Dashboard of ERC funded projects and evaluated proposals

< >

Funded Projects | **Evaluated Proposals**

Grant Type | Countries | Domain | Panel | Year

Data last reloaded: 20 September 2024 22:12:15 | For any feedback or assistance, please write to the following address: erc-webmaster@ec.europa.eu

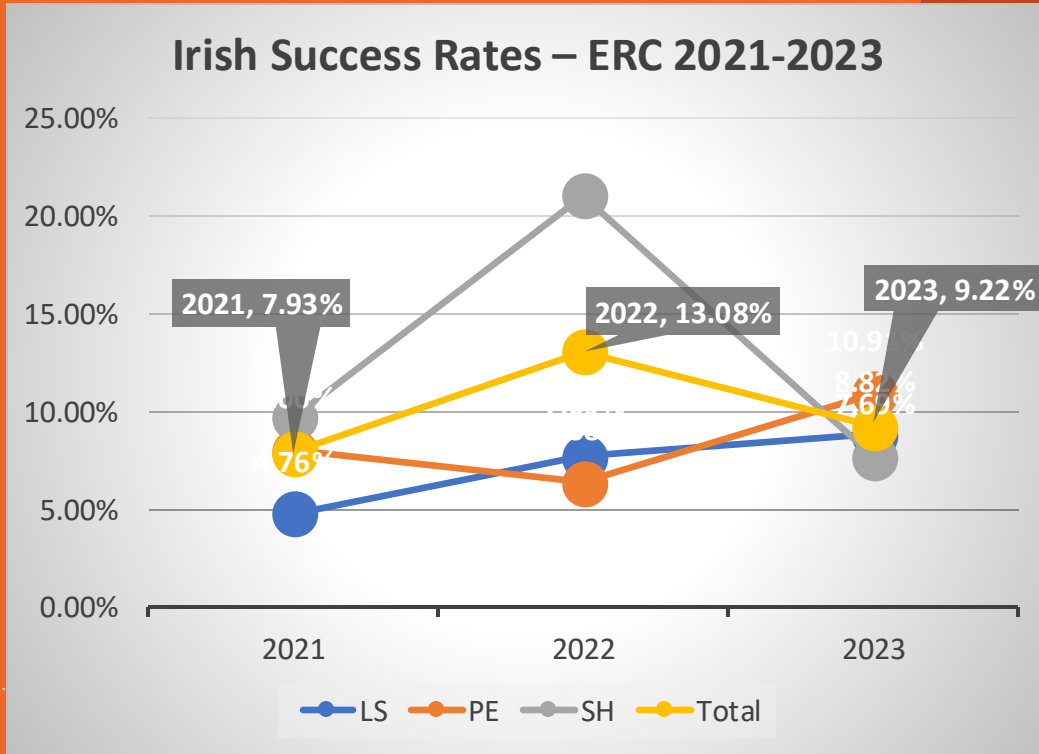
EU contribution €27,685M	Projects 16,029	Countries 35	Host institutions 1,103	Nationalities 97
<i>Funding received for the projects</i>	<i>Number of funded projects</i>	<i>Host institution countries</i>	<i>Number of host institutions</i>	<i>Number of principal investigator nationalities</i>

List of funded projects

Programme	Projec...	Acronym	Project Title	Abstract	Researcher(s)
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<https://erc.europa.eu/projects-statistics/erc-dashboard>

Success Rates and Statistics 1 (Individual Awards Only)



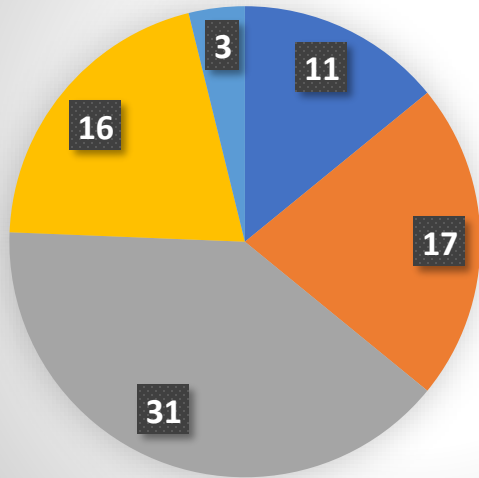
Irish Total Success
Rate: 10.17%

EU Total Success
Rate: 13.14%

UK Success Rate – 12%
(all years)

Success Rates and Statistics 2 (All Schemes)

Irish Awards Per Scheme



- Life Sciences
- Physical Science and Engineering
- Social Sciences and Humanities
- Proof of Concept
- Synergy

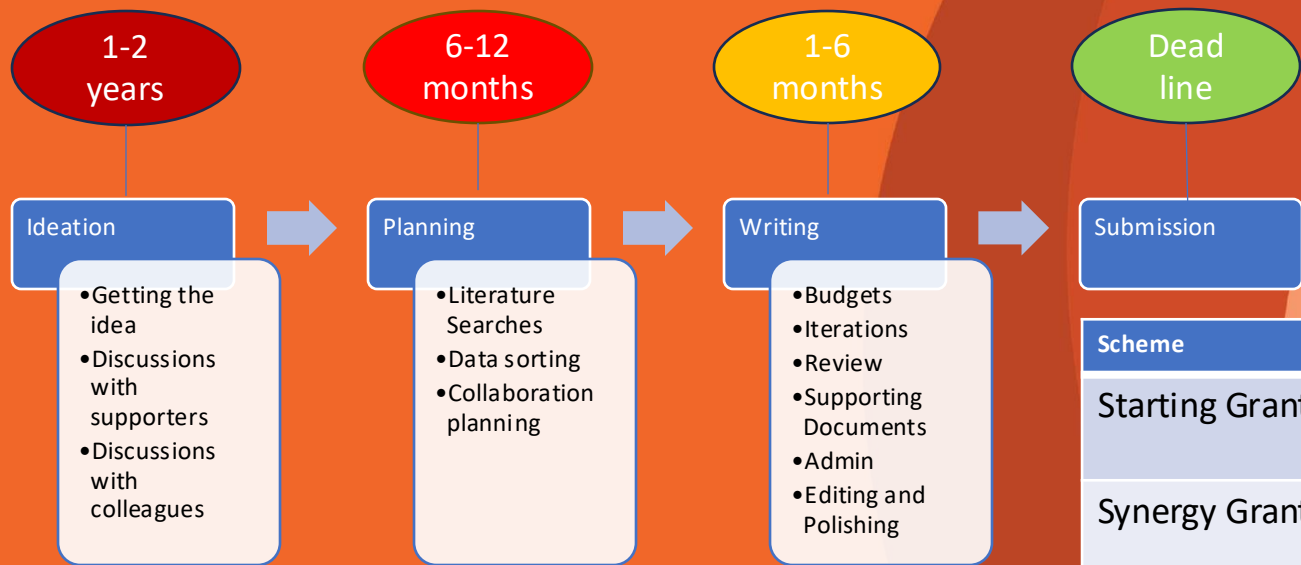
2021-2023

435+ Applications

78 Awards

€123,199,175.00

Timelines and Deadlines



Scheme	Deadline	Outcome
Starting Grant (2025)	Oct 15 th 2024	Aug 2025
Synergy Grant (2025)	Nov 6 th 2024	Oct 2025
Consolidator Grant (2025)	Jan 14 th 2025	Dec 2025
Advanced Grant (2025)	Aug 28 th 2025	June 2026

Thank **you.**

For more information about ERC and Cluster 2 contact Patrick Lansley, ERC (SSH)
and Cluster 2 National Contact Point Irish Marie Skłodowska-Curie Office, patrick.lansley@iua.ie



Eureka

Jane Watkins, Regional Lead - Europe, Innovate UK Business Connect

HORIZON EUROPE NORTHERN IRELAND ROADSHOW
24 OCTOBER 2024
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Innovate
UK



INNOVATE UK

EUREKA OPPORTUNITIES

Presented by Jane Watkins

Ben Morris

Eureka National Programme Coordinator (NPC), Innovate UK

Teresa Arumardi

Eureka Deputy NPC, Innovate UK

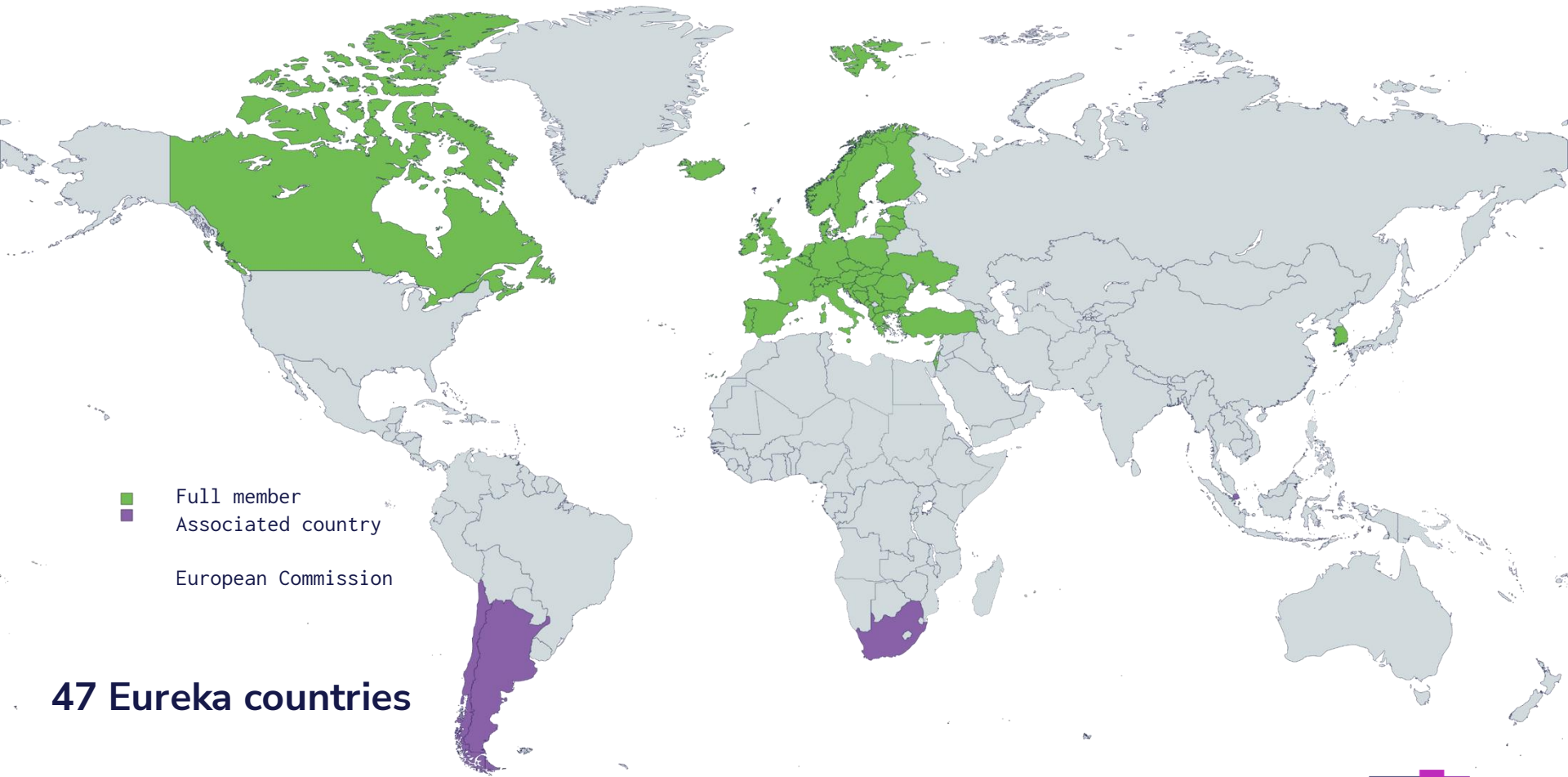
23 July 2024



 **eureka**
innovation beyond borders

A tool for international Research and Development (R&D) and innovation:

Projects between partners in any
two (or more) Eureka countries



■ Full member
■ Associated country
European Commission

47 Eureka countries

Eureka programmes

Eurostars innovative Small or Medium-sized Enterprises (SMEs) aim higher

Globalstars flexibility for international partners (non-Eureka countries)

Network projects flexibility for international partners

Clusters thematic industry-led communities

Innowwide supports research and business ventures in new markets

Investment readiness drives companies towards private investment



Eurostars

- Innovative SMEs as main project partners
- **37** countries & the European Commission
- Centralised process, decentralised funding
- Non-sector specific
- **2** deadlines per year

DEADLINE: 12 SEPT Eurostars is part of the European Partnership on Innovative SMEs. The partnership is co-funded by the European Union through Horizon Europe.



Co-funded by
the European Union

EUROPEAN PARTNERSHIP

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 Innovate
UK

37 Eurostars Countries

- 
- A world map with 37 countries highlighted in a light green color. These countries are: Austria, Bulgaria, Belgium, Canada, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, The Netherlands, Norway, Poland, Portugal, Romania, Singapore, Slovak Republic, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.
- | | | |
|---|--|--|
|  Austria |  Germany |  The Netherlands |
|  Bulgaria |  Greece |  Norway |
|  Belgium |  Hungary |  Poland |
|  Canada |  Iceland |  Portugal |
|  Croatia |  Ireland |  Romania |
|  Cyprus |  Israel |  Singapore |
|  Czech Republic |  Italy |  Slovak Republic |
|  Denmark |  Latvia |  Slovenia |
|  Estonia |  Lithuania |  South Africa |
|  Finland |  Luxembourg |  South Korea |
|  France |  Malta |  Spain |
| | |  Sweden |
| | |  Switzerland |
| | |  Turkey |
| | |  United Kingdom |

EU SME definition

Enterprise category	Headcount: annual work unit (AWU)	Annual turnover	Annual balance sheet total
Medium-sized	< 250	≤ EUR 50 million	≤ EUR 43 million
Small	< 50	≤ EUR 10 million	≤ EUR 10 million
Micro	< 10	≤ EUR 2 million	≤ EUR 2 million

Eurostars Projects must meet 7 eligibility criteria



Led by **innovative SME** from Eurostars country



At least **two Eurostars countries**, with at least one organisation from EU or Horizon Europe Associated Country



At least **two independent entities**



Budget of **SMEs** from Eurostars countries (excluding subcontracting) must be at least **50%** of total project budget



No single **participant** or **country** is responsible for more than **70%** of total project budget



Maximum duration: **36 months**



Civilian purpose

UK Eligibility

- Innovate UK will only fund SMEs, other types of organisation can participate but must self-fund.
- Innovate UK contribution is £2.5m per call.
- Grant is €360k or 60% of costs, whichever is less.
- UK subcontracting is capped at 20% of the UK partner eligible costs.
- The UK entity must have at least 12 months of trading history at point of submission deadline.
- Overheads are capped at 25% of Labour.
- Cost Guidance – Eligible costs for UK partners

A Typical Eurostars Project



3-4
participants



2-3
countries



average duration
30 months



average project cost
€1.4 million

Eurostars call for projects SEP 2024

Deadline: 12 September 2024 14:00 CEST

Apply from: 12 July 2024 **Until: 12 September 2024 14:00 CEST**

Eurostars is part of the European Partnership on Innovative SMEs. The partnership is co-funded by the European Union through Horizon Europe. Eurostars is a funding instrument that supports innovative SMEs and project partners (large companies, universities, research organisations and other types of organisations) by funding international collaborative R&D and innovation projects. By participating, organisations can access public funding for international collaborative R&D projects in all fields. To have a successful Eurostars application you must:

Define your project idea.

Collaborate internationally, sharing expertise.

Develop products, processes or services that can be easily commercialised. You can submit your R&D and innovation project application between 12 July 2024 to 12 September 2024 at 14:00 CEST (Brussels time) using our project platform (myeurekaproject.org). Your project consortium must have an innovative SME in the leading role, but it can also include other types of organisations like large companies, universities, research organisations and more.

[Apply](#)



Funding competition

Eureka collaborative R&D: Eurostars 3 Call 7

UK registered organisations can apply for a share of up to £2.5 million for collaborative research and development (CR&D) in partnership with organisations from participating Eurostars countries.

Competition opens: Friday 12 July 2024

Competition closes: Thursday 12 September 2024 11:00am

[Start new application](#)

EUREKA PAGE & APPLICATION: [HERE](#)
MATCHMAKING PLATFORM: [HERE](#)

UK NATIONAL APPLICATION & APPLICANT
BRIEFING RECORDING: [HERE](#)
DEADLINE: 12 SEP 2024



Innovate
UK



INNOVATE UK

EUREKA OPPORTUNITIES

Ben Morris

Eureka National Programme Coordinator (NPC), Innovate UK

Teresa Arumardi

Eureka Deputy NPC, Innovate UK

23 July 2024



Globalstars

- Cooperation with countries outside of Eureka network
- Past: Argentina, Brazil, Chile, India, Japan, Kenya, Nigeria, Morocco, Singapore, Taiwan.



Network projects

- Flexible
- Bilateral or multilateral calls for projects with two or more Eureka countries
- Thematic scope possible

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Call for disaster resilience, response and recovery projects


Deadline: 31 October 2024 23:59 CEST

Apply from: 13 June 2024 Until: 31 October 2024 23:59 CEST

The national funding bodies from Austria, Belgium (Flanders and Wallonia), Canada, Chile, Czech Republic, Denmark, France, Lithuania, Singapore, South Korea, Spain, Türkiye and the United Kingdom have allocated funding for organisations collaborating on international R&D projects in the field(s) of disaster resilience, response and recovery.

You can submit your R&D project application for this call for projects between 13 June 2024 and 31 October 2024.

[Apply](#)



Countries/regions with funding

 Austria	 Belgium (Flanders)
 Belgium (Wallonia)	 Canada
 Chile	 Czech Republic
 Denmark	 France
 Lithuania	 Singapore
 South Korea	 Spain
 Türkiye	 United Kingdom

Funding competition

Eureka Disaster Resilience Programme Collaborative R&D 2024

UK registered organisations can apply for a share of up to £1 million to develop technologies in the field of Disaster Resilience, Response and Recovery, in partnership with organisations from participating Eureka countries.

Competition opens: Friday 14 June 2024
Competition closes: Thursday 31 October 2024 11:00am

[Start new application](#)

EUREKA PAGE & APPLICATION: [HERE](#)
MATCHMAKING PLATFORM: [HERE](#)

UK NATIONAL APPLICATION & APPLICANT BRIEFING RECORDING: [HERE](#)
DEADLINE: 31 OCT 2024

Innowwide

European INNOvative business solutions in
WorldWIDE markets

- 60,000 euro per project
- 400 market feasibility projects
- 6 calls for projects



Co-funded by
the European Union

EUROPEAN PARTNERSHIP

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innowwide

Innowwide is funded by the European Union as part of the European Partnership on Innovative SMEs.

 Innovate
UK

Investment Readiness Programme

The investment readiness programme is part of the European Partnership on Innovative SMEs. The partnership is co-funded by the European Union through Horizon Europe.

Develop and enhance business relationships by participating in our international missions and corporate activities in 2024.

Eureka will be organising:

- International missions with opportunities for SMEs to connect with non-EU investors and key strategic partners.
- Corporate activities helping SMEs approach multinational corporate investors for business partnerships. Learn about best practices and collaborating to develop solutions to industry challenges.

You can apply if your startup or SME is based in a Eureka country.



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EUROPEAN PARTNERSHIP

A large, thick, pink circular graphic that is partially cut off on the right side, serving as a background for the Eureka logo.

Σ eureka
investment readiness





Innovate
UK



INNOVATE UK

EUREKA OPPORTUNITIES

Ben Morris

Eureka National Programme Coordinator (NPC), Innovate UK

Teresa Arumardi

Eureka Deputy NPC, Innovate UK

23 July 2024



Clusters

- **Industry-led communities** consisting of leading companies, knowledge institutes and end-user organisations
- **Strategic technology areas**
- **Market-oriented, aiming to solve economic, technological and societal challenges**

Clusters



CELTIC-NEXT

Next-generation secure communications for a trusted and sustainable digital society

EUROGIA 2030

Low-carbon energy technologies

ITEA 4

Software innovation and digital transition

SMART

Advanced manufacturing and production technologies

Xecs

Sustainable digital transformation in electronic components and systems

UK Scope & Eligibility

Your project

- UK applicants can apply for total grant of up to £750,000 (depending on Cluster) for each project.
- All types of UK registered organisations can apply for funding.
- Expected duration 12 – 36 months
- Your project must be collaborative.
- Further guidance

UK Scope & Eligibility

Funding

We have allocated up to £5,000,000 to fund innovation projects in this call.

For industrial research projects, you could get funding for your eligible project costs of:

- up to 70% if you are a small enterprise
- up to 60% if you are a medium enterprise
- up to 50% if you are a large enterprise
- UK registered research organisations in your consortium can share up to 30% of the UK total eligible project costs. If your consortium contains more than one UK research organisation, this maximum will be shared between them.

Of that 30% you could get funding for your eligible project costs of up to:

80% of full economic costs (FEC) if you are a Je-s registered institution such as an academic

EUREKA Clusters



[CELTIC-NEXT – Next Gen Comms](#)



[Eurogia 2030](#)



[Xecs](#)



[SMART](#)



ITEA 4

[ITEA 4](#)

Eureka | Home (eurekanetwork.org)

eurekanpc@iuk.ukri.org



Axial 3D

Celina Gratton

HORIZON EUROPE NORTHERN IRELAND ROADSHOW
24 OCTOBER 2024
LISBURN



AXIAL3D

FractAI
Horizon Roadshow

October 2024
Celina Gratton



About Axial3D

Medical Device Software Company

- Founded in 2013
- HQ in Northern Ireland
- 50+ staff across:
 - software development
 - machine learning
 - medical visualisation
 - QA/RA
 - sales and marketing

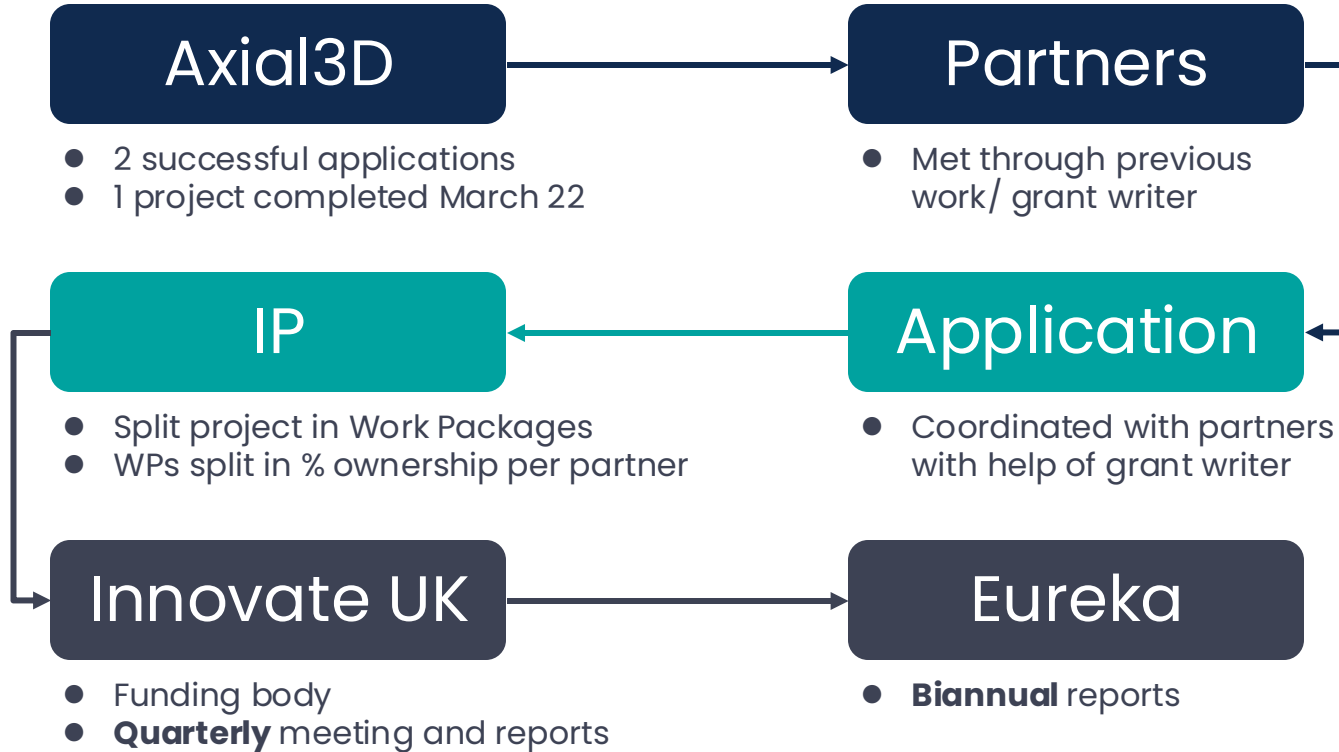




Our mission

make patient-specific
surgery routine

Eurostars Experience



 eureka


eurostars™

AXIAL3D

Eurostars Application Lessons Learnt

- Lengthy application
- Coordination with multiple companies can be tough

• Blockers with UK

→ Work with grant writer to help with the application

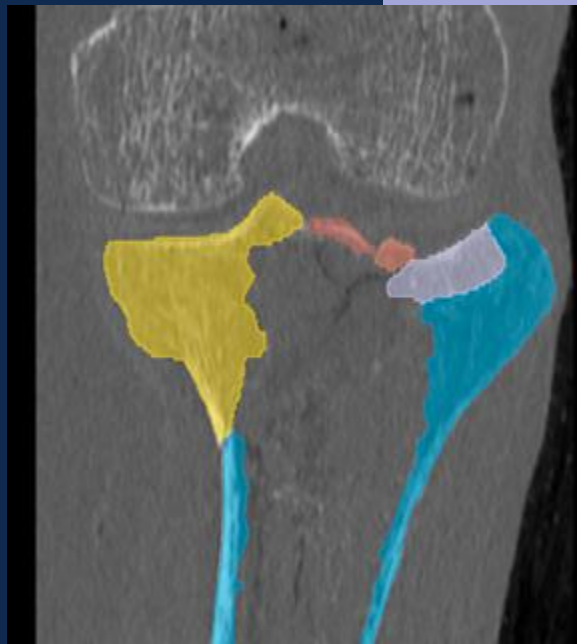
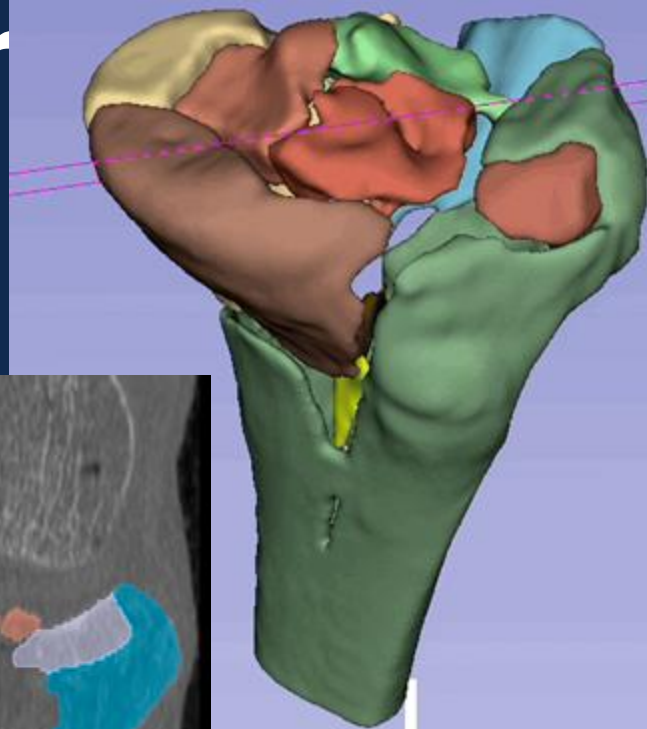
→ Working with Germany (EU

country) helped us

Eurostars Grant Project

AI-enhanced surgical planning software

- 3 year R&D Project
- Funded by Innovated UK
- Collaboration with other partners in the EU (Germany)

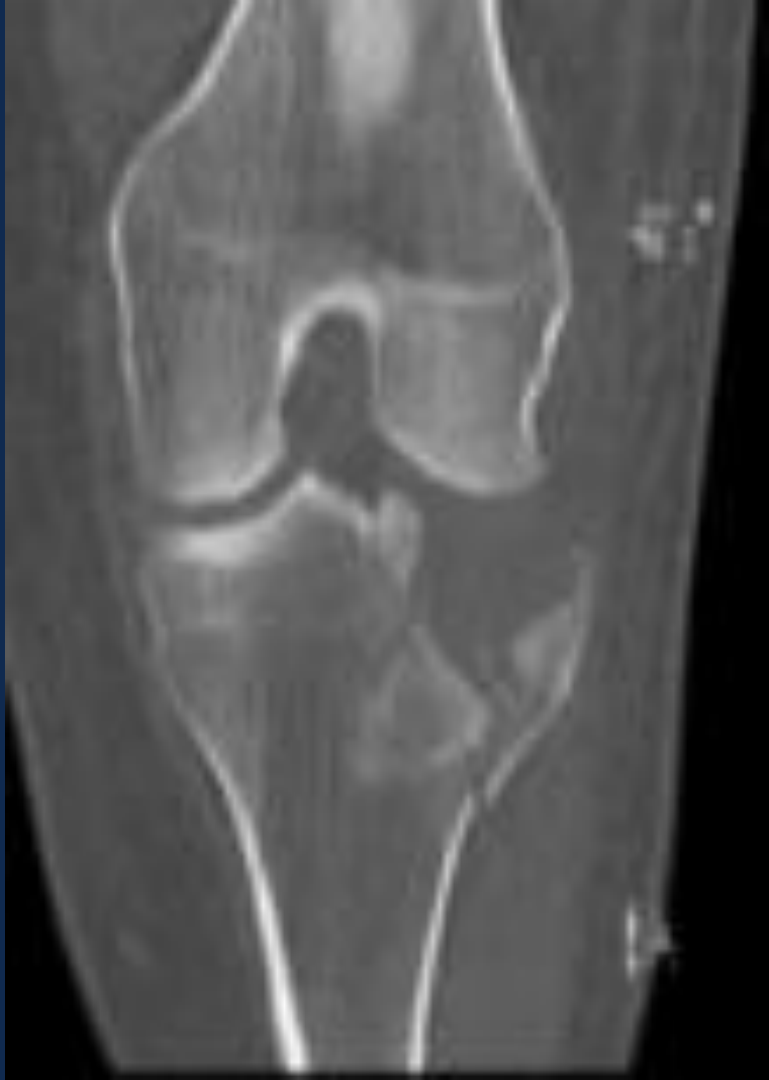


Problem

33% of diagnostic error lead to patient injury

\$3M

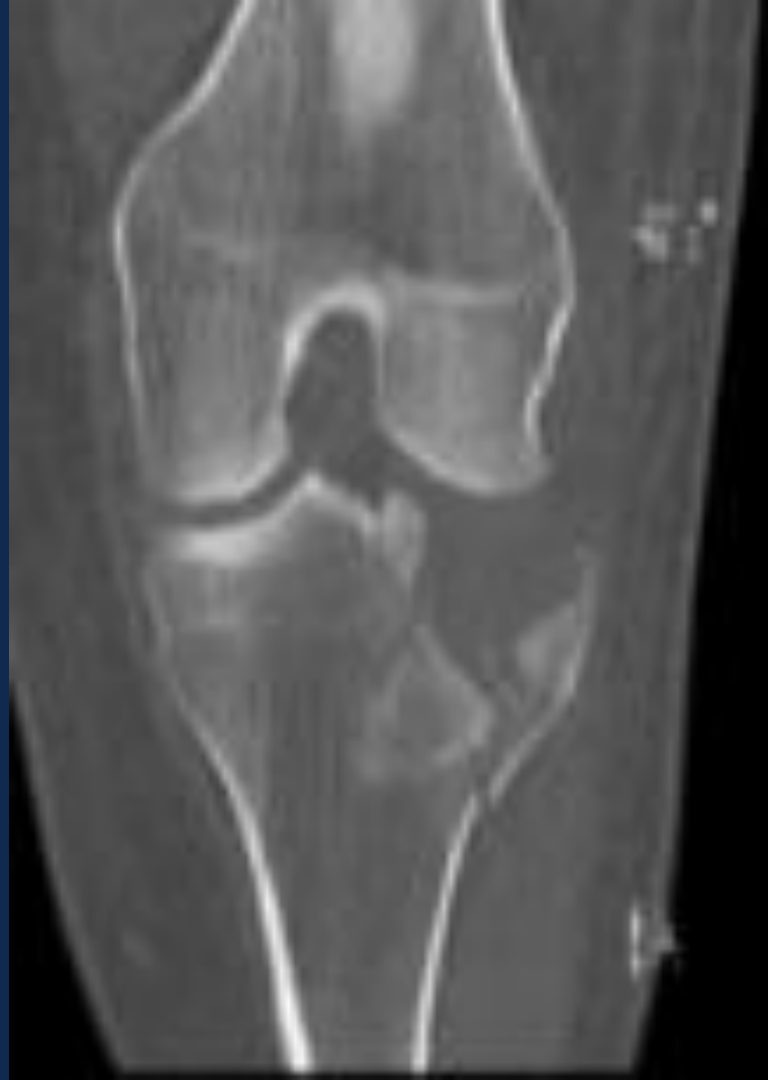
cases
mean plaintiff
malpractice
payout for
orthopedic



Rodziewicz, T.L., Houseman, B., Vaqar, S. and Hipskind, J.E. (2024). Medical error reduction and prevention. [Online] National Library of Medicine. Available at: <https://www.ncbi.nlm.nih.gov/books/NBK499956/>.
Rynecki, N.D., Coban, D., Gantz, O., Gupta, R., Ayyaswami, V., Prabhu, A.V., Ruskin, J., Lin, S.S and Beebe, K.S. (2018). Medical Malpractice in Orthopedic Surgery: A Westlaw-Based Demographic Analysis. Orthopedics, 41(5). doi:<https://doi.org/10.3928/0147-4447-20180621-06>.

Aim

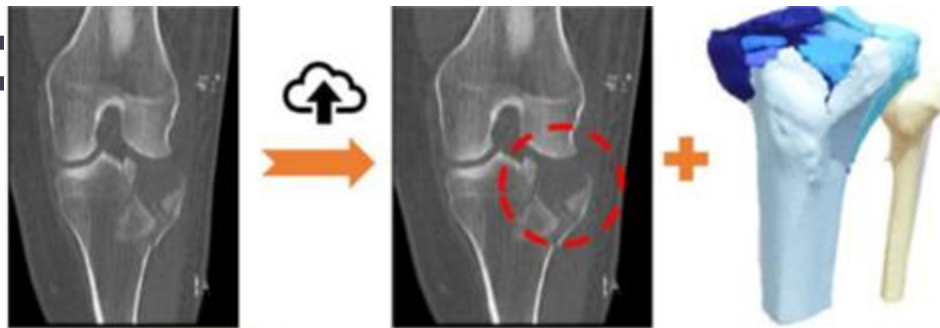
Offer a **patient-specific solution** that enables advanced diagnosis, planning, and optimised treatment of complex orthopaedic fractures



AI-enhanced surgical planning soft

1

Automated
Segmentation and
Classification of
fracture



2

Automated realignment of fractured
bone



AI-enhanced surgical planning software

3

Implant placement and surgical planning tool

4

Recommended medical videos for surgical approach

5

Development of Shape and Appearance Models

6 Technical and Clinical Validation



Project Impact

Using ML and AI,
patient-specific
surgery is scalable

 patient health
and satisfaction



fracture
misclassification



medical malpractice



corrective surgery



extensive
rehabilitation



hospital costs

Company Impact

Expanded access to
international talent

Unique contributions from each partner

Accelerated development of
patient-specific products

Best solution for medical professionals and their patients



AXIAL 3D

Thank you!



Wrap up and Closing Remarks

Ewa Bloch - Head of European Programmes, DSIT

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