

ITEA Call 2023: Innovate UK KTN Travel Grants

Belen Rebollo – Knowledge Transfer Manager,
Innovate UK KTN



Swindon, 25/07/2023



InnovateUK
KTN



Global Alliance: European Programmes

We support UK organisations in **engaging with International R&I** initiatives:

- ◆ Horizon Europe
- ◆ EUREKA
- ◆ UK-European R&I Bilateral calls

Innovate UK KTN – European Programmes Team **activities**:

- ◆ Organising consortium building activities / events in selected topics
- ◆ Offering “Travel Grants” to attend European brokerage events
- ◆ Collaborating with European initiatives: technology platforms, European working groups, etc..
- ◆ Working with our sectors teams to embed internationalization in the UK innovation networks.



We work closely with the National Contact Points (NCPs), Innovate UK EDGE and FCDO.



Innovate UK KTN exists to connect innovators with new partners and new opportunities beyond their existing thinking – accelerating ambitious ideas into real-world solutions.

Cross-Sector Expertise

Agrifood
Biotechnology
Chemistry
Creative Industries
Design
Digital
Electronics
Energy
Geospatial
Health
Industrial Maths
Infrastructure

Manufacturing
Materials
Photonics
Quantum
Robotics & AI
Security & Defence
Sensors
Space
Transport
Water



Innovate UK
KTN

European Travel Grants

Innovate UK KTN “European Travel Grants” support attendance of UK based R&D performing SMEs to specific targeted events for the purpose of increasing engagement with potential partners.

Characteristics:

- Application for each specific event gets advertised @ Innovate UK KTN website together with the respective Eureka Call Workshop.
- A maximum of £700 can be claimed as a contribution towards travel costs incurred for the purpose of attending the specific event. Only 1 representative per SME.

Current call:

- Support for ITEA Call 2023, Berlin, 12-13 September 2023
- Application form for Travel support from Innovate UK KTN <https://info.ktn-uk.org/p/2VFU-FRZ/travel-support-to-attend-itea-eureka-po>
- Deadline to apply: 2nd August 2023 (9AM BST)
- Outcome: Notification to applicants on 4th August (by 5PM BST)



European Travel Grants: Application

Travel Support now available for UK-based R&D SMEs to attend ITEA EUREKA PO Proposers' Days on 12-13 September 2023 in Berlin

How many employees does your organisation have? (full time employee equivalent)*

100+

What was your organisation turnover for 2021/2022?*

£250,001 - £500,000

How much did your organisation approximately spend on R&D in 2021/2022?*

6% - 10%

Does your company meet the EU's definition of an SME? (See http://ec.europa.eu/growth/smes/business-friendly-environment/sme-definition_en)*

- Yes
 No

Has your company participated in collaborative international project(s) in the past?*

- Yes - We have been the Coordinator in one or more international collaborative projects in topics related to the event
 Yes - We have participated as a partner in one or more collaborative projects in topics related to the event
 No - We have not yet applied for international collaborative funding
 Yes - We have participated in one or more international collaborative projects however this event relates to a different area
 No - We have previously applied for international collaborative funding but have not yet been successful

Have you previously received collaborative innovation funding from Innovate UK?*

- No, not to date
 No, we have submitted a proposal as the lead organisation but were unsuccessful
 Yes, as a partner organisation
 Yes, as a lead organisation

Please indicate your partner needs?*

- Leading a proposal submission and looking for a project partner(s)
 Looking to join a consortium as a partner

Next

Want to join consortium: Please identify the technical domains and the key application areas within the scope of the event where you seek to join a consortium.*

Want to join consortium: Please describe the expertise your organisation would bring to the consortium (Your answer should be between 100 and 250 words long and will be used as a criteria to assess your application in a competitive process.)*

Want to join consortium: What added value can your organisation bring to this project and what role, e.g. awards, patents, proto-type, etc? (Your answer should be between 100 and 250 words long and will be used as a criteria to assess your application in a competitive process.)*



European Travel Grants: T&C

Terms & Conditions:

- A maximum of £700 can be claimed as a contribution towards travel costs incurred for the purpose of attending the specific event. Only 1 representative per SME.
- Applicants awarded travel support must:
 - Register for the event themselves;
 - Book and pay for their travel (in advance of the event) and
 - Submit their “Travel claim” to the KTN contact advised
 - *Submit “Feedback Form” reporting on progress made during the event*
- Confirm that you have understood and agree with this terms & conditions and follow Innovate UK KTN “Expense Policy”

ITEA Project Outline
Preparation Days 2023

12 -13 September
Berlin

Register now!

<https://itea4.org/podays2023>



InnovateUK
KTN

Expenses & Feedback

Feedback Form

- Aspects of the event you participated in
- Your experience of the event (value/helpful to you, suggestions for future delegates)
- Most relevant people to you that you met during the event
- People you have followed up with after and opportunities
- Likelihood of you submitting a proposal/collaborating
- Submitted within 6 weeks to KTN Knowledge Transfer Manager (belen.rebollo-garcia@iuk.ktn-uk.org)

Expenses

- Submitted in the Innovate UK KTN “Expenses Form” within 2 weeks
- Sent to veronika.barankova@iuk.ktn-uk.org
- Reimbursement is done once Feedback Form received

Thank you!

Belen Rebollo-Garcia
Knowledge Transfer Manager - Innovate UK KTN
Belen.rebollo-Garcia@iuk.ktn-uk.org



Swindon, 25/07/2023



25 years of ITEA
Roadshow – UK

ITEA
Fostering international
software innovation

25 July 2023 |
Jan Jonker – ITEA Office Director

ITEA

The Eureka Cluster on software innovation and digital transition

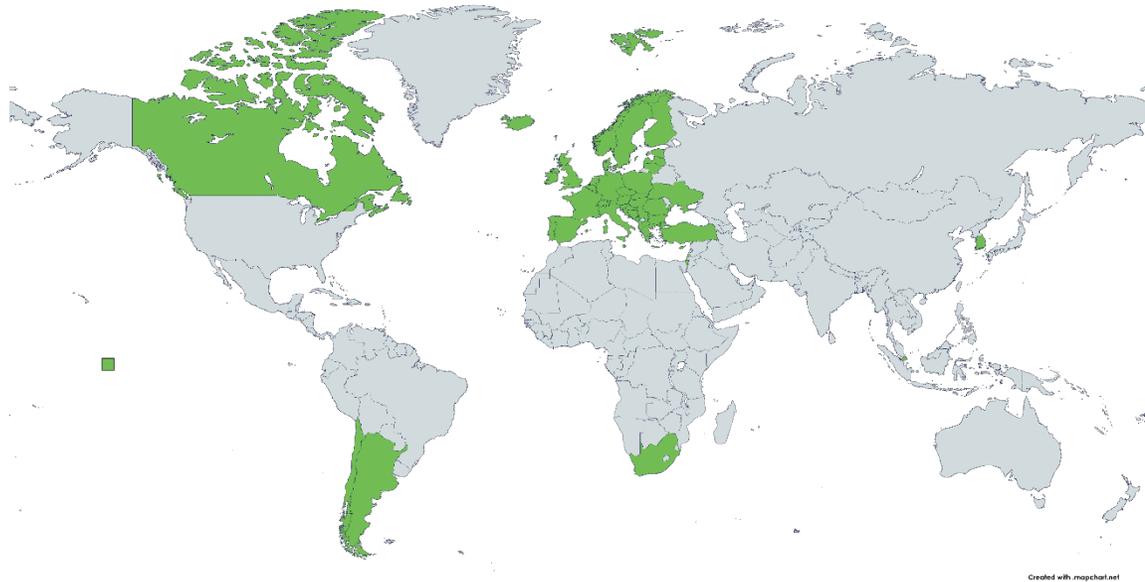
Since 1998, ITEA is the Eureka RD&I programme on software innovation and digital transition. ITEA stimulates transnational and industry-driven R&D&I in the domain of **software innovation**. ITEA enables a large, open and international community to **collaborate in funded projects** that turn innovative ideas into new businesses, jobs, economic **growth and benefits for society**.

ITEA is:

- Global and trusted cooperation in an industrial community
- Project financing through national public and private funding
- Commercialisation of research results
- Focus on high-quality process and support

The Eureka network

Eureka is the world's biggest public network for international cooperation in R&D and innovation, present in over 45 countries. Eureka Clusters are active in 38 countries.



Eureka Clusters are:

- Industry-driven thematical RD&I programmes supported by Public Authorities
- Covering the full value chain to create innovative solutions
- Helping SMEs to scale up in consortia with large industry
- Open to global cooperation
- Bottom-up
- Market-oriented

ITEA Key challenges



Smart city



Smart communities



Smart health



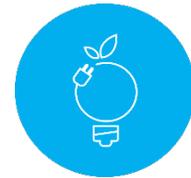
Safety and security



Smart mobility



Smart industry



Smart energy



Smart engineering

ITEA governance and main players

Trustful relationship

ITEA is an association, with industry Board members:



Some of ITEA's other main (industrial) partners:



Countries supporting ITEA



Austria



Belgium



Canada



Czech
Republic



Denmark



Finland



France



Germany



Hungary



Ireland



Israel



Luxembourg



The
Netherlands



Portugal



Singapore



Slovenia



South Korea



Spain



Sweden



Switzerland



Türkiye



United
Kingdom

ITEA facts and figures

Total number of projects

324

Total person years

35,657

ITEA (Call 1-8):

- 545 unique partners
- 228 SMEs

ITEA 2 (Call 1-8):

- 972 unique partners
- 482 SMEs

ITEA 3 (Call 1-7 + AI Call 2020):

- 867 unique partners
- 459 SMEs

ITEA 4 (Call 2021-2022 + AI Call 2021+Sustainability Call 2022):

- 506 unique partners
- 258 SMEs

Incl. Canada, South Korea,
Singapore and others



UK participation

In ITEA Call 2022 [1/2]



- **BE Faster:** BE Faster brings countries closer to net zero by creating a scalable flexibility trading platform enabling a smarter use of data and controls to reduce energy wastage and support grid supply-demand balancing. The solution defines the net-zero pathway for organisations by looking at carbon grid intensity as a signal for trading.
- **FERIDE:** FERIDE aims to provide a technologically controlled farming environment to improve the availability and absorption of water and nutrients in the soil, resulting in a considerable increase in crop production and quality while decreasing farming costs.
- **MediSpeech:** Nowadays, administrative tasks can consume up to 30% of clinicians' working hours, diverting attention from patient care and contributing to physician burnout. The MediSpeech project aims to reduce administrative waste in healthcare by creating an open digital healthcare ecosystem for automated medical reporting.

UK participation

In ITEA Call 2022 [2/2]



- **NADIR:** NADIR aims to build a natural hazard/disaster risk and assessment platform to provide advanced risk assessment products and critical intelligence information to support the mitigation and management of natural hazards/disasters using (new) satellite imaging.



- **RCFPEP:** RCFPEP aims to create a tamper-proof, real-time digitalised product carbon footprint measurement tool, covering the manufacturing processes, its first-tier suppliers' freight transportation of inbound raw materials and the transportation of outbound finished goods to customers.

ITEA Impact stream

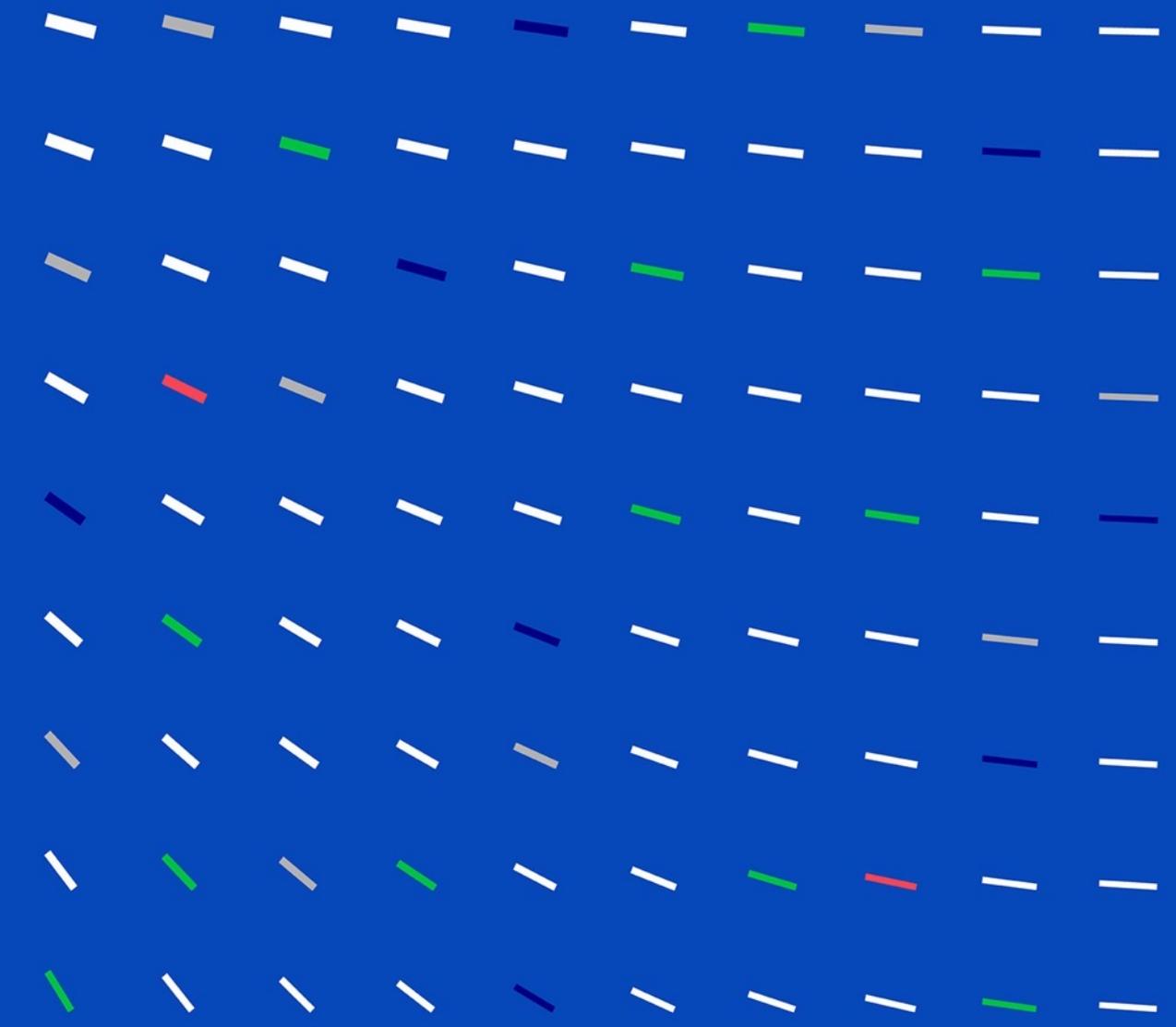
36 project impact stories online now!

Impact stream

Download full Impact stream



<https://itea4.org/impact-stream.html>



ITEA Events

ITEA Project Outline (PO) Days

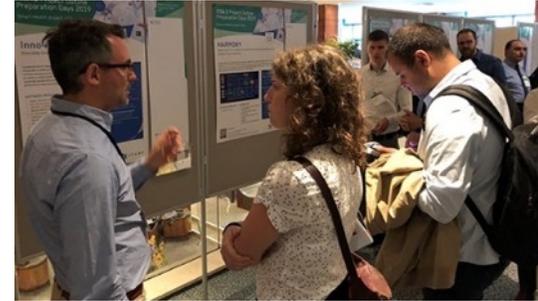
A recipe for success!

- ITEA PO Days - Yearly networking event taking place in September
 - 300+ participants, 15+ countries
 - Not only pitching and drinks, but focussing on real preparations for project outlines through active brainstorm and workgroup sessions
 - Each year 70+ ideas uploaded in project idea tool, 50+ project ideas presented as a poster and 40+ ideas pitches

Register now for the PO ITEA Days 2023

12-13 September in Berlin

<https://itea4.org/podays2023>



International customer workshops

Inventorying actual needs

- Target audience
 - About 50 participants invited around a dedicated theme:
 - international key customers and end users where the challenges are most demanding
 - European global industry players from ITEA that can provide solutions
 - innovative SMEs involved in related ITEA projects
- Day 1
 - Presentations of challenges by the customers and innovations by the big players and SMEs, dedicated site visit, networking dinner
- Day 2
 - Parallel brainstorm sessions, presentation of conclusions, networking lunch



Participate in ITEA



ITEA is the Eureka Cluster on software innovation



Yearly Call process

How to participate?

Consortium building – Project Outline Preparations Days event

Submit a **Project Outline (PO)**

- Short project overview: project goals, innovation, targeted business impact and consortium
- Project Outlines which are positively evaluated are invited for the second step

Submit a **Full Project Proposal (FPP)**

- Description of project plan, management and execution
- Approved FPPs will receive the ITEA label

Funding & Project Start-up

- Each ITEA project partner can apply for national funding in their own country
- The label is endorsed by all Eureka Member Countries
- Project start-up after national approvals

Resources

- ITEA Office offers great deal of information on its website, including:
 - Call dates and processes
 - Events and webinars
 - Case studies, success and impact stories
 - Industry trends and publications
- Public: <https://itea4.org/>
- Community: <https://itea4.org/community>
 - Tools for consortium development + project management



ITEA4

<https://itea4.org>

ITEA is the Eureka Cluster on software innovation

Σ eureka

<https://www.eurekanetwork.org>

Thank you for your
attention!

25 years of ITEA
webinar – UK

Centre for Factories of the Future Ltd

25 July 2023
Dr Lakhvir Singh, Managing Director



ITEA is the Eureka Cluster on software innovation



Centre for Factories of the Future Ltd

- *C4FF has been at the cutting-edge of innovation and technological advancement since its inception in 1984. Focussing centrally on the research and development for industry and academia, C4FF has become a world-leader in several business and industrial sectors. Its key areas of expertise include Business Intelligence, Maritime, Automation and Hybrid Vehicles.*
- Active in ITEA since 2017 and Involved in 5 ITEA projects:
 - OPTIMUM (completed): <https://itea4.org/project/optimum.html>
 - DayTiMe (completed): <https://itea4.org/project/daytime.html>
 - ENTA (running): <https://itea4.org/project/enta.html>
 - RCFPEP (labelled): <https://itea4.org/project/rcfpep.html>
 - FERIDE (labelled): <https://itea4.org/project/feride.html>

Centre for Factories of the Future Ltd

Some examples of successful ITEA projects

OPTIMUM (Nov 2017 – June 2021)

OPTIMUM project enables machines of different kinds and from different manufacturers to communicate with each other and their operators, improving the worker's and equipment's safety.



Business impact created/expected out of ITEA projects

- OPTIMUM: 18% efficiency increase was achieved during a demonstrator with a low-complex product, on a 24m production floor in the research factory. Depending on the length of a real production hall and with more complex production processes, there is an even a higher effect expected!
- OPTIMUM: Already 3 out of 8 patent ideas from OPTIMUM are nationally approved and the remaining 5 have varying levels of maturity.

Societal impact created/expected out of ITEA projects

- Economic Growth and Job Creation
- Improved Efficiency and Productivity
- Advancement of Technology

Centre for Factories of the Future Ltd

Some examples of successful ITEA projects

DayTiMe (Sept 2018 – March 2022)

By determining the condition of in-service equipment, predictive maintenance allows problems to be fixed before they occur. The ITEA project DayTiMe has used digital twinning to extend this into various domains.



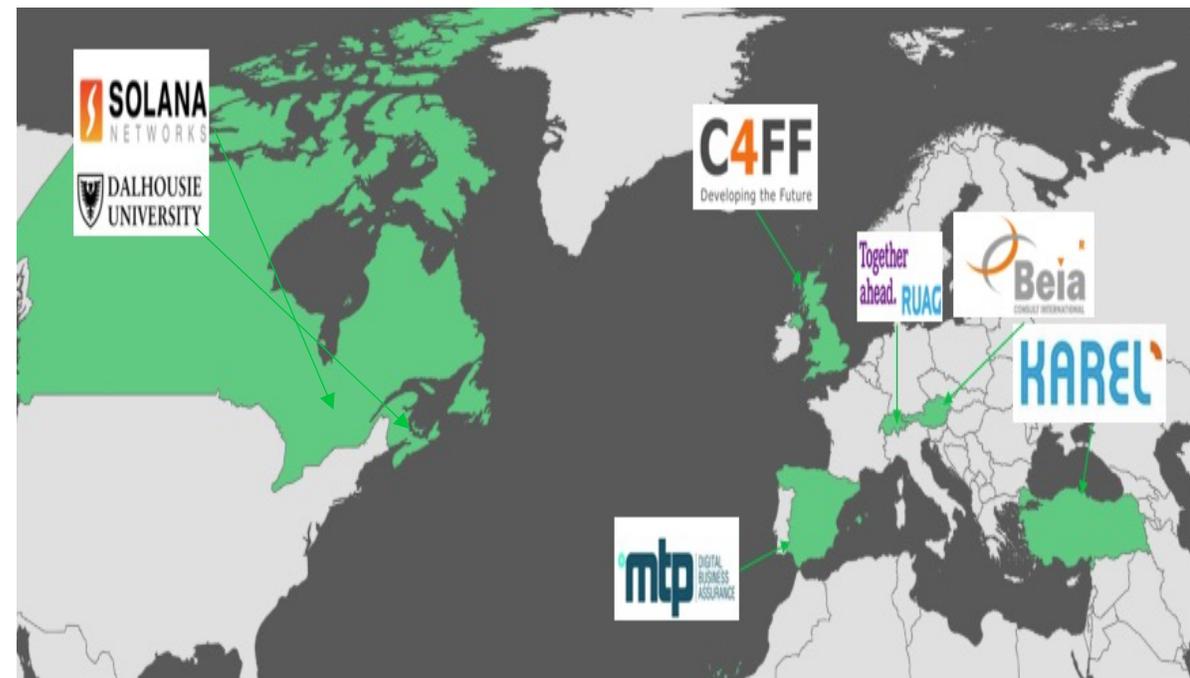
Centre for Factories of the Future Ltd

Some examples of current ITEA projects

ENTA (Oct 2021 - Mar 2025)

The ENTA project will deliver an encrypted traffic analysis platform for cyber security. The platform supports a number of building blocks necessary for any ML/DL based solutions.

- Two use cases will be demonstrated:
 - Encrypted network traffic classification
 - Rouge IoT device identification



Motivations

The lack of visibility into encrypted traffic impacts adversely Cyber security, Operations and Law enforcement in the following exemplary manners:

- Provide encrypted traffic visibility without infringing into traffic content privacy by not inspecting traffic payload
- **Security Operations Centres** – unable to detect malware, data exfiltration using encrypted channels, and attack surface formed by rogue IoTs
- **IT departments** – unable to enforce security and management policy such as quality of service
- **Law Enforcement Agencies** – difficult to perform forensics and illicit data handling activities
- **Router/Switch vendors** – unable to differentiate traffic types or applications to support Class of Services
- **Firewall vendors** – next generation firewalls need to monitor and filter traffic classes
- **Military Operations** – Network situational awareness suffers due to limited application awareness

Solution

Provide encrypted traffic visibility without infringing into traffic content privacy by not inspecting traffic payload

- Based on temporal/spatial characteristics of network traffic
 - Network application security (application classification and in-app activity identification)
 - IoT devices security (IoT devices discovery, IoT devices anomaly detection, Rogue IoT devices identification)
- Develop ML/DL-based solution development/deployment platform

Benefits of ENTA

- Provide encrypted traffic visibility without infringing into traffic content privacy by not inspecting traffic payload.
- Leading commercial DPI-based network application classification solutions (with F1 score ranging from 35% to 79%) do not perform well compared to AI-based classification solutions (with F1 score ranging from 95% to 99%).
- Identify network traffic to enable authorities to make not only timely decision but also a rightful (managerial or legal) one.
- Be fully aware of any anomalous activities transpiring in the network – being able to pre-emptively identify rogue IoT devices will ensure secure IoT network operation.
- Support feature processing, model development, and model deployment with the use of ENTA software development platform.

Centre for Factories of the Future Ltd

Unique aspects/benefits of the ITEA Programme

- Funding Opportunities
- Access to a Collaborative Network
- International Visibility and Reputation
- Market Validation and Early Adoption
- Knowledge Exchange and Best Practices
- Standardization and Interoperability

- Familiarize Yourself with the Programme (ITEA PO Preparation Days 2023, 12-13 September)
- Identify Relevant Research Topics
- Seek Collaboration Opportunities
- Formulate a Strong Project Proposal
- Understand Funding Requirements
- Engage in Project Management
- Engage with the ITEA Community

Contact details

- **Dr Lakhvir Singh**

Centre for Factories of the Future Ltd

<https://www.c4ff.co.uk/>
lakhvir.singh@c4ff.co.uk

<https://www.linkedin.com/in/singhlakhvir/>

+44 (0) 1926 802000





Innovate
UK

EUREKA – ITEA 4 UK Scope & Eligibility



UK Scope & Eligibility

Innovate UK is a member country of the Eureka network, the world's largest public network for international cooperation in R&D&I, present in over 45 countries.

Innovate UK has always been an active member of Eureka and we see participation in the funding streams, that Eureka provides, as a valuable tool to help UK organisations scale up their approach to international collaboration.

The theme of Global Opportunities is one of our key themes set out in our [Plan for Action](#) and is all about inspiring, involving and investing. Our plan also ties in with the UK's [Innovation Strategy](#) as set out by the Department of Business, Energy and Industrial Strategy

UK Scope & Eligibility

Your project

- UK applicants can apply for total grant of up to £600,000 for each project.
- All types of UK registered organisations can apply for funding.
- Your project can:
 - Earliest start by 1 July 2023
 - Expected duration 12 – 36 months
 - Your project must be collaborative.
- If your project's duration falls outside of our eligibility criteria, you must provide justification by email to support@innovateuk.ukri.org at least 10 working days before the competition closes. We will decide whether to approve your request.
- [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

UK engagement in EUREKA



Department for
Science, Innovation
& Technology

Ben Morris
Eureka Programme Manager
ben.morris@iuk.ukri.org