is the EUREKA ECP* Cluster for next-generation communications for a secured, trusted, and sustainable digital society.

*Eureka Clusters Program, launched on 17/6/2021
Outline

✓ CELTIC-NEXT Presentation
✓ CELTIC-NEXT Scope
✓ CELTIC-NEXT Benefits
✓ CELTIC-NEXT Management
✓ CELTIC-NEXT Strategic positioning
CEL蒂C-NEXT is...

- **The ICT Cluster** under the umbrella of EUREKA
- Focusing on **Next-Generation Communications for the Digital Society**
- A flexible and agile community of over 1150 private and public organisations, among prominent industry players, small & medium-sized enterprises and academic/research institutions
- Organising regular calls for projects, twice a year, in Spring and Autumn; and larger Flagship Calls
- Financed through public and private funding through transnational RD&I cooperation
- Open to any organisation willing to contribute to the industry-driven European and beyond ICT research programme
What CELTIC-NEXT does...

CELTIC-NEXT manages an international Quality Label that enables international consortia to apply more successfully to National Funding schemes (mostly match-funding):

- CELTIC Bottom-up calls
- CELTIC Flagship Calls
- EUREKA ECP Joint Calls
Celtic-Next Calls and Projects Timeline

From CALL OPENING to PROPOSAL SUBMISSION:
- Call Opening
- Eureka Project Portal account creation
- Project Idea Preparation
- Proposer’s Day Idea Pitch
- First contact with Public Authorities
- Consortium Building Session

From LABEL DECISION to PROJECT KICK-OFF:
- Full Celtic Project Proposal (CPP) submission
- Project Labelling
- Full National Applications Processed
- First PCR delivery
- Corporation agreement
- Project Kick-off

From RUNNING PROJECT to PROJECT END:
- Project Running
- Every 3 months impact reporting
- Mid-Term Review
- Final Term Report
- Project End

https://www.celticnext.eu/call-information/
CEL蒂C-NEXT Label decision

- Full Proposal Submission by proposers (one stage process)
- Evaluation by: Industry Experts and Public Authorities
- Label Decision: Public Authorities and CELTIC Core Group

Full Project Submission

Evaluation by:
1. Industry Experts
2. Public Authorities

Time line: 6 weeks in total
CELTIC-NEXT scope
The mission of CELTIC-NEXT for the next 4 years is to:
➢ Foster our Eureka collaborative RD&I program for the ICT community
➢ Accelerate the deployment and take up of advanced ICT services
➢ Employing the new network concepts of 5G and leading to the ownership and implementation of 6G in Eureka countries

It is crucial to consolidate the position of:
➢ Eurekan manufacturers and service providers
➢ With a high degree of Eurekan sovereignty

A strong ambition of CELTIC-NEXT is to:
➢ Assist Eurekan National Authorities, Eurekan Industry, and Eurekan Societies
➢ Make them access to societal benefits, competitive advantages, commercial returns of being at the forefront of the new digital society
**Societal & Environmental Excellence**

- Investigate where advanced communications can reduce carbon footprints for many vertical sectors.
- Assist Eureka Nations and Industry to access the societal benefits & returns of being at the forefront of the new digital society.
- Consolidate the Eureka Nations Sovereignty in ICT technologies and services, thus, other critical infrastructures relying on ICT infrastructures, like the Energy Grid...

**Economical Excellence**

- Consolidate the position of Eurekan ICT Manufacturers and Service Providers, within Eureka Countries and on the Global Market
- Bring all Eureka Communities to consider the issues in a holistic way considering the “end-to-end” perspective of the new communications

**Technical Excellence**

- Accelerate the deployment and take up of new advanced end-to-end ICT services, employing the new network concepts of 5G and leading to the implementation of 6G for & in Eureka countries.
- Actively facilitate the adoption of those ICT technologies by all targeted Verticals into their communities, business models and processes
CELTIC-NEXT benefits
Assets of Celtic

- **Bottom-up**
  Proposers are free to define their project proposal according to their own research interests

- **Close to the market**
  So far projects have led to more than 1500 new or improved products and services

- **High Success Rate**
  High-quality proposals have a good chance of receiving funding. Average success rate 60%

- **Flexibility**
  Project focus can be adjusted to new technological developments in the field
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— CELTIC leverages on its continuous Eureka Clusters Success Story of over 18 years and 1.2 Bio€ R&D investment, trusted by the Industry and Public Authorities

- **163** PERFORMED PROJECTS
- **1216** EXPECTED BUDGET (M€)
- **11571** EXPECTED EFFORT (PY)
- **1156** COMPANIES & INSTITUTIONS
- **41** COUNTRIES
- **650** PATENTS DIRECTLY GENERATED

- **50** % OF SME
- **1500** PRODUCTS & SERVICES ON THE MARKET
- **1340** PROTOTYPES TRIALS
- **1480** PHDs & MScs
- **4600** SCIENTIFIC PUBLICATIONS
Opportunities to collaborate globally

Europe
Canada
South-Korea
South-Africa
Singapore

And potentially more countries in the future

https://www.celticnext.eu/national-public-contacts-funding-schemes/
Celtic-Next is the solution for consortia who want to:

- Perform collaborative join RD&I consortia and projects within Europe and beyond
- Immerse yourself into a rich ecosystem by growing and collaborating beyond borders
- Interconnect with SMEs and large industries in 45 countries
- Foster and generate collaborative innovation by leading or being part of an industry-led project
- Stimulate disruptive and sustainable ideas
- Enrich your collaborative project via our Brokerage Tool
- Get professional coaching and mentoring before and during your project
- Get public funding support simultaneously in several countries
- Reach a high chance of getting your project funded
- Have low administrative overhead and a flexible framework
- Get high exploitation potential and business impact
- Boost your competitiveness and accelerate your growth
- Access new markets in a shortened time
Available Tools provided by CELTIC to labelled projects

CELTIC-NEXT also provides a number of additional services for registered members of CELTIC domains and, in particular, for all project domains. The offered tools are part of the tool-set provided by Eurescom GmbH. **EuresTools® is a modular suite of Cloud-based project management tools.** The tools have been specifically designed to meet the needs of Horizon 2020 projects and European R&D projects in general.

Those **services and tools are free of charge** as included in the CELTIC fee:

- Reporter
- Conferencing
- Workspace
- Website
- Tracker
- Mailing List

Note: to access detailed information about the tools and services a domain access password is required.

[https://www.celticnext.eu/project-support-tools/](https://www.celticnext.eu/project-support-tools/)
Types of Dissemination Activities

- CELTIC website: [www.celticnext.eu](http://www.celticnext.eu)
- Project website is required
- Project Twitter account should follow @CelticNext
  Twitter account and vice versa
- CELTIC-NEXT LinkedIn: tiny.cc/celtic
- Interviews
- CELTIC Brochure
- CELTIC Project Leaflets
- CELTIC News
- Technical newspapers
- Conference papers
- Standardisation activities
Overview of Celtic Projects

You can search for e.g. Acronym, Year, Call...

<table>
<thead>
<tr>
<th>ACRONYM</th>
<th>TITLE</th>
<th>STATUS</th>
<th>CALL</th>
<th>LEAFLET</th>
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<tbody>
<tr>
<td>CANOPY</td>
<td>Cognitive and Automated Network Operations for Present and Beyond</td>
<td>Set-up</td>
<td>2021</td>
<td></td>
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<tr>
<td>6GSKY</td>
<td>6G for Connected Sky</td>
<td>Running</td>
<td>2021</td>
<td>6GSKY leaflet</td>
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<td>AiCom4Health</td>
<td>AI-Powered Communication for Health Crisis Management</td>
<td>Running</td>
<td>2021</td>
<td></td>
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<td>CAMIR</td>
<td>General Architecture for a Multilingual Information Retrieval system</td>
<td>Set-up</td>
<td>2021</td>
<td></td>
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<td>COA-CFD</td>
<td>Cloud-based Online Access to Computational Fluid Dynamic Simulations</td>
<td>Running</td>
<td>2021</td>
<td></td>
</tr>
<tr>
<td>F4TECH</td>
<td>Federated AI Platform for Industrial Technologies</td>
<td>Running</td>
<td>2021</td>
<td>F4TECH leaflet</td>
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<td>MASSLORA</td>
<td>Massive IoT over High Density LoRaWan Networks</td>
<td>Set-up</td>
<td>2021</td>
<td></td>
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<td>USWA</td>
<td>Ultra Scalable Wireless Access</td>
<td>Set-up</td>
<td>2021</td>
<td></td>
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<td>AIROMARSH</td>
<td>AI and robotics for quality and risk management processes in industrial harsh environments and pandemic areas</td>
<td>Set-up</td>
<td>2020</td>
<td>AIROMARSH leaflet</td>
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<td>ENTRY100GHz</td>
<td>Energy-Efficient Radio Systems at 100 GHz and beyond; Antennas, Transceivers and Waveforms</td>
<td>Running</td>
<td>2020</td>
<td>ENTRY100GHz leaflet</td>
</tr>
</tbody>
</table>
Support to organize kickoffs, reviews...
Please have a look at our Newsletter

https://www.celticnext.eu/newsletter/

and register for free subscription

https://www.celticnext.eu/news-subscription/

www.celticnext.eu
CELTIC-NEXT management
Core Group Organisation

Management Team

Chairperson:
David Kennedy, EURESCOM

Vice-Chair:
Riza Durucasugil, NETAS

Vice-Chair:
To be confirmed, CG Member

CELTIC Director
Xavier Priem

CELTIC OFFICE

Office admin support team
Technical IT support team
Programme support team
PR & Marketing support team
Finance support team

National Authorities
CELTIC Authorities Committee (CELTAC)

Industry
20 CELTIC-NEXT Core Group (CG)
Celtic Office Structure

- Planning of corporate communication measures
- Relationship maintaining of Public Relations
- Representation of CELTIC-NEXT on Eureka level

**Director**
Xavier Priem

**Programme Co-Ordinator(s)**
- Monitoring of project progress
- Support for projects
- Coordination with all PAs

**Operational support**
- Web-Administration-Projects
  - Accounting and administration support
  - Proposal registration
  - Website management

**Manager IT Services**
Klaas-Pieter Vlieg
- IT Security and Support

**Public Relations Manager**
Pooja Mohnani
- Planning of corporate communication measures
- Relationship maintaining of Public Relations
- Representation of CELTIC-NEXT on Eureka level

**Business Development Trainee**
Audrey Bienvenu
- Business development
- Projects and team support

**Web-Administration Projects**
Ellen Tallas
Luitgard Hauer

**Director**
Xavier Priem

**Programme Co-Ordinator(s)**
Xavier Priem (acting)
Christiane Reinsch (full)

**Manager IT Services**
Klaas-Pieter Vlieg

**Public Relations Manager**
Pooja Mohnani
CELTIC-NEXT

strategic positioning
EUREKA-CELTIC-ESA
MoI Signature Event
November 2021 – Porto

Also announced to the Ministerial Event the week before.
Memorandum of Understanding with 6G-IA signed

On 4th April 2022, Eureka Cluster CELTIC-NEXT and the 6G Smart Networks and Services Industry Association (6G-IA) signed a Memorandum of Understanding (MoU), which aims at establishing synergies and complementary activities in collaborative ICT research. The MoU will help foster economic growth and jobs through coordinated R&D activities and the commercial exploitation of generated results. The collaboration aims to leverage the complementarity of 6G-IA and CELTIC-NEXT and build on synergies to maximise the return on investment and to support achieving the UN Sustainable Development Goals.

ICT has become more than ever, a pillar of sovereignty and resiliency in the rapidly changing social, political and economic environment of today and its regional battlegrounds. The Russian war against Ukraine as well as the measures against the COVID-19 pandemic have shown how critical it is to count on both terrestrial and non-terrestrial ICT services, as together they constitute one of the critical infrastructures of a country, especially considering the digitalisation of the society and the vertical industries.

Therefore, it is mandatory to increase and leverage to its maximum the European and allied countries’ funding to reach a critical mass of R&D&I and a faster time-to-market for the European countries and their allied ICT industry.

This Memorandum of Understanding provides the platform for leveraging on each signatory’s strengths and cooperation, to support sovereignty and resiliency for Europe and allied countries.

The purpose of this MoU is to set out a simple framework where the signatories can identify the complementary nature of their respective objectives and to identify and implement shared activities that benefit both initiatives and contribute to the achievement of their goals.

The signatories aim to leverage the diversity of 6G-IA and CELTIC-NEXT as well as the fact that their projects are somewhat sequential in terms of their Technology Readiness Levels (TRLs), to maximise the return on the respective investments and increase the impact on the Sustainable Development Goals.

The signatories will focus on encouraging cross-programme discussions and workshops on potential synergies and solutions, with a view to stimulating a pipeline of new projects for both initiatives and sharing reciprocal contributions to each other’s Strategic Research and Innovation Agenda (SRIA) documents.

The focus of the cooperation is to stimulate the respective communities to consider the issues in a holistic way considering the “end-to-end” perspective of the new communications services being enabled by 5G and 6G technologies, as well as developing an understanding of the economic, environmental, and societal benefits.

How the MoU will be implemented

To support the achievement of their common objectives, the signatories intend to:

- Create awareness and promote opportunities for collaboration within and across the respective communities
- Consult mutually on their SRAs
- Collaborate on the organisation and execution of activities with a view to reaching the common objectives identified
- Participate in and support suitable events organised by the other signatory
- Plan and manage joint activities in areas of common interest in line with the signatories’ respective legal frameworks

The signatories are encouraged to:

- Leverage their relevant resources and expertise necessary to ensure the success of the common objectives
- Regularly review the effectiveness of this collaboration, with reference to the priorities agreed

Conclusion

This MoU is the second of a series of new collaborations for CELTIC-NEXT. This fulfils the objectives set by CELTIC-NEXT’s Core Group to develop CELTIC-NEXT’s support to and impact for the ICT community by enriching its SRIA with new verticals and communities. The 6G-IA community is also eager to collaborate more with the CELTIC ICT community. This MoU offers the perfect playground for both communities to meet and work together on strategic topics and projects.
MANY THANKS FOR YOUR ATTENTION.

Xavier PRIEM
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If you have any questions please do not hesitate!