WELCOME
CELTIC Online Proposers Day

23rd February 2021

Sessions will start at 9 CET

www.celticnext.eu

@Celticnext
#CelticPropDay
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 9:00 – 9:25 | Welcome and Introduction to CELTIC-NEXT  
Mr Jani Lehmusvuori, CELTIC Vice-Chair, Nokia, Finland |
| 9:25 – 9:45 | Keynote: "How to recover the economy after covid-19 – the role of 5G/6G",  
Mr Pedro Mier, The President of AMETIC, Spain |
| 9:45 – 10:15 | How to submit a Proposal to the CELTIC-NEXT Spring Call,  
Mr Peter Herrmann CELTIC Office Director |
| 10:15 – 10:40 | Announcement of Joint InterCluster Call on AI  
Mr Xavier Priem, CELTIC Office |
| 10:40 – 10:50 | Brokerage Tool, Mr Peter Herrmann CELTIC Office Director |
| 10:50 – 11:00 | Coffee Break |
| 11:00 – 12:00 | CELTIC-NEXT project framework funding scheme presented by PAs from Spain and other participating Countries  
Moderator: Mrs Christiane Reinsch, CELTIC Office  
Funding situation and research focus areas in Spain  
Mrs Juana Sanchez, CDTI  
Sweden  
Mrs Sanja Sain-Strömborg, Vinnova  
South Africa  
Mr Toto Matshwedu and Ms Vinny Pillay, DST  
Turkey  
Mr Umut Ego, TUBITAK  
Luxembourg  
Mr Alexander Link, Luxinnovation  
Other countries to be confirmed |
| 12:00 – 13:00 | Panel Business Impacts of CELTIC Projects  
Moderator: Riza Durucusagil, CELTIC Vice-Chair, NETAS, Turkey  
VIRTUOSE, Mr Jose Javier Garcia Aranda, Nokia, Spain  
SOOGREEN, Mr Dominique Bodère, Orange, France  
CyberWI, Mr Harold Linke, HITEC, Luxembourg  
ASUA, Mr Serkan Garel, Netcad, Turkey |
| 13:00 – 14:00 | Lunch |
| 14:00 – 15:30 | CELTIC-NEXT Proposal Presentations – Potential proposers present their ideas  
Moderator: Christiane Reinsch, CELTIC Programme Coordinator  
- Short information what the proposal is about (vision, motivation, research domains, impact, planned schedule)  
- Expertise of partners, proposers are looking for  
- Contact information |
| 15:30 – 15:40 | Consortium Building Sessions Schedule Announcement |
Introduction & Welcome

Mr. Jari Lehmusvuori

CELTIC Vice-Chair
Nokia, Finland
CELTIC-NEXT

The flexible industry-driven programme for innovation in Communications technology and its applications

CELTIC Online Proposers Day
23rd February 2021

Jari Lehmusvuori, Nokia
CELTIC-NEXT Vice-Chair
CELTIC-NEXT is...

- **Public Private Partnership** with Eureka Countries and some regions

- **Open** to any organization willing to contribute to industry-driven ICT research and innovation collaborative projects

- **1000 private and public organisations:**
  - large industry players
  - small & medium-sized enterprises (40% of programme participation)
  - academic/research institutions

- **Several Calls per year,** including Inter-Cluster Calls with other clusters

www.celticnext.eu
Benefits 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.

**Key performance indicators:**

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>New or improved products</td>
<td>1500</td>
</tr>
<tr>
<td>Number of directly generated patents</td>
<td>650</td>
</tr>
<tr>
<td>Prototypes/Field Trials</td>
<td>1340</td>
</tr>
<tr>
<td>Contributions to standards</td>
<td>2140</td>
</tr>
<tr>
<td>Journal publications/Conference publ.</td>
<td>4600</td>
</tr>
<tr>
<td>PhD and Mater thesis</td>
<td>1480</td>
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**Over 1.2 Billion Euro**

Invested in R&D in total since existence
Organisation

National Authorities
CELTIC Authorities Committee

Industry
18 CELTIC-NEXT
Core Group

Management Team

Chairperson:
Valérie Blavette, Orange

Vice-Chair:
Jari Lehmusvuori, Nokia

Vice-Chair:
Riza Durucasugil, NETAS

CELTIC Office Director
Peter Herrmann

CELTIC OFFICE

Office admin support team
Technical IT support team
Programme support team
PR & Marketing support team
Finance support team
CELTIC-NEXT in 2021

2 calls in 2021

Next CELTIC Calls & AI-NET Flagship
- CELTIC Spring Call open until 12th of April
- CELTIC Autumn Call
- Eureka Clusters AI Call (deadline 28th June)
- AI-NET Flagship on automation of telecom networks has started

CELTIC Proposers Days and Events
- CELTIC Online Proposers Day, 23rd of February
- 2nd AI call Brokerage event (April)
- Global Innovation Summit (GIS) in May

2nd Thematic Call on AI
- Active lead role in the Eureka Clusters 2nd AI Call
- Preparing AI Call Portal and Call Submission Tool

11 projects labelled in 2020
~3-10 M€/project

Project Status
- Running: 19
- Set-Up: 16
- Finished: 134
The evolution of ICT services will be achieved via a partnership model where the vertical sectors collaborate in determining their ICT solutions.

Thus CELTIC-NEXT puts emphasis on Core technologies, Applications and Services serving Vertical sectors:

- content (video, gaming),
- e-health,
- smart industry/ manufacturing
- smart agriculture,
- smart energy
- smart mobility (including connected cars)
- smart cities
- e-commerce, fintech, . . .

https://www.celticnext.eu/celtic-next-scope-and-research
CELTIC-NEXT Scope and Vision

Vision

- CELTIC strengthens the competitiveness of the European industry by fostering European R&D cooperation in telecommunications and the well-being of the society by stimulating innovative information and telecommunication services.
- The success of CELTIC increases the European societal and industrial demand for advanced services over high performant networks by pushing the technological limits beyond.
- Key enablers for the digital transformation are new end-to-end services and infrastructures including security, cloud infrastructure, big data, AI and energy efficiency.
- Scaling up the digitalisation of every industrial process and providing secure, reliable and user-friendly communications that can be integrated into every aspect of our lives.
Active Countries in CELTIC

https://www.celticnext.eu/public-authorities/
Opportunities to collaborate globally

- Europe
- Canada
- South Korea
- South Africa
- Singapore

And potentially more countries in the future

www.celticnext.eu
CELTIC-NEXT is the solution for you if...

- You want to perform collaborative R&D projects within Europe and beyond
- You want to get public funding support
- You want to have a high chance to get your project approved and funded
- You want low administrative overhead
- You want a flexible framework
- You want high exploitation potential and business impact
CELTIC Project Timeline

Check funding with Public Authorities

The Celtic-Office supports with tools, templates and advice

Project Preparation

Call
Project Idea
Project Proposal
Submission to Celtic-Plus
Get funding in part. countries
Cooperation Agreement
Project Kick-Off

Project Active

Mid-Term Review

Exploitation of results

Final Review
CELTIC 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 impact rewarded by 3 EUREKA Innovation Awards

SIGMONA
EUREKA
Global Project of the Year 2019

Innovative software-defined network (SDN) concept in generalized mobile network architectures, which has contributed to the development of 5G networks

4KREPROSIS
High speed Wireless TV Cameras for Sport events
High resolution Data Transmission

Cameras for FIFA World-cup 2018

SIGMONA
EUREKA
Global Project of the Year 2019

E3
PROJECT
e-health solutions

Immersive Telemedicine
Ubiquitous Health care services

E-Health

E3

4K ultraHD TV wireless REMote PROduction SYSTEMs
CELTIc Flagship projects impacts the Business

**SASER**
Secure Communications for Europe
Spin-off’s and Start-ups:
- Cailabs (France)
- aXenic Ltd (UK)

27 new and 28 improved products.
*Record Data Transmission: 38.4 Terra bit / sec.*
The American Library of Congress (the world biggest) would be transmitted in 3 seconds

**SENDATE**
Secure Networking for a Data Center cloud in Europe
- The world’s first 100G quantum safe transport over 2,800 km
- The world’s first 400G link with single-photodiode for DC Interconnect
- Edge Computing shifts high traffic loads away from Core DC
- Secure cloud close to the customer allows low latency applications

80 Partners 70M €

60 Partners 80M €

SENDATE Closing Event in Ericsson’s HQ in Kista, March 2019

Cornelia Rogali-Grothe (State Secretary, BMI – German Ministry of the Interior) and Dr. Georg Schütte, State Secretary of the German Federal Ministry for Education and Research (BMBF) - Copyright: hannibal/BMBF
Just started:

CELTIC AI-NET Flagship

Automation of Telekom Networks

- Accellerating digital transformation in Europe by Intelligent NETwork automation
- Adaptive Networks for new services
- Automated secure networks
- AI/ML algorithms and efficient hardware implementations for optical data transmissions
- Industry 4.0
- Securing critical data
- Scalable and resilient networks.
Upcoming Celtic calls and Thematic calls

• **12th of April**: Submission deadline for CELTIC Spring Call
  CELTIC scope: ICT and its applications to verticals

• **15th of June**: Submission Deadline for the Thematic Call on
  Green Transition

• **28th of June**: Submission Deadline for the Thematic Call on AI
CELTIC-NEXT Newsletter

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
Let’s invent a smarter, safer and more sustainable world together!
Keynote:

How to recover the economy after Covid 19
- the role of 5G/6G -

Mr Pedro Mier,
The President of Ametic
Spain