



CELTIC-NEXT

Σeureka Cluster

Autumn Call 2023, Online Launch Event, 7th Sept 2023

Xavier Priem, CELTIC-NEXT Director



Who is CELTIC-NEXT?



www.celticnext.eu



CELTIC-NEXT is the world industry-driven ECP* ICT** not for profit **cluster** involving all the major ICT** industry players, service providers, many SMEs, and research institutions & academia to enable a secured, trusted, and sustainable digital society.

*Eureka Clusters Program, launched on 17/6/2021, CELTIC-NEXT was launched earlier in 2003

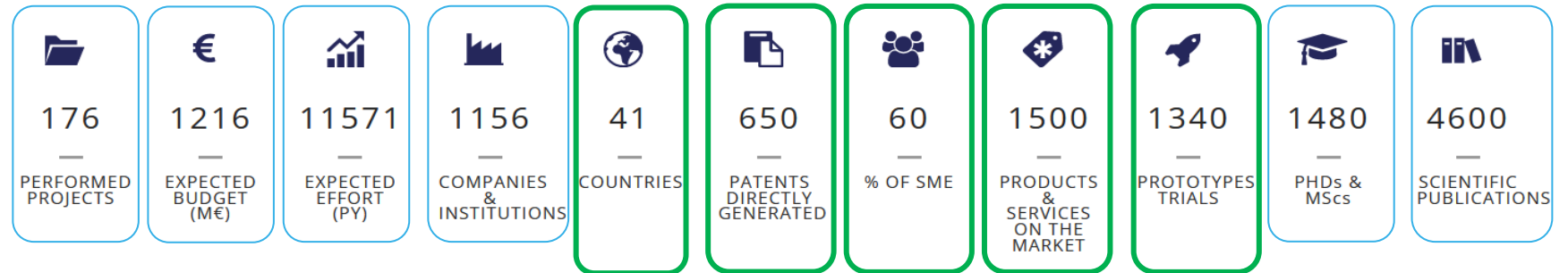
*Eureka Clusters Program, launched on 17/6/2021

** Information & Communications Technologies

*** Research, Development & Innovation

Who is CELTIC-NEXT?

Since its launch in 2003, CELTIC has achieved:



CELTIC-NEXT is open to all entities willing to align their business targets with their national public priorities, by running common RD&I*** projects to advance the development and uptake of advanced ICT solutions, thus accelerating their own Time-To-Market.



- **The ICT Cluster** under the umbrella of EUREKA
- Focused 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
- **The organiser of 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**



Who is CELTIC-NEXT?

CELTIC-NEXT Mission & Vision

The mission of CELTIC-NEXT is to:

- Foster our Eureka collaborative RD&I program for the ICT community
- Accelerate the deployment and uptake of advanced ICT services
- Employ the new network concepts of 5G and beyond, and lead to the innovation ownership and implementation of 6G in Eureka countries

Because It is crucial to consolidate the position of :

- Eureka manufacturers and service providers
- Eureka countries sovereignty

The strong ambition of CELTIC-NEXT is, therefore, to:

- Assist Eureka National Authorities, Eureka Industry, and Eureka Societies
- Make them access to societal benefits, competitive advantages, commercial returns of being at the forefront of the new digital era for the society

What CELTIC-NEXT does ...

CELTIC-NEXT manages an international Quality Label that enables international consortia to apply more successfully to National Funding schemes and assemble them to fund international cooperative innovation.

- CELTIC Bottom-up calls
- CELTIC Flagship projects & open calls
- EUREKA ECP Joint Calls



CELTIC-NEXT
eureka Cluster

Next-generation Communications for a secured, trusted, and sustainable digital society

Beyond 5G & 6G, Connectivity, Networks & Telco Cloud, AI and more...

Personal services, FinTech, eHealth, Smart Home, Smart Cities, Automotive Telecom, Public Safety, Smart Enterprise & Factory, IoT

SUBMIT YOUR PROPOSAL
www.celticnext.eu



CELTIC-NEXT
eureka Cluster

SPRING CALL 2023
Open for submission

Follow us on Social Media & Subscribe to our Newsletter to not miss out on any updates!

Key dates

- Proposers Brokerage Day: 17 March 2023 in Paris
- Deadline for Proposals: 24 May 2023
- Labels Notification: June 2023



CELTIC-NEXT
eureka Cluster

SPRING CALL 2023
PROPOSERS
BROKERAGE DAY

Friday 17th of March 2023
Bpifrance Le Hub, Paris

Key dates

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eureka Clusters
Sustainability Call 2022

europa 2030

ITEA 4

smart
advanced manufacturing

Xecs

CELTIC's Community



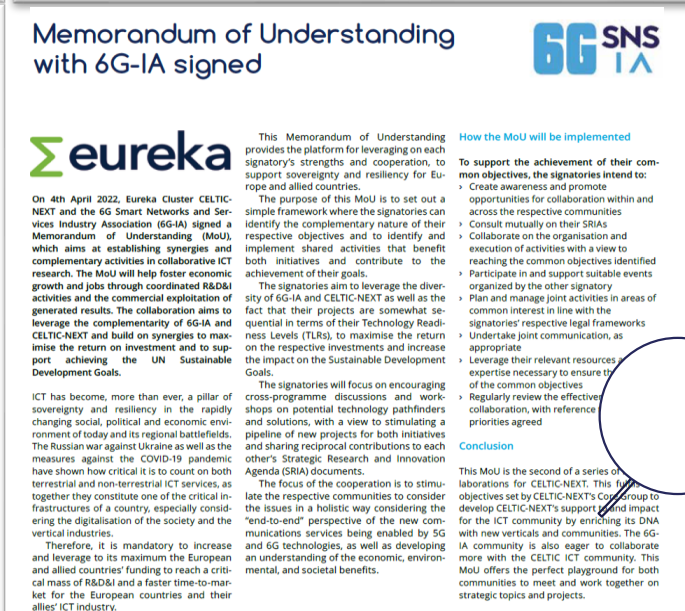
with over 1150 community members across 41 countries (Europe & beyond)

CELTIC's Community builds its Mission, Vision & Roadmap

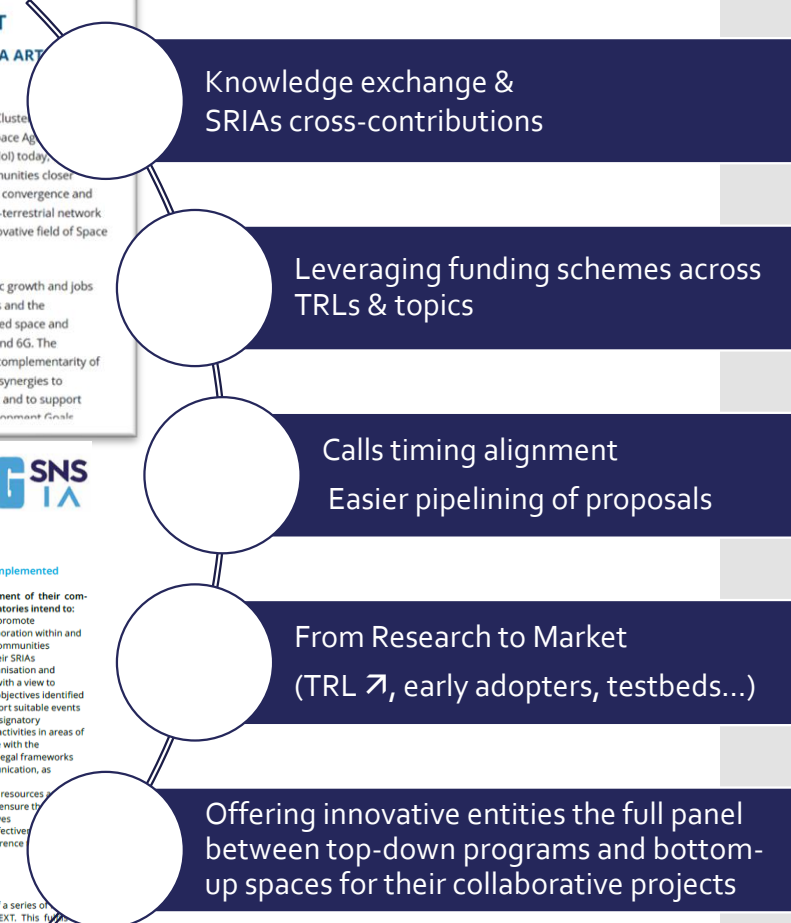


CELTIC-NEXT in the European Funding Landscape

EUREKA-CELTIC & European Space Agency MoI Signed (Nov. 2021)



EUREKA-CELTIC & 6G-IA SNS MoU Signed (Apr. 2022)



As usual, Proposals that address any of the topics of the **CELTIC Strategic Roadmap** in this bottom-up call are welcomed



CELTIC is also looking into:

- Non-Terrestrial-Networks and Terrestrial Networks convergence
- Digitalisation of the Economy thanks to ICT technologies
- Clean Growth
- Remote Health & Care
- ICT for Industry 4.0 and Logistics
- Critical Coms for Emergency & Rescue Services
- Critical Infrastructures & Cybersecurity
- Open RAN
- Private Networks
- AI for ICT & Networks (including Radio Massive MIMO, Open-RAN RICs, ...)
- Consumer IoT, Industry IOT
- ICT Technologies for METAVERSES
- and 5G Advanced and 6G topics

<https://www.celticnext.eu/strategic-roadmap/>

CELTIC-NEXT's DNA

➤ **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 %

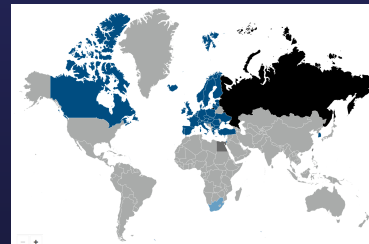
➤ **Flexibility**

Project focus can be adjusted to new technological developments in the field

FOR YOUR SUCCESS

By participating, you will get

- The award of an Globally Recognised Label
- Professional coaching and mentoring
- Easy access for SMEs
- Access to SMEs for Large industry & vice-versa
- Access to partners from more than 45 countries
- Access to national funding (while having international co-innovation)
- Transnational RD&I cooperation



Expectable benefits for you

- Boosting your competitiveness
- Accelerating your growth
- Shortening time to market
- Accessing new markets
- Increasing your international visibility
- Exposing your know-how to the eco-system
- Receiving guidance, coaching and monitoring of your project by the CELTIC Office,
- flexible project coaching process where you can adapt your project plan, consortium and other aspects, in agile way, using CELTIC's Project Change Requests



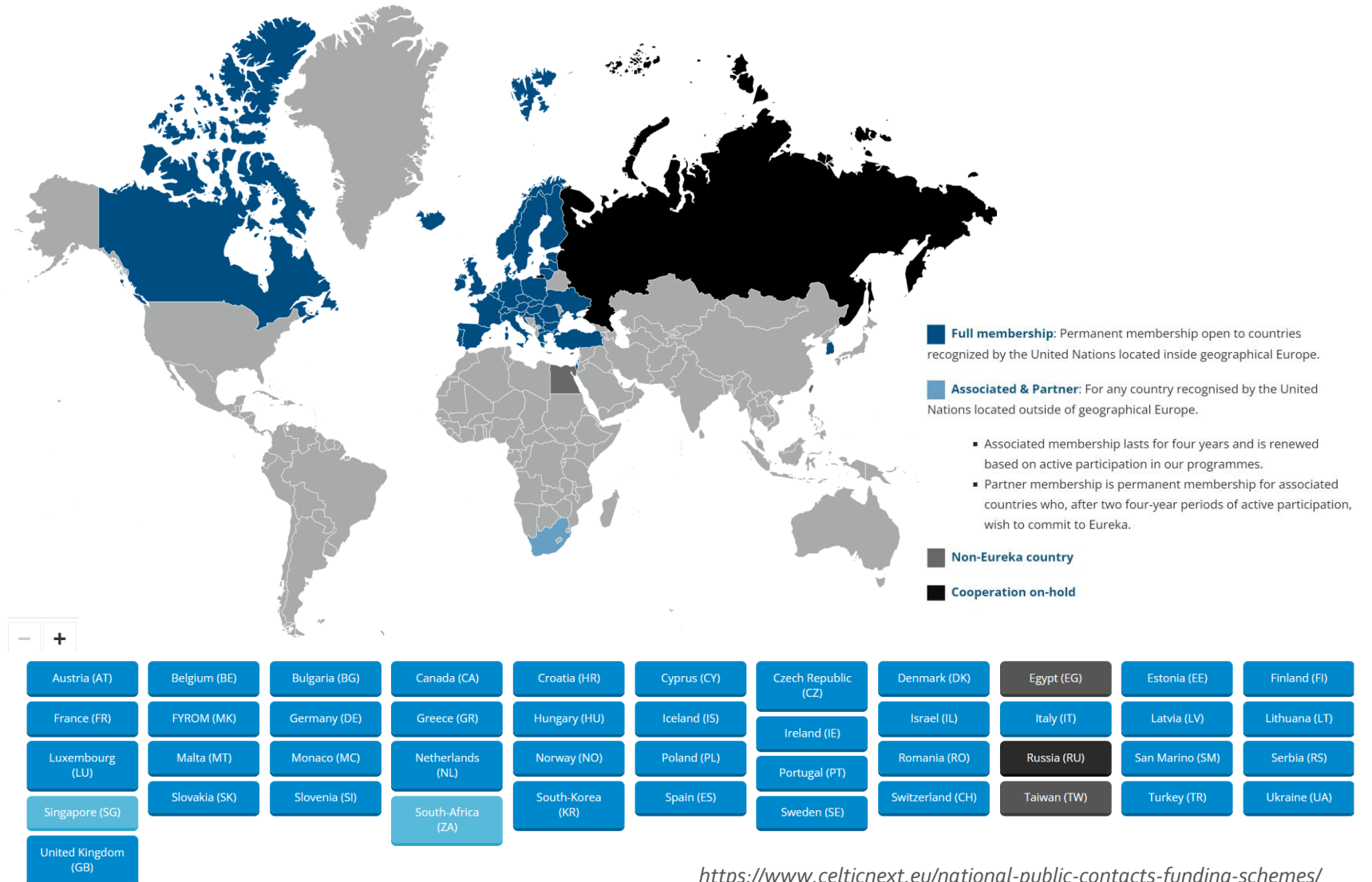
Your opportunities are

- Immerge yourself into a rich ecosystem covering the technology and business whole value chains (Large Industry, SMEs, Startups, RTOs, Academia, end-users)
- Build RD&I consortia during brokerage and other events
- Lead or be part of an industry lead project
- Create and foster collaborative innovation
- Stimulate disruptive and/or sustainable ideas
- Run and manage your collaborative project with the Office's support
- Adapt to internal and external circumstances
- Generate high economic impact
- Grow and collaborate beyond borders
- Deliver high social and economic impacts
- Support U.N. SDGs

Opportunities to collaborate globally

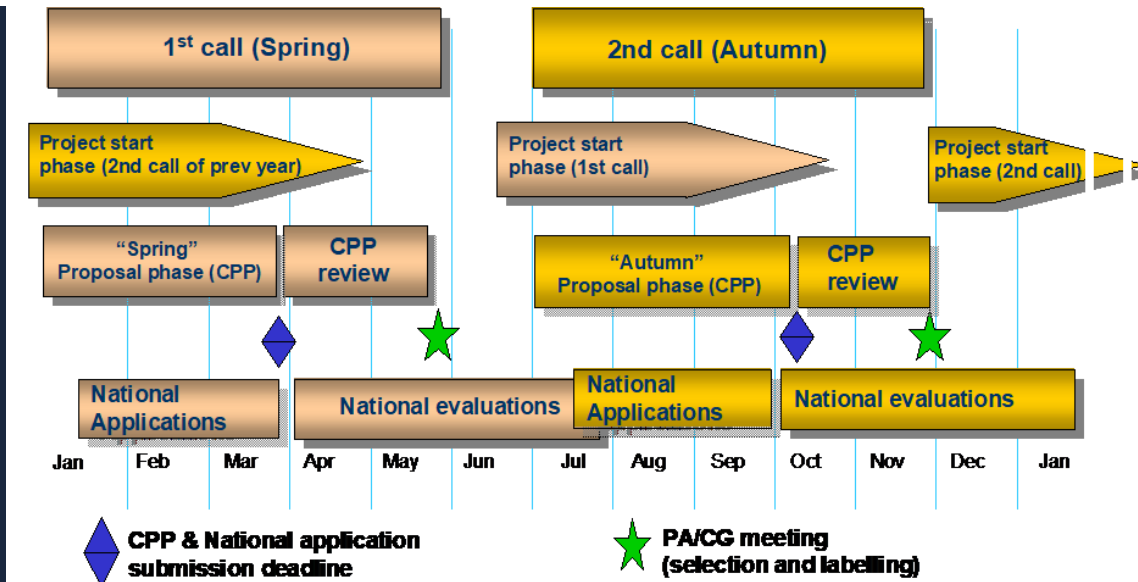
-  Europe (large)
-  UK
-  Canada
-  South-Korea
-  South-Africa
-  Singapore

And potentially more countries in the future, like Chile, Taiwan...



Call process and timelines

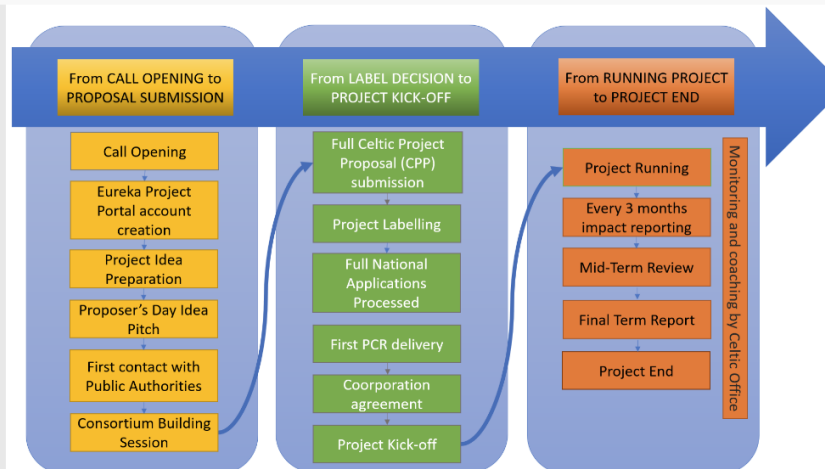
CELTIC offers 2 bottom-up calls per year and additional flagship calls



Call Process

Interactive map of Celtic-Next calls and projects

Click on the map to guide you through the cluster project process and navigate the website.

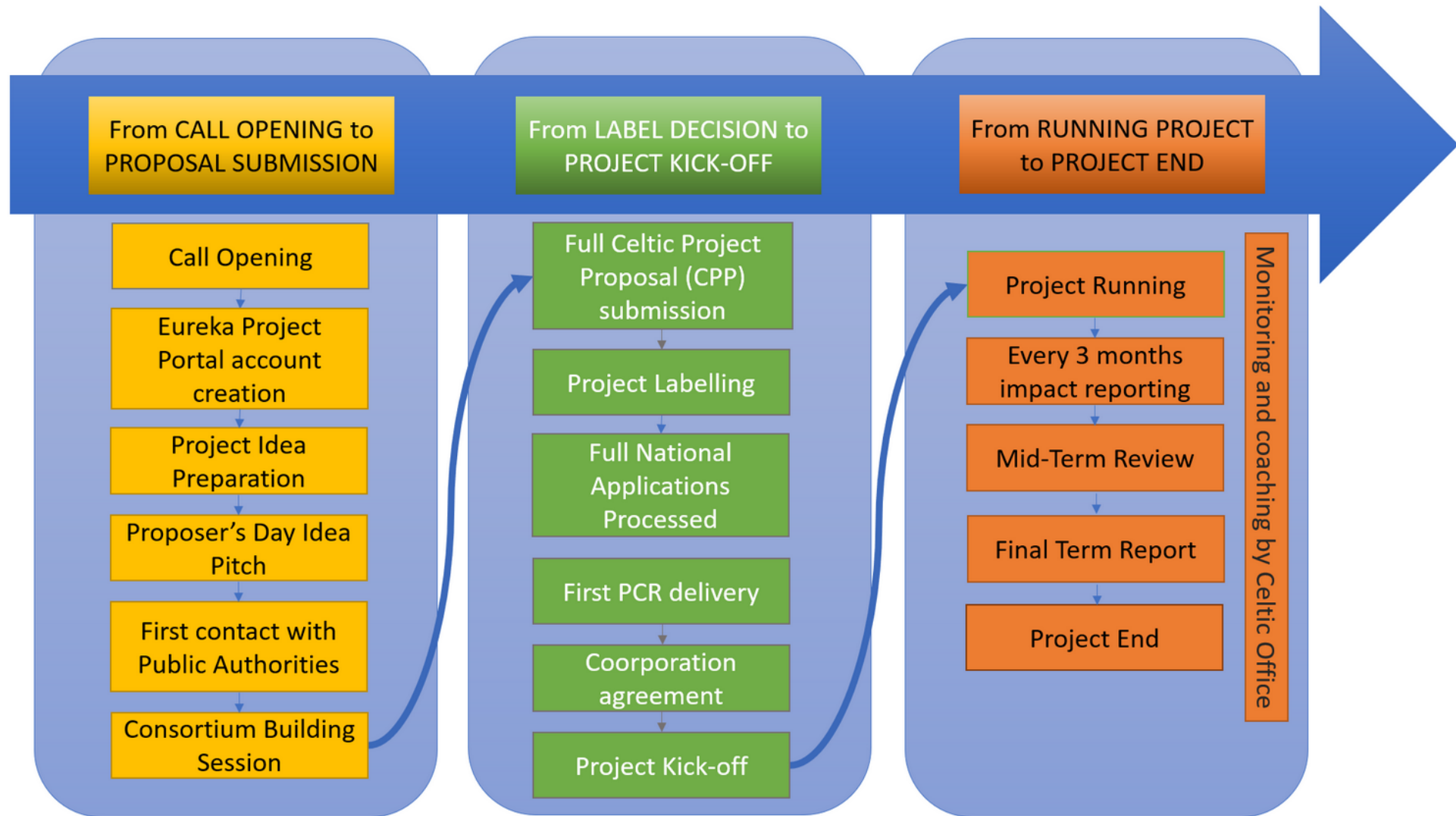


Autumn Call 2023 dates:

- Opening
1st of July 2023
- Launch Event
7th of September 2023
- Proposers Brokerage Day
5th of October 2023
- Deadline for proposals
10th of November 2023
- Labels notification
End December 2023

<https://www.celticnext.eu/call-information/>
<https://www.celticnext.eu/proposers-days/>
<https://www.celticnext.eu/call-calendar/>
<https://www.celticnext.eu/brokerage-tool/>

CELTIC-NEXT Call Process



<https://www.celticnext.eu/call-information/>

CELTIC-NEXT's typical BOTTOM-UP call projects

- Number: 4-15 (typical)
- Type:

Large Industry players
SMEs
RTOs
Academia
Public Bodies

- Number: 3-7 (recommended)
- Strictly more than 2 Eureka Countries

Partners

Countries

Budget &
Duration

Market &
Tech Value-
Chains

- Budget (costs):
3 to 15M€ (typical)
- Duration:
24-48 months, 36 typical

- Full E2E Technology Value chain to demonstrate full E2E Services
- Full Market Value Chain representative partners onboard to demonstrate Market Impact relevance

CELTIC-NEXT's typical FLAGSHIP projects

(hybrid bottom-up &
top-down model)

- Number: 50-90 (typical),
- Common WGs and 3-4 sub--projects
- Type:
 - Large Industry players
 - SMEs
 - RTOs
 - Academia
 - Public Bodies

Partners

Countries

- Number: 5-10 (recommended)
- Strictly more than 2 Eureka Countries per sub-project

Budget &
Duration

Market &
Tech Value-
Chains

- Budget (costs):
50 to 75M€ (typical)
- Duration:
36-48 months (historical)

- Full E2E Technology Value chain to demonstrate full E2E Services
- Full Market Value Chain representative partners onboard to demonstrate Market Impact relevance

Bottom-Up Spring Call 2023

13 valid proposals
51mio€ budget / 1030 FTEs
102 participants in 21 countries
AT, BE, CA, CH, DE, ES, FI, FR, HU, IL, KR, LU, PL,
PT, RO, RS, SE, TR, UK...
Labelling meeting on 30th June 2023

Bottom-Up Autumn Call 2023

Promotion starting 1st of July 2023
Launch Event B09/2023 (20Y of CELTIC)
Brokerage Day B10/2023
FPP deadline 10th of November 2023
Labelling WK51 2023

**Our Community is
active!**

AI-NET Flagship follow-up project

Preparation has started
Interested Countries,
please contact CELTIC's Director
First topics drafting to happen this Summer

3D-NET (NTN, Space) flagship

Core Team of Industrials in recruitment
Interested Countries,
please contact CELTIC's Director
First meetings to happen in October 2023



Important: please contact the Public Authorities before Projects submission:

<https://www.celticnext.eu/national-public-contacts-funding-schemes/>

Receiving their opinion early can avoid mistakes in your proposal, and will improve your chances to get the label by aligning with National Priorities and Schemes

<https://www.celticnext.eu/call-information/>

Events to prepare impactful projects:

CELTIC-NEXT's

- Launch Days
- Proposers Days
- Annual Events
- Brokerage platform



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<https://www.celticnext.eu/brokerage-tool/>

Start informing yourselves,
use the Brokerage Tool

Pitch your original idea,
meet potential partners!

Pitch your matured idea,
meet additional partners!



CELTIC Flagship projects impact the Market & Standards



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

60
Partners
80M€

80
Partners
70M€



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



Cornelia Rogall-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



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

AI-NET - Accelerating digital transformation in Europe by Intelligent NETWORK automation

CELTIC-NEXT AI-NET umbrella project

ANTILLAS
subproject



Optical networks for latency critical and highly available services

PROTECT
subproject



Secure enterprise connectivity

ANIARA
subproject



5G / 6G Edge and Industry 4.0

Automation of services and applications on the edge (Nokia)

Carrier-grade **AI/ML** for automation (Ericsson)

Edge platform and infrastructure (RISE)

Safety and security solutions (ADVA)

Subprojects

- Coordination and management by Telekom system manufacturer
- Rapid development of prototypes and early market access

Horizontal working groups

- bi- and multi-lateral cooperation across sub-projects
- Standardization and open platforms
- Joint field tests and demos

Project data and structure

CELTIC-NEXT AI-NET (06/2020 – 12/2024)

<p>ANTILLAS subproject</p>   <p>AI-NET-ANTILLAS</p>	<p>PROTECT subproject</p>   <p>AI-NET-PROTECT</p>	<p>ANIARA subproject</p>   <p>AI-NET-ANIARA</p>
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Deutschland	X	X	X
France	X		
Sweden		X	X
Finland	X		
UK			X
Netherlands		X	
Poland		X	

7
Countries

98
Participants

68.3 M€
Total budget

507 PJ
Total effort

Leverage though participation of many European countries

AI-NET impact and current project KPIs ... and still counting!

194

Publications

104

PhD & Master Theses

48

IPR, Open Source &
Standards
Contributions

60

PoCs

46

Keynotes and general
public comms

36

Hirings

High impact with excellent project KPIs

2023 Proposers' Brokerage Days : 3 important moments during those days



SPRING CALL 2023
 PROPOSERS' BROKERAGE DAY

CONFERENCE

The Conference part organised in the morning will be the perfect occasion to learn more about the Public Authorities funding schemes and priorities, as well as the process of CELTIC Calls!

Keynote speakers will also present about innovative and cutting-edge ICT topics.

Hybrid registration both open for FREE! - only 100 places in-person



Bpifrance Le Hub, Paris

Friday 17 March 2023

CELTICNEXT.EU



SPRING CALL 2023
 PROPOSERS' BROKERAGE DAY

PITCHING SESSION

The Pitching Session organised in the afternoon is the perfect opportunity to give your new project idea the best visibility to recruit additional consortium partners and to prepare a full project proposal for the upcoming CELTIC Calls!

Please send your new project idea pitch presentation using the given PPT template by the **6th of March** to event@celticnext.eu.

Presentations can not exceed 6 minutes & have to be in-person.

Hybrid registration both open for FREE! - only 100 places in-person



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Friday 17 March 2023

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SPRING CALL 2023
 PROPOSERS' BROKERAGE DAY

BROKERAGE & NETWORKING FORUM

The brokerage and networking forum session organised in the afternoon will be the perfect occasion to discuss with public authorities, interested proposers, and to build your consortium and consolidate your preparations for applying to CELTIC Calls!

Proposal writing support will also be offered by the CELTIC Director and the office team.

Hybrid registration both open for FREE! - only 100 places in-person



Bpifrance Le Hub, Paris

Friday 17 March 2023

CELTICNEXT.EU



<https://www.celticnext.eu/celtic-brokerage-event-spring-call-2023/>



Conclusion

Join the CELTIC-NEXT Community and apply to trans-national funding for your next steps of development of your innovations, technologies and products & services, **and:**

- **Get a recognised international label** to your innovations
- **Don't be restraint** to specific limit to your innovation project (**bottom-up** vs top-down)
- **Get a larger visibility** for collaboration
- **Gain commercialisation channels** (mixing Large Industry with SMEs and RTOs) in near-to-market innovation collaborations
- **Accelerate your Time-To-Market by increasing your TRLs** in a near to market funding scheme
- **Collaborate easily outside of Europe** (Eureka Network of Countries) with the proven EUREKA Clusters mechanism, extending again your visibility and commercialisation channels



MANY THANKS FOR YOUR ATTENTION.

CELTIC-NEXT



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