WELCOME
CELTIC Online Proposers Day

23rd February 2021

Sessions will start at 9 CET

www.celticnext.eu

@Celticnext
#CelticPropDay

Programme

CELTIC-NEXT

Time	Session
9:00 – 9:25	**Welcome and Introduction to CELTIC-NEXT** Mr Jari 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-Strömberg, Vinnova South Africa Mr Toto Matshediso and Ms Vinny Pillay, DST Turkey Mr Umut Ege, TUBITAK Luxembourg Mr Alexander Link, Luxinnovation Other countries to be confirmed
12:00 – 13:00	**Panel Business impacts of CELTIC Projects** Moderator: Riza Durucasugil, CELTIC Vice-Chair, NETAS ,Turkey **VIRTUOSE,** Mr Jose Javier Garcia Aranda, Nokia, Spain **SOOGREEN,** Mr Dominique Bodere, Orange, France **CyberWI,** Mr Harold Linke, HITEC, Luxembourg **ASUA,** Mr Serkan Gazel, 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**

eureka
innovation beyond borders

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.

CELTIC-NEXT

Key performance indicators:	
New or improved products	1500
Number of directly generated patents	650
Prototypes/Field Trials	1340
Contributions to standards	2140
Journal publications/Conference publ.	4600
PhD and Mater thesis	1480

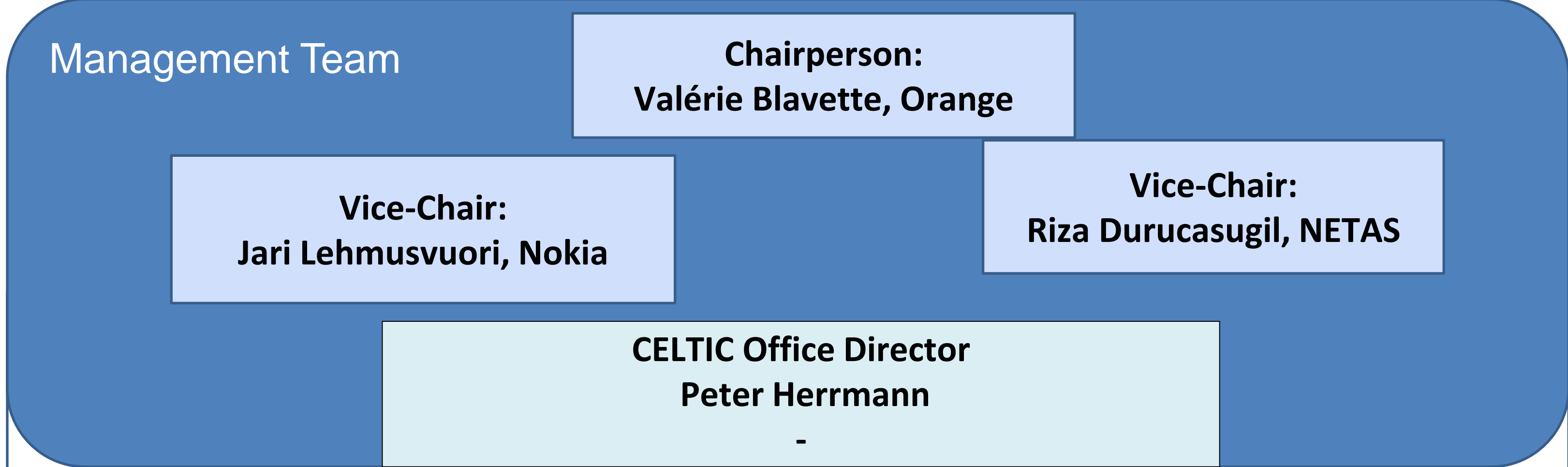**Over 1.2 Billion Euro
Invested in R&D in total since existence**

Organisation

CELTIC-NEXT

Industry
18 CELTIC-NEXT Core Group

National Authorities
CELTIC Authorities Committee

TURKCELL TEKNOLOJİ

TÜRK TELE KOM

BOSCH

ADVA

orange

BT

ERICSSON

EURESCOM

RAD data communications

NOKIA

telenor

THALES

ITALTEL

Telefónica

imec

NETAS

indra

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

CELTIC NEXT

2 calls in 2021

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

Project Status	
Running	19
Set-Up	16
Finished	134

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 Awards 2020

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

Next Generation Communications

CELTIC-NEXT end to end perspective including verticals

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
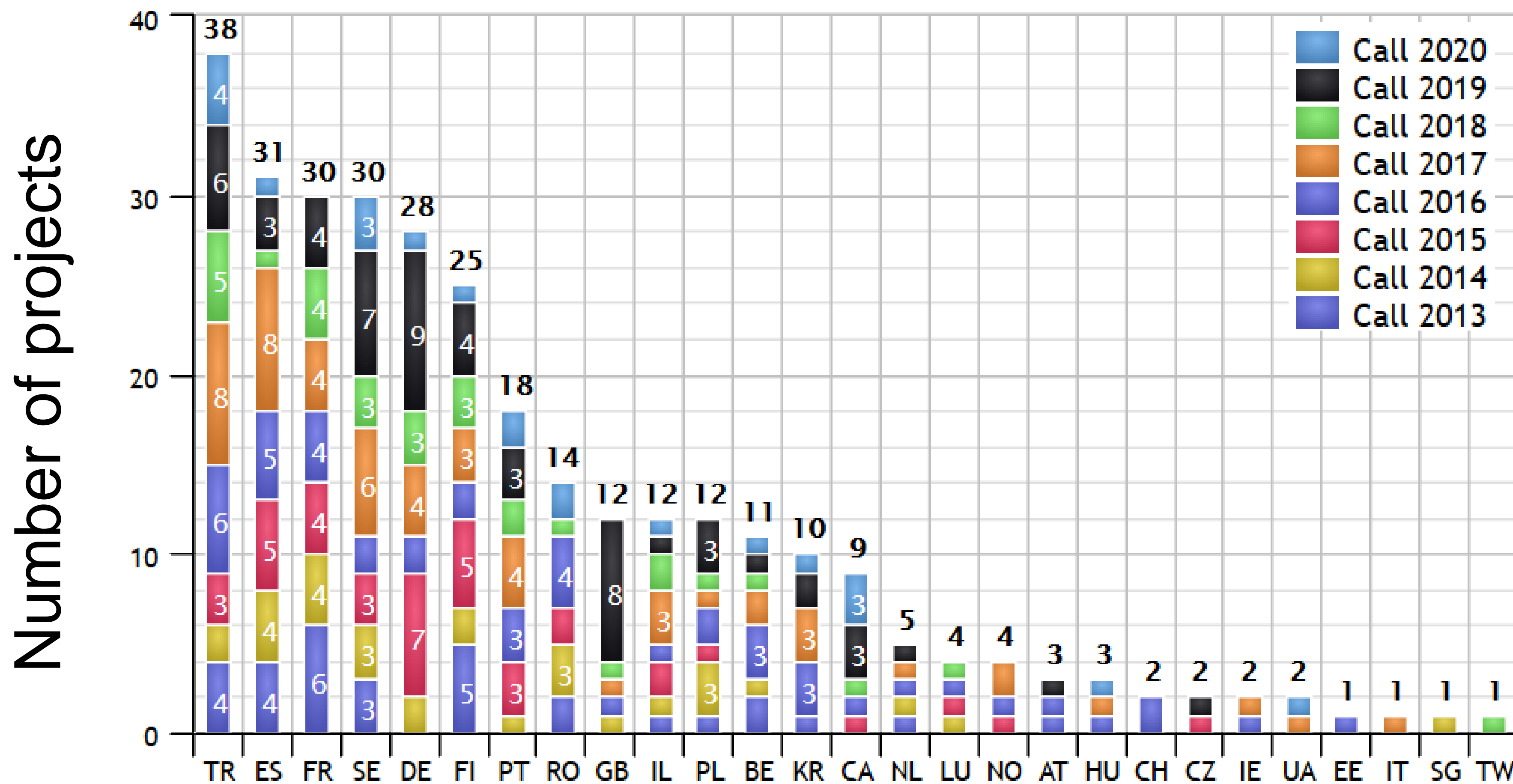
CELTIC-NEXT Scope and Vision

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 digitisation of every industrial process and providing secure, reliable and user-friendly communications that can be integrated into every aspect of our lives.

C> CELTIC-NEXT

Next Generation
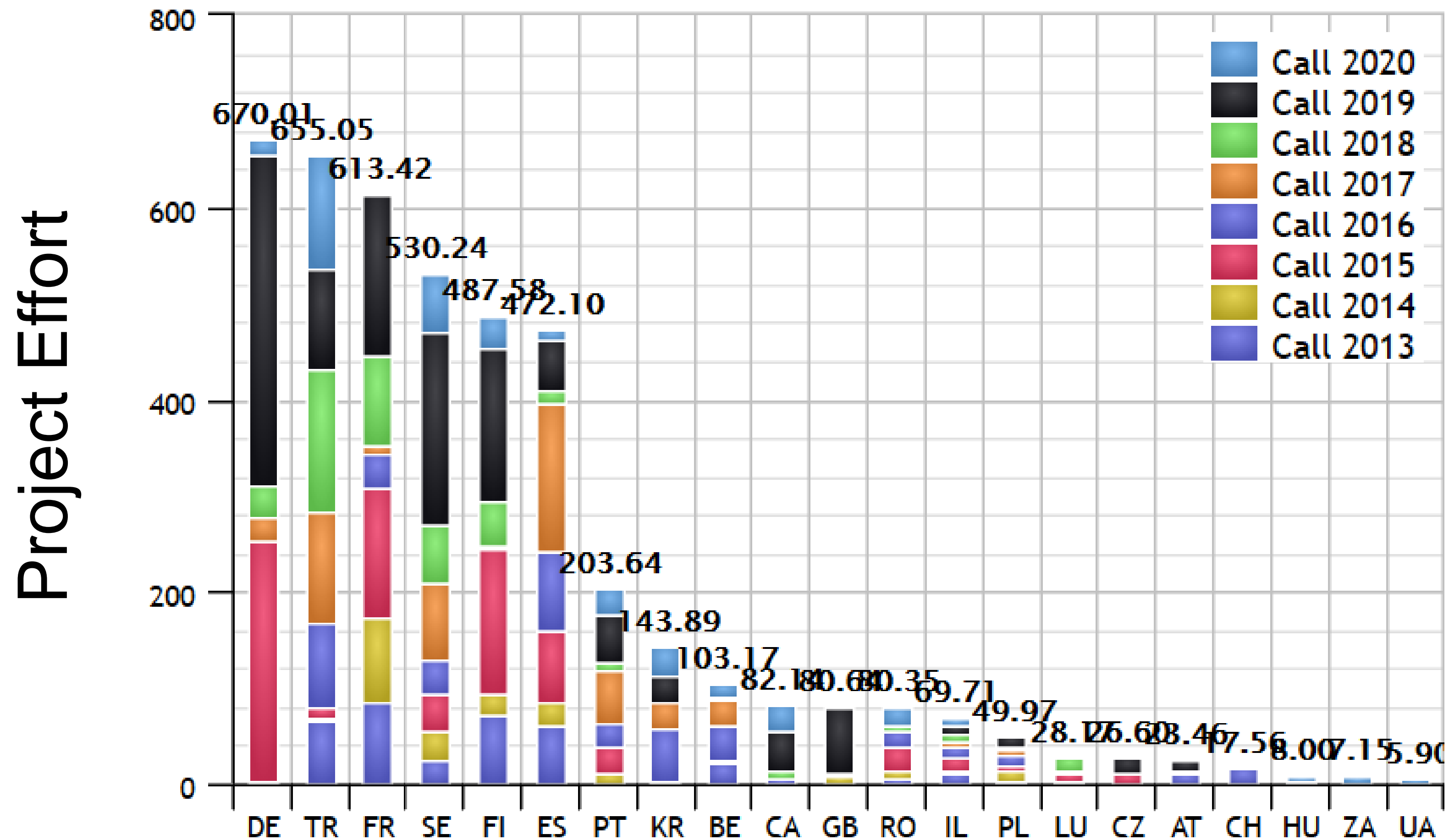Telecommunications
for the Digital Society

Scope and
Research Areas

Σ! EI5828 Celtic-Plus

Version 1.1 – April 2018
Approved by Celtic Industry
Core Group

www.celticnext.eu

Active Countries in CELTIC

https://www.celticnext.eu/public-authorities/

Active Countries in CELTIC

https://www.celticnext.eu/public-authorities/

Opportunities to collaborate globally

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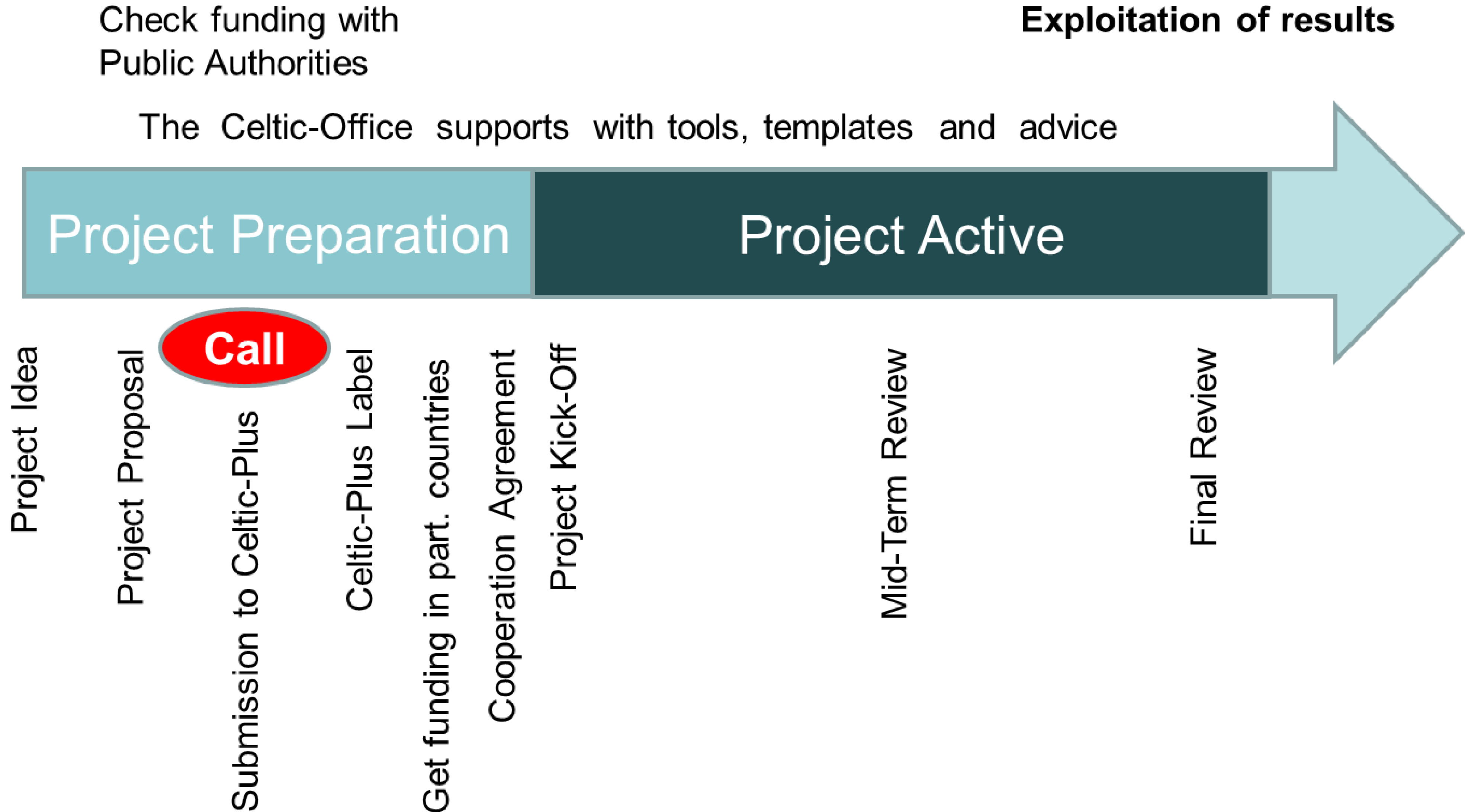- Singapore

And potentially more countries in the future

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

CELTIC-NEXT

Check funding with
Public Authorities

Exploitation of results

The Celtic-Office supports with tools, templates and advice

Project Preparation	Project Active

Call

- Project Idea
- Project Proposal
- Submission to Celtic-Plus
- Celtic-Plus Label
- Get funding in part. countries
- Cooperation Agreement
- Project Kick-Off
- Mid-Term Review
- 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**

**CELTIC Label
Decision**

Evaluation by:
1. **Industry Experts**
2. **Public Authorities**

Time line: 6 weeks in total

CELTIC impact rewarded by 3 EUREKA Innovation Awards

SIGMONA

5G Networks

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

SIMONA: EUREKA Global Project of the Year 2019

4K ultraHD TV wireless REmote PROduction SYStems

Cameras for FIFA World-cup 2018

4KREPROSIS

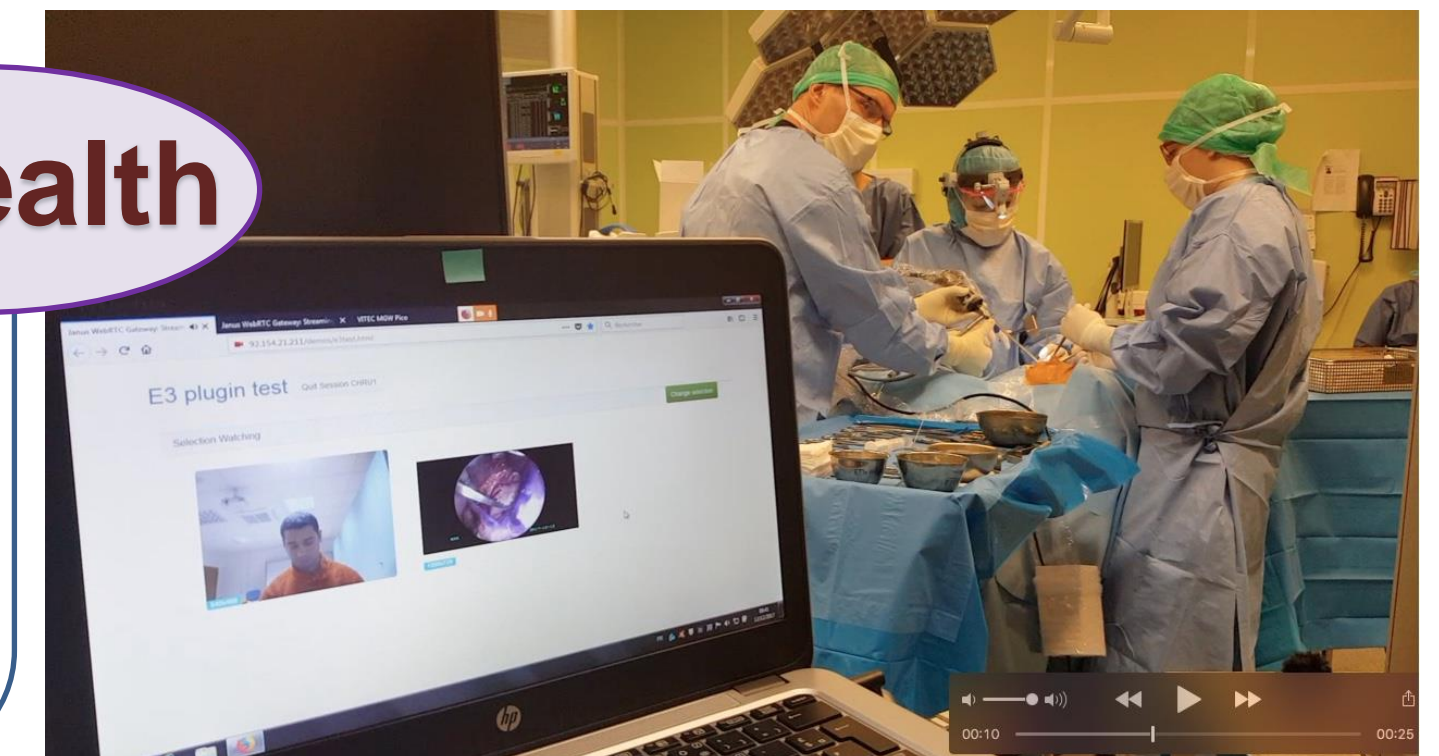*High speed Wireless TV Cameras for Sport events* High resolution Data Transmission

E-Health

E3

Immersive Telemedicine Ubiquitous Health care services

E3 PROJECT e-health solutions

eureka innovation beyond borders

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

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

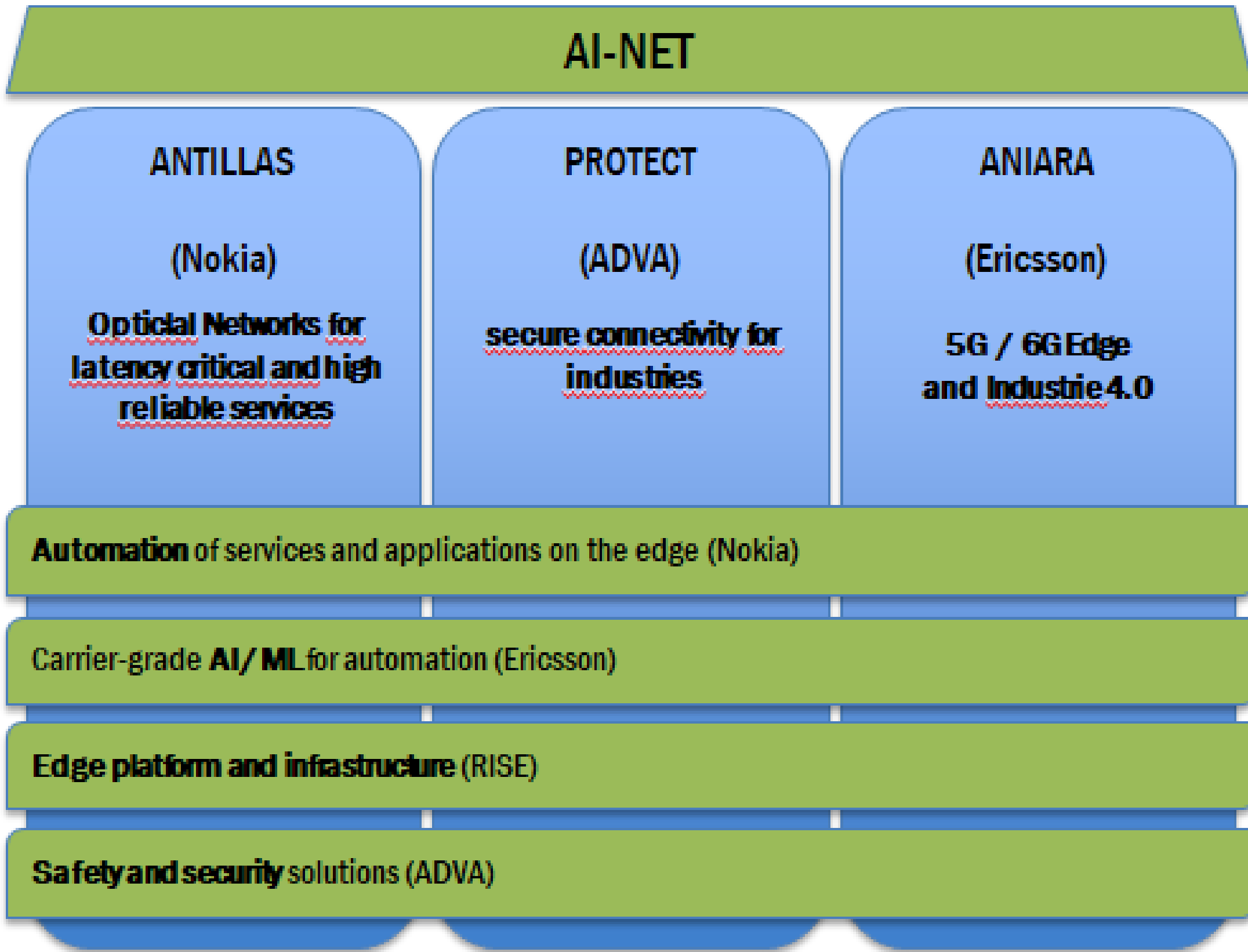SENDATE Closing Event in Ericsson's HQ in Kista, March 2019

Just started:
CELTIC AI-NET Flagship
Automation of Telekom Networks

90 Partners

eureka
innovation beyond borders

AI-NET

ANTILLAS	PROTECT	ANIARA
(Nokia)	(ADVA)	(Ericsson)
Optical Networks for latency critical and high reliable services	secure connectivity for industies	5G / 6G Edge and Industrie 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)

- *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

- **15st of June** : Submission Deadline for the Thematic Call on Green Transition

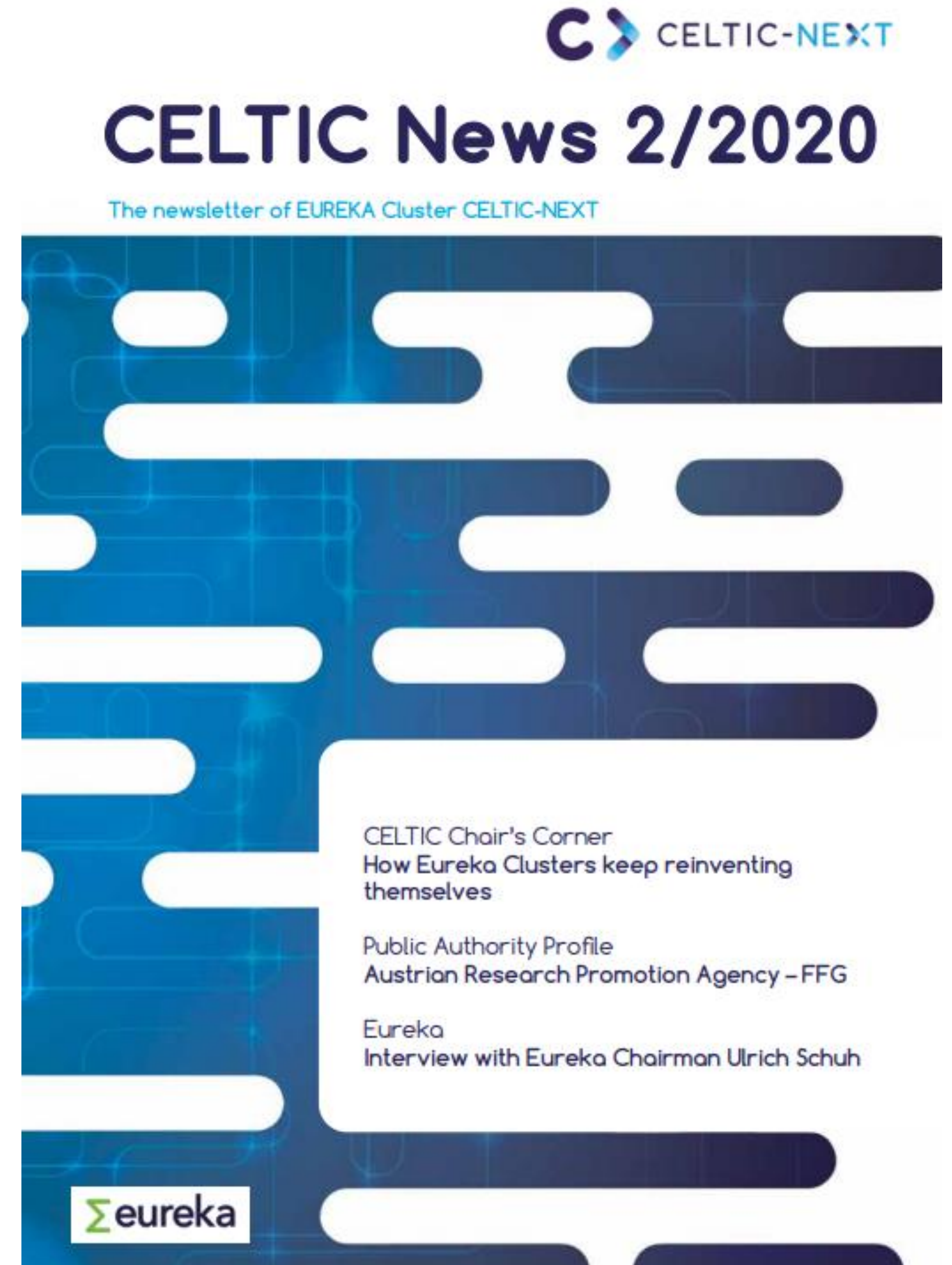- **28st of June** : Submission Deadline for the Thematic Call on AI

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

CELTIC-NEXT

CELTIC News 2/2020

The newsletter of EUREKA Cluster CELTIC-NEXT

CELTIC Chair's Corner
How Eureka Clusters keep reinventing themselves

Public Authority Profile
Austrian Research Promotion Agency – FFG

Eureka
Interview with Eureka Chairman Ulrich Schuh

Σeureka

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