



Telecommunications

Future Internet

New media

Applications & services



Join the Industry-Driven Research Programme for a Smart Connected World!

#### Important dates for the call

Submission deadline: 16 October 2017  
Labeling of proposals: November 2017

Call information and access to online submission:  
<http://www.celticplus.eu>

#### Celtic-Plus Core Group Members

Atos Research, Spain  
BT, United Kingdom  
Deutsche Telekom, Germany  
Ericsson, Sweden  
Eurescom, Germany  
Gemalto, France  
Indra, Spain  
Italtel, Italy  
Netas, Turkey  
Nokia, Finland  
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RAD Data Communications, Israel  
Siemens, Austria  
Technicolor, France  
Telefónica I+D, Spain  
Telenor, Norway  
Thales, France  
Turkcell Technoloji, Turkey  
Türk Telekom, Turkey

Core Group Observer:  
iMinds, Belgium

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# Celtic-Plus Call for Project Proposals

Deadline: 16 October 2017



Celtic-Plus is the EUREKA Cluster for Collaborative Research in ICT

[www.celticplus.eu](http://www.celticplus.eu)

# Smart Connected World



## About Celtic-Plus

**Celtic-Plus is the industry-driven European research programme for implementing the vision of a Smart Connected World. It covers a broad range of areas in ICT, including communication infrastructures, services, applications and multimedia.**

The programme started in 2003 and is operated as an ICT Cluster under the umbrella of EUREKA, the intergovernmental network for market-driven industrial R&D. Participation through the regular project calls is open to any organization ready to contribute to the Smart Connected World vision. The collaborative Celtic-Plus research projects are financed through public and private funding.

Companies involved in Celtic-Plus include leading European telecommunications manufacturers, network operators and research institutes, as well as small and medium enterprises. Over 900 private and public organisations have already been involved in Celtic-Plus projects.

The programme has a total budget of about one billion euro for all Celtic-Plus projects. Since 2011, Celtic-Plus projects have generated about 1,000 standards contributions, over 880 prototypes and field trials, and about 500 patents.

### The three main benefits of submitting a Celtic-Plus project proposal

Participation in Celtic-Plus calls offers proposers several unique benefits on top of the public funding. The three most important benefits are:

- You are free to define the content of your project proposal according to your own research interests and priorities. You are not bound by a specific call text.
- Celtic-Plus projects are close to the market and have a track record of exploiting results fast after the end of the project. So far the projects have led to more than 800 new or improved products and services.
- High-quality proposals have an excellent chance of receiving funding, with an average success rate of 60 %.

### Scope of the call – Celtic-Plus research areas

Celtic-Plus gives proposers almost limitless freedom in regard to what research topic they can explore in their ICT research project. The philosophy of the programme is to facilitate projects in a bottom-up way, thus offering projects the chance of both evolutionary as well as disruptive innovation in all relevant ICT areas, without limiting their creativity and ambition.

The topics listed on the next page are not prescriptive and are only meant to give you some idea of the scope of Celtic-Plus projects.

## Networking and Cloud

“Networking and Cloud” address everything needed to establish, run, support and secure a communication link, including the infrastructure and connectivity aspects. Key topics of current and future Celtic-Plus projects are related to network capacity, cloud computing, optics, satellite, mobility, security, scalability, robustness, and energy efficiency.

### Current topics in this area include:

- 5G, the next generation of mobile and wireless networks bringing broadband to everybody
- Cloud Computing enabling ubiquitous access for storing and processing data
- Internet of Things with its sensor networks including billions of sensors and activators
- Energy efficiency to reduce the enormous amount of energy current ICT requires
- Satellite and its convergence with terrestrial networks
- Network deployment, operation and management for economically sustainable networks
- Security, privacy, identity and public safety, including critical communications infrastructure

## Services and Applications

“Services and Applications” tackle all aspects once a communication link is established, including requirements for end-to-end services and applications. Key topics of current and future Celtic-Plus projects are Smart Cities, Smart Homes, digital enterprises, e-health, big data, 5G related services, terminals, as well as horizontal end-to-end services, like security, privacy, identity and public safety.

### Current topics in this area include:

- Smart Cities and smart homes, which may require a cross-sector approach, supported by the EUREKA Smart City Inter-Cluster MoU 
- Digital enterprises to ensure that European enterprises stay competitive within the global markets
- E-health solutions in response to the challenges of the aging European population
- Big data, including the related research challenges for, e.g., data capture, storage, analysis, transfer, and privacy
- The wide variety of terminals, from simple telephones over Smartphones to complex multimedia units
- Automotive telecoms