



Latest News of Celtic-Plus

Celtic-Plus Event

Monaco, 23-24 April 2014

Jacques Magen, Celtic-Plus Chairman



About Celtic-Plus

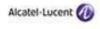


Celtic-Plus is a European EUREKA R&D programme dedicated to networking technologies and services

bottom-up, flexible, industry-driven, close to the market

Celtic-Plus has 10 years of experience in European projects covering R&D and Innovation

- Impact and innovation are crucial to Celtic-Plus (and to **EUREKA**)
- Celtic-Plus Core Group Members:







































Results and Impacts



New or improved products	565
Number of directly generated patents	390
Prototypes/ field trials	619
Number of standards contributions	550
Number of publications/ conferences	1700
Number of PhD/ Master thesis	583
Estimated Rol: around 50 x	>25 B€

^{*)} figures extrapolated for 74 closed projects on the basis of 33 evaluated project outcomes



Project Highlights







Broadband Optical networks	Broadband mobile networks
High-speed optical networks for Future Internet 10 times faster This 65 M€ project has laid the ground for 100 Gb/s optical networks.	Global standards for 4G Technology on LTE- advanced bringing Europe back into the driver's seat for high-speed mobile systems
World class developments on the optical layer and network integration: > 21 new products > 15 improvements of existing products	59 contributions to 4G mobile communication standardisation, paving the way to roll-out LTE-Advanced.

Both projects were Celtic Gold Award and Innovation Award winners 100GET was also nominated for the EUREKA Innovation Award 2013



Helsinki Pilot

More Project Highlights









decided this week

products

• 7 new and 5 improved



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	Broadband 4G access networks	Elastic Optical Networks	High Performance Telemedicine platform	Next Ger for Broa
	New ITU standard G.fast for realizing a 1Gb/s hybrid fibre- copper solution for up to 200 m normal copper lines; as Successor of x-DSL.	EO-Net project brings "elasticity" to optical transport networks. Elasticity becomes an enabler to achieve Scalability, Cost and Energy efficiency.	First Multi-domain Celtic project with 3 hospitals. Unified Service Platform with 5 prototypes in 5 countries. Doctor from CHU Nancy considers easy to use.	DVB-T2: Va HD standards standards handheld T DVB techno- been adop in Asia and
	G-fast is becoming widely accepted at operators and in press: 07/2013 Austria Telkom: Field trial 10/2013 BT: Field trial 02/2014 DT: Field trial 02/2014 Telia Sonera:	 18% cost reduction (network upgrade) Elasticity in new commercial chipset 30% energy savings (day/night traffic adaptation) 5 "elastic" products 	 Home care system deployment VODAFONE: 500 sold in Madrid (target 4000 units in 2014) Videoconference system for the Spanish Red Cross Network deployment in hospitals in France will be 	 5 from 8 testing's Contributing mobining mobinin

under development

trials

8 Prototypes and Field

Next Gen. Networks for Broadcast (DVB)

DVB-T2: Validation of HD standard and 2 new standards for mobile handheld TV reception. DVB technologies have been adopted especially in Asia and in Africa.

- 5 from 8 validation testing's of DVB-T2
- Contribution of 10 % to new mobile standards: DVB-T2-Lite and DVB-NGH
- 13 new and 8 improved products
- dimensioning tools for DVB deployments



Celtic-Plus in Monaco



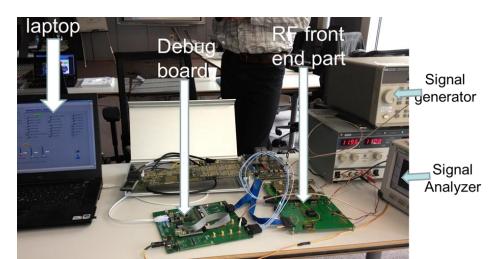


Spectrum and energy efficiency in 4G communication systems and beyond

The focus is on Cognitive Radio techniques for mobile communications. Automatic reconfiguration of devices improves:

- > robustness of connections
- > increases the coverage
- Automatic reconfiguration is applied to: LTE, femto-cells but also to emergency communication systems.
- The debug card has already been sold.
- Field trial is currently realized in the Network of Monaco Telecom.
- Thanks to this the project has access to local regulations.
- The increase in efficiency and robustness of these wireless systems will be a selling argument.

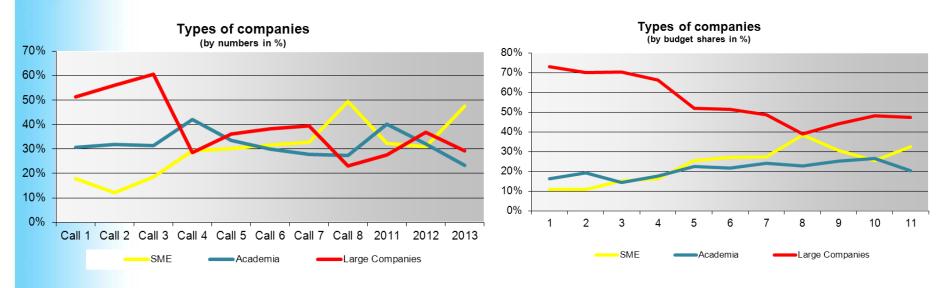
3 from the 4 electronic cards shown at the Mid Term Review have been developed in the project.





Type of organisations involved





In 2013:

- High participation of SME (# of companies)
- Increasing budget share of industry

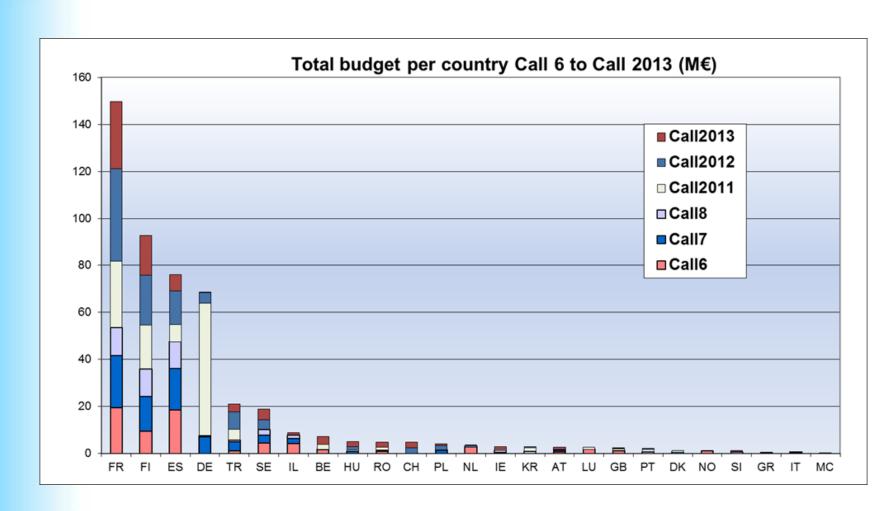






Country Participation





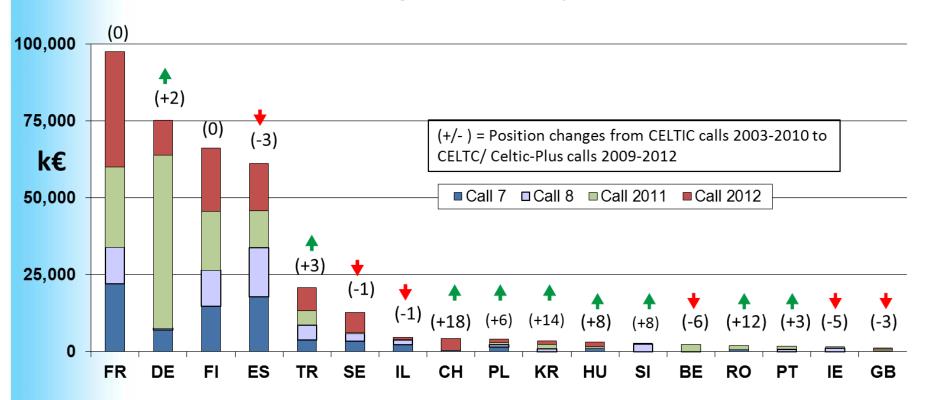


Budget per country



835 M€ is the total budget of all Celtic/ CelticPlus Calls

Budget per country

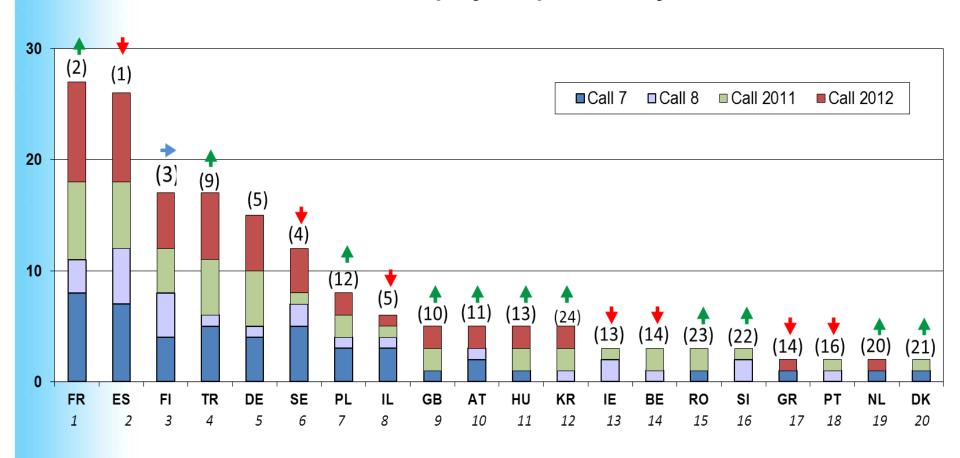




Participation per country



Number of projects per country





To come 2014





- 24 June: SASER Conference on:
 - "Secure European Communications"
 - High-level participations from politics, industry, research, and press
 - SASER exhibition and demos
- 25 June: Celtic-Plus Proposers' Day
 - Targetting Autumn call (15 October)
- Location: Kalkscheune Berlin
- Proposers Day in November or December; date tbc.





www.celticplus.eu

