Latest News of Celtic-Plus

Celtic-Plus Event

Berlin, 25 June 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 RoI: 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
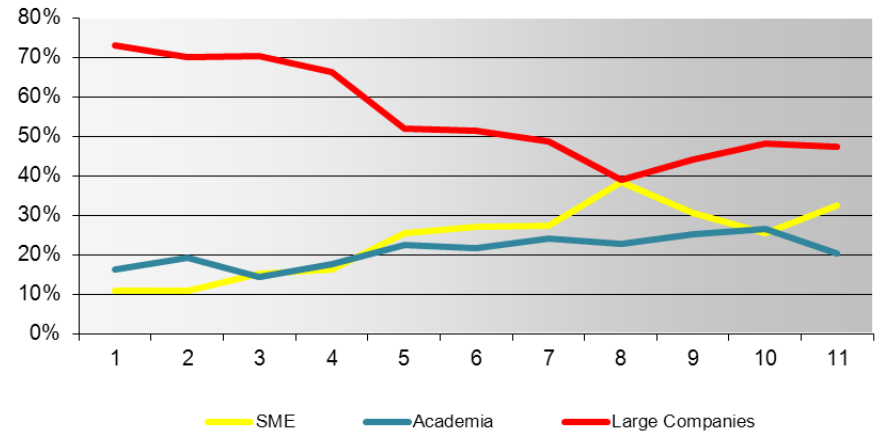
More Project Highlights

Broadband 4G access networks	Elastic Optical Networks	High Performance Telemedicine platform	Next Gen. Networks for Broadcast (DVB)
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: Validation of HD standard and 2 new standards for mobile handheld TV reception. DVB technologies have been adopted especially in Asia and in Africa.
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: Helsinki Pilot	• 18% cost reduction (network upgrade) • Elasticity in new commercial chipset • 30% energy savings (day/night traffic adaptation) • 5 "elastic" products under development • 8 Prototypes and Field trials	• 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 decided this week • 7 new and 5 improved products	• 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

Type of organisations involved

Types of companies
(by numbers in %)

— SME — Academia — Large Companies
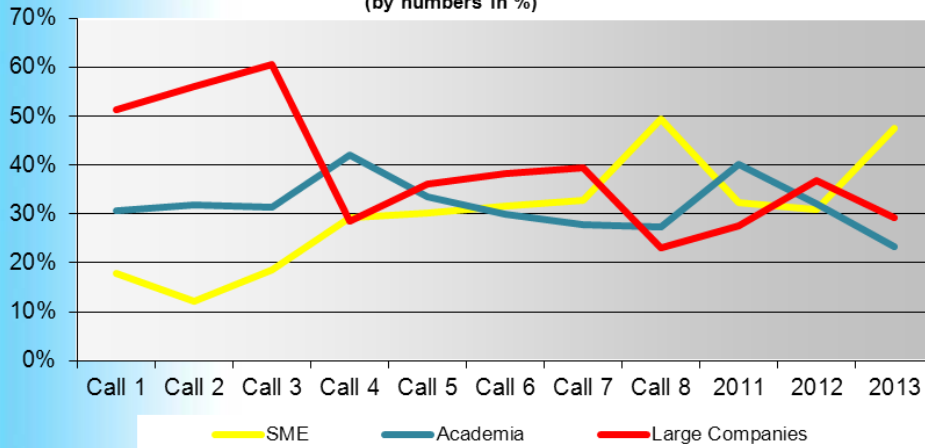
Types of companies
(by budget shares in %)

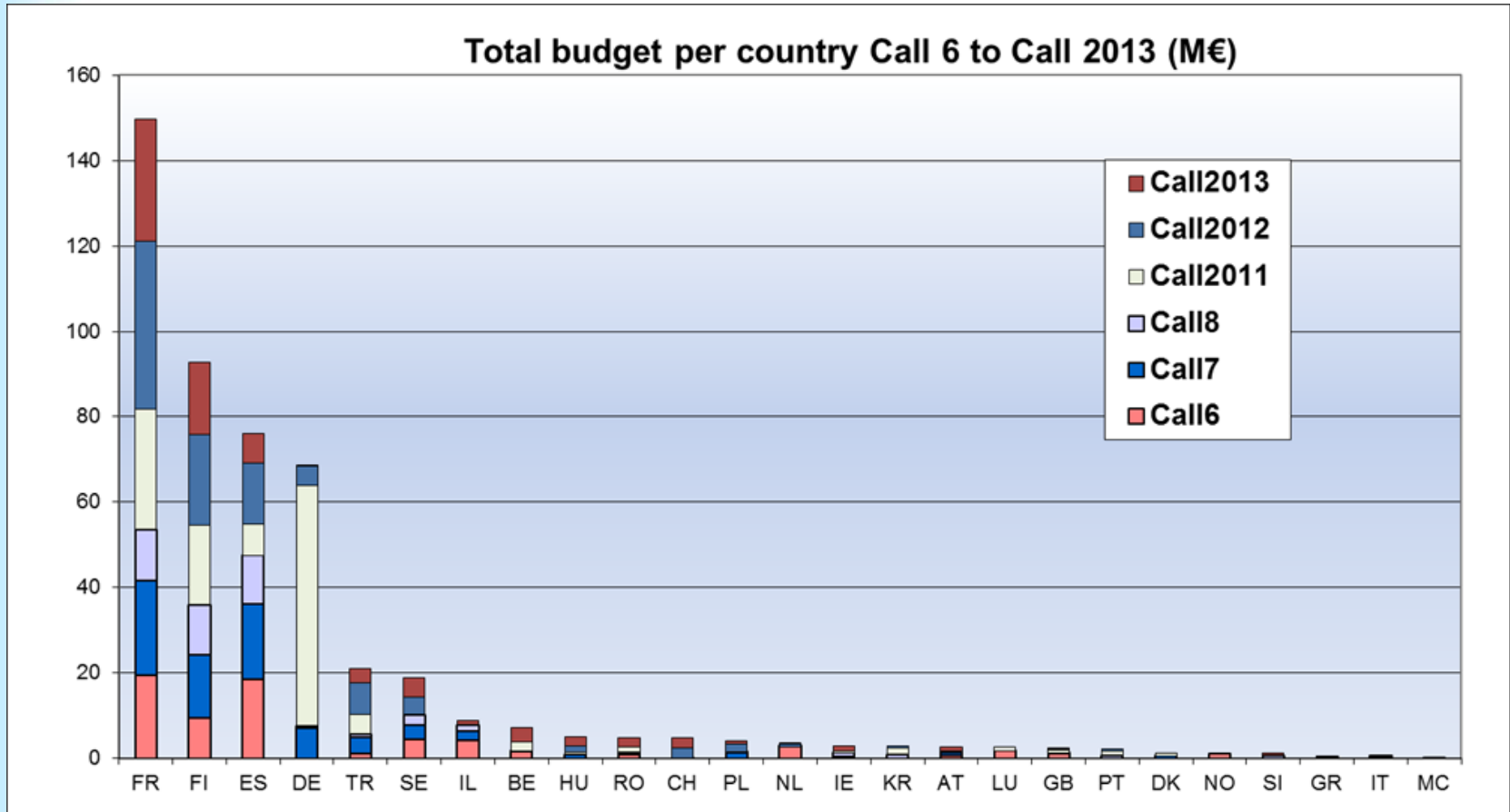— SME — Academia — Large Companies

In 2013:
- **High participation of SME (# of companies)**
- **Increasing budget share of industry**

Country Participation

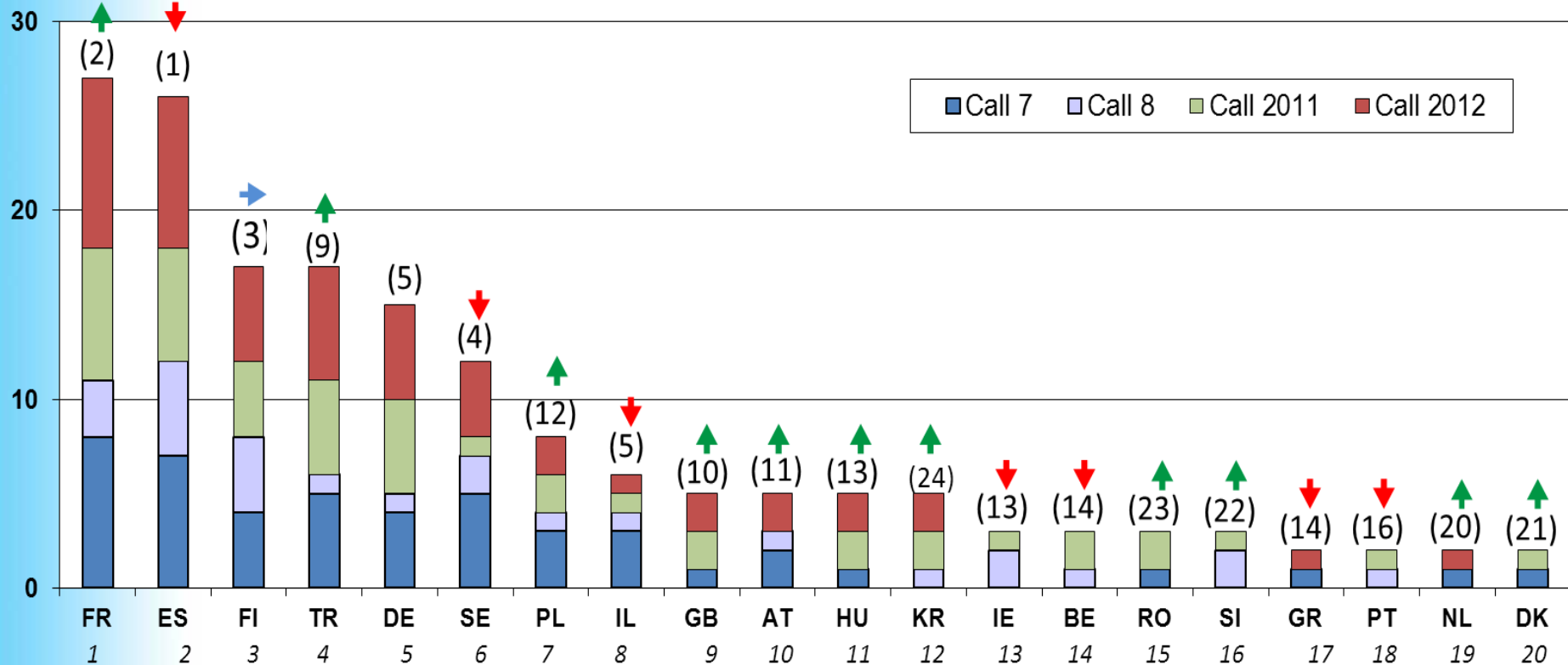Total budget per country Call 6 to Call 2013 (M€)

Budget per country

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

Budget per country

(+/-) = Position changes from CELTIC calls 2003-2010 to CELTC/ Celtic-Plus calls 2009-2012

Legend: ■ Call 7 ■ Call 8 ■ Call 2011 ■ Call 2012

Position changes by country:
- FR (0)
- DE (+2)
- FI (0)
- ES (-3)
- TR (+3)
- SE (-1)
- IL (-1)
- CH (+18)
- PL (+6)
- KR (+14)
- HU (+8)
- SI (+8)
- BE (-6)
- RO (+12)
- PT (+3)
- IE (-5)
- GB (-3)

Participation per country
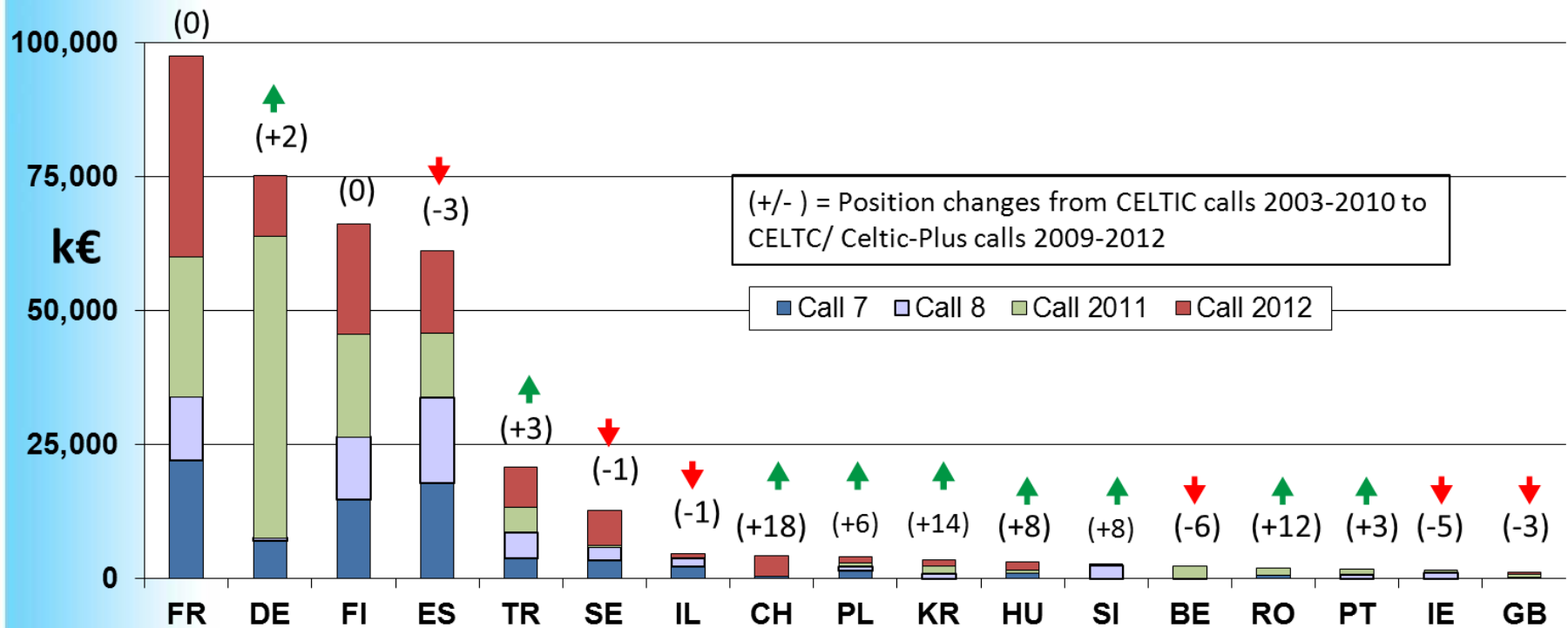
Number of projects per country

www.celticplus.eu