



eltic-Plus⁺

Smart Connected World



Latest News of Celtic-Plus

Celtic-Plus Information Day

Oslo, 3 March 2014

Jacques Magen, Celtic-Plus Chairman





Objectives of the Information Day



- Better understand how to submit a proposal
- Better understand how to get public support
- Meet new partners, exchange ideas, network with other organizations, initiate Celtic-Plus project proposals
 - *Project idea presentations, networking session*

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:**

Alcatel-Lucent

Atos

BT

Orange

Orange

ERICSSON

EURESCOM

gemalto

indra

ITALTEL

NSN

RAD

technicolor

Telefonica

SIEMENS

THALES

TURKCELL
TEKNOLOJİ

TURK
TELE
KOM

Results and Impacts (2003-2013)

Total project budgets	830 M€
Number of projects	117
Number of active project partners	500
New or improved products	560
Prototypes/ field trials	620
Number of standards contributions	760
Return of Investments (RoI): around 50 x (est.)	>25 B€

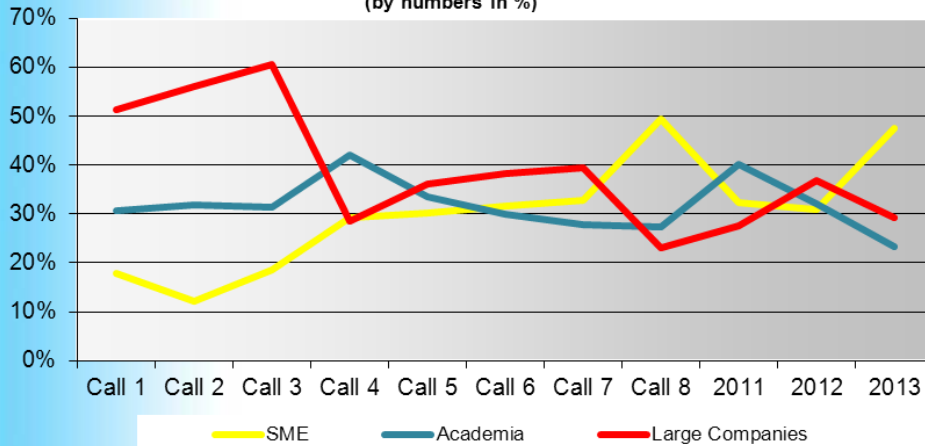
*) figures extrapolated for 81 closed projects on the basis of 40 evaluated project outcomes

Some Achievements

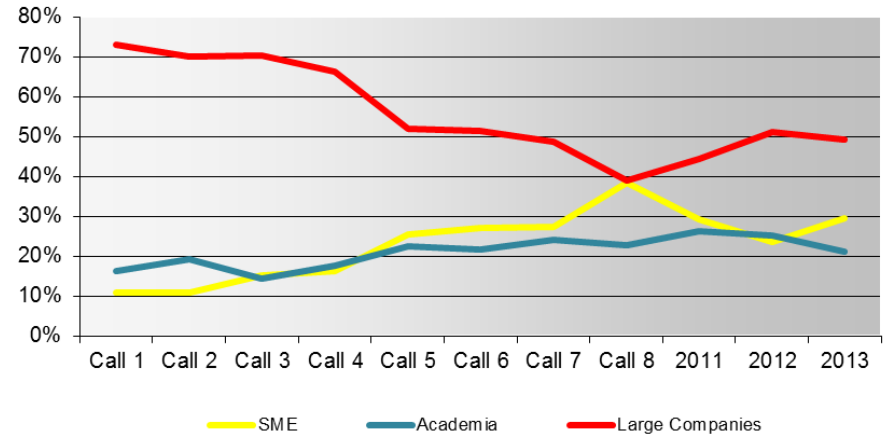


Broadband Optical networks	Broadband mobile networks	Broadband 4G access networks	Security and Public Safety
<p>High-speed optical networks for Future Internet 10 times faster This 65 M€ project has laid the ground for 100 Gb/s optical networks.</p>	<p>Global standards for 4G Technology on LTE-advanced bringing Europe back into the driver's seat for high-speed mobile systems</p>	<p>Initiated new ITU standard (g.fast) for realizing a 1Gb/s hybrid fibre - copper solution for up to 200 m normal copper lines for the last drop to the home.</p>	<p>European Public Safety communications over heterogeneous networks in emergency situations</p>
<p>World class developments on the optical layer and network integration:</p> <ul style="list-style-type: none"> ➤ 21 new products ➤ 15 improvements of existing products 	<p>59 contributions to 4G mobile communication standardisation, paving the way to roll-out LTE-Advanced.</p>	<p>The new ITU g.fast standard is likely to become the successor of x-DSL wherever it's too expensive to install fibres.</p> <ul style="list-style-type: none"> ➤ g.fast standard 87 out of 250 contributions 	<p>Platform that combines 6 different wireless technologies including satellite:</p> <ul style="list-style-type: none"> ➤ 8 new products ➤ 8 improvements of existing products

Types of companies
(by numbers in %)



Types of companies
(by budget shares in %)



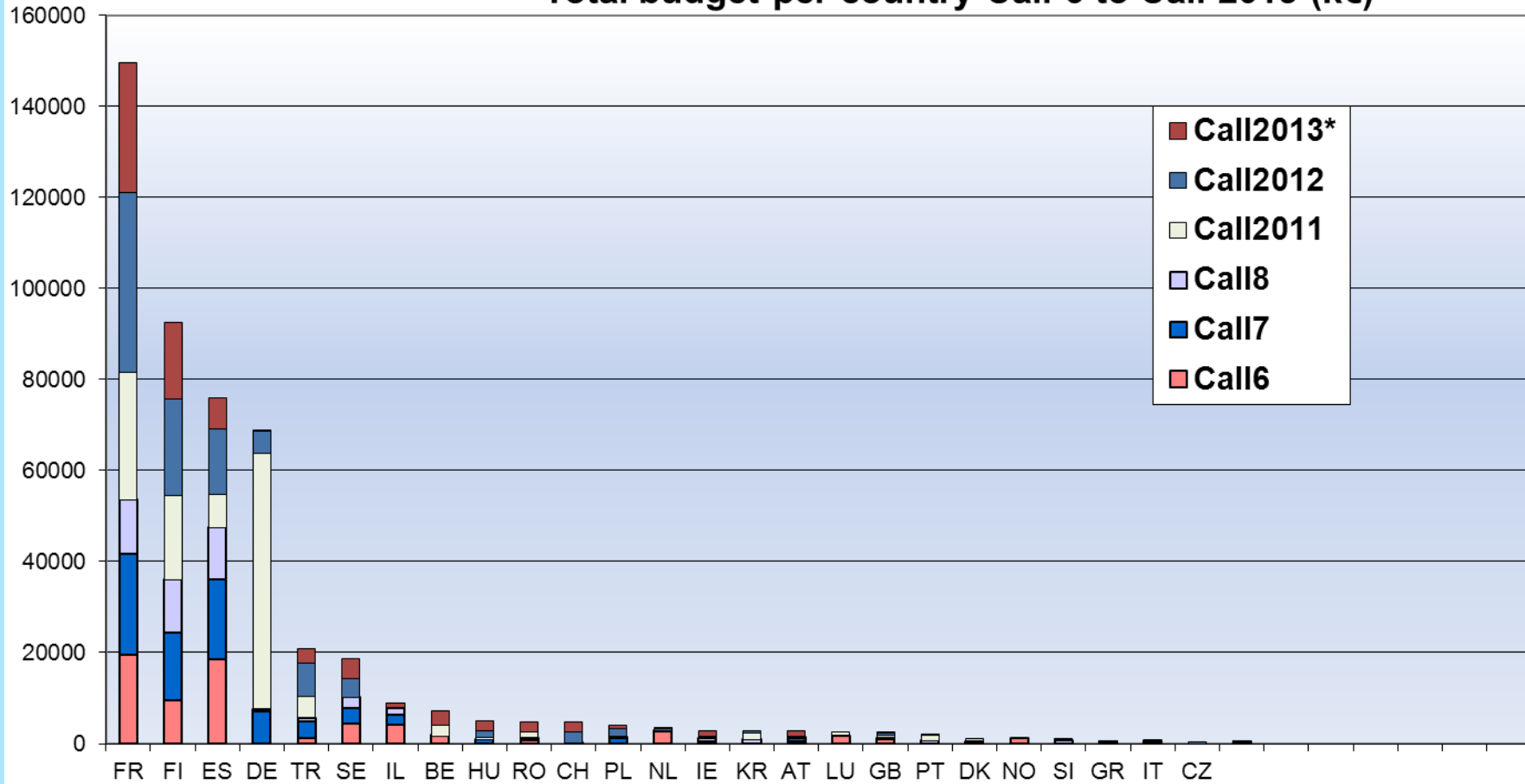
In 2013:

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



Country Participation

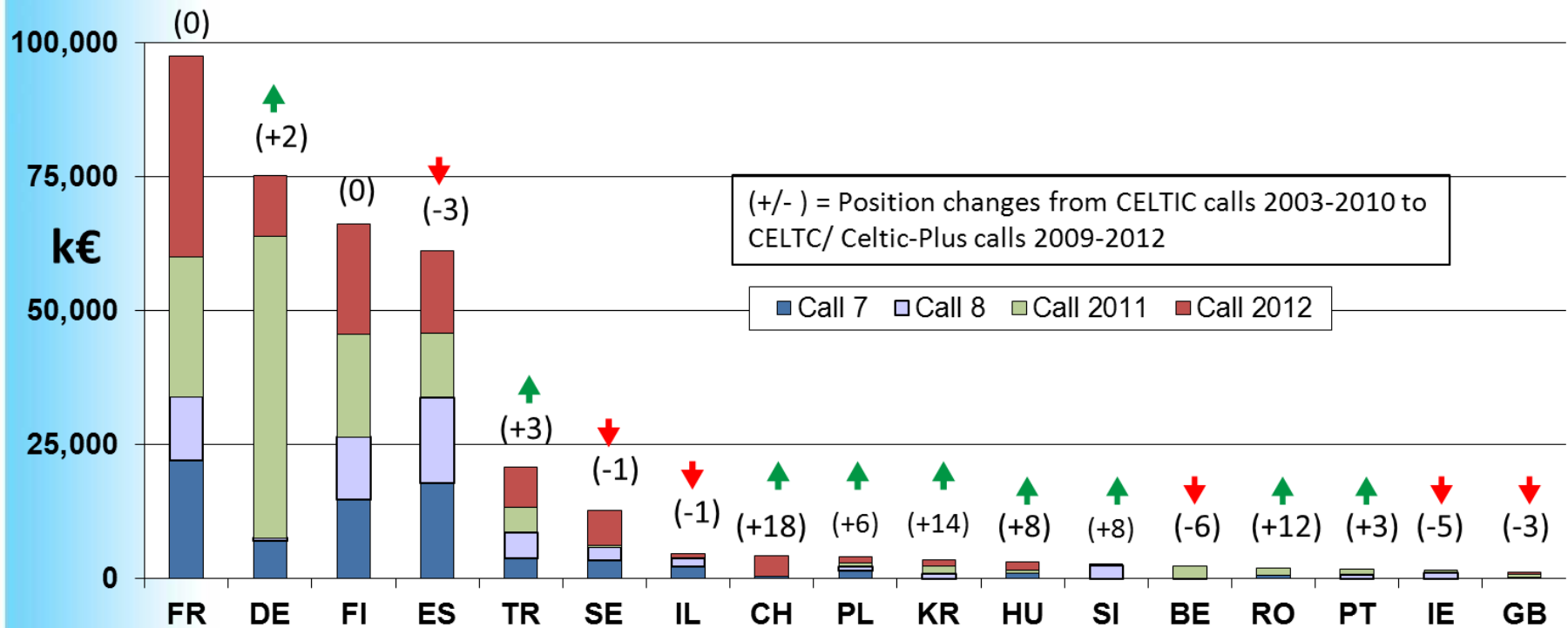
Total budget per country Call 6 to Call 2013 (k€)



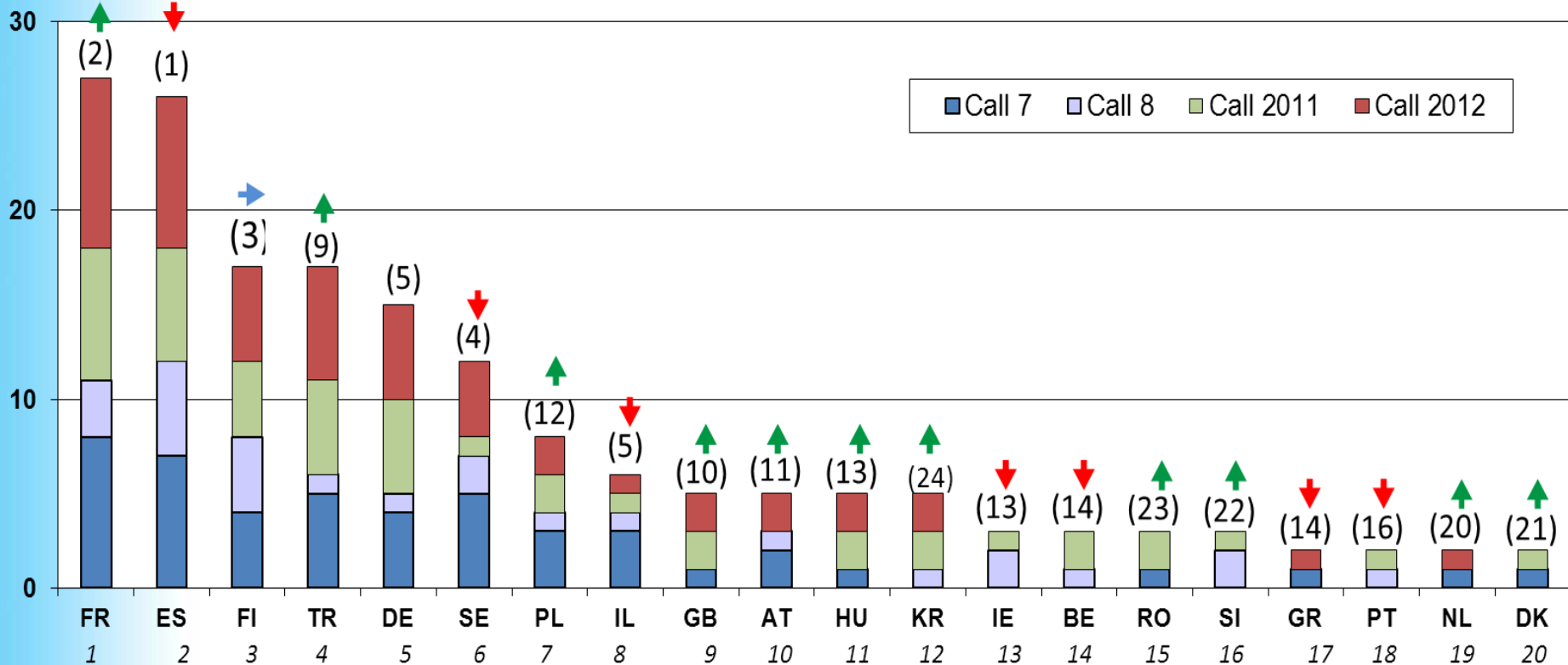
Budget per country

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

Budget per country



Number of projects per country



- Norway participated in Celtic so far in 8 projects with 13 organisations and a total budget of 10.7 M€
- Latest projects:
- **MARCH** (Multilink Architecture for Multiplay Services)
 - 2008-2011;
 - Total budget 7 M€,
 - project leader Terje Tjelta (Telenor)
- **R2D2** (Road to media-aware user-Dependant self-aDaptive)
 - 2009-2012
 - Total budget: 4.6 M€; 53 PY
 - Norway participants: SINTEF and UNINETT

Main Research Areas

Smart Connected World

Get Connected

Network and
Platforms

Services &
Network
Management

Business
Support
Systems

While Connected

Multimedia

End-User
Services

The network foundation



No satisfactory solution currently exists to commonly address all challenges of the Internet

Get Connected

While Connected

Future services

“Smart Cities”

Digital Citizen

Digital Identity

Digital School

Digital Home

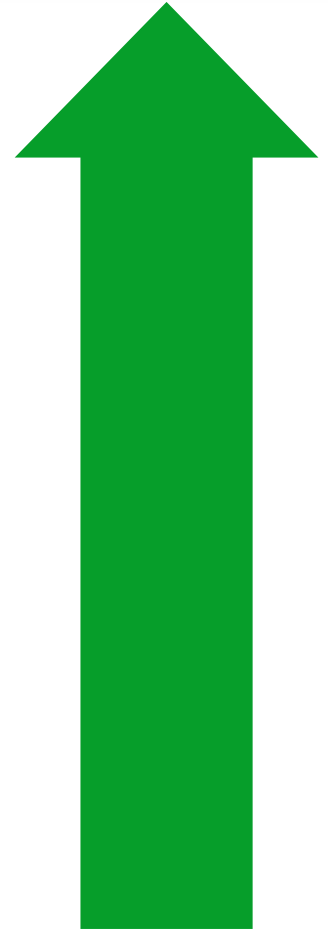
Digital Car

Digital Transport

Digital Enterprise

Future Interfaces

- **Energy Savings **in** telecoms:**
 - Networks fixed/ mobile (less Watt/ bit)
 - Services (less computing/ transport needs)
- **Energy Savings **through** telecoms:**
 - Energy management (via telecoms) for:
 - Households, companies, energy providers
 - **Smart Grids** (intelligent energy networks)



Celtic OperaNet2 project (running):

France Finland Belgium & UK, Budget 8 M€



- The OPERA-Net 2 project aims to reduce the overall environmental impact of mobile radio networks.
- The project adopts an end-to-end approach for both 3G and 4G wireless networks, identifying all relevant network elements and their interdependencies.
- improvements especially for energy and material efficiency in the radio base transceiver station (BTS).

ICT in health sector

- Telemedicine: Celtic HD-Viper project (finished):



- Open HD videoconferencing platform; better medical coverage
- Now commercial 480 M€ project in Sweden.

- Telemedicine Service oriented platform:

Celtic Hipermed project (finished):



- Consortium with expertise from ICT and medical sides; hospital involved; plans to establish a Network of Hospitals in France.

- Future Internet Paradigm in the Health domain:

Celtic PISCES project (running):



- Use-case for the FI-Ware platform (FI-PPP architecture)



The **Celtic-Plus Use Case Factory**

is a concept for:

- including use cases not covered in FI-PPP
- complementing and broadening FI activities
- Increasing the impact on FI scenarios

Why participate in Celtic-Plus projects?

**Industry-
driven**

**Bottom-
up**

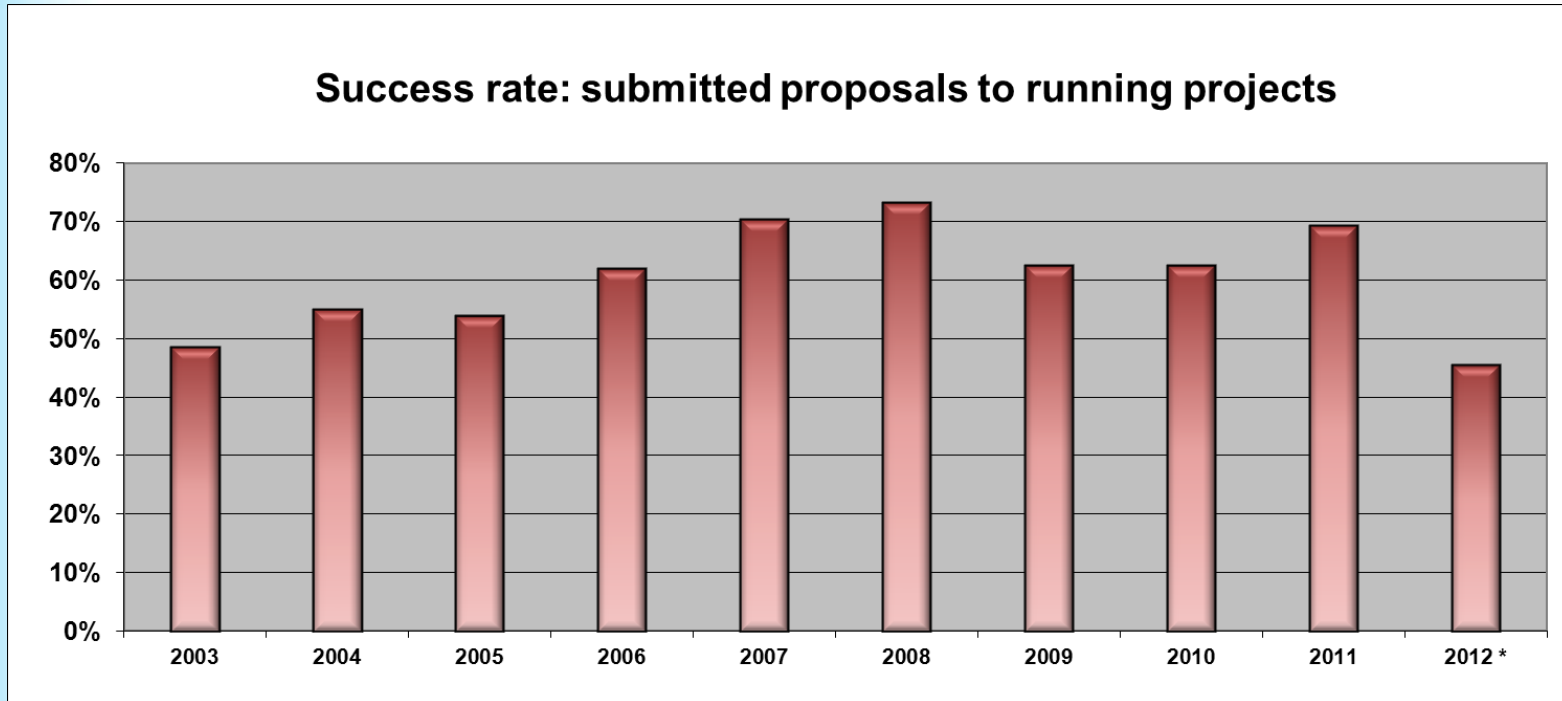
Flexible

**Light
overhead**



Open to international cooperation

Proposal Success Rates



* 2012 set-up in progress

Advices to Proposers (1)

Before considering to write a proposal:

- Consider research items of the [Celtic-Plus Purple Book](#)
 - Main research items should be found there
- Carefully select your project consortium
 - Have all partners the necessary experience and recognition?
 - Are all partners from countries where funding is likely/ possible?
 - Check Celtic PA webpages; contact Celtic Office
 - Are the county involvements sufficiently balanced?
 - No country more than 60% of effort/ budget (at least 2 countries)
- Establish [early contacts](#) with PAs
 - Early checks for eligibility and partner funding can avoid failures
 - Nominate a national leading partner

Advices to Proposers (2)

During/ after proposal writing:

- Cross-check with national research programs
 - Is there sufficient national interest for funding the research topic?
 - Are there recommendations from PA for additional research?
- Explain national benefits expected from project
 - National gain in income, better positioning, new jobs
 - Why should a country fund the project?
- Submit a national funding application parallel to proposal submission
 - In some cases a provisional application may be accepted only
 - At least: try to get some confirmation about proposal submission

Next opportunities



- **Celtic-Plus Event & Proposers' Day, Monaco, 23-24 April 2014**
 - *Co-located with WIMA*



- **SASER Event and Proposers' Day, Berlin, 26-27 June 2014**
 - *Deadline for submission of proposals 15 October 2014*



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www.celticplus.eu

