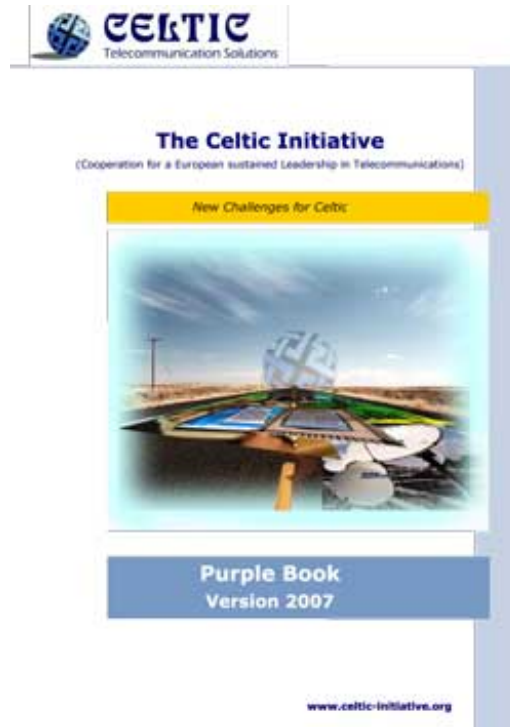




# CELTIC

Telecommunication Solutions

# CELTIC Purple Book



Partners:





## CELTIC overview

- CELTIC is a **Eureka “cluster”**
  - Budget horizon: 1 Billion Euro over 7 years
  - Projects are jointly funded though public grants and private investment
- CELTIC is working on pre-competitive, collaborative R&D
  - Not on industrial (marketable) product development
- **Focus is on integrated (full) system solutions in telecommunications**
  - End-to-end solutions approach
  - Including also at basic technologies and sub-systems/ components



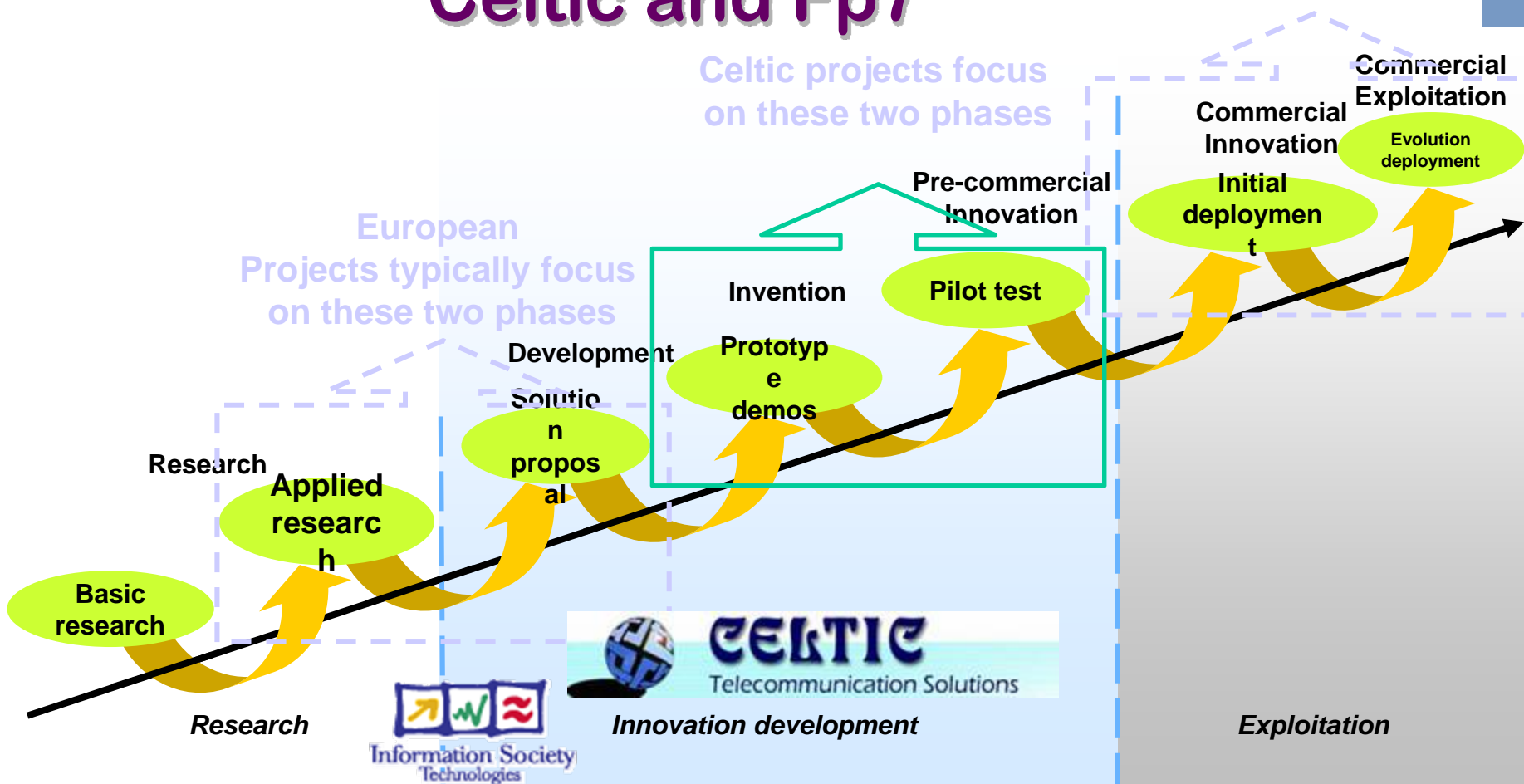


**CELTIC**

Telecommunication Solutions



# Celtic and Fp7





# CELTIC

Telecommunication Solutions

# The Celtic Guide



Service  
Applic

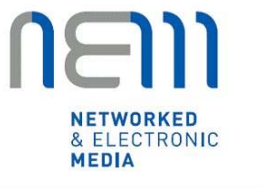


Service p

Moving to  
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Lots of  
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## CELTIC

Telecommunication Solutions

### The Celtic Initiative

(Cooperation for a European sustained Leadership in Telecommunications)

New Challenges for Celtic



Purple Book  
Version 2007

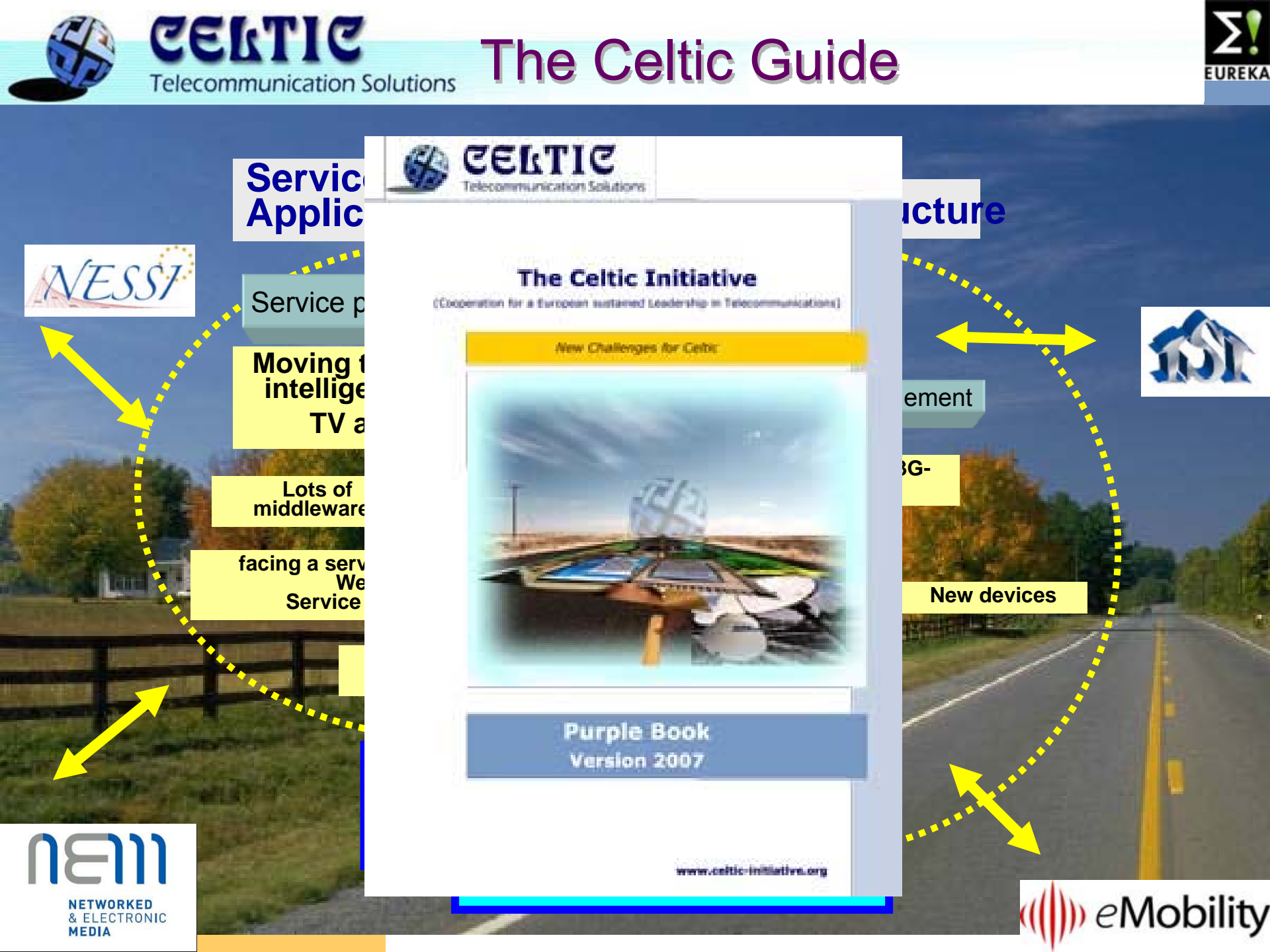
[www.celtic-initiative.org](http://www.celtic-initiative.org)

Structure

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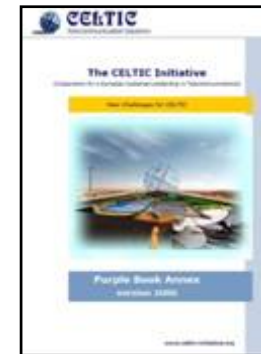
3G-

New devices



# References for possible work items

- **CELTIC Purple Book**
  - Part 2 (version 2)
  - Annex 2 New challenges
- **NEM Strategic Research Agenda**
  - e.g. Content related issues, gaming
- **eMobility SRA**
  - e.g. Ubiquitous services, mobile broadcast
- **NESSI SRA**
  - e.g. Telecommunications SW platforms
- **ISI SRA**



## Multicluster projects?

security, media, health and energy efficiency are not restricted to the telecom sector.



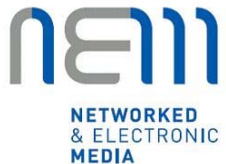




## Route 1: New multimedia services



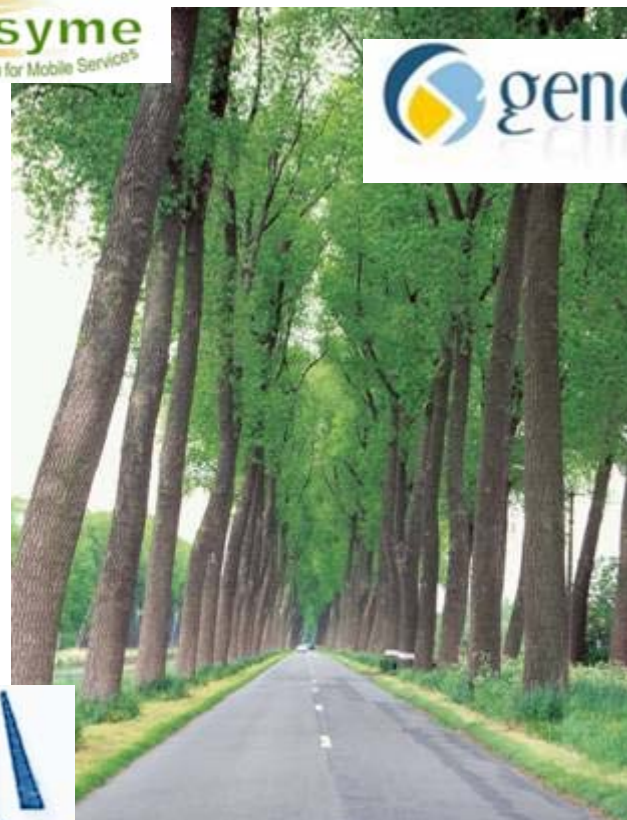
- Video and advanced teleconferencing are the main propositions... personalization is the buzz word. IMS struggling to find a place
- Broadcasting is looking for a new future
- Home networking becomes a new service area
- NEM ETP is working towards new services





## Essential element: Platforms for service delivery

- Open platforms for easy service delivery
  - Open platforms for mobile users and Web services
  - SME specific
  - Evolving to P2P
- But...in the future we have to look into...
  - Role of Open SW
  - Autonomic computing
  - Agent technologies
- NESSI platform offers new architectural solutions







## Route 2: Solving the infrastructure dilemma

- Access is the most important asset of Telecom operators
- However, regulations are causing the “infrastructure dilemma”
- Reuse and low cost solutions are basic elements

Optronet



BANITS





## Essential element: Mobile integration

- The old way of mobile deployment is not enough for broadband support
- WiMax and LTE are the main contenders
- New alternatives based on DVB
- ISI and eMobility platforms assure the connection to the FW 7



Gandalf

WiSQUAS



## Essential element: Network management.



- NGN and video distribution are putting new challenges to the IP network
- Assuring end-to-end quality
- New traffic measurements and models are also needed
- Autonomic computing is one way to give new value to the network





## Route 3: Security is taken for granted

- In spite of powerful OMA and Liberty concepts, security is still seen as a need
- Liberty platform is one of the key example for future development



DRMSolution Next Generation



# FIDELITY

Federated Identity Management based on LIBERTY





## Route 4: Looking to the customer

- Celtic is about services and integration to the customer
- A careful market analysis is needed
- Future of digital TV (broadcasting) is one of the big questions







## Is there life beyond conventional networks?

- Networks for emergencies
- Specific solutions for some places
- ...are telecoms becoming an utility or rather a “do-it-yourself”
- Can we reuse our concepts elsewhere?





Future Internet ETP group

## Route 2: Solving infrastructure dilemma



## Route 4: Looking to the customer

people



services

## Route 1: New multimedia services

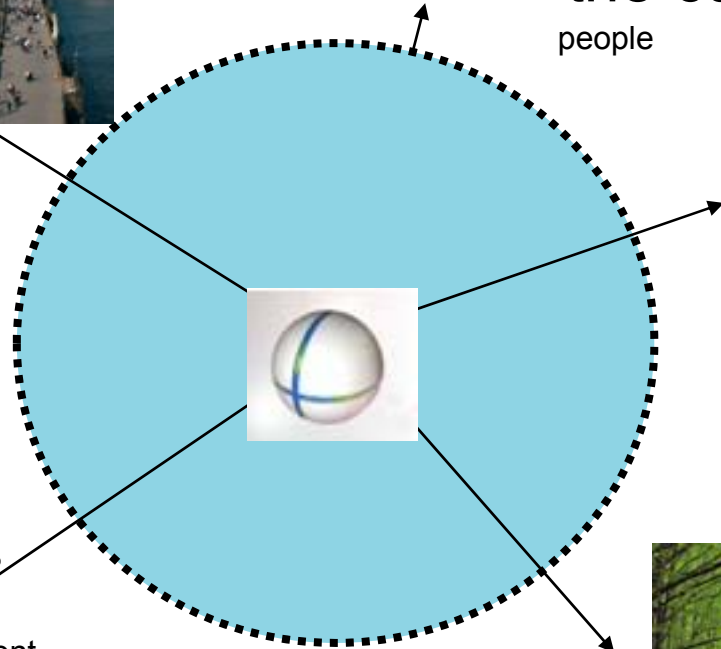
content



Things

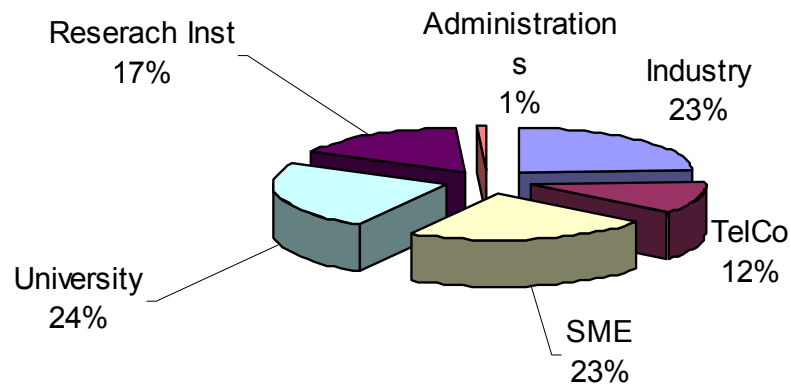
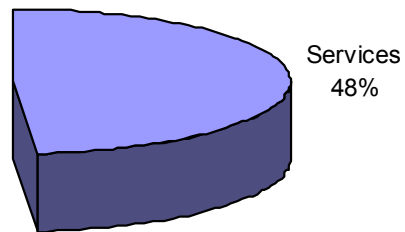
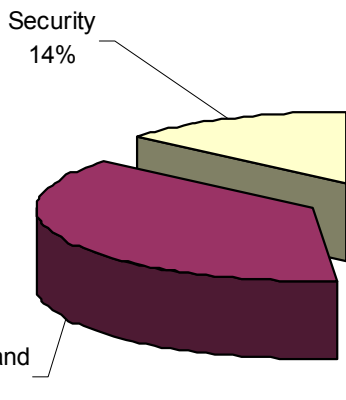


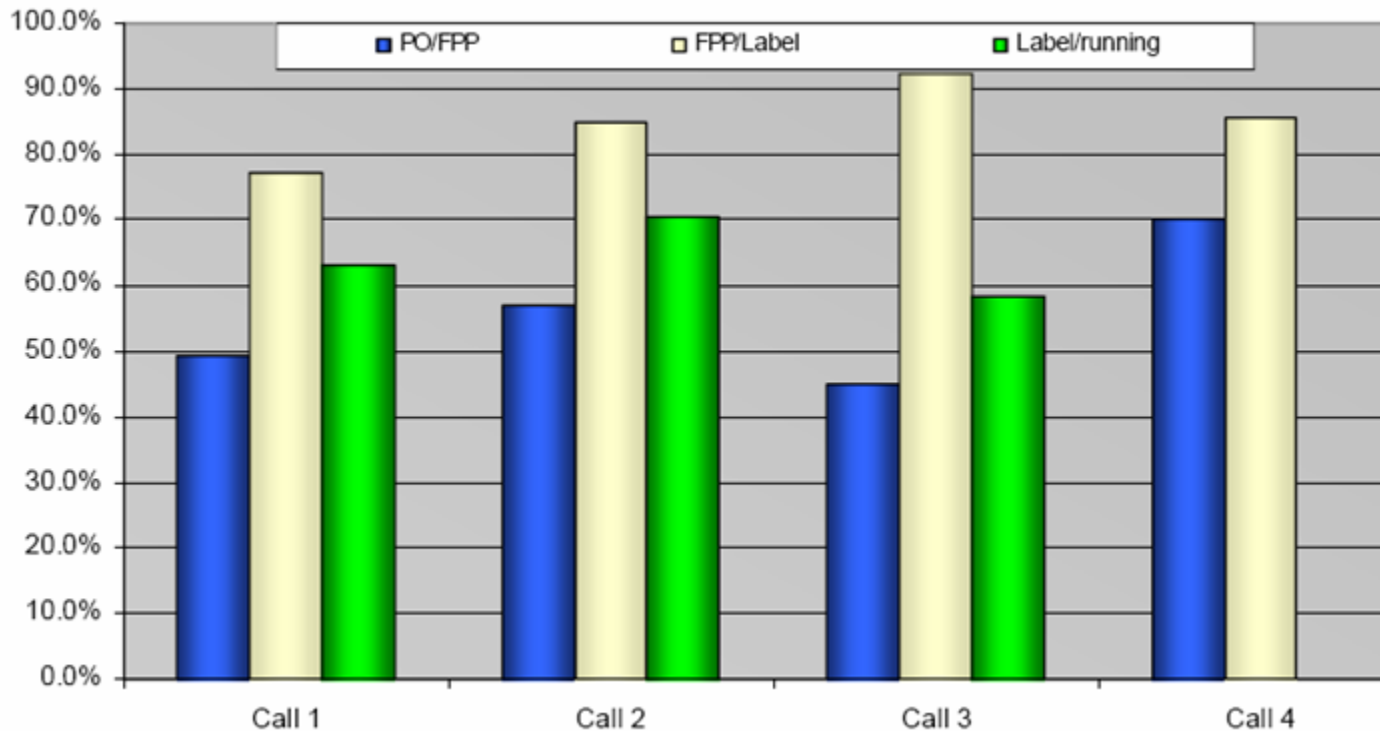
networks





# Some Statistics





The success rate for a labelled proposal to become a running project is between 60% and 70%



# Thank you

More information: [www.celtic-initiative.org](http://www.celtic-initiative.org)



The screenshot shows the CELTIC website interface. At the top, there is a navigation menu with links: About CELTIC, Public Funding, Project Calls, Projects, Publications, Events, and Log-in. The main heading reads "Celtic - Telecommunication Solutions For European Leadership in Telecommunications". Below this, a paragraph describes CELTIC as an EUREKA cluster and the only European R&D programme in ICT fully dedicated to end-to-end telecommunication solutions. A search bar is located to the right of the text. The page is divided into two columns. The left column features a "Latest News" section with a sub-heading "Six projects received the Celtic Excellence Award" and a "Press release" link. Below this is another news item titled "More bandwidth and security for the Internet" with a "Press release" link. The right column features a "Calls and Events" section with a sub-heading "Celtic Call 6 for Proposal Outline (PO) is closed!" and a submission deadline of 25 April 2008. Below this is another news item titled "CELTIC Information Day on Call 6" with a link to presentations. At the bottom of the right column is a section titled "Celtic Event 2008" with a link to presentations. The browser's address bar shows "Internet" and the zoom level is set to 100%.