







CHIST-ERA

European Coordinated Research on Long term Challenges in Information and Communication Sciences & Technologies ERA-Net

Barcelona, 17 June 2011









Intro

- National research funding organisations willing to build
 - □ Common framework for joint research activities
 - Sustainable cooperation
- Scope: Long-term transformative research in challenging multidisciplinary research in the area of Information Communication Science and Technologies with potential high impact
- Focus on structuring effects:
 - Excellence
 - Multidisciplinary call
 - Novelty
 - clearly identifiable
 - not incremental research
 - but new idea



FUNDING OPPORTUNITIES from the













Origin and future

- First pre-defined topic: QIFT
- 9 funding organizations:
 - France (ANR)
 - United Kingdom (EPSRC)
 - Italy (MIUR)
 - □ Spain (MICINN)
 - ☐ Germany (BMBF / PT-DLR)
 - □ Ireland (IRCSET)
 - Austria (FWF)
 - □ Poland (NCBiR)
 - Switzerland (SNSF)

- New members
 - □ Belgium (FNRS)
 - □ Turkey (TUBITAK)

- New call 2011
- WP 2011-2012
 - CHIST-ERA II (Objective 2011.9.12)
 - Quantum ICT ERA-NET+ (Objective 2011 9.9)









First call (2010)

- Austria (FWF)
- Spain (MICINN)
- France (ANR)
- Poland (NCBiR)
- United Kingdom (EPSRC)
- Switzerland (SNSF)

Only QIFT:

- Germany (BMBF)
- Belgium (FNRS)
- Italy (MIUR)

BASCC

- Beyond Autonomic Systems– the Challenge of Consciousness
- 4 M€

QIFT

- Quantum Information Foundations and Technologies
- 8M€







chist-era

Submission, Evaluation and Funding

- Submission of Common to Common Call Secretariat via ESS
- Evaluation by International Evaluation Pannel (+Remote Experts)
- Communication of the evaluation results to the applicants
- Submission of national application forms to national funding organization (only recommended projects)
- Communication of funding decision to the applicants
- Projects start

More info at http://www.chistera.eu/call-2010







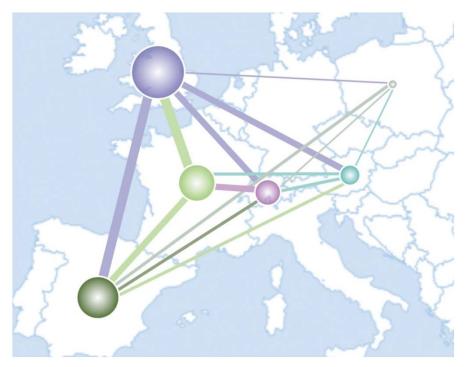


First call - proposals

- BASCC
 - □ 10 proposals
 - □ 13 M€ requested

QIFT

- □ 21 proposals
- □ 27 M€ requested











First call – Recommended for funding



Acronym	Title	Coordinator	Countries
ACE	Autonomic Software Engineering for online cultural experiences	Carles SIERRA	Es, Fr, Uk
PNEUMA	Plasticity in NEUral Memristive Architectures	Themis PRODROMAKIS	At, Ch, Es, Fr, Uk
CQC	Composing Quantum Channels	Michael M. WOLF	Ch, De , Es
DIQIP	Device-Independent Quantum Information Processing	Antonio ACIN	Be, Ch, Es , Fr, Uk
HIPERCOM	High Performance Coherent Quantum Communications	Nicolas J. CERF	Be , De, Fr, UK
QINVC	Quantum Information with NV Centres	Daniel ESTEVE	De, Fr , UK
QScale	Quantum technologies for extending the range of quantum communications	Julien LAURAT	Ch, De, Es, Fr, It
QUASAR	Quantum States: Analysis and Realizations	Harald WEINFURTER	At, De , Es, It, Pl
R-ION	Rydberg excited Calcium Ions for Quantum Interactions	Igor LESANOVSKY	At, De, Uk
SSQN	The Solid-State Quantum Network	John RARITY	De, Fr, Uk







Second call (2011)

- Two topics:
 - □ D2K

From Data to New Knowledge

□ G-ICT

Green ICT, towards Zero Power ICT

- Call scope definition (Strategic conference): September 2011
- Call announcement: Q4 2011

- Long-term transformative research:
 - ☐ Far from the existing knowledge and technology
 - High potential impact for future EU industry and competitiveness
 - Different disciplines to investigate unknown fields
 - Existence of scientific communities
 - Critical mass at European level
 - Complements and /or leverages the FET ICT calls
 - Very competitive evolving area which needs reactivity
 - Existence of national priority









Keywords (first draft)

- D2K: From Data to New Knowledge
 - ☐ High level inferences
 - □ Script knowledge extraction
 - Multi-scale data abstraction
 - Massive data processing
 - Machine reading

- G-ICT: Green ICT, towards Zero Power ICT
 - □ Low consumption devices
 - New processor dessign
 - New computing dessign
 - Energy efficient system architecture
 - Energy harvesting

More examples at http://www.chistera.eu/call-2011







Strategic Conference

Objective: Second call scope definition

Place: Cork (Ireland)

■ Date: 5-6 September 2011

Audience: Academia, Industry, Funding organizations

Sign up - Call 2011 Mailing List

http://www.chistera.eu/sign-call-2011-mailing-list







¡¡Thank you!!

Javier Rodríguez Fonollosa (<u>javier.fonollosa@upc.edu</u>) Rubén Martínez González (<u>ruben.martinez@micinn.es</u>)

T: 0034 916 037 252 Ministerio de Ciencia e Innovacion Calle Albacete 5, 28071 Madrid

More info: http://www.micinn.es

