

Objective ICT-2013.1.1
ICT Call 11

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ICT Call for Proposals 11

- Call identifier: FP7-ICT-2013-11
- Date of publication: 18 September 2012
- Deadline: 16 April 2013, at 17:00.00 Brussels local time
- Indicative budget: EUR 236.5 million





Challenge 1: Pervasive and Trusted Network and Service Infrastructures

- 1.1: Future Networks Call 11
- 1.2: Software Engineering, Services and Cloud Computing
- 1.3: Digital Enterprise
- 1.4: A reliable, smart and secure Internet of things for Smart Cities
- 1.5: trustworthy ICT
- 1.6: Connected and Social Media
- 1.7: Future Internet research Experimentation (FIRE)
- 1.8: Expansion of use Cases
- 1.9: Technology Foundation Extension and Usage





Future Networks Target Outcomes

- a) Next generation heterogeneous <u>wireless and mobile</u> <u>broadband</u> systems, based on flexible spectrum usage and reduced EMF and interference. (IP, STREP)
- b) High throughput low-latency infrastructures, based on dynamic <u>all-optical networks</u> and hybrid <u>wireless and cable</u> networks. (IP, STREP)
- c) Internet architectures enabling innovation in <u>network</u> <u>virtualization</u>, specifically through <u>programmability</u> of network functions and protocols. (IP, STREP)
- d) Tighter integration of <u>satellite and terrestrial</u> communications technologies, as a critical infrastructure, in particular for public safety/security applications. (IP, STREP)
- e) Coordination and support actions for (re)structuring the research effort in the sector. (CSA)





Future Networks Expected Impact

- Developing key enabling technologies for the future generations of the European high-speed broadband and mobile network infrastructure (factor of 10 overall capacity increase, plus factor of 10 radio efficiency increase).
- Improved flexibility and economic, spectral and energy efficiency of access/transport infrastructures (factor of 4 reduction in watts/bit).
- Strengthened positioning of European industry in the fields of Future Internet technologies, mobile and wireless broadband systems, optical networks, and network management technologies.
- Contributions to standards and regulation as well as the related IPR.
- Adoption by network operators of integrated all-optical networks and of spectrum flexible broadband wireless systems (by 2020).





Future Networks Indicative budget distribution

Targets a, b, c, d

IP/STREP: EUR <u>46.5 million</u>, of which a minimum of 50% to IPs and 30% to STREPs

Target e

CSA: EUR 2 million

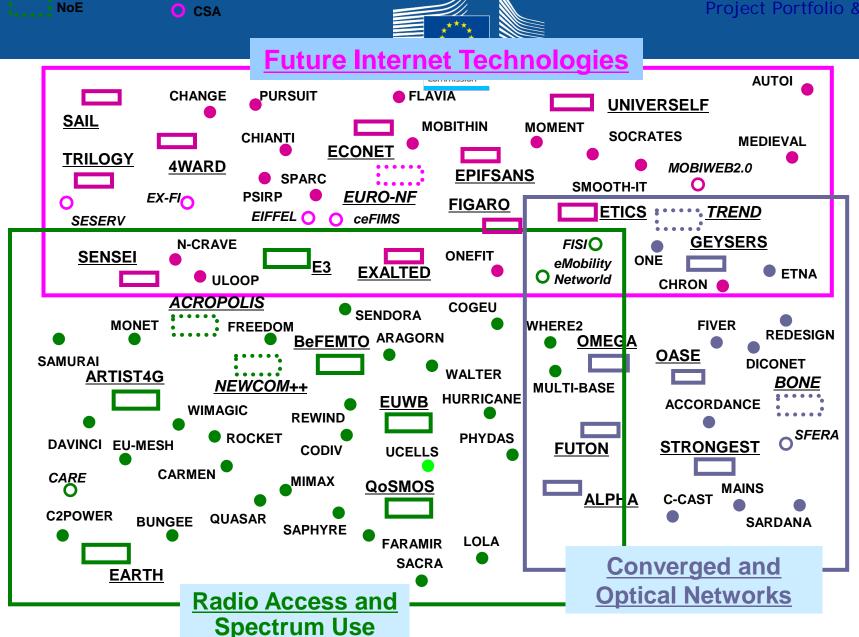




What are we looking for

- Highly innovative proposals addressing topics partially covered in previous calls; e.g.: hybrid wireless and cable networks; novel internet architectures; software defined networks; network virtualization; integration satellite/terrestrial technologies
- Proposals (CSA) preparing the research community for H2020: take-up, innovation





STREP



Project portfolio - Call 8: 37 proposals retained (under negotiation)

- Wireless and mobile broadband systems: 5GNOW, ABSOLUTE, CROWD, DIWINE, DUPLO, E3Networks, EMPHATIC, iJOIN, HARP, LEXNET, METIS, Mobile Cloud Network, MOTO, PHYLAWS, SEMAFOUR, TROPIC
- High capacity end-to-end infrastructures technologies: *coconut*, *combo*, *content*, *discus*, *fox-c*, *idealist*, *lightness*, *sodales*
- Novel Internet architectures, management and operation frameworks: eCOUSIN, FUSION, LEONE, METIS, Mobile Cloud Network, mPLANE, RITE, SmartenIT, Trilogy 2
- Flexible, resilient, broadband and integrated satellite communication: *ABSOLUTE*, *BATS*, *CoRaSat*
- Coordination and Support Actions and Networks of Excellence: CRS-I, NetSoc, NEWCOM#, FLAMINGO

More info on the above projects *(end of Oct.'12)*: http://cordis.europa.eu/fp7/ict/future-networks/projects en.html



Relevant European Technology Platforms (ETPs):

 Net!Works: communications networks and services; players of the communications networks sector: industry leaders, innovative SMEs, and leading academic institutions.

http://www.networks-etp.eu/about-networks.html

 The Integral Satcom Initiative (ISI): Satellite Communications; embraces major part of relevant private and public stakeholders from Satellite Communications (SatCom) and Space sector in Europe.

http://www.isi-initiative.org/

 Photonics21. The platform represents photonics research priorities at European level and aims to implement a common photonics strategy for Europe and to align synergies between industry, science and policy. http://www.photonics21.org/





Prospects of this area in H2020

- **Bridge to H2020:** through the CSAs (e.g. uptake of integrated all-optical networks and spectrum-flexible broadband systems, innovation, standardization)
- Coverage of the objective in H2020: ICT R&I is part of the priority "Industrial Leadership". ICT R&I includes Future Internet (Infrastructures, technologies and services)
- On-going public consultations: Open workshop 29/6/2012 Future Networks: Consultation on Future Network Technologies Research and Innovation in HORIZON2020
 - http://ec.europa.eu/information_society/events/future_networks/concertation/horizo n2020-stakeholder-consultation/index_en.htm#_ftn1





Additional information

Future Networks on CORDIS:

http://cordis.europa.eu/fp7/ict/future-networks/home_en.html

Future Networks - Call 8:

Integrated Project Portfolio Analysis Trends Summary
http://cordis.europa.eu/fp7/ict/future-networks/documents/call8-trends.pdf

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