

5G PPP

Awareness/Information Day



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Fondazione Ugo Bordoni

28 May 2014, Bruxelles



Fondazione Ugo Bordoni: Entity Profile

- ❑ **FUB is a not-for-profit research institute** under the supervision of the Italian Ministry of Economic Development. FUB promotes **scientific progress** and **technological innovation** by performing and supporting research, innovation and consultancy in telecommunications, information technology, electronics and multimedia services in general.
- ❑ The main **activity areas** are the following:
 - ❑ **Research:** wireless and mobile radio systems, QoS and QoE, ICT security, sensor networks, cognitive radio, white space devices, Internet and Web 2.0, information and data mining, NGN, multimedia content processing, digital TV, critical infrastructures, e-inclusion, ICT for energy, Cloud Computing.
 - ❑ **Innovation Policies:** innovation policies for the TLC industry in partnership with national and international organisations; support to institutional bodies on technical, macro-economical, legal, and regulatory issues.
 - ❑ **Consultancy:** to the Government, the Parliament, the Regulators, Public Institutions, R/L PAs in nation-wide technological innovation processes (i.e. digital TV, the digital switchover, frequency management and planning, broadband deployment policies, broadband access quality assessment, validation of ICT security policies, speaker recognition for forensic applications, QoS for SaaS Cloud applications for UNI SLAs).

FUB Ongoing European Activities

Networks

Activities

Projects

ACRONYM	PROPOSAL FULL TITLE	WEBSITE
RES4MED	Renewable Energy solutions for the Mediterranean	www.res4med.eu
Joint Programme EERA	Smart Cities within the European Energy Research Alliance	http://www.eera-set.eu/index.php?index=30
NET-EUCEN	Network of European stakeholder to enhance user centricity in e-governance	www.net-eucen.org/
International Regulatory Bodies	CEPT, ECC, ITU <ul style="list-style-type: none"> •Participation to and coordination of relevant study groups •Participation to World Radiocommunication Conferences (WRC) and other main events as representative of Italy 	www.cept.org www.cept.org/ecc www.itu.int www.itu.int/en/ITU-R/conferences/wrc/2015/
COST	European Cooperation in Science and Technology: COST IC1004, COST ISO605, COST IC1003	www.cost.eu
EDISON	Energy Distribution Infrastructure for Ssl Operative Networks (CIP ICT PSP)	www.project-edison.eu/
CUMULUS	Certification infrastructure for multi-layer cloud services (FP7 ICT-2012)	www.cumulus-project.eu
mPlane	Intelligent monitoring plane to enable future Internet application management (FP7 ICT-2012)	www.ict-mplane.eu/

FUB 5G Interests

- ❑ **FUB** offers its expertise in the following topics:
- ❑ **Topic P1 (Strand1)**
 - ❑ **Interference, mobility and spectrum management**
 - ❑ **Innovative spectrum usage concepts**
 - ❑ **Cognitive radio** (see also P11)
 - ❑ **Coexistence and compatibility analyses**
 - ❑ Exploitation of **new frequency bands** (mm-wave, Visible Light Communications, etc.)
 - ❑ **Measurement campaigns for QoS mobile internet access evaluation** over the national territory
- ❑ **Topic P11 (Strand3)**
 - ❑ **Cognitive functions** applied to mobile networks in real radio and traffic environments.
 - ❑ **Simulation/emulation of 3G/4G networks** propagation conditions
 - ❑ **Network management architecture**
- ❑ **Topic P12 (Strand3)**
 - ❑ **QoS techniques** development at both protocol levels: network and application level
 - ❑ **M2M communication protocol** investigation to satisfy the required power/QoS trade-off for different M2M applications
 - ❑ **Cloud Computing** QoS for SaaS Cloud applications to define UNI to exchange traffic according to predefined SLAs

Contact Details

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Thank you for your attention!