

Wrocław Research Center EIT+

Potential Collaboration and Project Idea

SPEAKER's Corner:
ICT Call 5 and the potential of an enlarged Europe

01.07.2009

Project-Idea



- **WHAT:** The project is targeting novel network architectures for Future Internet including the aspects of cognitive radio for dynamic reconfigurability of network nodes
- **Objective:** Objective 1.1 – Future Networks
- **WHY:** Need to provide novel architecture solutions for heterogeneous networks comprising a multitude of nodes that have different connectivity interfaces, both wireless and wired and operate in a dynamic environment in an autonomous way

Project-Idea

- **How: Scientific and technological objectives of your project** FFG
(list some of the S/T objectives you plan to have in your project)

- Develop novel network architectures – taking into account a large number of cooperating nodes and working with different access technologies, encompassing short range radio (UWB, WiFi) and cellular networks (femto-cells)
- Develop novel control protocols – solving the bottleneck problem of control data overhead in networks composed of a large number of cooperating nodes
- Develop novel cognitive engines – incorporate intelligence and context-awareness into the network communication process – optimization of control data flow and resource distribution
- Build a demonstrator
- Project Result 1: A demonstrator showcasing developed solutions for a practical application scenario – define usage scenarios focusing on indoor office environments – build an integrated communication platform
- Project Result 2: Standardization contributions

Looking for...



- **Competences & Skills wanted**
Technical, Design
- **Types of partners sought**
Industry, SME
- **Work to be performed**
Prototyping, Programming, System Integration

Skills of the proposer



- **Wroclaw Research Centre EIT+ (WCB) is a new, highly innovative research institute focused on applied research and generation of IPR in the area of ICT technologies including Self-X mobile networks, cognitive radio and networks and reconfigurable optical networks.**
- **WCB obtained 200M Euros start-up funding, employs international team and aims at perfecting R&D close to industry needs.**

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