

# Challenges in Commercialization of Cognitive Radio Technologies

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Cognitive radios are emerging as a strong technological and regulatory opportunity. Research and development is being promoted rapidly throughout the wireless industry and in the academic research arena. Correspondingly, the standardization and regulation activities are also being initiated in many parts of the world in commercialization of cognitive radio technologies in the interest of having efficient spectrum management and efficient spectrum utilization.

The panel will bring together a number of experts from different domains focusing on the future requirements for cognitive radiotechnology. Areas to be covered will include:

- Spectrum Scarcity
- Cognitive Radio and future implications and spectrum sharing
- Spectrum sharing techniques - what are the incentives for regulators, operators, vendors and end-users? What are possible business models, cost facts and impact on the existing networking infrastructure?
- Regulatory measures
- Validation and Standardization efforts/requirements
- True exploitation in commercialization
- Stakeholder interests and roadmap of cognitive radio

Convenor(s): Spectrum and Enablers Group (SEG) in European Commission (EC) concentrating on "Radio Access & Spectrum" (RAS) cluster - Abdur Rahim Biswas (Create-Net), Wolfgang Koenig (Alcatel-Lucent Deutschland AG)

**Panelists:**

Petri Mähönen, Professor RWTH Aachen University

Klaus D. Kohrt, Independent Consultant, Germany

Edward Au, Principal Research Engineer, Huawei Technologies Co., Ltd

Michael Fitch, Research Chief, British Telecom (BT) Innovation and Design, UK

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