



COST IC0905 “TERRA”: Brief Overview and Update

Presentation for #31 ECC
May 2012

Current Participants

- 19 European countries have seats on the Management Committee:
 - Belgium, Croatia, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Lithuania, Netherlands, Norway, Poland, Portugal, Spain, Sweden, Switzerland, United Kingdom, FYR of Macedonia
- Two MC participants from non-COST countries:
 - Communications Research Centre of Canada
 - CSIR Meraka Institute, South Africa
- In the process of joining or considering:
 - Israel
 - Outside: researchers from USA



CURRENT AND FUTURE WORK

Main issues

- Promotion of new ideas developed in COST-TERRA:
 - “Dedicated” CR band
 - Pluralistic licensing concept
 - Presentations in the ECC substructure e.g. in FM51 and SE43
- Special Interests Groups - SIG
 - Energy Efficiency considerations in CR/SDR regulatory options
 - Pluralistic Licensing concept
- Co-operation
 - With CEPT
 - IEEE DySPAN, ETSI TC RRS, conferences: DySPAN, etc.
- Call for Contributions

Promoting new concepts

- The concept of “Dedicated CR Band” (or “CR-friendly band”) was coined trying to describe the idea of frequency band arrangements, that would be favourable for development of Cognitive Radio, as opposed to current situation where CR is seen as “having to make their own way to the spectrum” with very onerous requirements to protect the incumbent services (e.g. consider situation with TV White Space devices)
- After initial presentations in FM51 and SE43, the feedback from CEPT was noted and the concept has been fine tuned to develop in two specialist tracks:
 - **Pluralistic licensing concept** - the award of new licenses under the assumption that secondary CR devices may operate in the band with parameters and rules that are known to the primary at the point of obtaining the license
 - **ISM Advanced** – the concept of unlicensed use in commons ISM band where the limiting safeguard of low power is replaced by CR abilities

Special Interest Groups

- to provide focused work on some of the most critical/promising identified concepts
- SIG Pluralistic Licensing:
 - to work on Pluralistic licensing concept
 - nearest input planned to IEEE DySPAN congress in September 2012
- SIG Energy Efficiency through use of CR
 - to exploit the “green” promise of CR
- SIG ISM-Advanced:
 - proposed, currently the feasibility and substance of this concept under consideration

Co-operation

- Major co-operation with ECC through the organisation of public workshop on CR policies and regulation, 2-3 May 2012 in Mainz, Germany:
 - more than 140 attendees
 - topical presentations from regulators and industry from various world regions, interesting discussions and feedback from participants
 - networking time and exhibitions
- COST-TERRA would welcome the idea of making the next edition of such workshop in year's time
- **COST-TERRA would appreciate having further opportunities for brainstorming new concepts and ideas in CEPT's PTs, such as done before in FM51 and SE43**
- The regular cooperation link with research and development audiences and forums, such as IEEE DySPAN SC, Wireless Innovation Forum, conferences

Standing call for contributions

- All interested bodies are welcome to contribute to the work of COST-TERRA by responding to the ideas/issues in its scope:
 - submitting written contributions, discussion papers, information data sheets
 - proposing a talk for the next COST-TERRA meeting (26-28 November 2012)
- If interested, please contact medeisis@cost-terra.org
- For more information visit: www.cost-terra.org