



eltic-Plus⁺

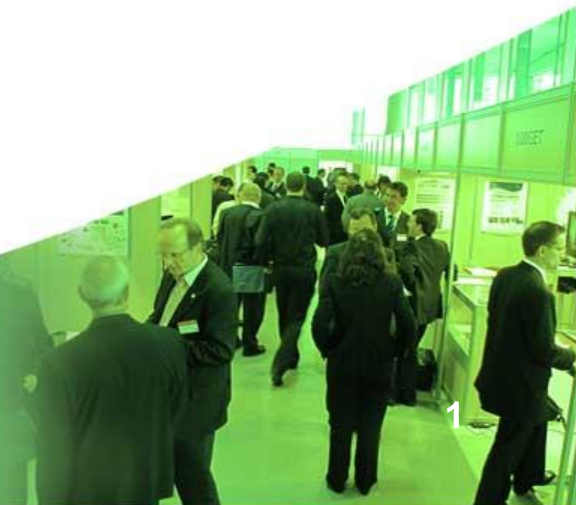
Smart Connected World



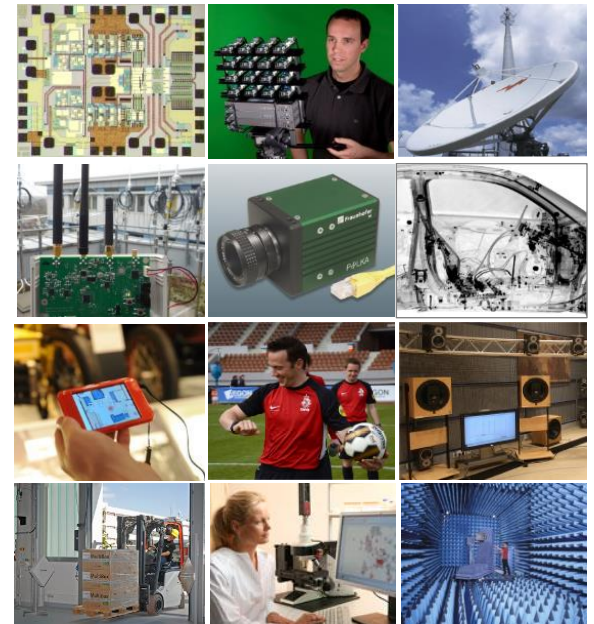
Proposers Day
18 November 2014, Basel

7-minute Pitch of the Project Proposal RelCOvAir

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- Audio and Multimedia
- IC-Design and Design Automation
- Sensor Systems
- Positioning, Navigation, Localization
- **Communication Systems / Digital Broadcasting**
- Energy Management
- Nondestructive Testing
- Medical Technology
- Supply Chains
- Safety and Security Technologies



Proposal Introduction (1)

Wireless connections shall replace/complement the wired connections in the industry.

⇒ it must be guaranteed that a selected wireless communication system fulfils the relevant communication requirements for a given industrial application.

*We will provide **standardized criteria** and an **associated test setup** for the **validation of wireless systems** against these criteria.*

So you can:

- prove that your communication system fulfils the necessary requirements*
- Select a suitable wireless system design & system parameters fitting to your requirements*

Proposal Introduction (2)

The Plan:

- *Analyse challenging scenarios of wireless industrial automation, derive requirements and develop test cases*
- *Perform measurements (environments, frequencies)*
- *Update and validate channel model (QuaDRiGa)*
- *Implement emulation/validation environment (testbed)*
- *Standardization of test-cases and rating system*

Outcome:

- *Channel model for industrial environments*
 - *Emulation/validation platform for industrial communication systems, based on:*
 - *SW and HW channel emulator for industrial environments*
 - *Standardized test cases for the rating of wireless communication systems*
- ⇒ *Proven and qualified certainty of wireless communication systems for the industry*

Germany:



Finland:



⇒ *Research agencies with a strong communication background*

We need industrial partners especially for:

- *Knowledge on industrial communication requirements*
- *Provision of industrial environments for measurements*
- *Implementation support for the emulation/validation platform*
- *Verification of emulation/validation platform with their own communication system*

Contact Info

For more information and for interest to participate please contact:



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