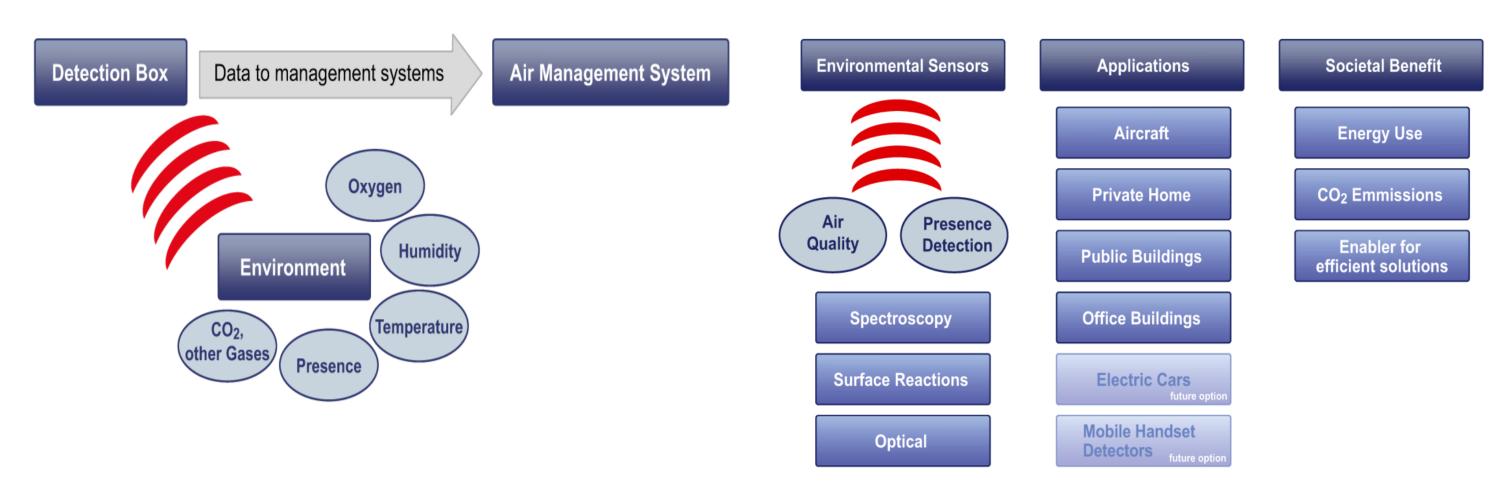




Environmental Sensors for Energy Efficiency

General description

The research project "Environmental Sensors for Energy Efficiency" (ESEE) targets further reduction of energy consumption with seamlessly connected sensors for energy management systems.



Picture source: ESEE project

Goals / Objectives

ESEE targets applications that require highly reliable information about environmental conditions in order to deduct measures that help to reduce the use of energy. In combination with solutions for air quality management, the potential to save energy

- > inside buildings is more than 30 percent,
- > and for airplanes the potential is around 5 percent of the whole energy balance.





The focus of the ESEE project is the development of new low-power connected sensor systems, based on semiconductors and heterogeneous 3D integration for the detection of environmental parameters such as CO₂, CO or humidity. Furthermore, ESEE aims to develop energy management systems for the control of energy flows.

Results / Looking ahead

A high number of Sensors and concepts are available for the final validation phase. First measurement systems are already validated. Final Step is the finalization of the demonstrators and validation activities.

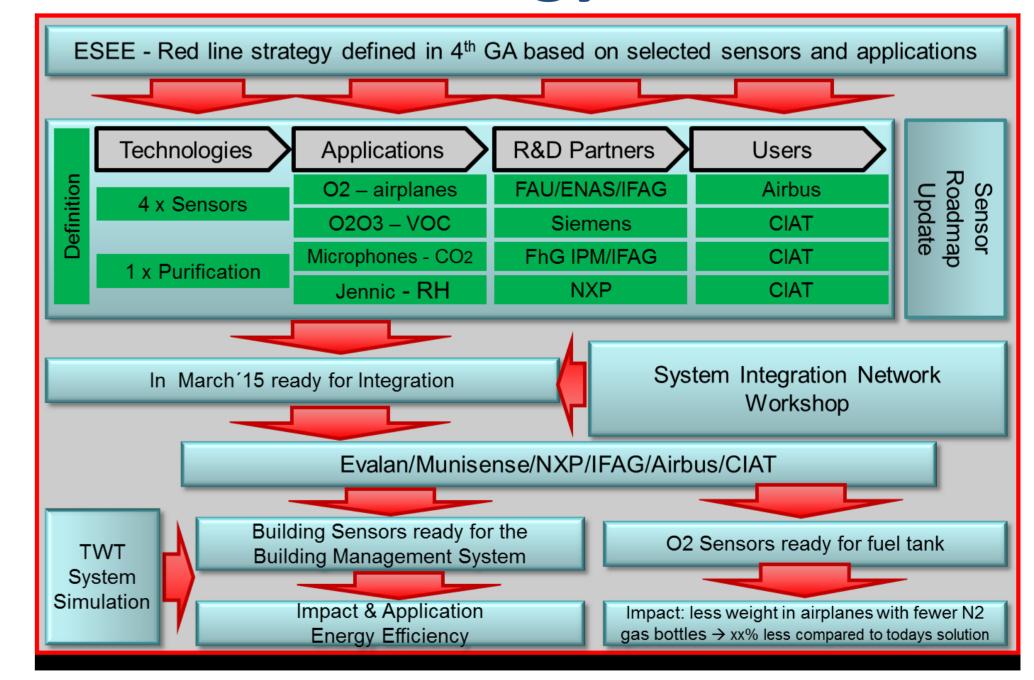


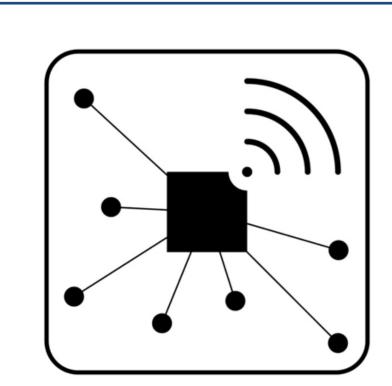




ESEE Consortium at the 6th GA Meeting 2015

Red Line Strategy





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