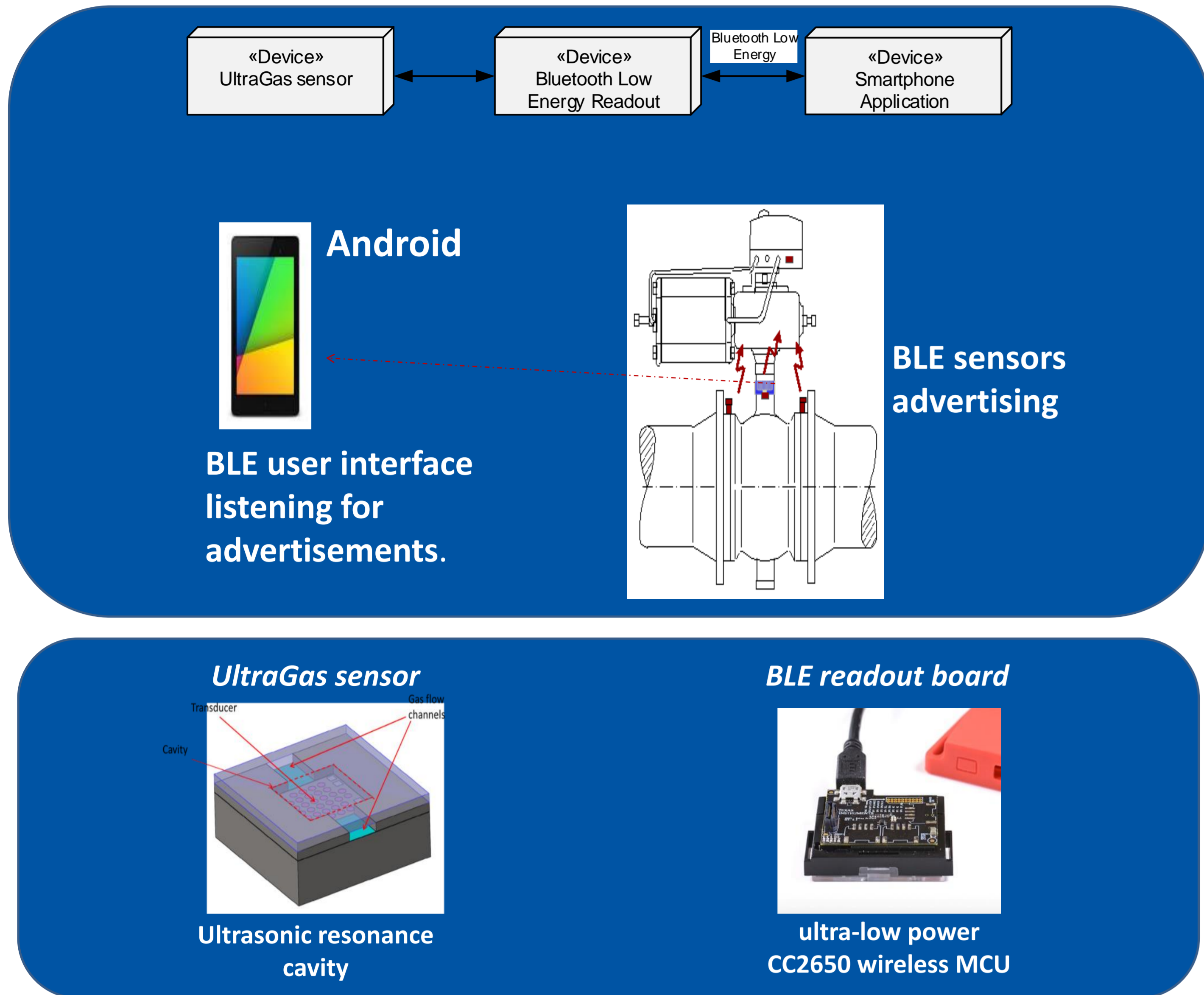


# ESEE - Demonstrations



## UltraGas CO<sub>2</sub> demonstrator

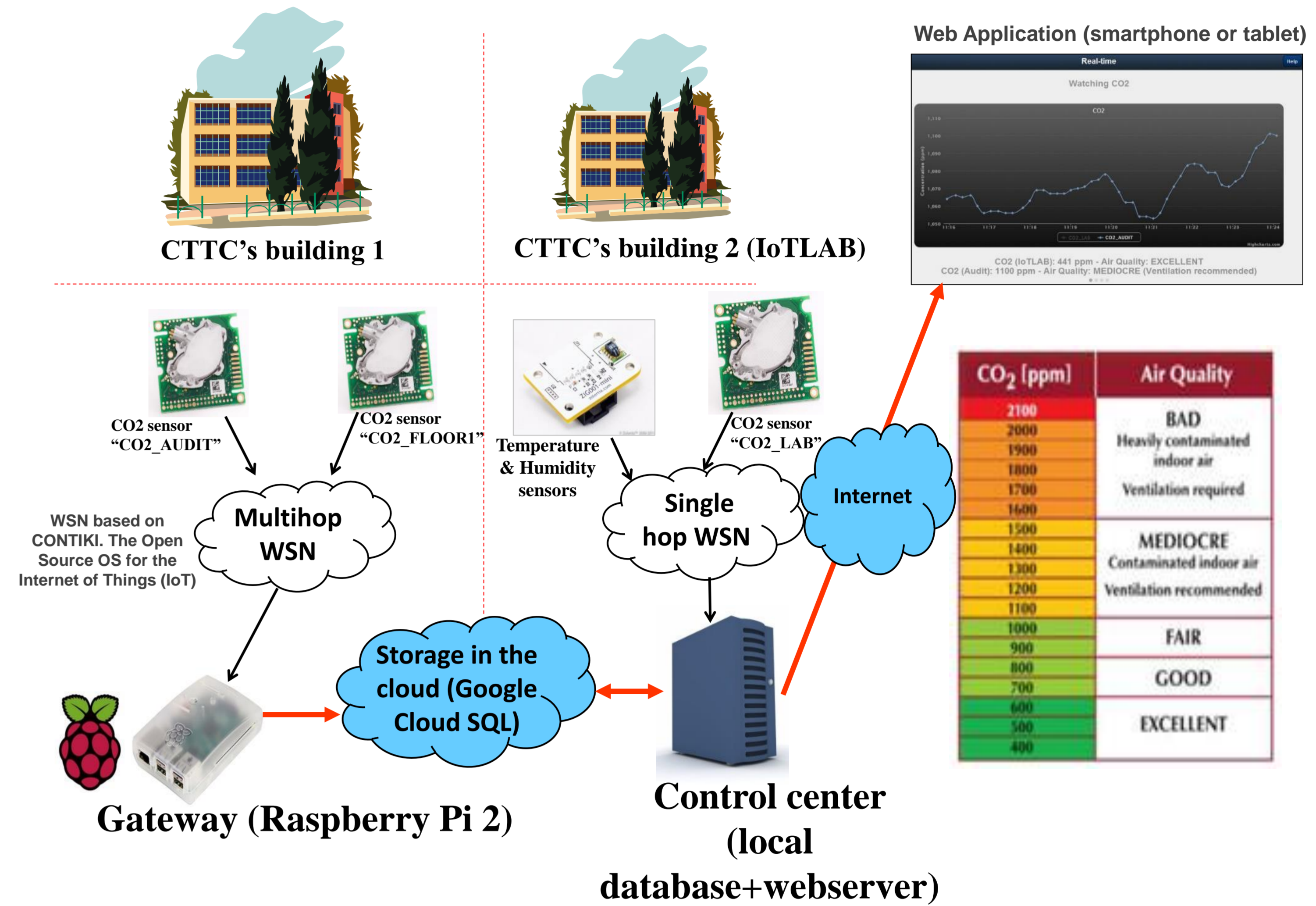
Partner:  
VTT, Evalan, Metso



**Main Application Fields:** Gas leakage monitoring for process valves Other: CO<sub>2</sub> monitoring in buildings

## Air Quality monitoring in buildings based on a hybrid and robust multihop WSN

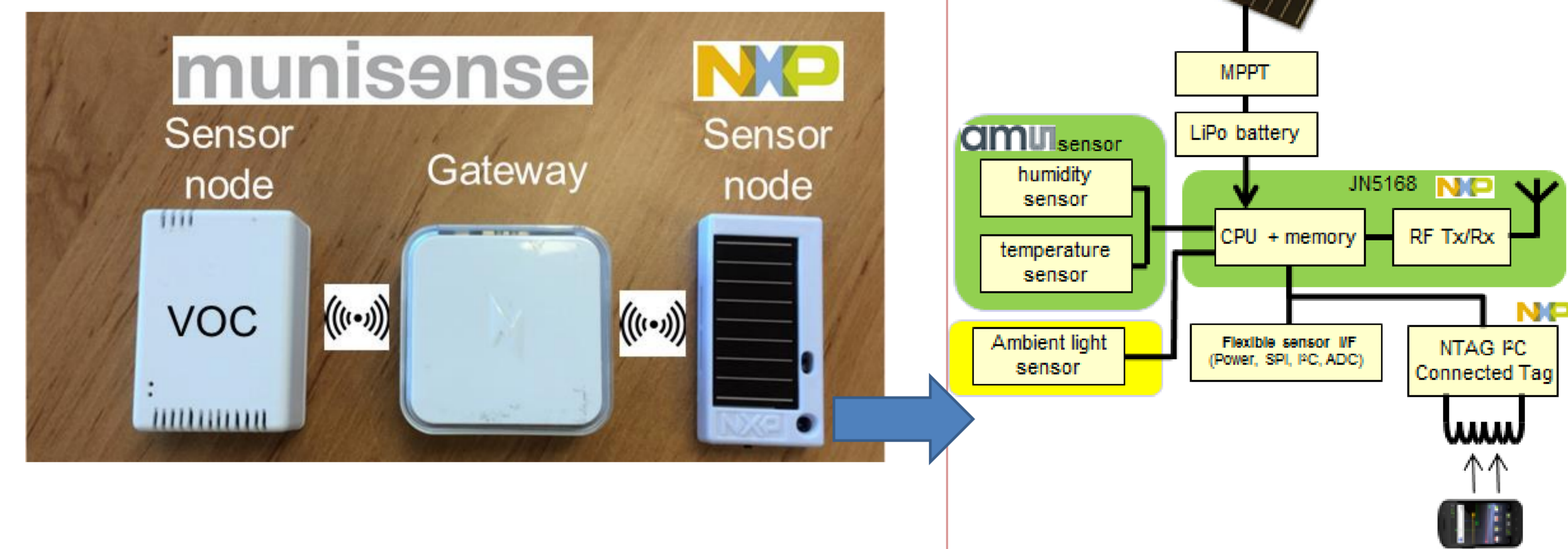
Partner: CTTC



**Main Application Fields:** CO<sub>2</sub>, temperature and humidity sensors coupled with a web application

## Air quality monitoring ...

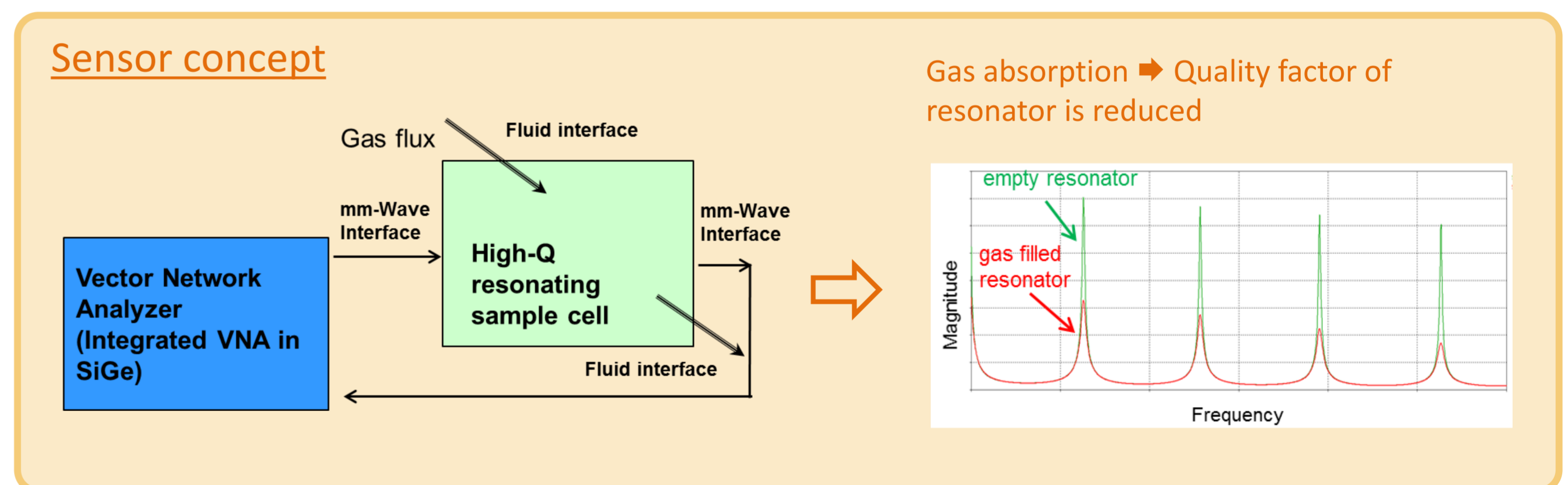
Partner:  
Munisense, NXP, AMS



**Main Application Fields:** Air quality monitoring in buildings Other: VOC monitoring in industrial applications

## Millimeter wave resonator with integrated SiGe front-end for oxygen detection

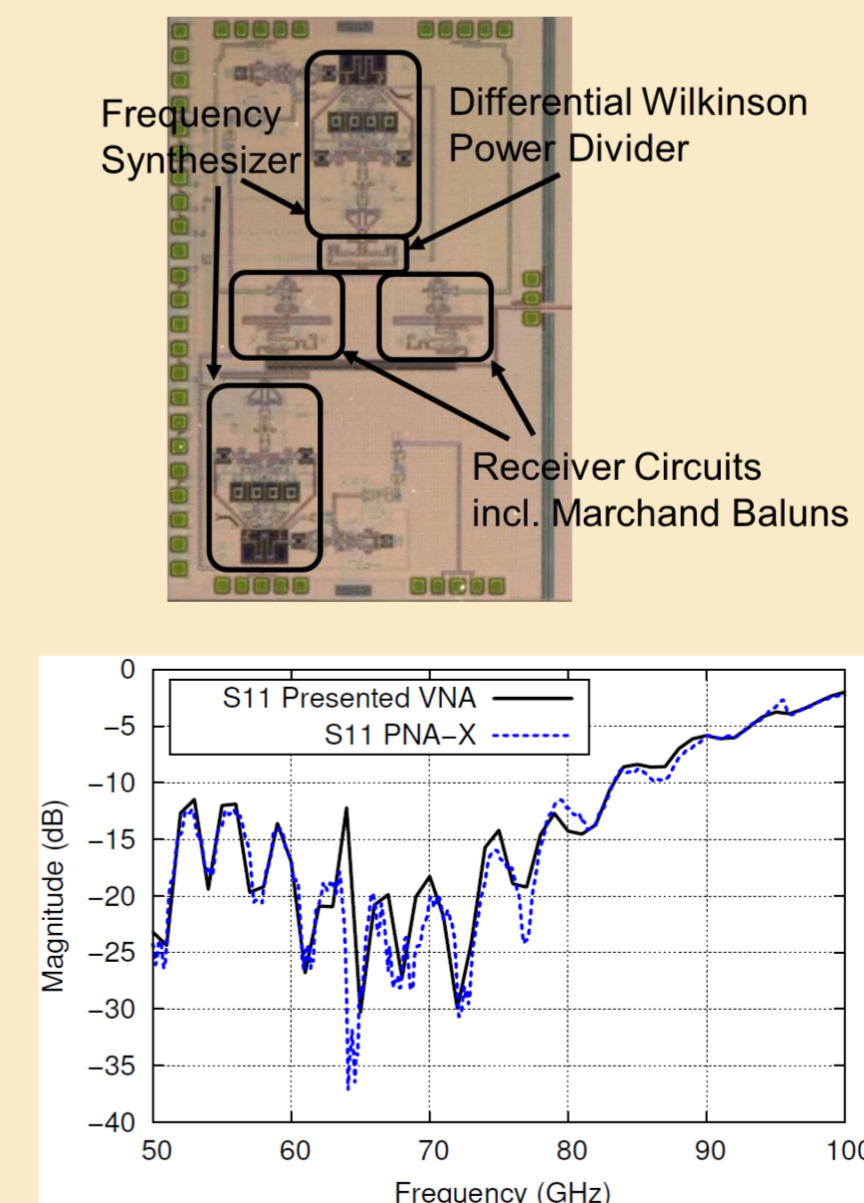
Partner:  
Fraunhofer ENAS, FAU Erlangen, Airbus Group Innovations, Infineon



### Integrated VNA

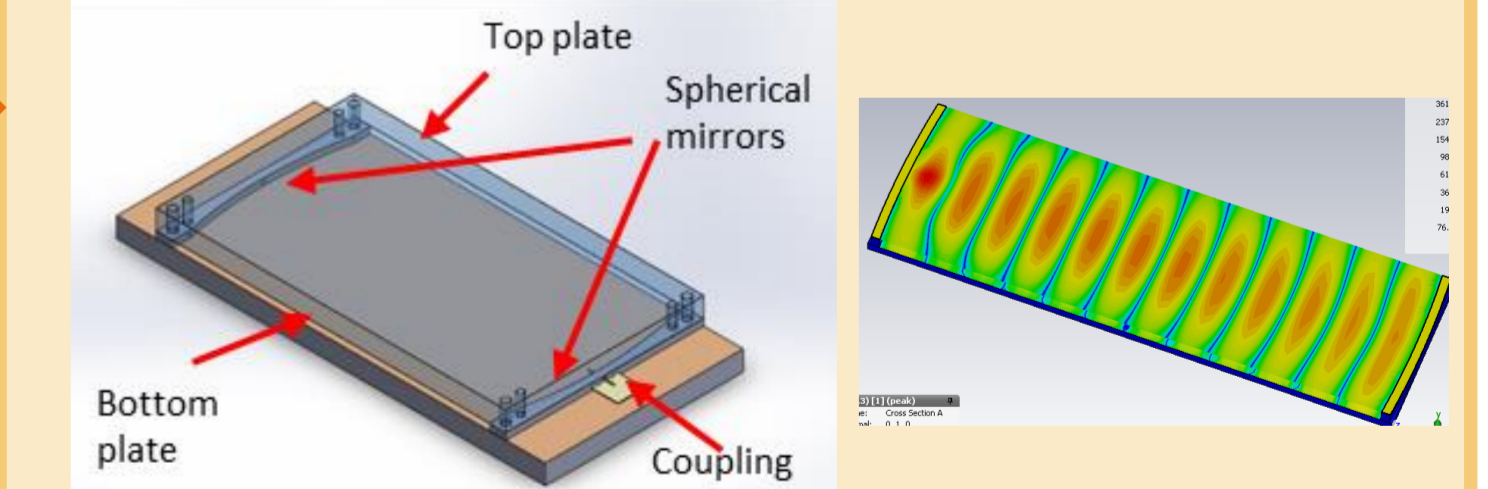
Broadband Transceiver for 50-100 GHz (Technology: b7hf200)

Measurement results of the transceiver

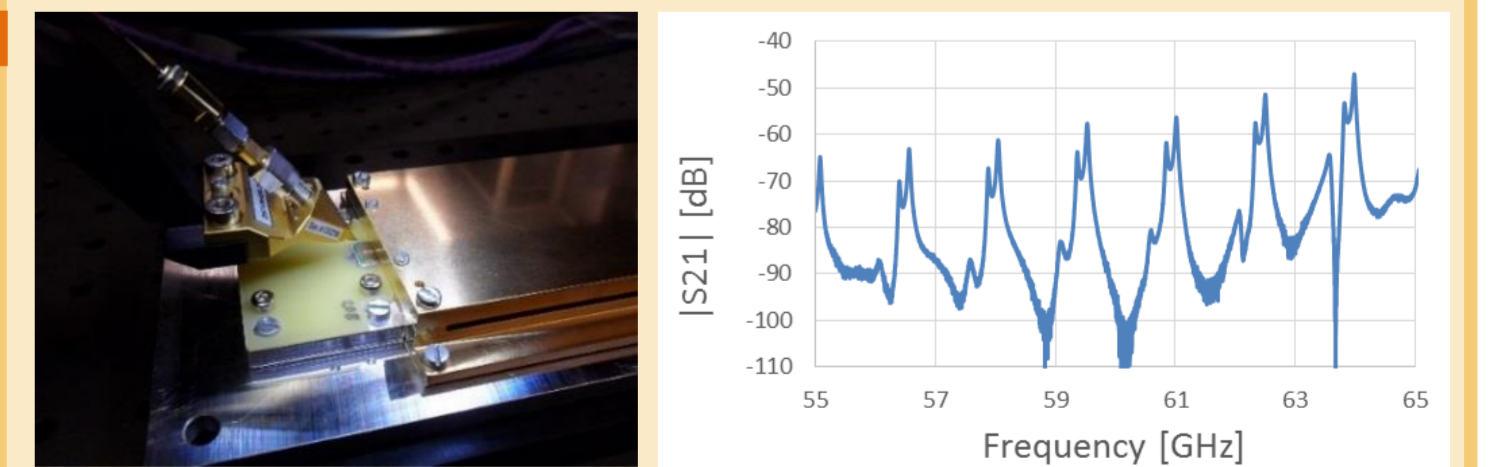


### Resonator

Design and simulation:



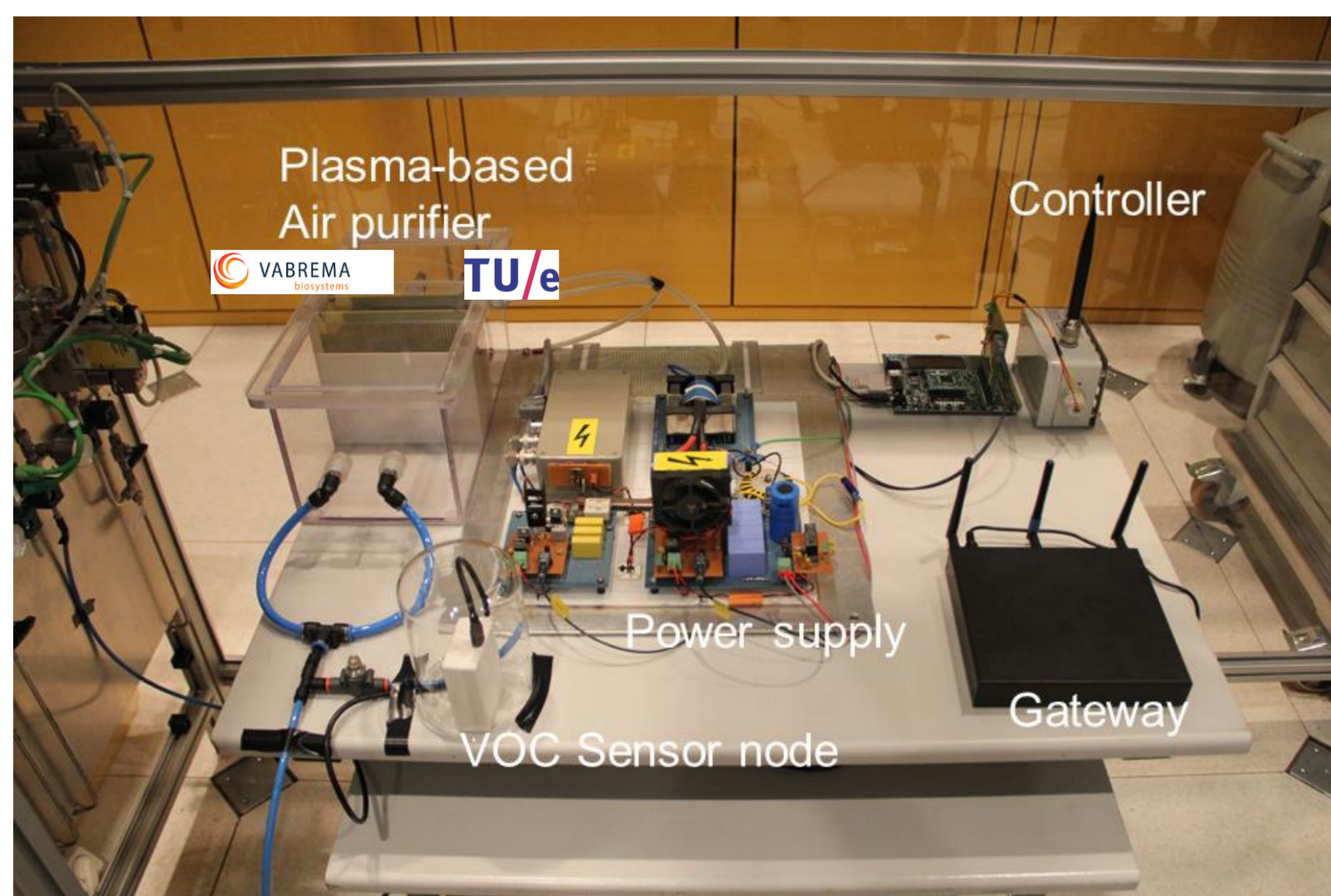
Test setup and transmission measurement



**Main Application Fields:** Oxygen detection in airplane fuel tank or other explosive environments

## ...and purification system

Partner:  
Vabrema, TuE



**Main Application Fields:** NO<sub>x</sub> monitoring and air purification for monitoring/air quality control in buildings

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