26th World Gas Conference

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TS. WOC4.3

SMART MONITORING GAS GRIDS

Dominique Damman
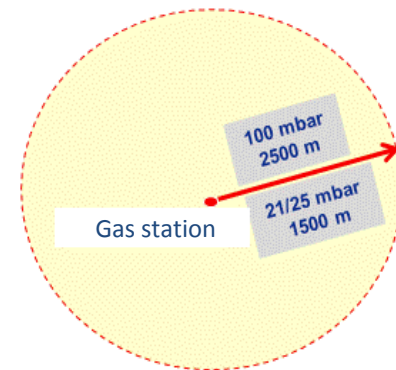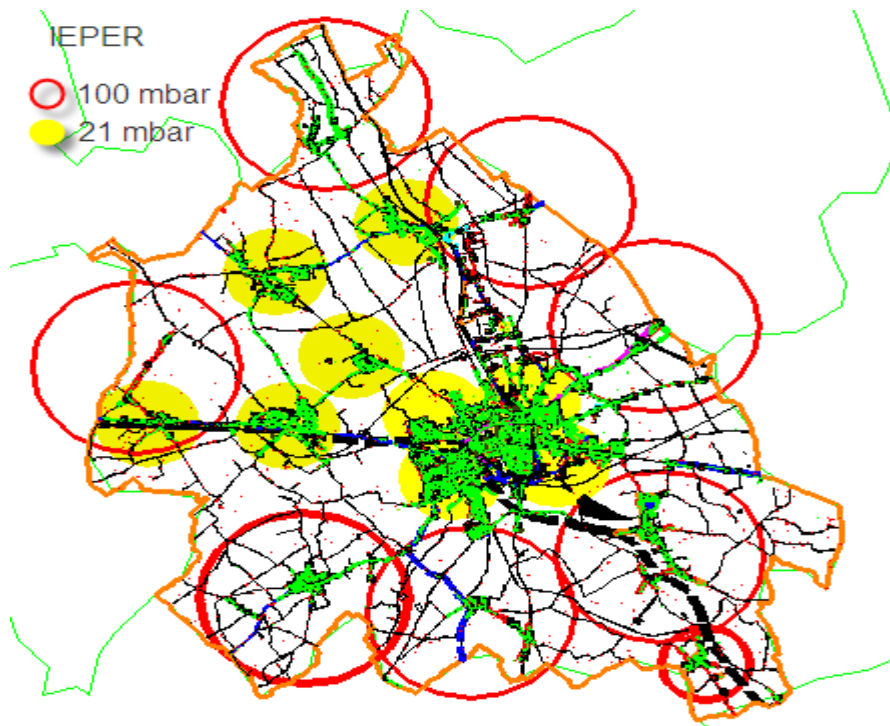Eandis, Belgium

WGCPARIS2015
WORLD GAS CONFERENCE

Creating a qualitative, smart monitoring system in a cost efficient way

Value of knowledge

Rethinking the where and how

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Covering the entire grid based on gas station action radius

Loggers

- **Determining technical requirements**
- **Field tests**

Technical requirements

- **1- and 2-channel loggers**
- **Battery powered (EX - safe)**
- **Continuous measuring**
- **Wireless communication but no real time**
- **An 'automatic' warning system (real time)**

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Loggers

- **Determining technical requirements**
- **Field tests**

Software

- **Creating a new data system, using existing software**

Optimalisation

Ongoing process

Key issues:

- **2% inaccuracy of the data connections**
- **Alarm settings**
- **Battery lifetime**

Key success factors

Policy
- Detail analysis of grid

Testing
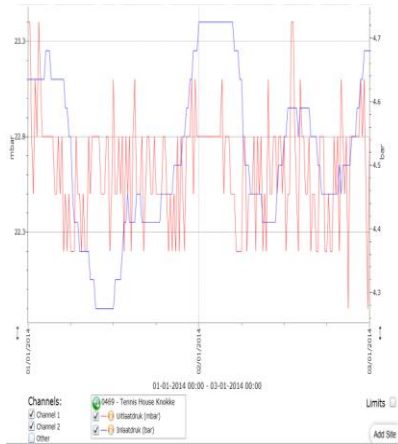- Field tests based on technical specification
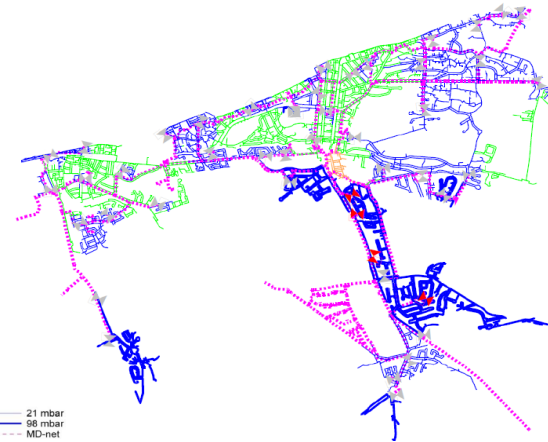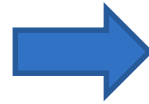
Data
- Wireless communication

Opti+
- Ongoing process
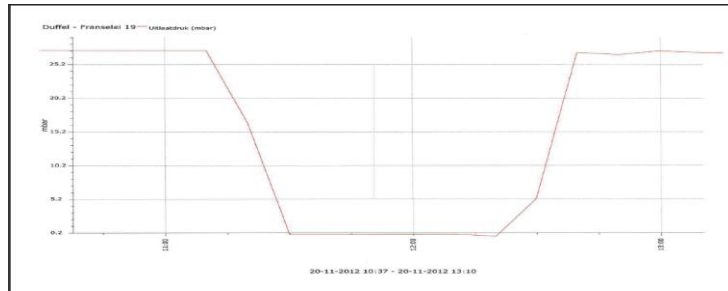
Optimising new grid investments

Results monitoring grid

Results study

Pressure data finetunes results of a sophisticated computer model
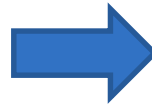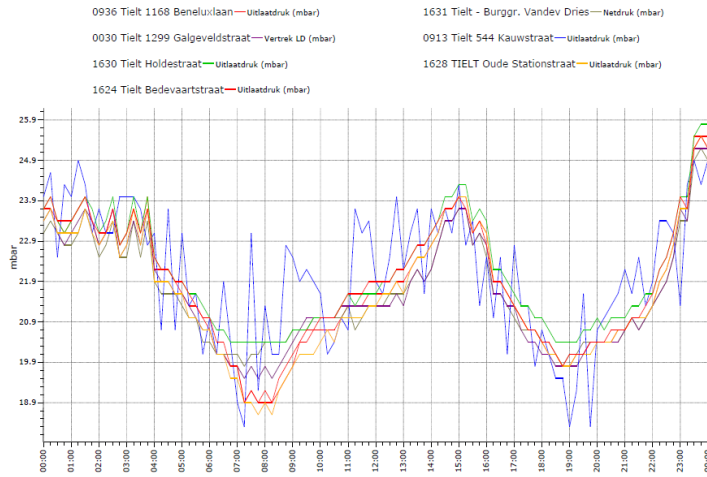
An increasingly reliable and safe exploitation

Faster reaction time in case of pressure problems

Reliability issues

Detecting malfunctioning devices installed in gas stations

A smart grid does not necessitate large investments and research.

Using mature technology

in a smart way

creates interesting opportunities!