

# INCASE

## *Results of the project*

As we are coming in the final stage of the project, this is our last INCASE newsletter. Similar to the previous ones, we focus on the past and upcoming events and have a technical insight in one specific topic: PROFICloud. The PROFICloud pilot is in the project an nice example of cross border cooperation in its most literal sense. The setup exists of 3 parts in 2 countries working together through “the cloud”.

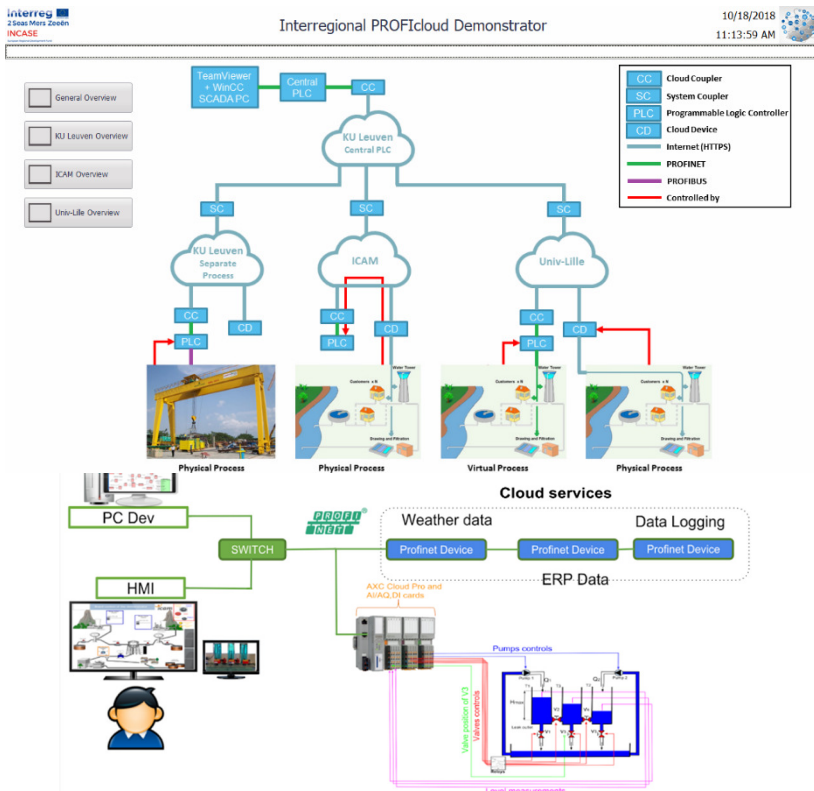
But let us first focus on the project results. The project developed several pilots on new automation technologies and smart grid communication technologies. Based on these pilots, demonstrations, workshops and lectures were given. Several large conferences were organized. In this newsletter the joint conference with PI UK is highlighted. INCASE organized several evening lectures combined with company visits linked to Industry 4.0, where the visit to BASF is reported here. In total, more than 60 events were organized until now.

<b>Overview of participants in technical workshops and lectures (until Sept 2019)</b>		
<b><i>Number of non-INCASE participants</i></b>	<b>Companies</b>	<b>People</b>
<b>PROFICloud</b>	137	278
<b>Stress testing on PROFINET</b>	107	311
<b>Power Line Communication and EMC</b>	154	293
<b>Networked Control</b>	183	408
<b>Integrated Design</b>	173	336
<b>PROFIEnergy</b>	126	252
<b>Power Line Communication in Smart Grids</b>	89	135
<b>HMI, Control &amp; Communication in Smart Homes</b>	52	69
<b>Energylogging (<i>provisional numbers</i>)</b>	25	25
<b>Evening lectures</b>	163	170

## Focus on PROFICloud

On 3 university campuses – Univ-Lille, ICAM (both in Lille, France) and KU Leuven Technology Campus Gent – an interregional pilot for interconnecting smart factories has been built and evaluated. It uses PROFICloud as a professional cloud technology; the nodes act as PROFINET I/O Devices, facilitating easy use with standard configuration tools.

Equipment of Phoenix Contact (PROFICloud, PLC, I/O devices) and Siemens (PLC, HMI) was integrated into one interconnected system and central HMI. The top figure shows the system’s main HMI screen: 3 physical plants with their local cloud, and a central cloud coupler connected to a small central PLC and HMI. The main purpose is central monitoring & HMI of the remote nodes, and integration of “cloud data” (e.g. weather data, refer to the 2<sup>nd</sup> figure).



## Focus on Past Events

INCASE presented its realisations on different occasions. In the UK, two full conference days were organized jointly with the PI UK organisation. In two parallel tracks, the participants learned on the new upcoming technologies related to automation and digitalization. The participants could further experience the technology on the demonstrators presented on the different INCASE stands. A similar day was organised in Flanders, France and the Netherlands.



INCASE was also present at INDUMATION, a large automation fair in Flanders. Finally, INCASE showed a lot of setups on the MIDTERM Event of the 2 Seas program.

BASF (Antwerp) hosted an INCASE session, welcoming a delegation of 20 companies on the 25<sup>th</sup> of June. CEO Wouter De Geest, also President of Voka, and Jan Bollen introduced their vision of Antwerp 4.0. Several other topics were covered, such as Data analytics, Mobile & Wireless and Robotics, in particular the use of drones and robots for maintenance.



*Photo: Wouter De Geest*

## Focus on Upcoming Events

The following last events are planned in this last months of the project:

- 26/11/2019: Workshop INCASE – PROFINET (Univ of Essex and Univ of Kent)
- 28/11/2019: Une vision à 360° pour l'industrie de demain (Yncrea – ISEN, Univ-Lille)
- 05/12/2019: Workshop EMC, Power electronics and Energy measurement (UGent Campus Kortrijk)

Don't forget to put the closing conference in your agenda:

**November 14<sup>th</sup> 2019, Ghent**



The poster features a central image of a glowing blue globe with a network of white lines connecting various points, set against a dark background with light flares. In the foreground, a metallic, futuristic robotic hand is shown holding a glowing blue energy orb. The text is arranged in white boxes on the left side of the image.

**INCASE FINAL CONFERENCE**  
**IT'S A SMART WORLD AFTER ALL.**  
14<sup>TH</sup> NOVEMBER 2019 | 16:00 PM  
FLANDERS EXPO GHENT  
KEYNOTE FILIP VAN DEN ABBEELE

Logos at the bottom:   

