



EC's Framework Programme for Research and Innovation Horizon 2020 (2014-2020)  
Grant agreement no. 636820

Start of the project: Jan 1<sup>st</sup>, 2015  
Duration: 36 month

## Kick-off Exploitation Workshop

Due date: June 30, 2015  
Actual submission date: June 30, 2015

Lead contractor for this deliverable: CYBERNETICA

Author:

Company	Name
BASF	
TKSE	
ELKEM	
UCAM	
RWTH	
VSCHT	
PMAT	
BFI	
CYB	Peter Singstad
MINKON	

### Dissemination level

- |    |   |                                     |
|----|---|-------------------------------------|
| PU | public  | <input checked="" type="checkbox"/> |
| PP | restricted to other programme participants (incl. the Commission Services)        | <input type="checkbox"/>            |
| RE | restricted to a group specified by the consortium (incl. the Commission Services) | <input type="checkbox"/>            |
| CO | Confidential, only for members of the consortium (incl. the Commission Services)  | <input type="checkbox"/>            |

## Content

1	Agenda of the Exploitation Board Meeting .....	2
2	Participants.....	2
3	Expected Impact.....	3
4	Dissemination Events .....	3

The kick-off meeting of the exploitation workshop took place in San Sebastian in the frame of the 6 months technical project meeting. In following text the brief outcome of the meeting is introduced.

### 1 Agenda of the Exploitation Board Meeting

**WP10: Dissemination and Exploitation of Results** (moderator Peter Singstad)  
**Exploitation kick-off workshop: expected impact, exploitation plan and strategy**

- **BASF, TKSE & Elkem: Vision**

“Vision: What can we achieve by use of Recoba technology – in short and long term – in own company and in the industry at large. Preliminary implementation plans and strategies”. ( 3 × 10 mins)

- **Minkon, Cybernetica: Our role**

Market introduction of RECOBA technologies  
(2 × 10 mins)

- **BFI & academic partners**

Preliminary exploitation plans and strategies  
(40 mins together)

### 2 Participants

All partners were represented during the workshop by at least one representative.

### 3 Expected Impact

All partners presented their view on the expected project impact. The presented expected impact of industrial partners is based on the preliminary estimates presented in the grant agreement and on the detailed summary presented in the Deliverable 2.6 (Checklist for success control). The general expected project benefits can be briefly summarized as follows:

- Improved process control will lead to **optimized use of raw material and to energy savings** during the process. Even small efficiency improvement about few percent can result in large absolute impact as the amounts of yearly produced products (latex dispersions, steel, silicon) are in total big.
- **Consistent quality of products** will be ensured. This will lead also to benefit for customers as they can count with narrow product properties specification.
- Maximized yield in shorter time.
- Advanced automation of production processes by new sensor technology and computer based control systems based on automatic measurements will lead to **less necessity of human action during ladle temperature measurements**. Thus workers will not be exposed to the hazardous environment (work with molten silicon) and the work will be safer.

Academic partners are expecting new insights in engineering technologies and in product development. The direct participation of academic partners on commercialization of RECOBA outcomes is not foreseen.

Minkon provided an overview about presentation of new fiber optical temperature measurement device presented at the METEC exhibition at Düsseldorf (16.-20.6.2015). The exhibition participants showed their large interest for the new measurement device. BFI as licensor of the technology would benefit from the potential Minkon's success as well.

### 4 Dissemination Events

Academic partners do not take an active part in the commercialization of the results of the project but will have a role in providing services to industrial partners in terms of research and development. Publishing the project results is a necessity of partners from academia.

In the frame of dissemination activities introduction of the RECOBA project and its results on following conferences and workshops is preliminary planned:

- ESCRE 2015, Fürstenfeldbruck, Germany (BASF)  
European Symposium on Chemical Reaction Engineering 27.-30.10.2015
- CHISA 2016 (BASF)  
International Congress of Chemical and Process Engineering
- PRES 2016 (BASF)  
Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction
- ESTAD 2016 (TKSE, BFI)  
3rd European Steel Technology Application Days
- INFACON 2016 (ELKEM)  
International Ferro-Alloys Congress
- Silicon for the Chemical Industry and Solar industry 2016 (ELKEM)
- IFAC Conference, date to be defined (BFI)



Project partners plan to take part in organization of following workshops, where the project RECOBA will be introduced:

- Workshop on Polymer Reaction Engineering 2016 in Hamburg, Germany  
Organisation: Dechema, PMAT, VŠCHT, BASF are members of the committee
- KoMSO-Workshop (2016?)  
Committee for Mathematical Modelling, Simulation and Optimisation  
Project presentation at BASF in Ludwigshafen.
- Exploitation Workshop 3  
Project presentation on application of state-of-the-art sensor techniques and process control methodology to industrial batch processes at ELKEM in Kristiansand.

The training and teaching actions, where RECOBA partners will take part as organizers are

- International summer course at BASF (2016)  
100 international and interdisciplinary students take part
- Training workshop at BFI Düsseldorf  
On high temperature sensor technology (BFI+MINK)

The project participants will forward project results and cooperate with the following standardization bodies:

- Chemical sector: Namur + Process Net
- Steel Institute VDEh – Technical Committee for Process Automation
- Silicon Alloys: FFF – Norwegian Ferroalloy Procedures Association