COCOP
Project ID: 723661
Funded under:
H2020-EU.2.1.5.3. - Sustainable, resource-efficient and low-carbon technologies in energy-intensive process industries

Coordinating Optimisation of Complex Industrial Processes.

From 2016-10-01 to 2020-03-31, ongoing project | COCOP Website

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tbody>
<tr>
<td>EUR 5 898 913,75</td>
<td>SPIRE-02-2016 - Plant-wide monitoring and control of data-intensive processes</td>
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<tr>
<th>EU contribution:</th>
<th>Call for proposal:</th>
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<td>EUR 5 898 913,75</td>
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<th>Coordinated in:</th>
<th>Funding scheme:</th>
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<tr>
<td>Finland</td>
<td>RIA - Research and Innovation action</td>
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Objective

The vision of COCOP is that complex process-industry plants are optimally run by operators with the guidance of a coordinating, real-time optimisation system. COCOP will strengthen the global position of the European process industry, which represents 20 per cent of the European manufacturing base with around 450,000 companies generating €1.6 billion in turnover and 6.8 million jobs.

The project’s objective is to enable plant-wide monitoring and control by using the model-based, predictive, coordinating optimisation concept in integration with plant’s automation systems. This ambitious approach will be developed and verified in co-operation of European universities, research institutes and industry. The Consortium comprises two universities, three research organisations, the leading copper-plant technology provider, two large companies from the process industry (steel and special chemicals) and four SMEs providing automation solutions.

Technical objective is to define, design and implement a concept that integrates existing industrial control systems with efficient data management and optimisation methods and provides means to monitor and control large industrial production processes. The plant-wide monitoring and control comprehend computationally intensive data analysis and large scale optimisation. The social objective is to improve operator plant-wide awareness and reduce mental workload.

COCOP will liaise with standardisation bodies (automation) to ensure a sustained impact of the project’s results. Commercialisation of the solution by its process-automation industry partners will allow plant operators to approach optimal production and result in reduced energy and resource consumption, and decreased on-site material handling time and greenhouse gas emissions.

Related information

Report Summaries

Periodic Reporting for period 2 - COCOP (Coordinating Optimisation of Complex Industrial Processes.)
Coordinator

TTY-SAATIO Participation ended
KORKEAUKUNKATU 10
33720 TAMPERE
Finland
See on map

Activity type: Higher or Secondary Education Establishments
Contact the organisation

EU contribution: EUR 0

KALEVANTIE 4
33100 TAMPERE
Finland
See on map

Activity type: Higher or Secondary Education Establishments
Contact the organisation

EU contribution: EUR 1 078
126,25

Participants

2-CONTROL APS
SOLDUGVEJ 8
7400 HERNING
Denmark
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

EU contribution: EUR 285 000

DSM CHEMICAL TECHNOLOGY R & D BV Participation ended
POSTSTRAAT 1
6135 KR SITTARD
Netherlands
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

EU contribution: EUR 0

DSM MATERIALS SCIENCE CENTER BV
URMONDERBAAN 22
6167 RD GELEEN
Netherlands
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

EU contribution: EUR 84 000
SIDENOR ACEROS ESPECIALES SL  
BARRIO UGARTE  
48970 BASAURI BIZKAIA  
Spain  

See on map

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  
Contact the organisation

**EU contribution:** EUR 297 612,50

OPTIMIZACION ORIENTADA A LA SOSTENIBILIDAD SL  
AVENIDA LEONARDO DA VINCI 18 PISO 2  
41092 SEVILLA  
Spain  

See on map

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  
Contact the organisation

**EU contribution:** EUR 337 500

MONDRAGON SISTEMAS DE INFORMACION SOCIEDAD COOPERATIVA  
CALLE AMA KANDIDA 21  
20140 ANDOAIN  
Spain  

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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  
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**EU contribution:** EUR 257 812,50

OPTIMATION AB  
PO BOX 27  
94121 PITEA  
Sweden  

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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  
Contact the organisation

**EU contribution:** EUR 279 625

OUTOTEC (FINLAND) OY  
RAUHALANPUISTO 9  
02230 ESPOO  
Finland  

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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)  
Contact the organisation

**EU contribution:** EUR 547 750
FUNDACION TECNALIA RESEARCH & INNOVATION
PARQUE CIENTIFICO Y TECNOLOGICO DE BIZKAIA, ASTONDO BIDEA, EDIFICIO 700
48160 DERIO BIZKAIA
Spain
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**Activity type:** Research Organisations

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TECHNISCHE UNIVERSITAT DORTMUND
AUGUST SCHMIDT STRASSE 4
44227 DORTMUND
Germany
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**Activity type:** Higher or Secondary Education Establishments

Contact the organisation

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VDEH-BETRIEBSFORSCHUNGSINSTITUT GMBH
SOHNSTRASSE 65
40237 DUSSELDORF
Germany
See on map

**Activity type:** Research Organisations

Contact the organisation

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Teknologian tutkimuskeskus VTT Oy
VUORIMIEHENTIE 3
02150 Espoo
Finland
See on map

**Activity type:** Research Organisations

Contact the organisation

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