



# Coordinating Optimisation of Complex Industrial Processes

# COCOP

# **Project information**

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# **Document information**

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# Version History

Version	Description	Organisation	Date
0.1	Draft of the deliverable	TECNALIA	13th December 2016
1.0	Final version	TECNALIA	29 <sup>rd</sup> December 2016





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# 1. Executive summary

This document presents the website of the European Comission funded project COCOP (<u>www.cocop-spire.eu</u>) and all the sections that constitute it.

The website has been created at the beginning of the project to publicize the start of the project and the envisioned objectives, increase their visibility and promote the dissemination activities. It is planned that the website will be updated throughout the project, including updated information about the project, news and events.

The website is oriented to the dissemination of the objectives and results of the project, being available different areas: (i) for downloading dissemination materials and public documents of the project (deliverables, papers, posters,..), (ii) for displaying project tweets, (iii) for interacting with the external community through a blog.

People interested in special topics of the project will be able to join "COCOP Special Interest Group" and follow and comment on the developments.

Logo choice is part of the website development. After internal discussions, partners selected the present logo:







# 2. Introduction

This document is a deliverable of the WP7 of the COCOP project and is associated to the task 7.1 "Communication and Dissemination". The goal of this document is to present the project website and all their relevant parts.

The COCOP website has been developed making use of the DRUPAL 7 tool. The main criteria for selecting this tool have been to base the developments on:

- Ø Open Source Tools with dynamic communities behind them.
- ø Tools allowing powerful scalability.

DRUPAL 7 is a friendly and powerful Content Management Platform for building websites that can vary from blog and microsites to collaborative social communities. It is an open source solution with a very active community around it. DRUPAL is a very flexible, scalable and powerful platform with a lot of possibilities for Web's development.

During the preparation of the proposal, the idea was the project website would be divided in: i) a public area to inform to the external community about the COCOP project and disseminate the results reached by the project, and (ii) a private area, accessible only through credentials, to facilitate the communication within the consortium and act as repository for documents. However, during the kick-of meeting of the project it was decided that the website would consist only of the public area and the *Confluence* system would be used to manage the communication and exchange of information between partners.

The next sections describe the different parts and utilities of the COCOP website and present briefly the *Confluence* system. It is worth pointing out that the updating and improving of the webpage will be a continuous process, so changes in the structure and format described in this document could be carried out along the project life.





# 3. COCOP website

The COCOP website is available at the following link: <u>www.cocop-spire.eu</u>

To emphasize the nature of the website as the official website of a project funded by the European Commission (EU) under the Horizon2020 framework, the ".eu" domain was chosen. In addition to reflect the project is under the SPIRE PPP initiative, the "spire" term was included in the name.

The goal of the website is the dissemination of the project objectives, results, events and initiatives, providing essential information related to the project and the partners. For this, specific sections of the website provide:

- A description of project objectives, pilot cases and work packages
- A presentation of the partners involved
- Access to public documents of the project such as public deliverables, open access papers, etc.
- Access to dissemination materials such as presentations, brochures, posters and videos.
- Information related to the status of the project through news, events and public documents
- Social media links to follow and share the project activities.
- An interactive blog to interact with the external community
- The possibility to get in touch with the consortium and show interest to the project becoming member of the COCOP Special Interest Group.

Figure 2 shows the structure of the page:

- Ø On the left we can find: i) the menu, ii) the logo to the EU that is funding the project, iii) the SPIRE project label and a link to <u>https://www.spire2030.eu/</u> in order to acknowledge COCOP as a project that is in line with the SPIRE PPP targets and iv) an area to display the project Twitter information (@CocopSpire account and #CocopSpire tag)
- At the bottom, the partners of the consortium and the general information of the project is reported (Project title, acronym, start date, end date, Grant Agreement number and funding scheme and twitter account). Clicking on a project partner logo the user will be redirected to the associated partner dedicated page.

Communication and dissemination through COCOP website will be recorded by making use of the Google Analytics utilities, and the consortium will be able to get information about the visitors of the web (number, duration, countries,..).

The next sections of the document describe each one of the sections of the page, providing also a screenshot of the corresponding section.





COCO					
Coordinating Optimi		Industrial Processes			
> Home					
> Project details					
> Consortium					
> Documents					
> News > Events					
> Special Interest Group					
> Special Interest Group > Contact Us					
- Contact 05					
This project has reached funding the European Union's lengtes 7 masses and involution program under grant agreement No 725655	frum 2020 mmæ				
S PROJECT					
	pire				
Cooop 8pire					
Our goal is to enable plant- monitoring and control by u model-based, predictive, co optimisation concept @Spit	sing the cordinating				
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
Ψ Θ	101				
Cocop 8pire					
CocopBpire     Here is Cocop Team to info our work on new technology Industrial processes. We co- Industrial systems with new	y for mbine				
9 G					
TANFEE	<b>DSM</b>	Ssidenor	idener	اک∏ •••	
optimation,	Outotec	tecnala) ==		BA	
√vπ	Q-control.				
General Information of the p	roject:				
Project Title: Coordinating     Acronym: COCOP     Project Start Dote: 1st Oct     Project End Date: 30th Ma     Project duration: 42 month     Grant Agreement n.: 72566     Subprogramme area: SPIRI	ober 2016 rch 2020 hs				

Figure 2. COCOP webpage: vertical navigation bar, left part with the SPIRE and EU logos and project twitter information, footer with the partners and general information of the project.





# **3.1. Home**

The *Home* section provides an overview of the project describing: the need, the vision, the objective, the approach and the beneficiaries and benefits of the project (see figure 3).



- > Home
- > Project details
- > Consortium
- > Documents
- > News
- > Events
- > Special Interest Group
- > Contact Us



The need: process industry faces a strong need to increase product quality and reduce operating costs and environmental footprint. A complex plant comprises continuous and/or batch unit processes. The plant's complexity stems from its dynamic properties, so a plant-wide monitoring and control is a requirement for achieving economically and environmentally efficient operation.

The vision: complex process industry plants will be optimally run by the operators with the guidance of a coordinating, real-time optimisation system.

The objective: to enable plant-wide monitoring and control by using the model-based, predictive, coordinating optimisation concept in integration with local control systems.

The approach: the COCOP project's concept is based on the decomposition-coordination optimisation of the plant operations: the overall problem is decomposed into unit-level sub-problems, so then the solutions of sub-problems are coordinated to plant-wide optimal schedule using high-level coordination. This will enable operators to understand the functioning of the plant as a whole, including the areas traditionally beyond their control, and take better decisions within their part of the process.

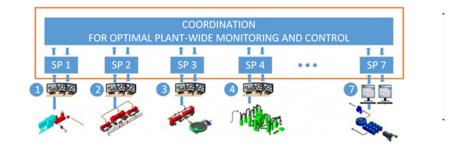


Figure 3. Home section (only a part of the screenshot is included by space constraints).





# 3.2. Project details

The *Project Details* section describes the main objectives for the COCOP project together with the pilot cases and the Work Packages in which the project is organized. The section is composed of three subsections: Objectives, Pilot Cases and Work Packages.

# 3.2.1 Objectives

The *Objectives* sub-section is part of the Project Details section and describes the main objectives (technical, environmental, business and social objectives) of the project, see figure 4.



Figure 4. Objectives section (only a part of the screenshot is included by space constraints).





# 3.2.2 Pilot cases

The *Pilot cases* sub-section is part of the Project Details section and describes the pilot cases addressed in the project, see figure 5.

COCCOP Coordinating Optimisation	of COmplex Industrial Proce	esses	
Home	Home » Pilot Cases		
Project details     Objectives     Pilot Cases     Work Packages	Pilot Cases		
> Consortium	On-site application	STEEL	COPPER
> Documents	and validation		COPPER
> News > Events > Special Interest Group	Transferability anaysis	CHEMICAL	WATER
> Contact Us			
This project has received funding from the European Union's Horizon 2020 research and Innovation programme under grant agreement No 723661	<ul> <li>Copper-smelting pilot case scheduling, and settin Detailed advisory too factors such as temper</li> </ul>	vill be demonstrated in two use a: the optimization will compi- ng target matte grades and fe ls will be implemented for co- rature, slag chemistry and impu- lta copper smelter plant.	rise of converter and anode ed rates of flash-smelting to potrolling unit processes to

Figure 5. Pilot Cases section (only a part of the screenshot is included by space constraints).





#### 3.2.3 Work Packages

The *Work Packages* sub-section is part of the Project Details section and describes the seven work packages and their relationship, see figure 6.

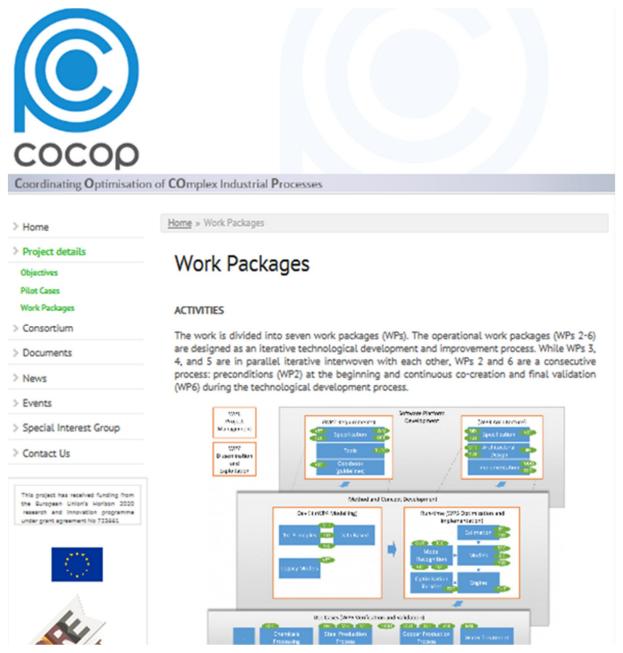


Figure 6. Work Packages section (only a part of the screenshot is included by space constraints)





# 3.3. Consortium

The *Consortium* section provides an overview of the COCOP consortium and information of each one of the twelve partners (see figure 7): general description of the organization, their main tasks in the project and a link to the partner webpage.

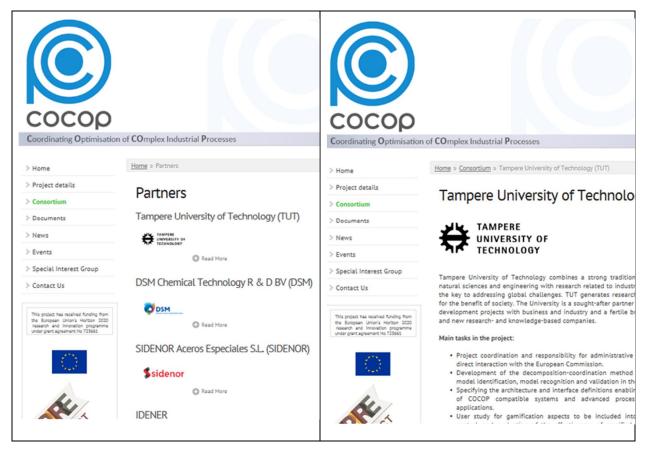


Figure 7. On the left, the Consortium section. By clicking the logo of the partner or in the "read More" hyperlink, the "Partner Page" (image on the right) dedicated to the corresponding partner is opened. Only a part of the screeenshots is included by space constraints.

# 3.4. Documents

The *Documents* section will make available to the external audience all the public information produced by the COCOP consortium. This section has been divided in four categories according to the typology of the documents. These four categories are:

- ø Deliverables
- ø Papers and posters
- ø Brochures/Presentations
- ø Videos





# 3.4.1 Deliverables

The *Deliverables* sub-section provides a list of all deliverables produced in the project sorted by work package. In addition, the public deliverables will be downloadable just clicking the title of the deliverable, see figure 8. At the moment of producing this deliverable, no deliverables have been produced, so the section is empty.

Coordinating Optimisation	on of <b>CO</b> mplex Industrial <b>P</b> rocesses
> Home	Home » Deliverables
> Project details	
> Consortium	Deliverables
> Documents	
Deliverables	WP1. Management
Papers and posters	WP2. Requirements
Brochures/Presentations	WP3. Architecture
Videos	WP4. Modelling
> News	WP4. Modeling
> Events	WP5. Optimization and implementation
> Special Interest Group	WP6. Co-creation, verification & validation
> Contact Us	WP7. Communication, Dissemination and exploitation

Figure 8. Deliverables section (only a part of the screenshot is included by space constraints).

# 3.4.2 Papers and posters

The *papers and posters* sub-section offers the possibility to download public papers and posters of the COCOP project by clicking on the corresponding item. At the moment of producing this deliverable, no public papers/posters have been produced, so the section is empty.





# 3.4.3 Brochures/Presentations

The *Brochures/presentations* sub-section offers the possibility to download the dissemination material produced by the consortium (such as flyers, presentations, ...) by clicking on the corresponding item. At the moment of producing this deliverable, a flyer and a general presentation can be downloaded, see figure 9.

Coordinating Optimisation	of COmplex Industrial Processes
> Home	Home » Brochures/Presentations
> Project details	
> Consortium	Brochures/Presentations
> Documents	
Deliverables	COCOP general presentation (December 2016)
Papers and posters Brochures/Presentations	First COCOP flyer (December 2016)
Videos	
> News	
> Events	
> Special Interest Group	
> Contact Us	

Figure 9. Brochures/Presentation section (only a part of the screenshot is included by space constraints).

# 3.4.4 Videos

The *videos* sub-section offers the possibility to download the videos produced by the COCOP project by clicking on the corresponding item. At the moment of producing this deliverable, no videos have been produced, so the section is empty.





# 3.5. News

In the *News* section the external audience will be informed about the news related to the COCOP project, see figure 10.



Figure 10. On the left, News section. By clicking the title of the new or in the "read More" hyperlink, additional information of the new is displayed. Only a part of the screenshot is included by space constraints.

# 3.6. Events

The *Events* section will inform to the external audience about the events related to the COCOP project. There are two categories:

- ø Project meetings
- ø Dissemination.





# 3.6.1 Project Meetings

In the *Project Meetings* section the external audience will be informed about the meetings of the COCOP consortium, see figure 11.



Figure 11. On the left, Project meetings section. By clicking the title of the meeting, additional information of the meeting is displayed. Only a part of the screenshots is included by space constraints.

# 3.6.2 Dissemination

In the Dissemination section the external audience will be informed about the COCOP dissemination events, see figure 12.





Coordinating Optimisation	of COmplex Industrial Processes
> Home	Home > Dissemination
> Project details	Disconsidentian
> Consortium	Dissemination
> Documents	
> News	Poster about COCOP in a VTT internal event with more than 1.500 people, 24th November 2006
> Events	
Project meetings Dissemination > Special Interest Group > Contact Us	
> contact os	
This project has received funding from the European Union's Horizon 2020 research and Innovation programme under grant agreement No 723661	

*Figure 12. Dissemination section (only a part of the screenshot is included by space constraints). By clicking the title of the event, additional information of the event can be displayed* 

# **3.7.** Special Interest Group

In the "*Special Interest Group*" section, persons and organizations interested in COCOP project can manifest their interest filling a form to get in touch with the consortium and take part of the COCOP Special Interest Group.

# 3.8. Contact us

The "*Contact Us*" section has been implemented with the aim to provide to the public audience the contact points where asking for more information about the project, see figure 13.





Coordinating Optimisation	of COmplex Industrial Processes
> Home	Home » Contact Us
> Project details	
> Consortium	Contact Us
> Documents	Your name *
> News	Your e-mail address *
> Events	
> Special Interest Group	Subject *
> Contact Us	
	Message *
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 722661	Ô
	Send message
BOIECT	Project Coordinator Contact:
A LO	Project coordinator: Prof. Matti VILKKO (matti.vilkko@tut.fi)
2803	Department of Automation Science and Engineering

Figure 13. Contact us section (only a part of the screenshot is included by space constraints).

# 3.9. Future utilities

To facilitate the interaction with the external community, a blog will also be implemented. The blog will provide the latest information of the project open to the public. A special effort will be made in the creation of contents from all partners of the consortium in order to generate leads. Technically, this feature will be implemented using the Blog module of DRUPAL.





# 4. Private area: Confluence

The COCOP webpage does not provide an own private area, but all the information flow among the partners will be carried out through *Confluence* tool

Confluence wiki is the main platform used for collaboration in the project for all written documentation as well as sharing of documents. Confluence provides an online and up-to date collaboration platform that also supports export to Microsoft Word and PDF.

In COCOP, Confluence is used for, among other things, preparation of working documents, distributing meeting agendas and provision of meeting minutes, deliverables and reports, and further elaboration of use cases and user stories. Confluence pages and tasks can also be linked to Jira task management.

Confluence is provided by the eduuni platform hosted at CSC - IT Center for Science Ltd. in Finland. The homepage is accessed from <u>https://wiki.eduuni.fi/display/tutcocop/Cocop+Home</u>

Group membership and access rights are managed by TUT separate from the mailing lists.





# 5. Conclusions

This report describes the COCOP website (<u>www.cocop-spire.eu</u>). The main objective of the website is to ensure the dissemination of the project results, events and initiatives. For this reason the page has been divided in the following main sections:

- ø Home,
- ø Project Details,
- ø Consortium,
- ø Documents,
- ø News
- ø Events
- Ø Special Interest Group
- ø Contact Us

The updating and improving of the webpage will be a continuous process, so changes in the structure and format described in this document could be carried out along the project life.