

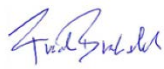


## COGNITWIN

Cognitive plants through proactive self-learning hybrid digital twins

DT-SPIRE-06-2019 (870130)

# Deliverable Report

<b>Deliverable ID</b>	D8.2	<b>Version</b>	V1
<b>Deliverable name</b>	Short Interim Management Report		
<b>Lead beneficiary</b>	SINTEF (SINTEF AS)		
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<b>Due date</b>	29.02.2020		
<b>Date of final version</b>	29.02.2020		
<b>Dissemination level</b>	PU		
<b>Document approval</b>	Frode Brakstad	29.02.2020	



The COGNITWIN project has received funding from the European Union's Horizon 2020 research and innovation programme under GA No. 870130

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## Executive Summary

This report presents an overview of various management activities performed during the first 6 months of the COGNITWIN project. The project is being executed in accordance with the Grant Agreement (GA) and Consortium Agreement (CA). The management activities include the preparation and signing of GA and CA, establishing various management bodies (such as general assembly, executive board etc.), coordination among the partners, preparing document templates, establishing internal and external communication platforms, arranging meetings (kick-off, project meeting, general assembly, executive board and status), managing project finance, preparing data management plan, submission of deliverables according to description of the action (DoA), preparation of periodic management reports and any other tasks required to execute the project in an efficient manner.

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## 1 Introduction

In COGNITWIN project, the working methods and implementation routes are being agreed and implemented under the project management activities. A summary of these project management activities in the first 6 months is provided in this report. The key information about the COGNITWIN project are presented in Table 1.

*Table 1: COGNITWIN project information*

Acronym	COGNITWIN
Grant Agreement No	870130
Starting date	1 September 2019
Duration	36 Months
Project total cost	€ 8 653 170,00
EC contribution	€ 6 982 431,38
Project Coordinator	Frode Brakstad
Project Officer	Eleftherios BOURDAKIS

## 2 Agreements

The Grant Agreement (Annex 1) and Consortium Agreement regulate all relevant issues concerning management (description of the action, governing bodies, roles, organisation, resources, specific operational procedures for the consortium bodies etc.). The status of GA and CA is as follows:

**Grant Agreement:** The Grant Agreement (GA) was digitally sealed by the European Commission on 30-July-2019 (before the project was started).

**Consortium Agreement:** All the partners have signed the Consortium Agreement (CA). The signing process was completed on 22-Jan-2020.

### 3 Management Organization

Management organization of the COGNITWIN project is taking place as presented in the COGNITWIN consortium agreement with a modification as presented in section 3.3. Some modifications in the specifications of deliverables/milestones (responsible partner, due dates etc.) are currently being prepared to be communicated to the Project Officer (PO). The governing bodies of the COGNITWIN project are as follows:

- Project Coordinator
- General Assembly (GA)
- Executive Board (EB)
- Management Support Team (MST)

Representatives of all the bodies are selected and approved by General Assembly (on 15-Jan-2020). The list of representatives in various governing bodies are as follows:

#### 3.1 Project coordinator:

Coordinator of the COGNITWIN project is Frode Brakstad (SINTEF).

#### 3.2 General Assembly (GA)

A list of GA members is presented in Table 2.

*Table 2: A list of COGNITWIN General Assembly members.*

Duncan Akporiaye (SINTEF)	Michael Schäfer (SAG)	Enso Ikonen (UOULU)
Martin Segatz (Hydro)	Tim Dahmen (DFKI)	Perin Unal (TEKNO)
Jenö Kovacs (SFW)	Peter Singstad (CYB)	Aylin Demircioglu (NOKSEL)
Iñigo Unamuno Iriondo (SIDENOR)	Nenad Stojanovic (NST)	Pierre Gutierrez (Scortex)
Aasgeir Valderhaug (ELK)	Ljiljana Stojanovic (Fraunhofer)	

#### 3.3 Executive Board (EB)

In the GA and CA, it is mentioned that EB will consist of all the WP leaders. During the kick-off meeting, some partners have mentioned their wish to include pilot leaders and management support team also into the EB. This suggestion was approved by GA members during the 1<sup>st</sup> GA meeting. COGNITWIN EB is now consisting of the following members as presented in Table 3.

*Table 3: A list of COGNITWIN Executive Board members*

Frode Brakstad (Project Coordinator), Chair	Peter Singstad (WP6 Leader)
Arne Berre (Scientific Coordinator)	Ljiljana Stojanovic (WP7 Leader)

Nancy J. Holt (WP1 Leader)	Akhilesh Kumar Srivastava (WP8 Leader)
Ulrike Faltings (WP2 and SAARSTAHL Pilot Leader)	Are Dyrøy (Hydro Pilot Leader)
Mika Liukkonen (WP3 and SUMITOMO Pilot leader)	Kjetil Hildal (Elkem Pilot Leader)
Nenad Stojanovic (WP4 Leader)	Iñigo Unamuno Iriondo (SIDENOR Pilot Leader)
Stein Tore Johansen (WP5 Leader)	Aylin Demircioglu (NOKSEL Pilot Leader)

### 3.4 Management Support Team (MST)

Management Support Team of the COGNITWIN project is as follows:

**Project Coordinator:** Frode Brakstad

**Scientific Coordinator:** Arne Jørgen Berre

**Impact Coordinator:** Peter Singstad

**Dissemination Coordinator:** Ljiljana Stojanovic

In addition, each pilot and work package has established its own team. A publication team is also being established to facilitate the publications of COGNITWIN project.

## 4 Documentation

COGNITWIN logo is presented in Figure 1.



Figure 1: COGNITWIN logo

The project has prepared the templates for deliverables, milestones, meeting minutes and presentations. In order to define various technical terms used during the project, it has been decided to prepare COGNITWIN glossary. This document is a dynamic document and currently under preparation. We expect to release first version of the documents in March, 2020.

## 5 Internal and External Communication Platforms

**SharePoint:** For internal communication with the consortium, a SharePoint room is established. All the project related documents including deliverable reports and meeting minutes are placed on this folder on dedicated locations. More details on various folders are provided in a previous deliverable D8.5.

**Project Website:** An external project website (<https://www.sintef.no/projectweb/cognitwin/>) has also been established. This website provides general project information such as introduction, objectives and consortium. It is to be regularly updated with the information on project meetings under News &

Events tab. In the future, more updates will be available such as public deliverables, dissemination activities etc. More information on project website is provided in D7.1.

## 6 Meetings

The following meetings have been organized in the first 6 months of the project.

### 6.1 COGNITWIN kick-off meeting



*Figure 2: COGNITWIN consortium during the kick-off meeting and industrial site visit of Hydro Aluminum.*

COGNITWIN kick-off meeting was held in Molde (Norway) from October 1<sup>st</sup> -3<sup>rd</sup>, 2019. In total, 45 participants from all the 14 partners attended the meeting. On the second day of the meeting, the participants have visited an industrial plant of Hydro Aluminum (Sunndalsøra). Pictures from the kick-off meeting are presented in Figure 2.

### 6.2 M6 Project Meeting



*Figure 3: COGNITWIN consortium during M6 project meeting and industrial site visit of Saarstahl*

COGNITWIN M6 project meeting was held 14<sup>th</sup> -15<sup>th</sup> January in Saarbrücken (Germany). The meeting was hosted by DFKI and SAARSTAHL. Representatives from 13 partners have participated in the meeting. The participants have also visited DFKI campus and industrial sites of Saarlouis. This meeting was organized before M6 to ensure the progress of M6 deliverables. Some pictures from the meeting are presented in Figure 3.

### 6.3 General Assembly

As per COGNITWIN CA, General assembly meetings will take place at least twice a year. First COGNITWIN General Assembly took place in Saarbrücken (Germany) on January 14<sup>th</sup> (Tuesday), during the M6 project meeting. Meeting minutes are approved.

### 6.4 Executive Board and Project Status Meetings

Currently, COGNITWIN EB members are meeting on-line (through Skype for Business) every two weeks in the form of status meeting. Highlights and action lists are distributed to the partners for each meeting.

As per the CA, the Executive Board meeting will take place at least 4 times in a year. After signing the CA, the first executive board meeting is planned in March 2020. Subsequent meetings will take place every third month from the first meeting. Project status meetings will continue to take place every second week.

COGNITWIN project is also organizing various other meetings organized by pilots, technical coordinator, WP leaders etc., as and when needed. Some pilots have also conducted on-site pilot kick offs.

### 6.5 M12 Project Meeting

COGNITWIN M12 Project Meeting will be hosted by SUMITOMO and will take place on 16-17 June 2020 in Finland (exact location will be decided soon).

## 7 Status of Deliverables

Table 4 presents an overview of the status of various deliverables due in first 6 months. All the deliverables are submitted on time.

*Table 4: Status of M1-M6 deliverables*

<b>Deliverable Number</b>	<b>Deliverable Title</b>	<b>Due Date (in months)</b>	<b>Status</b>
<b>D7.1</b>	Website portal	M2	Submitted



<b>D8.3</b>	IA Coordination and Performance Indicators Definition	M3	Submitted
<b>D8.5</b>	Risk Assessment and Management Action Plan	M3	Submitted
<b>D1.1</b>	A report on existing level of digitalisation and describing challenges for Nonferrous pilots, incl. identification of novel sensors	M6	Submitted
<b>D2.1</b>	A report on existing level of digitalisation and describing challenges for Steel pilots, incl. identification of novel sensors	M6	Submitted
<b>D3.1</b>	A report on existing level of digitalization, describing challenges for Engineering pilot, incl. identification of novel sensors and collected information for cognitive modelling	M6	Submitted
<b>D4.1</b>	Baseline Platform, Sensor and Data Interoperability Toolbox	M6	Submitted
<b>D5.1</b>	Baseline Hybrid AI and Cognitive Twin Toolbox	M6	Submitted
<b>D6.1</b>	T0 baseline measurement of the KPIs	M6	Submitted
<b>D7.2</b>	Dissemination and communication plan and tools	M6	Submitted
<b>D8.1</b>	Data Management Plan	M6	Submitted
<b>D8.2</b>	Short Interim Management Reports	M6	Submitted

## 8 Data Management Plan

Data management plan of COGNITWIN is being submitted as a deliverable D8.1 in M6.

## 9 Finance

SINTEF has received Pre-financing Payment from European Commission and further distributed to the partners on 22-Jan-2020 as per SINTEF's regulations. Partners will be asked for a financial status report after M6.

## 10 Risks

The project has established a Risk Management Plan (presented in D8.5) which is being followed up on, with no current risks in critical status.