

capri

**Cognitive Automation Platform
for European PProcess Industry
digital transformation**

Deliverable

DI.1 Kick-off meeting result report, financial and technical agreements

Deliverable Leader: CARTIF

Deliverable due date: 31/05/2020

Actual submission date: 29/05/2020

Version: 1





Document Control Page	
Title	Kick-off meeting result report, financial and technical agreements
Creator	CARTIF
Description	Minutes of project management meetings
Contributors	ALL
Creation date	29/05/2020
Type	Report
Language	English
Audience	<input checked="" type="checkbox"/> public <input type="checkbox"/> confidential
Review status	<input type="checkbox"/> Draft <input type="checkbox"/> WP leader accepted <input checked="" type="checkbox"/> Coordinator accepted
Action requested	<input type="checkbox"/> to be revised by Partners <input type="checkbox"/> for approval by the WP leader <input type="checkbox"/> for approval by the Project Coordinator <input checked="" type="checkbox"/> for acknowledgement by Partners



Table of Contents

1	Executive summary.....	6
2	Deliverable Description	6
2.1	Agenda	6
2.2	Overview.....	9
3	First day of KoM (28/04/2020).....	10
3.1	Welcome and general presentation of the project	10
3.1.1	Presentation of SPIRE program	12
3.2	Introduction of the project partners.....	13
3.3	First General Assembly.....	13
3.4	Legal, financial and administrative session	14
3.4.1	Introduction	14
3.4.2	WP1	15
3.4.3	WP8	16
3.4.4	Legal, administrative and financial issues.....	16
4	Second day of KoM (29/04/2020).....	20
4.1.1	WP2	21
4.1.2	WP3	21
4.1.3	WP4	22
4.1.4	WP5	22
4.1.5	WP6	26
4.1.6	WP7	26
4.2	Conclusions and futures commitments.....	27
5	Press release notes	28

Table of Figures

Figure 2-1:	Map of the CAPRI partners	6
Figure 2-2:	First Day agenda.....	7
Figure 2-3:	Second Day agenda	8
Figure 2-4:	Screenshot of the attendees in the First Day.....	9
Figure 3-1:	Participation rules	10
Figure 3-2:	Context and challenges of the project	10
Figure 3-3:	A pragmatic view on cognition.....	11
Figure 3-4:	Objectives along the timeline of CAPRI.....	11
Figure 3-5:	Work plan organization	12
Figure 3-6:	Milestones.....	12
Figure 3-7:	SPIRE and Processes4Planet presentation highlights	13





DI.1 Kick-off meeting result report

Figure 3-8: Initial slide 13

Figure 3-9: Bullet points of the First General Assembly Meeting 14

Figure 3-10: Legal, financial and administrative issues presentation 15

Figure 3-11: Type of cost 17

Figure 3-12: Time recording template 17

Figure 3-13: Visibility funding requirements..... 18

Figure 3-14: Overview of CAPRI project reporting duties 19

Figure 3-15: Project reporting dates 19

Figure 4-1: WPs list..... 20

Figure 4-2: WPs interaction..... 20

Figure 4-3: WP2 summary 21

Figure 4-4: Reference implementations of CPS/IoT as starting point of WP3 22

Figure 4-5: WP5 summary 23

Figure 4-6: SID WP5 summary 24

Figure 4-7: EIFFAGE WP5 summary 24

Figure 4-8: EIFFAGE WP5 use case..... 25

Figure 4-9: Evolution of cognitive solutions in asphalt use case 25

Figure 4-10: Project’s visual identity..... 26

Figure 4-11: Proposed methodology for technology transfer 27

Figure 5-1: Press release note first page 28

Figure 5-2: Press release note second page..... 29

List of Tables

Table 1: Acronym list 5

Table 3-1: Tasks of WP1..... 15

Table 3-2: Deliverables of WP1..... 16

Table 3-3: Deliverables of WP8..... 16



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ACRONYM LIST

Acronym	Full name
CA	Consortium Agreement
CAP	Cognitive Automation Platform
CAPRI	Cognitive Automation Platform for European Process Industry Digital Transformation
Covid-19	Coronavirus disease
EC	European Commission
GA	Grant Agreement or General Assembly depending of context
KoM	Kick-off meeting
SPIRE PPP	Sustainable Process Industries through Resource & Energy Public-Private Partnership
WP	Work Package

Table 1: Acronym list



I Executive summary

The coordinator will prepare and agree with all partners the Kick-off meeting result report, financial and technical agreements (D1.1) to clearly define the structure of the project and all the communication and information flows.

This document should be publicly available in order to provide essential project information about the online Kick-off meeting. The document has been prepared by CARTIF (acting as Project Coordinator) after the kick-off meeting, compiling all the necessary information.

Due to coronavirus pandemic (covid-19) CAPRI project face several inconveniences. The original face-to-face meeting foreseen were re-scheduled and held by online means. This document includes the minutes of the CAPRI Kick-off meeting (KoM). According to the GA, it is requested a summary of the meeting, the financial and administrative agreements and the consortium structure, being these issues presented in this document.

It has been structured according to the Kick-off meeting structure, two days being the first one a general overview and the second one about specific issues in the Work Packages and use cases. A separated section has been included for the WP1 where administrative, legal and financial aspects as treated at the end of the first session. Finally, the conclusions section includes all commitments and main remarks arisen during the Kick-off meeting, establishing also the basis for the work to be carried out during the following months.

2 Deliverable Description

2.1 Agenda

On April 2020, 28th to 29th, the partners of the CAPRI project, funded by the European Commission through the H2020 Programme, met by digital ways to have the kick-off meeting of the project. Twelve partners across 6 EU countries and 1 non-EU country integrates the consortium of CAPRI project.



Figure 2-1: Map of the CAPRI partners

In the following pictures the agenda of the periodic meeting can be seen.



SPIRE Project "CAPRI"

Kick.off-Meeting on 28-29, APRIL 2020 by SKYPE

AGENDA

Tuesday, April 28th, 2020

9:00 Welcome and general presentation of the project (CARTIF) with: (60mins)

- Overall objectives
- Work package structure with interaction of project partners
- Time schedule
- General requirements of Horizon 2020 projects & Presentation of SPIRE program (TBC).
- General coordination presentation, overview, risks, milestones, periods.(20mins)

10:00 Introduction of the project partners (all) with: (145mins)

- Very short introduction to the company / institute
- Role in the CAPRI project
- Introduction of participants
- In total not longer than 8 minutes!
- 11-11:15----PAUSE. (15mins)

12:15 General Assembly- COVID-19 in CAPRI, CA amendment proposal (45mins)

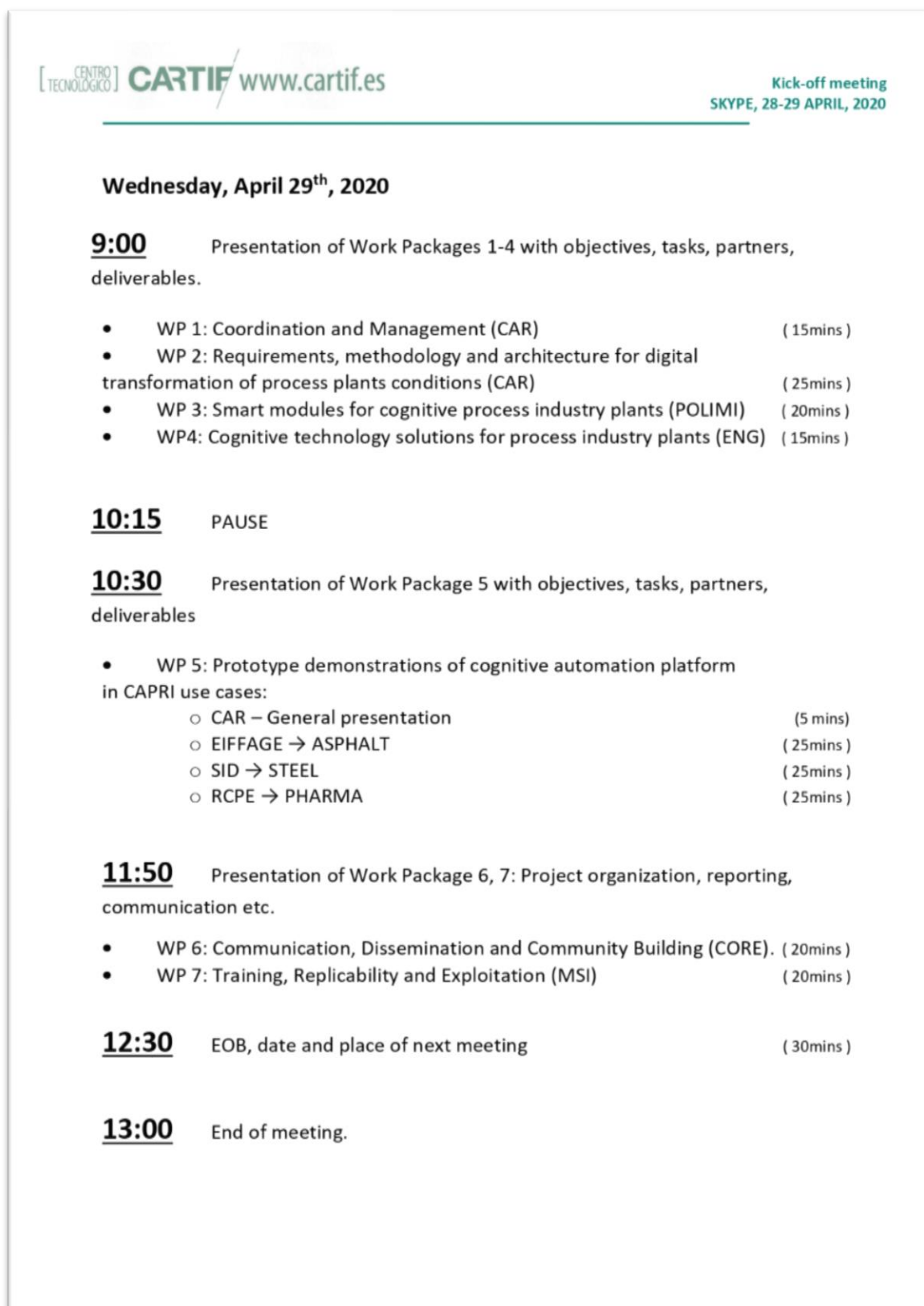
13:00 Lunch Break (60mins)

14:00 LEGAL, FINANCIAL, ADMINISTRATIVE ISSUES (45mins)

15:00 End of first day.

Figure 2-2: First Day agenda





3

Figure 2-3: Second Day agenda



2.2 Overview

The Kick-off-meeting (KoM), as the first consortium meeting of the CAPRI project, aims to meet face to face all of the partners, allowing to have deep discussions about the different activities to implement on it, and understand the project background, objectives, expected results and what has each partner to do to achieve all of them. The kick off meeting was structured in two days of proper KoM (28th to 29th of April) mandatory for all the project partners, and Pre-meeting sessions running 15th to 17th of April between CARTIF and each partner.

During the two days the consortium tried to give an answer to the following questions:

- Scope – what are we doing?
- Approach – how are we going to make this happen?
- Roles – who is doing what? who's responsible for what?
- Teamwork – how are we going to work together?
- GA Review – what are we doing, when, how, and what will we produce?
- Legal & financial- Which are the legal and financial issues that we need to take in consideration?
- To-do list. Which are next steps?
- AOB – any other business

Forty-five members participated in this first session

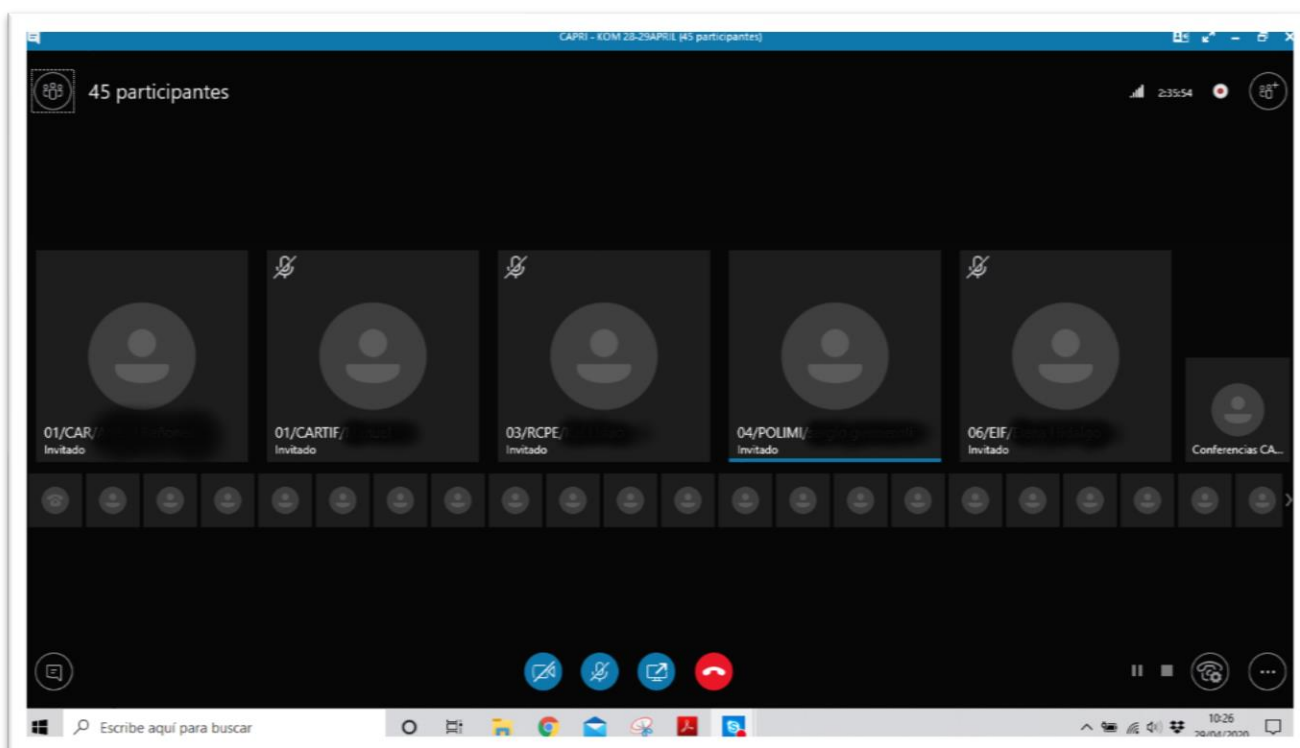


Figure 2-4: Screenshot of the attendees in the First Day

All partners had the opportunity to present the main objectives of CAPRI, understand the roll of each partner and responsibilities, set-up the work plan and interactions between WP, task, actions and deliverables, hold the First General Assembly and at last deal with the legal, financial,

DI.1 Kick-off meeting result report

administrative issues of the project (including the ethical ones). In the following tables the agenda of the periodic meeting can be seen.

How CAPRI will face its challenges, what are the main objectives to achieved, the methodology for getting them and the different actions to be implemented in the use cases will focus this general presentation of the project. Starting with the main figures of the project, there were remarked the main impacts to be achieved in the next three and a half years of work.

3 First day of KoM (28/04/2020)

3.1 Welcome and general presentation of the project

Anibal Reñones from CARTIF made the welcome to all attendees and explained briefly the main participation rules to make efficiently the intervention with such a big number of participants (nearly 50 persons from all the partners).

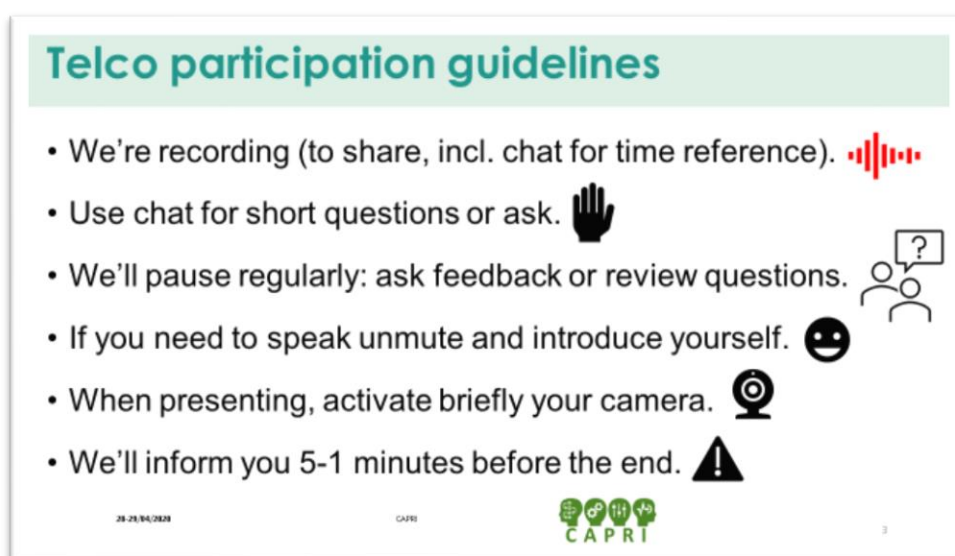


Figure 3-1: Participation rules

The presentation continued with an overview of the project that included an introduction of the context of process industry (where the CAPRI use cases belong), the challenges they are facing in terms of feedstock variation and its traceability, flexibility of such continuous processes and the overall impact in energy efficiency.

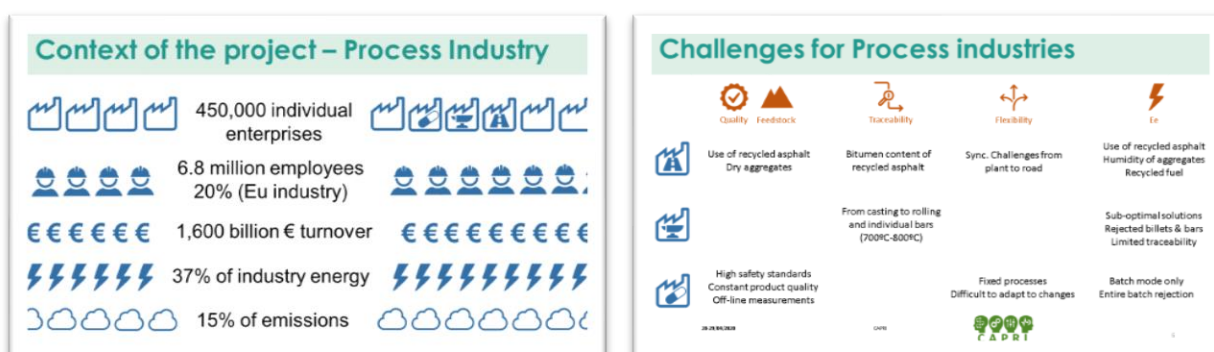


Figure 3-2: Context and challenges of the project



Then the presentation get focused in the issue of cognition as a technical solution to deal with all the challenges the industries are facing taking advantage of the artificial intelligence advancements and how this can help dealing with the uncertainties and the inherent limitations of humans when dealing with the Big Data output from the manufacturing processes.

In this part of the presentation, Nenad Stojanovic from NISSATECH partner, did a pragmatic view of how to approach “cognition” concept in relation to the objectives of the projects and its relation with different automation levels (from sensors to planning of manufacturing).

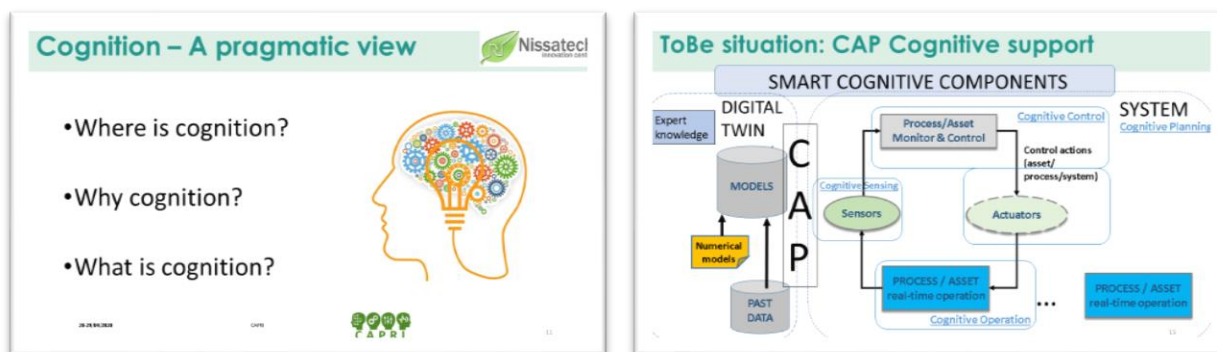


Figure 3-3: A pragmatic view on cognition

The general presentation of the project reviewed the main objectives of the project including the scientific and technical objectives divided into main three categories:

- Process Industry Digital Transformation
- Improved performance in Process Industry
- Next generation of Cognitive plants

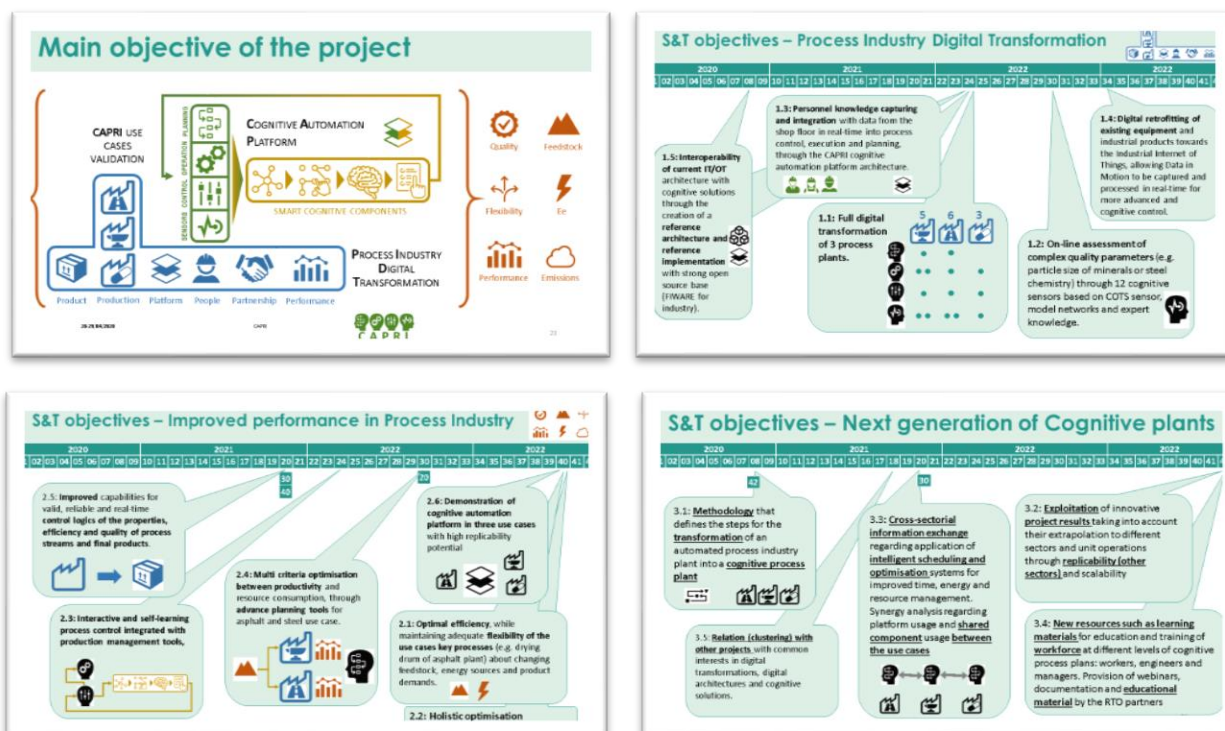


Figure 3-4: Objectives along the timeline of CAPRI



DI.1 Kick-off meeting result report

The first part of the meeting finalized with the review of the Methodology including how the different cognitive solutions will evolve from technology validation in industrial labs to the final demonstration into use cases including the demonstration of all them together integrated into the so-called Cognitive Automation Platform (ins short **CAP**). To achieve this, the work packages and milestones organization was also presented and discussed.



Figure 3-5: Work plan organization

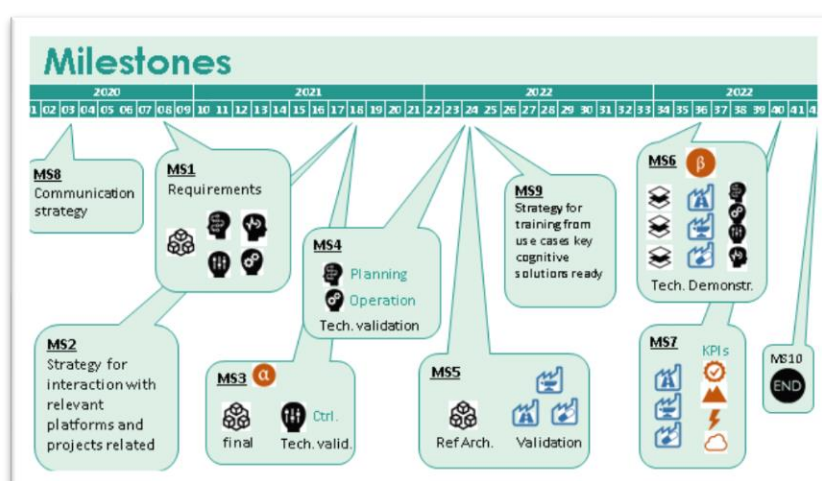


Figure 3-6: Milestones

3.1.1 Presentation of SPIRE program

During the welcome of the project CAPRI consortium had the opportunity to know by first-hand about the initiatives of former SPIRE PPP, now called Processes4Planet. Mrs Angels Orduña was so kind to present the details of the association, its cross-sectorial approach and foreseen key performance indicators including the expected impacts for 2030.

- **Reduction in fossil energy intensity of up to 30%** from current levels through a combination of, for example, introduction of novel energy-saving processes, process intensification, energy recovery, sustainable water management, cogeneration heat-power and progressive introduction of alternative (renewable) energy sources within the process cycle
- **Reduction of up to 20% in non-renewable, primary raw material intensity** compared to current levels, by increasing chemical and physical transformation yields and/ or using secondary and renewable raw materials
- **Significant contribution to the political and societal objectives of drastic efficiency improvement in CO₂-equivalent of up to 40%**



Figure 3-7: SPIRE and Processes4Planet presentation highlights

3.2 Introduction of the project partners

After the introduction of the project, each of the partners following the order of the GA presented briefly their organizations during approximately 8 minutes each. Thus, the attendees had the opportunity to meet more in deep their colleagues and their companies or organizations.

3.3 First General Assembly

After a lunch break, in the first day CAPRI consortium held their First General Assembly. All the deliberations are confidential but we mainly covered the impact of covid-19 in the project, agreeing to hold a new and extraordinary General Assembly to treat again this challenge. You can see a couple of pictures about the first slide and the main topics.



Figure 3-8: Initial slide

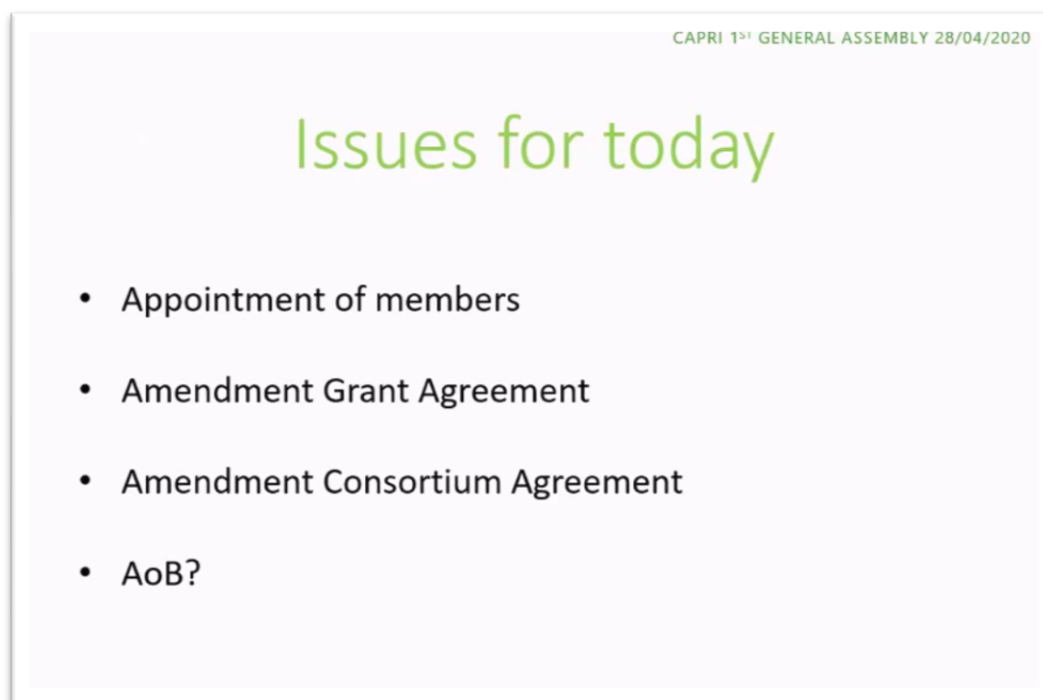


Figure 3-9: Bullet points of the First General Assembly Meeting

3.4 Legal, financial and administrative session

3.4.1 Introduction

As leader of WP1, the coordinator CARTIF summarize the legal, financial and administrative issues. This presentation was the last one of the first day session.

Manuel D. Martín from CARTIF made the presentation of the WP1 with an overview of the WP and description of tasks, including responsibilities, relation to other WPs, expected results and planned efforts for each partner involved in this work package. The main objective of this work package is to coordinate and supervise all project activities among the partners, to monitor quality and timing of project results and to ensure an adequate administrative and financial management of the project. Manuel also mentioned WP8 related to ethics requirements, included by the EC in the negotiation phase of the GA.



Figure 3-10: Legal, financial and administrative issues presentation

3.4.2 WPI

WP1, called Coordination and Management, included several task to be carried out all over the forty two months of CAPRI project. You can see a list of the tasks in the following table:

Tasks	Name
1.1	Overall legal and contractual management
1.2	Financial and administrative management
1.3	Organization of kick-off and periodic meetings
1.4	Monitoring of project activities and work progress
1.5	Knowledge management and other innovation-related activities
1.6	Ethical issues management

Table 3-1: Tasks of WP1

CARTIF is the deliverable leader and responsible of all the five deliverables. The expected results of these work packages for the next months can be seen in the table below:



Number	Name	Month
1.1	Kick-off meeting result report, financial and technical agreements	2
1.2	Project Management Guidelines	2
1.3	Minutes of project management meetings	42
1.4	Data management plan initial version	6
1.5	Data management plan final version	42

Table 3-2: Deliverables of WP1

3.4.3 WP8

Manuel D. Martín continued the presentation explaining the WP8 about Ethics. It was an obligation imposed by the EC, being requested to submitted three incoming deliverables as seen in the following table:

Deliverables	Name
8.1	Humans
8.2	Protection of Personal Data
8.3	Non-EU Countries

Table 3-3: Deliverables of WP8

The three deliverables are being expected to be submitted in month 3 (June 2020), being CARTIF responsible of these obligations, in collaboration with the rest of the partners.

3.4.4 Legal, administrative and financial issues

After the presentation of WP1 and WP8, Manuel D. Martín made a presentation of administrative, legal and financial issues, including roles, management structure and committees, communication mechanisms, financial issues (budget, eligible costs, EC rules), project reporting, current status (GA, CA. Pre-financing payments and amendments). Main issues to highlight from this presentation can be found in the following pictures:



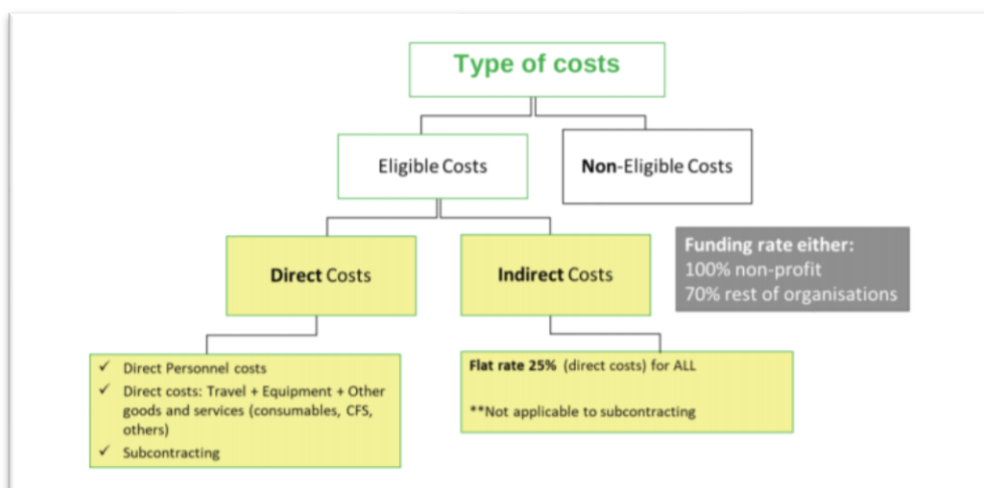


Figure 3-11: Type of cost

TIME RECORDING FOR A HORIZON 2020 ACTION – Minimum requirements								
Title of the action (acronym):				Grant Agreement No:				
Beneficiary's / linked third party's name:								
Name of the person working on the action:				Type of personnel <small>(see Art. 6.2.A Grant Agreement)</small>				
Month	[Month / Year]	[Month / Year]	[Month / Year]	[Month / Year]	[Month / Year]	[Month / Year]	...	Total
Number of hours								
Work packages of Annex 1) to which the person has contributed by the reported hours								
Date and signature of the person working for the action								
Name, date and signature of the superior								

Figure 3-12: Time recording template

VISIBILITY OF EU FUNDING (I)

Choose format:

Sticker info


Please enter your 6-digit project number.

**Remember
introduce the
code 870062**


➔

Project number
870062

Choose format:



This equipment is part of a project that has received funding from the **European Union's Horizon 2020** research and innovation programme under grant agreement N°870062



This equipment is part of a project that has received funding from the **European Union's Horizon 2020** research and innovation programme under grant agreement N°870062

Figure 3-13: Visibility funding requirements

Daniel Martín from CARTIF complemented Manuel's session covering some additional aspects regarding the submission of deliverables, project reporting and other documentation to the EC using the Funding & Tenders Portal. Also, Daniel summarized the current Status of the GA, CA and the pre-financing payments.

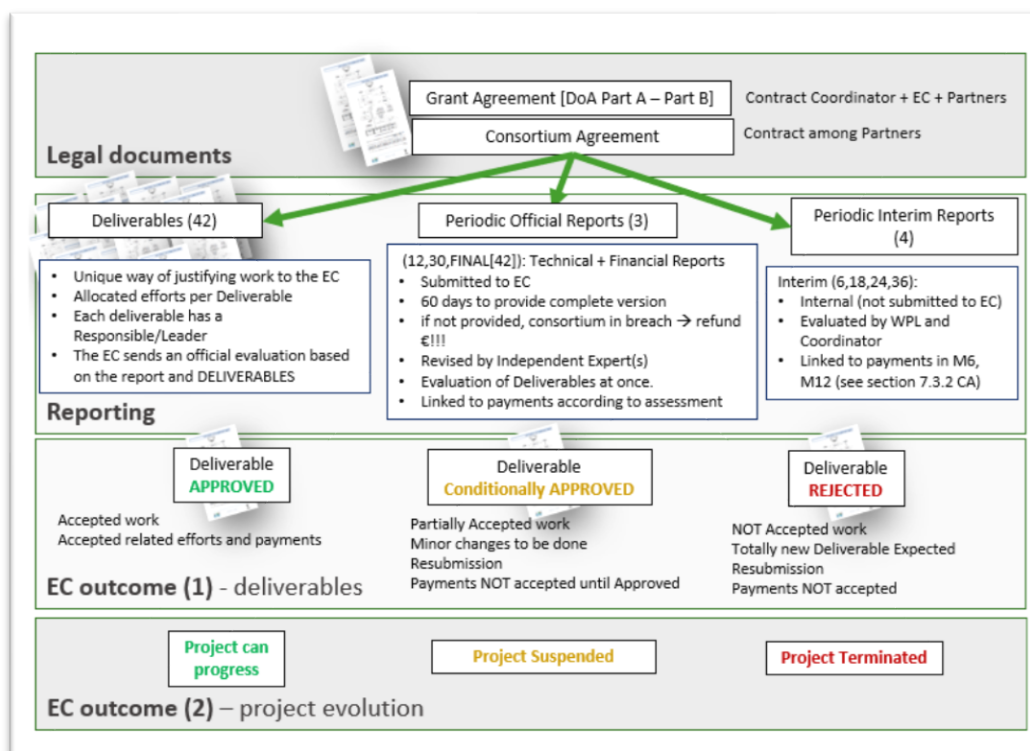


Figure 3-14: Overview of CAPRI project reporting duties

CAPRI KICK-OFF MEETING- 28/04/2020

Project Reporting

Financial and technical reports to the EC are due:

- PR1 (M1 to M12):** Due on 31/03/2021 + 60 days
(period 1: start date 01/04/2020, end date 31/03/2021, duration 12 months)
- PR2 (M13 to M30):** Due on 30/09/2022 + 60 days
(period 2: start date 01/04/2021, end date 30/09/2022, duration 18 months)
- PR3+Final (M31 to M42):** Due on 30/09/2023 + 60 days
(period 3: start date 01/10/2022, end date 30/09/2023, duration 12 months)

Figure 3-15: Project reporting dates

End of first day

4 Second day of KoM (29/04/2020)

In the previous day was held the information about WP1 and WP8 and in the second session we treated specifically with each of the rest of WPs.

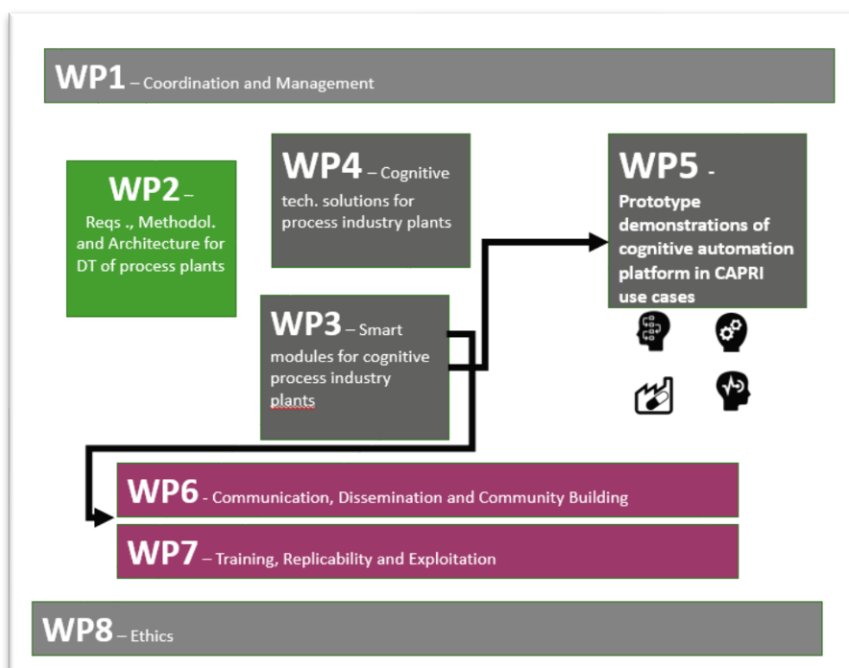


Figure 4-1: WPs list

A diagram illustrating the relationships between the different WPs follows below:

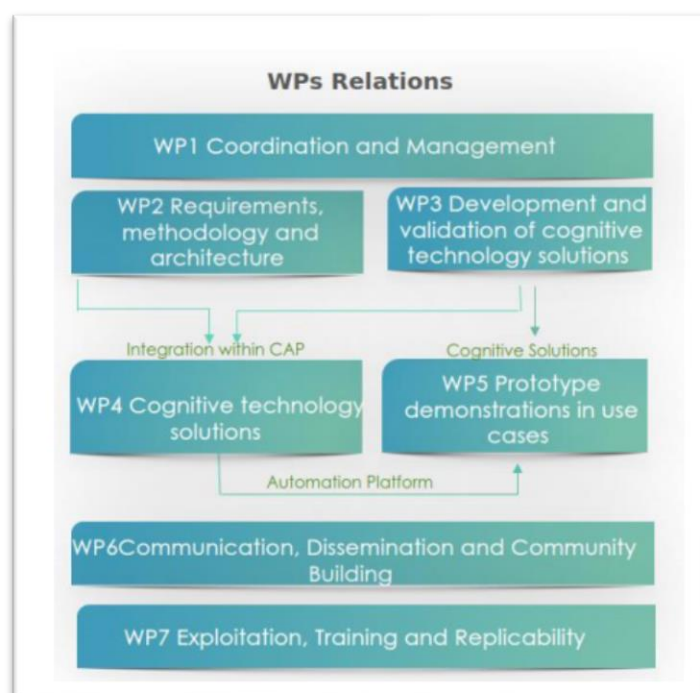
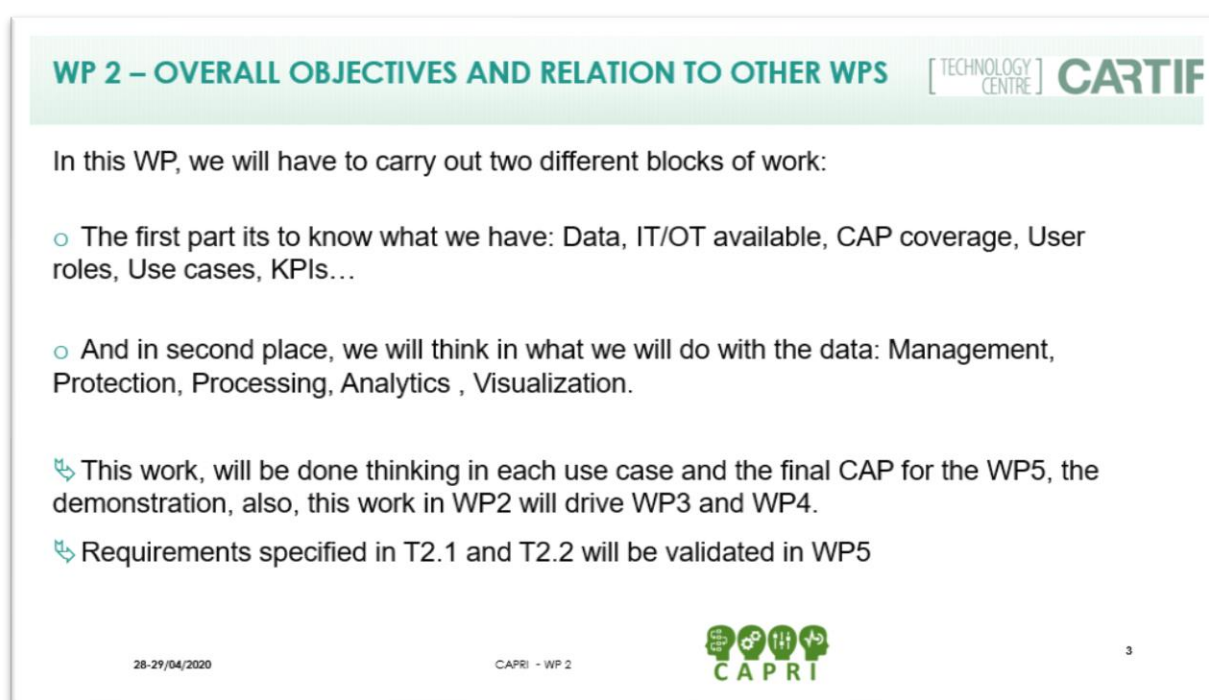


Figure 4-2: WPs interaction

4.1.1 WP2

in this WP, the first work package, we have to define how what we do the project, define specifications, define the CAPRI reference architecture. Study and implement a new methodology to define and assess DT pathways for process industry. The most important of this part, it's to define de first steps to work, this WP will mark the development of the project.



WP 2 – OVERALL OBJECTIVES AND RELATION TO OTHER WPS [TECHNOLOGY CENTRE] **CARTIF**

In this WP, we will have to carry out two different blocks of work:

- The first part its to know what we have: Data, IT/OT available, CAP coverage, User roles, Use cases, KPIs...
- And in second place, we will think in what we will do with the data: Management, Protection, Processing, Analytics , Visualization.

↳ This work, will be done thinking in each use case and the final CAP for the WP5, the demonstration, also, this work in WP2 will drive WP3 and WP4.

↳ Requirements specified in T2.1 and T2.2 will be validated in WP5


28-29/04/2020 CAPRI - WP 2  3

Figure 4-3: WP2 summary

4.1.2 WP3

During the KOM, the WP3 leader (POLIMI) presented objectives and tasks of the WP. It is proposed and approved to start the WP at M6 (September 2020) in order not to lose one month at the beginning (August 2020). The GANTT plan has been also improved in order to align the different tasks and to allow a cross-fertilisation among them. An alignment also of the expected deliverables has been agreed. These changes are proposed for an amendment to the current CAPRI contract.

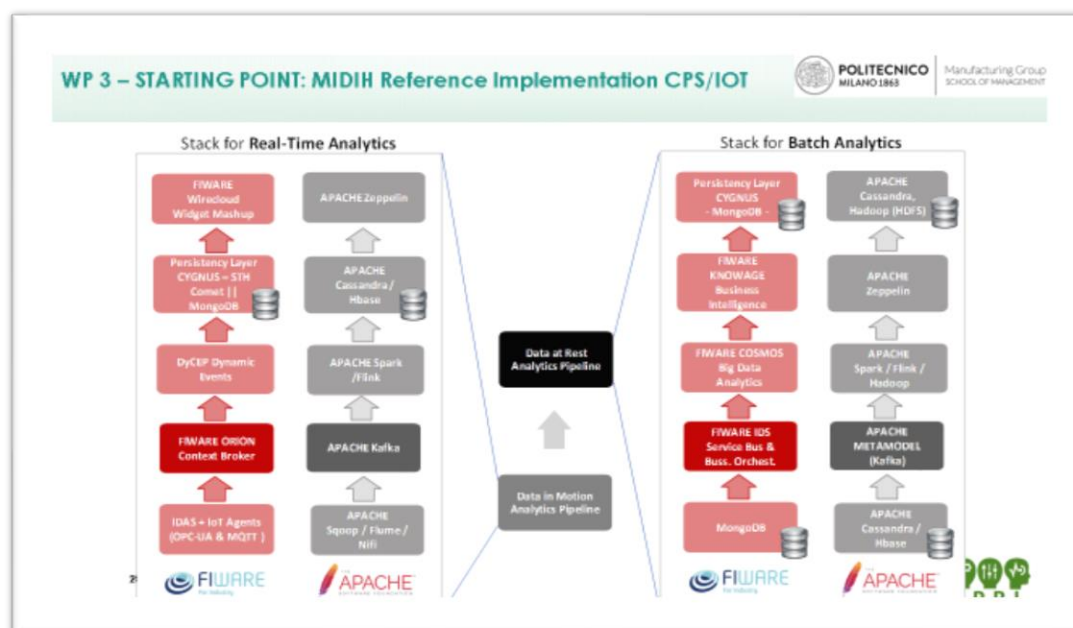


Figure 4-4: Reference implementations of CPS/IoT as starting point of WP3

4.1.3 WP4

WP4 deals with the development and demonstration (TRL6) of cognitive technologies working integrated together within the so-called Cognitive Automation Platform (CAP). It involves the integration of smart technologies developed in WP3 for cognitive solutions within the CAPRI architecture for sensing, control, operation and planning, using the interfaces of the CAPRI automation platform.

These solutions, with integrated models and tools, will be in-line with the architecture and requirements from WP2 and WP3 for integration with the CAP, which will be developed in a modular approach, i.e. different modules can be easily “plugged in” to dedicated solutions, delivering the cognitive applications towards the appropriate user role (e.g. planners, managers and workers).

4.1.4 WP5

This WP, it's the last part of the work of development, we have to evaluate the work done during the development of the project in the three use cases and done the final update of CAPRI Digital Transformation Methodology



WP 5 – OVERALL OBJECTIVES AND RELATION TO OTHER WPS


TECHNOLOGY CENTRE
CARTIF

This WP has the following three objectives:

- Creation and commissioning of CAPRI demonstration prototypes of CAP
- Evaluation (6-month minimum) of the performance improvements thanks to cognitive solutions to validate the initial targets and provide effective stories for replication purposes and dissemination
- Final update of CAPRI Digital Transformation Methodology for process industry plants into cognitive plants.

↪ This work will be applied in WP6 and WP7, replication and dissemination

28-29/04/2020CAPRI - WP 5


CAPRI

2

Figure 4-5: WP5 summary

RCPE has presented the pharma use case during the second day of the kick-off meeting. A high-level introduction to pharmaceutical manufacturing of solid dosage forms, including the typical unit operations was presented. The presentation further focused on the RCPE in-house manufacturing line, i.e. ConsiGma® CTL25 system, which will be use during the project. Challenges related to quality control and waste reduction of such a continuous manufacturing line have additionally been highlighted. The sensing and control approaches such as model based control and material discharge strategies, automated fault detection and the prediction of the tablet dissolution profile (a key product quality attribute) were further introduced.

SID will be responsible for steel use case. The Steel use case definition in WP5 explained the process general view and where in this process view are expected to help the cognitive tool developed by BFI. In the steel case the whole process, from first raw material (scrap) to end-product (special steel bars) is considered and this includes three main processes that, in fact, are executed in three different moments and installations. The first is the steelmaking shop. In this part of the overall process the raw material is melted, refined and solidified to a semiproduct called billet. Some days later the billet is heated again to enter the rolling mill and stand some thermomechanical treatments that will output a bar of the desired size. Later on, the finishing process will consist in some final reparations of the bars and quality measurements before the material is sent to the customer. In the presentation, the cognitive tools to be developed were located in the corresponding parts of the process and they are described in a slide. The architecture to be developed by MSI for implementation was in another slide too.



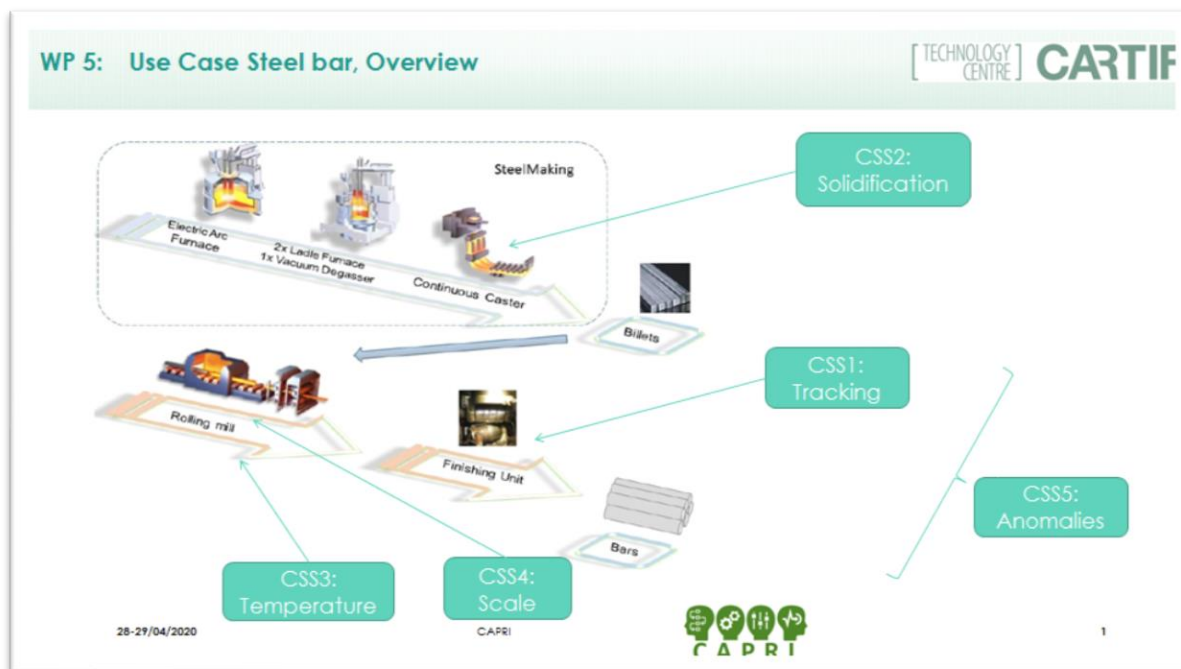


Figure 4-6: SID WP5 summary

EIFFAGE explained their duties in WP5 as responsible of the asphalt use case.

Understanding asphalt mix and manufacturing process:

1. An Asphalt Mix is a three A material: Aggregates, Asphalt (bitumen) and Air voids.
2. Asphalt Mix Batching Plant. Process lines and steps:
 - Aggregates Feeding, Drying and Heating, Filler Separation and Storing.
 - RAP (Reclaimed Asphalt Pavement) process line.
 - Bitumen process line.
 - Mixing step.

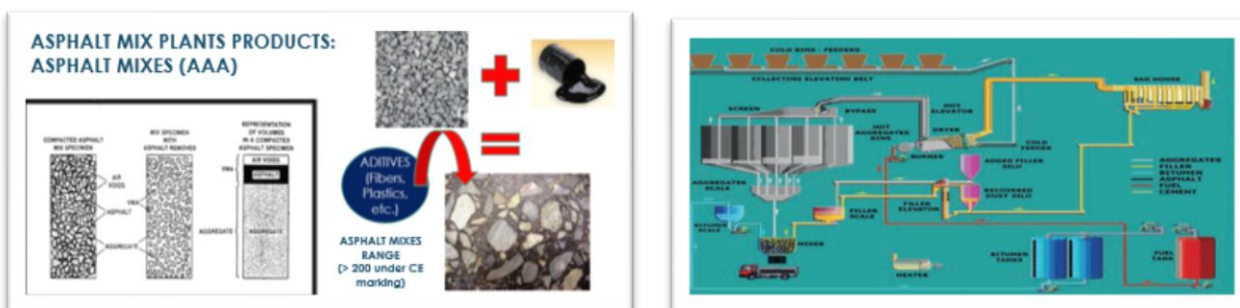


Figure 4-7: EIFFAGE WP5 summary

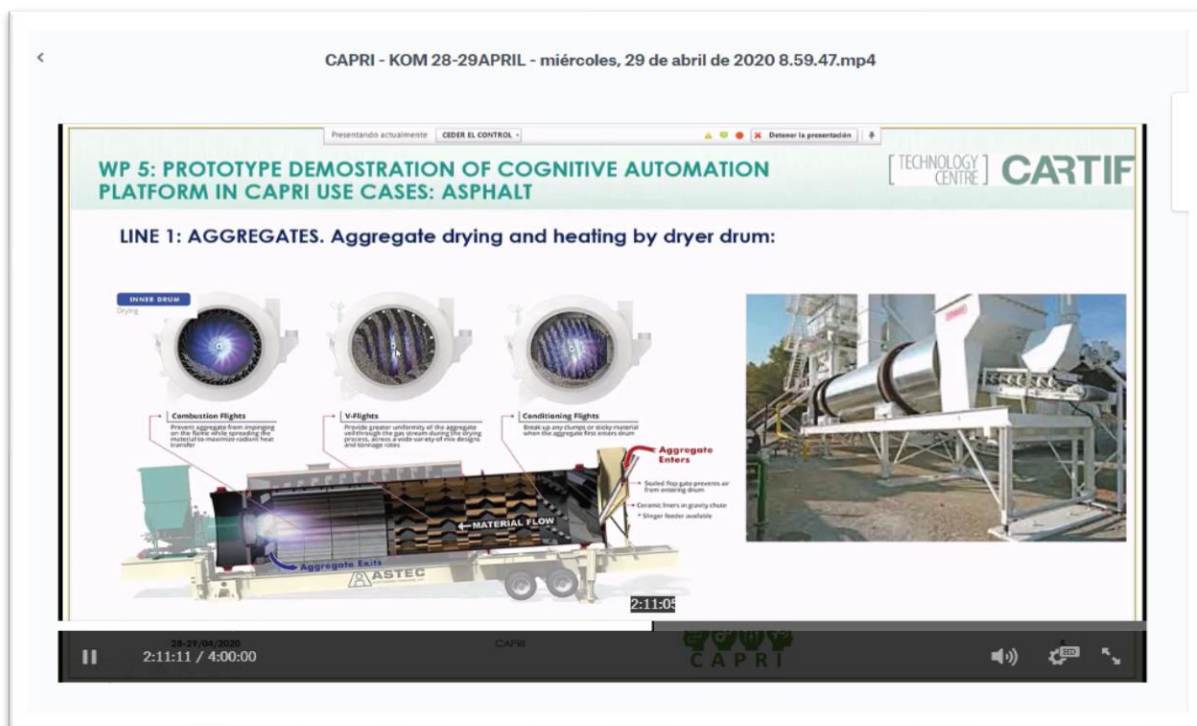


Figure 4-8: EIFFAGE WP5 use case

After the presentation from EIFFAGE partner, Anibal Reñones introduced the consortia the full set of cognitive solutions for the asphalt plant and how they are connected, from the initial steps in laboratory settings (WP3) to a maturity evolution of each cognitive solutions including their interrelation (WP4) and how they will be demonstrated in this WP5. You can see a picture of Anibal’s presentation below.

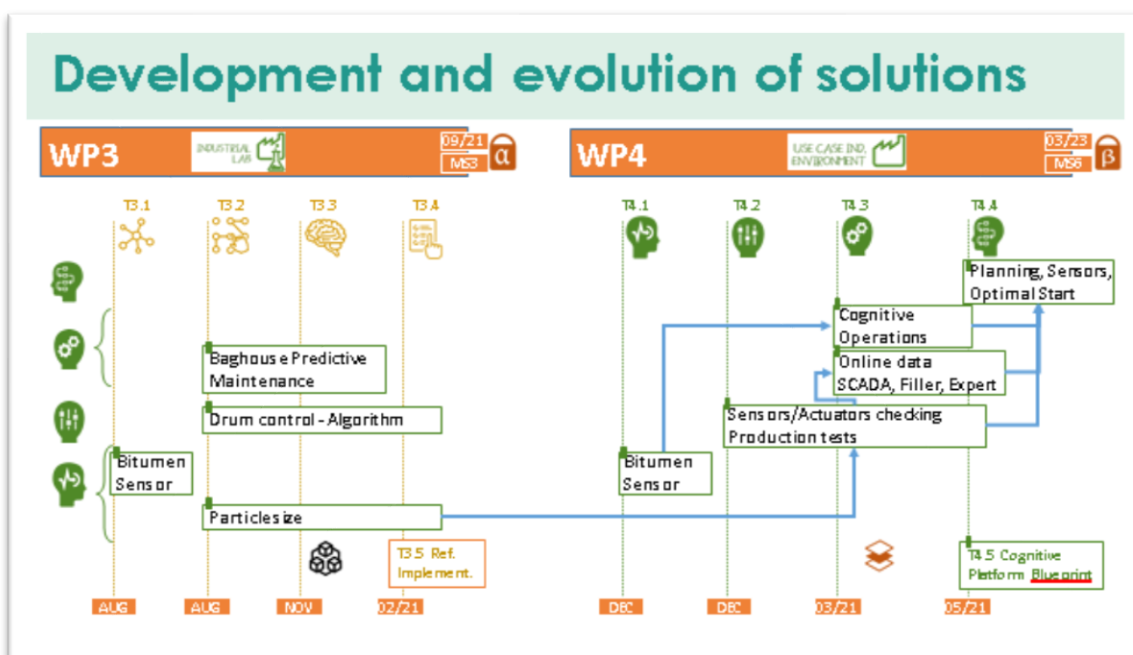


Figure 4-9: Evolution of cognitive solutions in asphalt use case



4.1.5 WP6

CORE INNOVATION as WP6 leader, presented the WP 6 – Communication, Dissemination and Community Building on the 2nd day of KoM.

To begin with, CORE presented the main elements of the WP: the objectives, the specific Tasks that the Capri consortium has to work on (T.6.1 and T.6.2 presented by CORE and T.6.3 by POLIMI), the Deliverables and the related Milestones. It was underlined that the WP6 requires effort by all partners, especially for publishing papers and other dissemination actions.

CORE officially displayed to the consortium the project Logo and analyzed its concept, presenting afterwards its different formats, the Colour Palette and Logo's applications on the Templates (for PPT, Deliverables, MoM and Agenda). Additionally, the social media of CAPRI were presented for the first time in the consortium (Twitter and LinkedIn) and partners were invited to follow the accounts. At the end of the presentation CORE concluded with what it is done so far and what's the next steps and actions of the WP, such as the finalization of the Visual Identity and the creation of the Website.

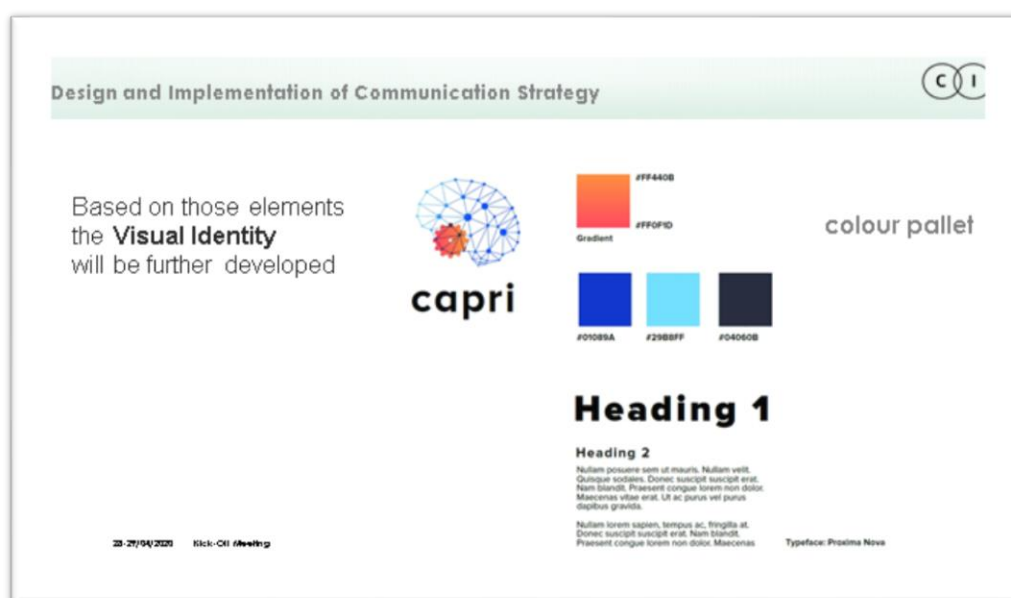


Figure 4-10: Project's visual identity

The importance of the communication and dissemination activities was remarked also in the overview. Face to face events (when possible due to covid-19 restrictions) combined with online meetings and other communication activities involves dissemination among the different stakeholders the knowledge gets working in the project.

4.1.6 WP7

This WP, called Training, Replicability and Exploitation. A presentation about this WP was held by MSI, partner leader of this WP, dealing with replication and exploitation of the project. Also it was mentioned the necessity of an adequate protection of the intellectual property generated by CAPRI project.



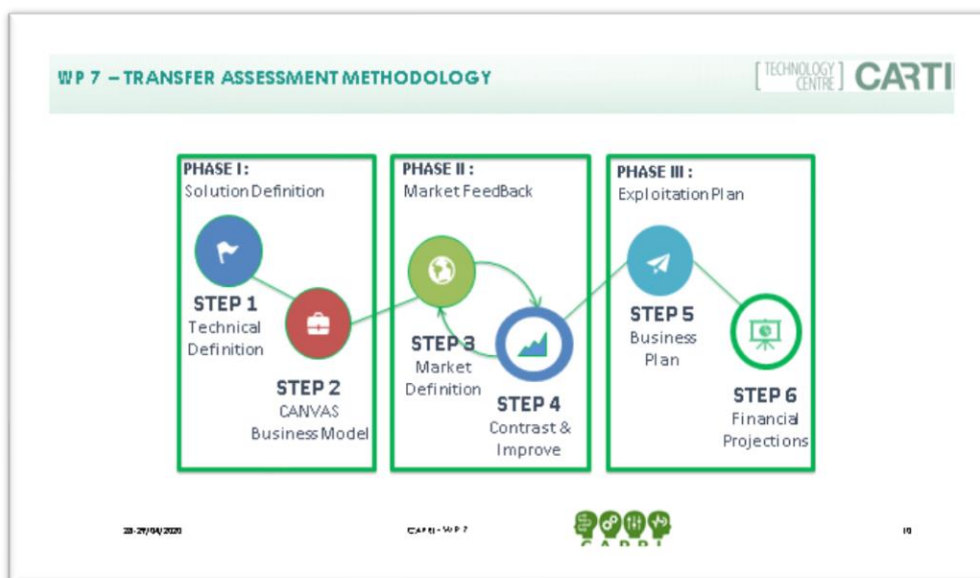


Figure 4-11: Proposed methodology for technology transfer

4.2 Conclusions and futures commitments

For ending the meeting, the coordinator summarized the main conclusions extracted from the different sessions and the commitments that each partner has for the following months. Starting with the administrative session, the more urgent issues would be those that will make easier the communication among the partners. Some mailing lists are being created by CAR and all of the partners should check their mail for the reception of the alias. The contact list available on the shared repository (based on ALFRESCO open source version) will be reviewed and updated in May 2020 and all the presentations and recording session of the KoM will be uploaded on the ALFRESCO repository in following days. Also, the General Assembly decided to meet again in an extraordinary meeting to deal with the restrictions of covid-19 (and other potential changes to the project) and establish the next periodic meeting in late September 2020.

Regarding WP1 all partners are encouraged to review the Manuel's and Daniel's presentation to be sure that have understood it and comply with all H2020 rules to avoid problems later on. Check that costs are properly allocated to be eligible (remember: personnel costs are only eligible if hired directly by beneficiaries/third parties), otherwise they should contact CARTIF as soon as possible. Very important has been to remark that the visibility of EU funding should be considered (communications, scientific publications, equipment, etc.). Also, it was remembered that publications should be Open Access obligations.

As immediate WP2 actions, CAR will create a template to gather requirements of all cognitive solutions in the three use cases, and propose a calendar for periodic meetings specially in this period of project starting.

From communication point of view, CORE partner will share logo design to have feedback and will create a press release for informing about the starting of the project to the outside world.

End of second day

5 Press release notes

After the Kick-off meeting CORE as responsible of the WP6: Communication, Dissemination and Community Building summarize the KoM in a press release note.

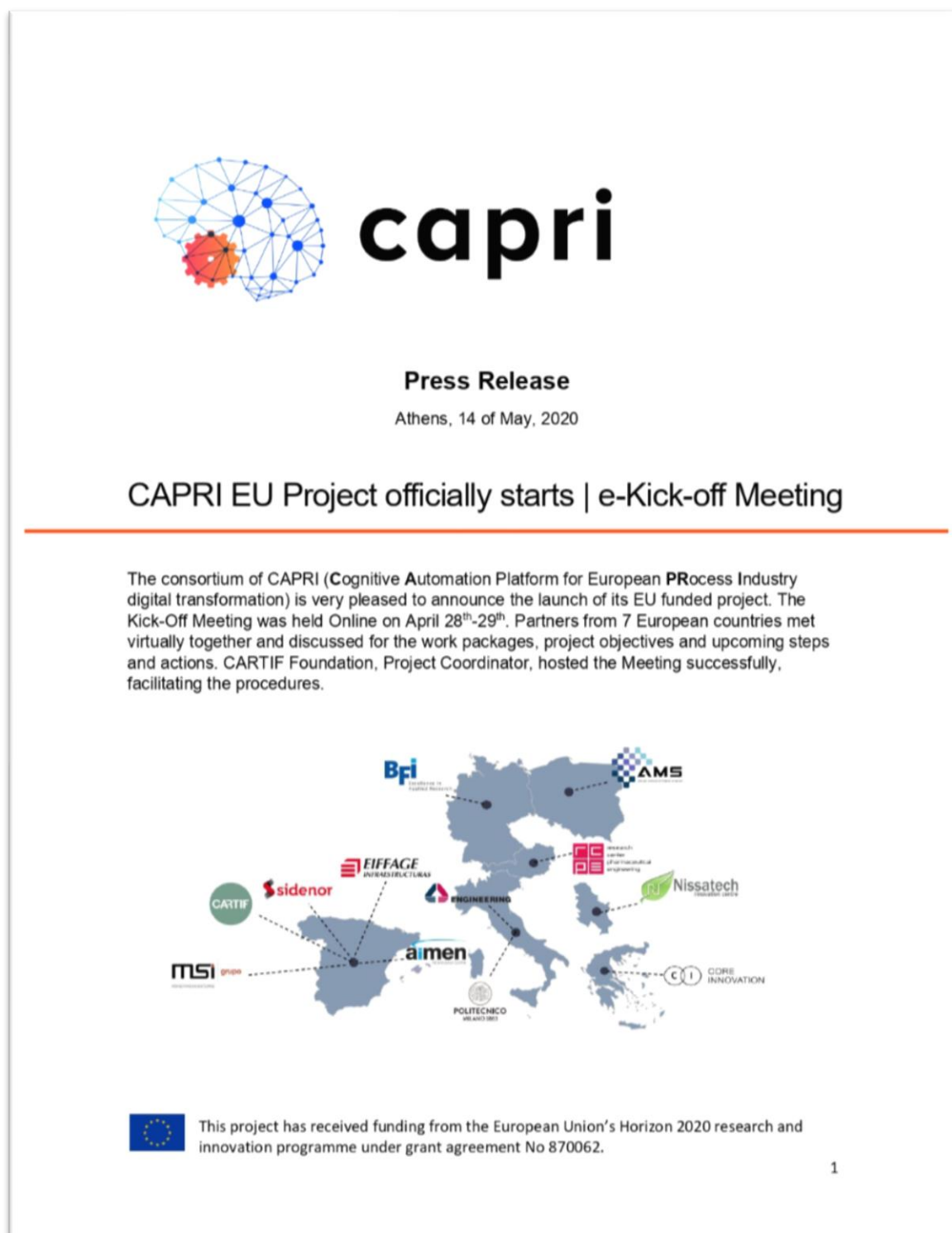


Figure 5-1: Press release note first page



About the project

CAPRI is a 3-year Horizon-funded project that brings cognitive solutions to the Process Industry by developing, testing and experimenting an innovative Cognitive Automation Platform (CAP) towards the Digital Transformation. To achieve that, CAPRI enables cognitive tools that provide existing process industries flexibility of operation, improving the performance across different indicators (KPIs) and state of the art quality control of its products and intermediate flows.

The project will demonstrate its applicability in the key process industries of Asphalt (minerals), Pharma industry (chemical) and Steel.

CAPRI Project consists of 12 partners from Spain, Italy, Germany, Austria, Poland, Serbia and Greece. The consortium is an excellent cluster of research institutions and universities, enterprises and industry partners.

Project Full Name: Cognitive Automation Platform for European PProcess Industry digital transformation

Project ID: 870062

Start Date: 01/04/2020



Duration: 42 Months


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 This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 870062.

2

Figure 5-2: Press release note second page

All this information and the deliverable itself will be publicly accessible from our official webpage: <https://www.capri-project.com/> (currently under construction).

