

capri

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

Deliverable

DI.9 Report 5: Minutes of project management meetings (M30)

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EXECUTIVE SUMMARY

This document belongs to the framework of WP1 (Coordination and Management) of the CAPRI project and provides minutes of discussions held in the fifth periodic meeting (month 30). As stated in the GA once every six months there will be a periodic meeting of all partners to assess progress on ongoing tasks, evaluate potential risks, review next steps, and adjust the work plan if necessary.



RELATED DELIVERABLES

Number	Full name
D1.1	Kick-off meeting result report, financial and technical agreements (M1)
D1.3	Report 1-Minutes of project management meetings (M12)
D1.6	Report 2-Minutes of project management meetings (M18)
D1.7	Report 3-Minutes of project management meetings (M18)
D1.8	Report 4-Minutes of project management meetings (M30)
D1.10	Report 6-Minutes of project management meetings (M36)
D1.11 (final version)	Final Report: Minutes of project management meetings (M42)



I Deliverable Description

The present document gathers the main conclusions of the different points of the agenda of the fifth Consortium Meeting of the project, which was held by online means via Microsoft Teams on 27th September 2022.

CARTIF, acting as project coordinator arranged the details of the project meetings (including the agenda) in a timely manner. At least one representative from each consortium members assisted to the meeting and shared their experience concerning the development of CAPRI project. They evaluated the actions taken in the previous six months (M24-M30) of the project and also study the upcoming activities. As a novelty in this project management meeting it has been taken a brief recapitulation of the work performed from M13 to M30. This exceptional check has been made in order to prepare the next official review with the Project Officer and External reviewer scheduled at next 4th November.

The presentations of each partner were previously uploaded to Alfresco project shared repository, and could be seen by all the members of CAPRI consortium.

Below it is presented the whole list of partners.

Table 1: List of Partners

No	Name	Short name
1	FUNDACION CARTIF	CAR
2	ENGINEERING – INGEGNERIA INFORMATICA SPA	ENG
3	RESEARCH CENTER PHARMACEUTICAL ENGINEERING GMBH	RCPE
4	POLITECNICO DI MILANO	POLIMI
5	VDEH-BETRIEBSFORSCHUNGSINSTITUT GMBH	BFI
6	EIFFAGE INFRAESTRUCTURAS SA	EIF
7	SIDENOR ACEROS ESPECIALES SL	SID
8	MONDRAGON SISTEMAS DE INFORMACION SOCIEDAD COOPERATIVA	MSI
9	ASOCIACION DE INVESTIGACION METALURGICA DEL NOROESTE	AIMEN
10	CORE INNOVATION AND TECHNOLOGY OE	CORE
11	PRIVREDNO DRUSTVO ZA PRUZANJE USLUGA ISTRAZIVANJE I RAZVOJ NISSATECH INNOVATION CENTRE DOO	NISSA
12	APPLIED MANUFACTURING SCIENCE SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA	AMS



2 Agenda schedule

Below it can be found attached the agenda of the meeting. There were slots for each WP and extended time dedicated to the three pilots involved in the project (asphalt plant, steel plant and pharma pilot plant). The duration of different sessions included a slot of time about the status of the upcoming deliverables and next steps for the first six-month period of the second year of the project (M25-M30) including the next review with the European Commission.

Table 2: Review Meeting M24 agenda

ITEM	START	END	PRESENTER
WELCOME	8:30	8:35	CAR
OVERVIEW		75'	
Asphalt , work performance and what we can show	8:35	8:50	CAR/AIMEN
Steel , work performance and what we can show	8:50	9:05	BFI/MSI
Pharma , work performance and what we can show	9:05	9:20	RCPE
CAP , work performance and what we can show	9:20	9:35	ENG
COFFE BREAK	9:35	10:05	
Wp3 - General objectives, tasks, objectives reached --> WP4 & WP5, work performance and what we can show here	10:05	10:20	POLIMI
Wp4 - General objectives, tasks, GANTT, work performance and what we can show here	10:20	10:35	ENG
Wp5 - General objectives, tasks, GANTT, work performance and what we can show here	10:35	10:50	CAR
Wp6 - General objectives, tasks, GANTT, DELIVERABLES SUBMITTED, work performance and what we can show here	10:50	11:00	CORE
Wp6 - Dissem events / Papers, cluster and the meetings,	11:00	11:20	CORE
Wp7 - General objectives, tasks, GANTT, work performance and what we can show here	11:20	11:35	MSI





Wp1 - General objectives, tasks, GANTT, work performance and what we can show here	11:35	11:45	CAR
Review of the last and the new report point per point	11:45	13:15	CAR
AoB - QUESTIONS	13:15	14:00	ALL

2.1 Overview

In this first slot of the meeting, each partner had to explain Cognitive Solution per Cognitive Solution state of development, hard points, and links between other cognitive solutions that can affect their integration within the overall CAP platform/architecture. After this state of situation of each point it started the part of thinking about the next official review meeting with the European Commission, and review with all the consortium the most important points developed since the last official review, M12, and discuss about how to prepare that meeting.

2.1.1 Asphalt use case

The Asphalt use case started with the explanation of the work performed so far by CARTIF in the three cognitive solutions that have to develop, CAS2, CAC1 and CAP1. This explanation was structured per work package and work done in WP3 since M12, in WP4 and in WP5.

Per each WP, CARTIF explained all the documents, files, software, videos and so on that can be shown during the meeting of the official review of the second periodic report.

After the CARTIF explanation, AIMEN shown the work done with CAS1, explaining the different models, simulations and configurations analyzed to obtain the final cognitive sensor implemented in the asphalt plant.

The last part of the asphalt use case time was for CORE partner, with the CAO1 solution, where they explained both applications and algorithms implemented for this solution.

2.1.2 Steel use case

The Steel use case started with MSI, with a general explanation of the structure of the CAP in the Steel use case and was a good point to discuss about how to present this to the European Commission.

The explanation of the Cognitive solutions was more focused in the work performance during the last 6 months by BFI.

After that it was discussed how organize efficiently the work to be shown at the review meeting given the time constraints and which would the more appropriate demonstrations with their associated user interfaces developed for the CAP platform of the project.

2.1.3 Pharma use case

Pharma use case was presented by RCPE and their presentation was structured CS per CS, explaining the actual state of development, showing most of their project outputs with the help of Grafana software tool as visualization layer for their CAP Reference Architecture.

During the explanation, they defined the level point of maturity of each CS and the work performed so far for each Work Package and the related pending points if any.





It was also explored how to best show the results up to now during the upcoming review and how to better split the time between the explanation of the results and the demonstrations to be done. Due to the fact that the pilot plant of RCPE is not an actual plant the more feasible way to demonstrate is to show the results of the more recent historical data from specific experiments.

2.1.4 CAP software / data analysis

ENGINEERING started their presentation of the general structure of the CAP and explained per use case the particularities of each one, respect the new open sources components that has been developed since the project started.

All the use cases have the same CAP, based in FIWARE core architecture but depending on the particularities of the corresponding Cognitive Solution, different FIWARE and/or APACHE based open source modules have been used and each one may use different visualization tools as visualization layer of the Architecture depending on the requirements of the solutions.

The next steps will be directed towards the finalization of the integration of the different cognitive solutions within the platform and the improvement of user interfaces as part of the first version of the whole application (or set of solutions) for each use case (asphalt, steel and pharma).

2.2 WP3

During the WP3, POLIMI as leader, focused on the summary of the work carried out. Since the last 6 monthly meeting there has not been any progress as the work package has already finished.

POLIMI expresses their suggestions of how to show the different levels of the performed work and concludes with the compilation of all the information about the developments at laboratory level of all the cognitive solutions in the different use cases with a special attention to the effort realized to share in CAPRI Zenodo channel the different results (data, source code, reports, demonstration videos) in an open way to support the commitment of the project with the FAIR principles.

2.3 WP4

This work package has been the most active during these last 6 months and during the next official reporting period. ENGINEERING summarizes the work performed since the start of the WP, the tasks that have already finished and the state of the deliverables of this still ongoing work package. The conclusion is that all are on time.

This work package has three main objectives to obtain, and the validation will be following a bottom-up approach: In Lab Development of Cognitive solutions in the different domains, Generalization of implementation in the CAP Layers service architecture and the last, the CAP services will be validated in the three domains tackled by CAPRI.

After this overview they talk about the general structure of the CAP, and their suggestions of how to present all this part in each use case. They expressed that it will be very interesting to structure the blocks links in horizontal and no in vertical structure and add information of the level of FIWARE structure for each block, following the schema shown in the next image:



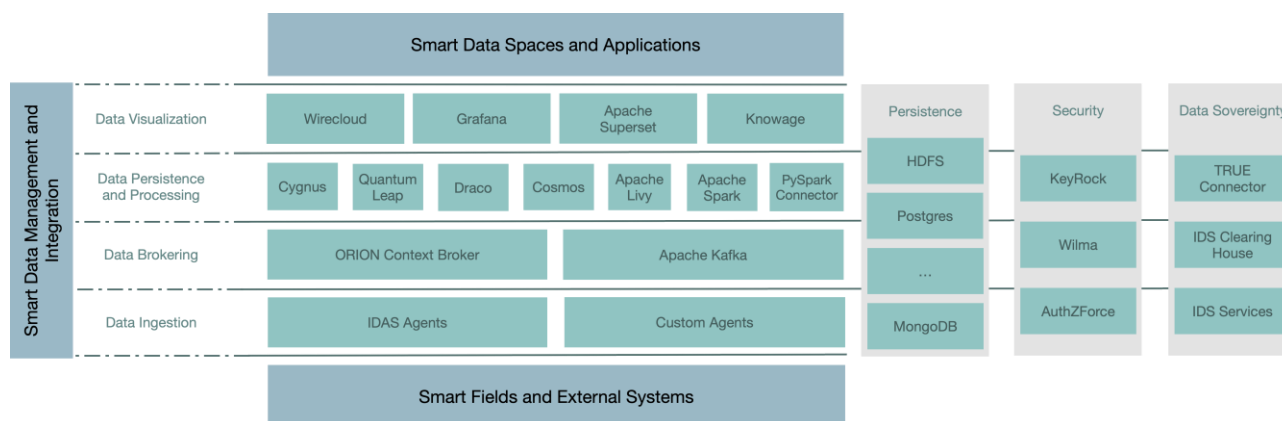


Figure 1: Structure of the CAP Reference Architecture levels and their blocks (general definition).

The CAP structure is defined in four levels, in a bottom-up definition from Data ingestion to Data visualization and they remark that it will be very interesting to emphasize these levels during the presentation of the work performed so far by all partners for each one of the use cases during the next official review for the EC.

2.4 WP5

The WP5 was explained by CARTIF as WP leader. They show the work performed so far and show how to use the future template about this WP for the next official report periodic meeting. It was analyzed also from the point of view of the commissioning activities for each of the use cases and how this process is evolving from the solutions developed in the lab that are under integration in the CAP of each use case. In other cases the commissioning process is involving actual installations of new hardware tested at the partner’s laboratories into the industrial premises of the use case owners like for example the case of CAS2 sensor for RAP bitumen content analysis at the EIFFAGE asphalt plant.

In addition of the commissioning process of this work package, the other relevant point is to define and analyze the results of the KPI’s defined during the first stages of the project. The update of the KPIs need to be related with the potential impact that will have each of the cognitive solutions. During the final demonstration of the project, these KPIs will help evaluate the requirements and performance of the solutions into the use cases, but they will be extremely helpful for the extrapolation of results to other processes and sectors.

2.5 WP6

The WP6 explanations were focused on the disseminations events and scientific papers presented during this period, and the next steps to be done by the end of the year.

CORE as WP leader explained the KPI’s that defined for this WP and the actual state before the 12 months to the end of the project and expressed that most of all of them look promising good.

The consortium have to review all the dissemination events, papers and dissemination activities that have participated throughout all the project and review their corresponding KPI’s for scheduling the next related activities of the project.

The coordinator expresses the necessity of a new template for the meeting with the European commission to comply with the remarks of the last official review report.

2.6 WP7





This work package of the project is focused mainly in achieve the best exploitation of the results generated. The KER's (Key Exploitable Results) are the main outputs generated in CAPRI considering their impact in the society or the industry. MSI did a review of all of them and discussions about the possibility of updating the IP SCAN from the EC, with the new analyzed KER's were done because during the first official periodic report the project only had 4 identified KER's. During this second period of the project and additional set of KERs has been added as their maturity has evolved making them also good candidates to explore their exploitation abilities.

2.7 WPI

The Coordinator explained the coordination aspects of the project, considering that the development lines of the project have been carried out according to the description of action.

During the second part of the explanation of the WP1 Coordination of Management, the financial issues were explained by CARTIF as WP leader explained the procedure that will be followed in the incoming justification of the Second Periodic Report. This period spans from month 13 to month 30 of the project and the financial check will follow the same procedure that the applicable for the First Periodic Report. The financial report compliments the technical one and must be submitted 60 days after the end of the reporting period (maximum deadline Tuesday 29th November 2022). The information will be checked by CARTIF and then submitted by each partner in the Funding & Tenders Portal. CARTIF acting as coordinator will supervise all the financial justification providing further guidance to the consortium partners. CARTIF stressed the importance of keep an adequate record of the financial cost to avoid any problems in this second justification or the final one. At any moment (and even after the end of it) the EC could start a random audit to some CAPRI partners. Additionally, the partners will need at the end of the project a CFS, a mandatory audit if their total direct cost claimed exceeds 325.000 €. This audit statement must be validated by a qualified auditor and submitted at the same time of the financial report.

2.8 Review of the EC report of MI2

CARTIF reviewed with the consortium the statements made by the reviewer in the first periodic report. This useful information provides guidance about the mistakes made in the first reporting or improvements suggested. This feedback will constitute a key aspect for the upcoming second periodic report. Also, it was shared a draft of the presentation to be used during the next review meeting, with the objective of explaining the different report issues during the review meeting.

3 Next Steps

The review of the different workpackages allowed to the establish a clear picture of the next steps for the upcoming 6 months period:

- WP3: workpackage is finished in this second period.
- WP4: finalize the integration of the different cognitive solutions per use case to arrive at first prototype of CAP application that can be fully deployed at each use case and start the foreseen 6 month period of final testing.
- WP5: continue with the commissioning part of the cognitive solutions which involves physical installation at use case premises. Establish and update a clear link between the cognitive solutions and the foreseen KPIs including accurate way of calculation and measurement.
- WP6: continue and increase the paper publication efforts in journal and congresses. Define the final calendar of webinars to present the status of the project per use case sector beginning with the asphalt sector. Agree on a calendar with the advisory board for the last period of the project. Continue building the relation with external initiatives through the





- PIHUB effort and the SPIRE-06 cluster.
- WP7: Boost the exploitation of the additional results in the last period. Implement the training and education program to exploit all the accumulated results at this moment and the rest of the period. Launch the observatory of replication areas in synchronization with the demonstration activities to show an added value of the different results in other sectors.

