

D7.4 Open Call 1 project and outcome evaluation report

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1 Executive Summary

Work Package 7 is responsible for establishing and supporting the Multi Actor Approach in DEMETER. In this respect, WP7 is in charge of handling the governance of processes, engaging users, external stakeholders and establishing a usable demand driven approach across the full chain.

The present deliverable describes the outcome of Open Call #1 including the analysis of statistics of the open call results and description of monitoring and evaluation activities.

2 Document History

Version	Author	Description
D7.4_V0.1	UPM	First Draft with TOC
D7.4_V0.2	F6S	First Draft review
D7.4_V0.3	UPM	Monitoring and OC#1 results
D7.4_V0.4	UPM	Received monitoring evidence from coaches. Overall review
D7.4_V0.5	F6S	Evaluation and selection sections updated
D7.4_V0.6	UPM	Final revision prior to formal revision
D7.4_V0.61	UPM	Minor editorial corrections
D7.4_V0.62	F6S	Minor editorial corrections
D7.4_V0.63	UPM	Final consolidated version
D7.4_v1.0	UPM	Final version for submission

3 Abbreviations and Acronyms

Abbreviation/Acronym	Explanation
AC	Agricultural Coordination
AIS	Agricultural Interoperability Space
DL	Deliverable Leader
ICT	Information and Communication Technologies
KPI	Key Performance Indicator
MAA	Multi Actor Approach
PM	Person Month
RE	Requirements Engineering
SM	Social Media
SOCS	Stakeholders Open Collaboration Space
WP	Work Package
WPL	Work Package Leader

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5 Introduction

DEMETER, as a large-scale pilot project, is characterised by a transdisciplinary and internationally very broad-based consortium. To this end, various participatory workshop methods, as well as digital platforms will be applied in order to include co-creation and co-decision processes in the development process. The MAA in DEMETER does not only address the user perspective, which is especially important in the individual pilots, but also promotes communication and the exchange of knowledge across existing borders (such as local, national or cultural borders, and disciplinary borders).

To address this WP7 consists of four tasks:

- Task 7.1. Governance of Multi-actor approach activities - this task involves planning, organising and coordinating MAA activities.
- Task 7.2. Multi-actor approach Animation - this task includes the performance of the planned activities (Workshops, trainings, etc)
- Task 7.3. Co-creation and development Open Calls - this task deals with the set up and conduction of the Open Calls.
- Task 7.4. Monitoring the effectiveness of the multi-actor approach - this task serves to examine how digital spaces can be evaluated from the perspective of the MAA.

This Deliverable is related to Task 7.3 and describes the outcome of Open Call #1 including the analysis of statistics of the open call results and description of monitoring and evaluation activities.

5.1 Open Call concept

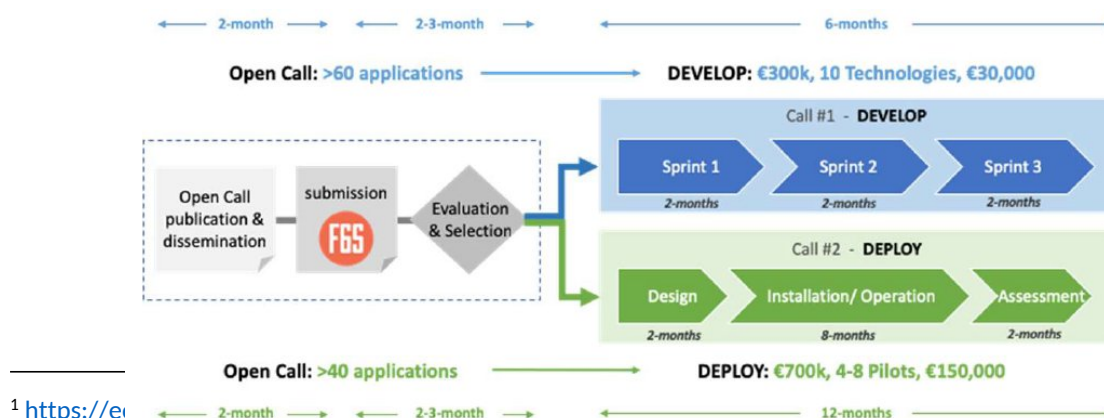
The MAA approach enables the extension of the technology offer beyond consortium partners and enlarges the outreach of the large-scale pilots by supporting the deployment of new pilots in different geographic regions through two open calls. One of the key features of DEMETER is to help farmers to overcome particular challenges by providing an innovative and open environment where farmers connect with technology and solution providers; it provides a collaboration framework between SMEs, pilot stakeholders and technology providers, to deploy pilots of new or enhanced products/services. Therefore, DEMETER open calls to third parties have two main goals:

- Enlarge pool of Agro-interoperable technologies by engaging tech SMEs towards the integration of their solutions;
- Deploy geographic distributed small-scale pilots that demonstrate the impact and potential of DEMETER approach towards digitalising and boosting European Agro-business.

The open calls process has been designed to be highly attractive to tech SMEs as well as early adopters/ users, and is composed by the following phases:

- **Preparation:** The design, preparation and timing for the launch of the open call to engage third parties with DEMETER is critical for the success of the project. Preparation phase aims to:
 - a) **Design and publish the funding scheme:** the overall amount to fund third-parties is €1.0M, divided in €300k for Call #1 and €700k to Call #2
 - b) **Structure the open call process:** elaboration of the open call guidelines, materials, contract templates for sub-grantees and the definition of the templates for proposals
 - c) **Evaluation board:** receive applications, select and brief/ train external experts;
 - d) **Prepare other relevant call documents:** Call text, summary leaflet, Q&A (including application form and the detailed guidance on eligibility criteria).

- **Open Calls:** The open calls are launched via F6S platform under a form-based application. F6S is used both as a publication, promotion and evaluation platform for gathering the maximum number of proposals. Both calls follow the protocol:
 - a) **General rules and eligibility criteria:** required by the official template of proposals by the EC. As a summary, it is important to indicate that the calls fund the execution of projects by single SMEs for Call #1 and 2-3 partner consortium for Call #2.
 - b) **Publication, dissemination & scouting:** all partners are invited to promote the Open Calls in events and marketing channels. Applicants that go through an earlier call, will be invited to support the promotion of forthcoming calls on a peer-to-peer approach.
 - c) **Evaluation and selection:** considering the funnel approach, there will be two evaluation periods:
 - i. Remote evaluation
 - ii. Online-interview and scores consolidation.
- **Open Call #1, DEVELOP:**
 - a. **Goal:** to attract and fund single tech-SMEs (legal entities under the EC regulations¹) in the development, integration and interoperability of technological products/ services within DEMETER ecosystem.
 - b. Main call characteristics: total budget: €300k; budget per project: up to €30k; number of funded projects: 8-12; duration of the project: 6-months.
 - c. Timeline:
 - i. M13 - Opening of call #1
 - ii. M15 - Closing of call #1
 - iii. M18 - Completion of call #1 application evaluations and projects launch
- **Open Call #2, DEPLOY:**
 - a. **Goal:** to finance the execution of projects by consortia of SMEs and non-profit entities, that are considered eligible by H2020, of 2-3 partners representing at least a tech provider/integrator and an end-user, for the deployment of small pilots (design, installation/operation and assessment) enhancing DEMETER methodology, technologies and value proposition.
 - b. Main call characteristics: total budget: €700k; budget per project: up to €150k; number of funded projects: 4-8; duration of the project: 12-months.
 - c. Timeline:
 - i. M28 - Opening of call #2
 - ii. M30 - Closing of call #2
 - iii. M31 - Completion of call #2 application evaluations and projects launch



¹ <https://e/>

Figure 1: Open Call process

To avoid conflicts of interest, applications will not be accepted from persons or organisations who are partners in the DEMETER consortium or who are formally linked in any way to partners of the consortium. All applicants will be required to declare that they know of no such potential conflicts of interest that should prevent them from applying.

5.2 DEMETER Open Call #1 - DEVELOP

The DEMETER Open Call #1 - DEVELOP aimed to attract and engage Startups/ SMEs with technology products that can be implemented within the Agro-business. DEMETER will fund the activities of integration and interoperability of those technology solutions, and improvement of their innovation level. Such solutions will enlarge and enrich the pool of technology offers/ options of DEMETER towards the co-creation of particular solutions to overcome end-users needs and challenges.

To achieve this goal an open call, with the characteristic presented in the table below, was launched:

Table 1: DEMETER Open Call #1 - DEVELOP main characteristics

Open call timeframe	From the 16 th of September 2020 to the 18 th of November 2020, at 17:00 CET
DEVELOP Activities to be funded	Reshape SME technology in order to integrate and make it interoperable with DEMETER platform.
Duration of activities	6 months for development and integration activities 19 months of service maintenance activities Total: 25 months
Budget per project	Up to €30.000 (lump sum) per SME
Milestones/ payments	Sprints of 2-months with evaluation of sprint results. Payments are associated with respective results and divided by 30% + 30% + 40% (lumpsum base, based on deliverables and outcomes).
Evaluation	Meeting with DEMETER assigned person (depending on the technology expertise required to evaluate results) at the end of each sprint.
Number of SMEs to be selected	Around 8 to 12

This report presents step by step the process from the publication of the open call, the eligibility check, the involvement of external experts, the evaluation of proposals, the internal check for competition issues and the pre-selection of proposals for approval.

6 OC#1 - DEVELOP publication and communication

The DEMETER Open Call #1 – DEVELOP was officially announced on the DEMETER website and social media accounts, on the F6S platform, and on the European Commission portal² on the 16th of September 2020.

On the DEMETER website a dedicated webpage³ was created with all the information needed for the applicants to apply. On F6S a dedicated page⁴ was setup with the application form for DEMETER Open

² <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/competitive-calls>

³ <https://h2020-demeter.eu/open-call/>

⁴ <https://www.f6s.com/demeterh2020/apply>

Call #1 - DEVELOP. And to answer all questions related to the open call process a dedicated email (opencalls@h2020-demeter.eu) was created as well.

6.1 Material preparation

As a preparatory activity, the DEMETER Open Call material, including explanatory text, guide for applicants, preparation of the F6S submission forms have taken place. In more detail, the Open Call #1 material, includes the following documents and forms.

- Open Call text
- Guidelines for Applicants,
- Application form,
- Proposal template
- Honour Declaration
- SME Declaration
- Bank account information
- Sub-grant Agreement Template

The DEMETER Open Call #1 - DEVELOP material was reviewed by DEMETER partners and then sent for approval to the EC. After approval, the materials were published on the DEMETER website and F6S platform. The Open Call #1 documents were compiled into one deliverable called D7.2 Open Call 1 Handbook, that was submitted in M12.

7 Open Call Statistics

The first DEMETER Open Call was automatically closed on the 18th of November 2020, at 17:00 CET (Brussels time).

In total 146 applications were started on the F6S platform, and 61 proposals have been finally submitted as presented in the chart below.

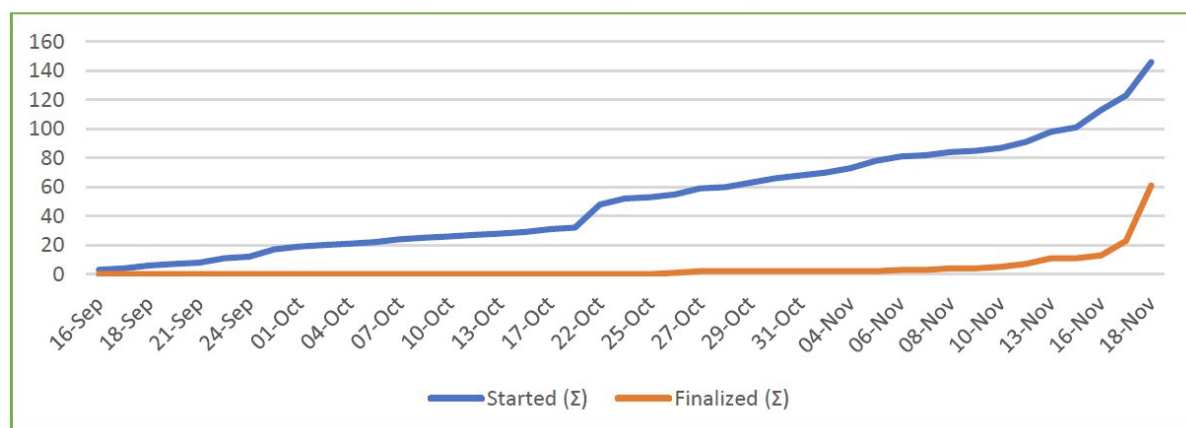


Figure 2: Number of applications by date

The geographical distribution of the submitted application is shown in the chart below, where it is visible that they were sent from 21 different countries.

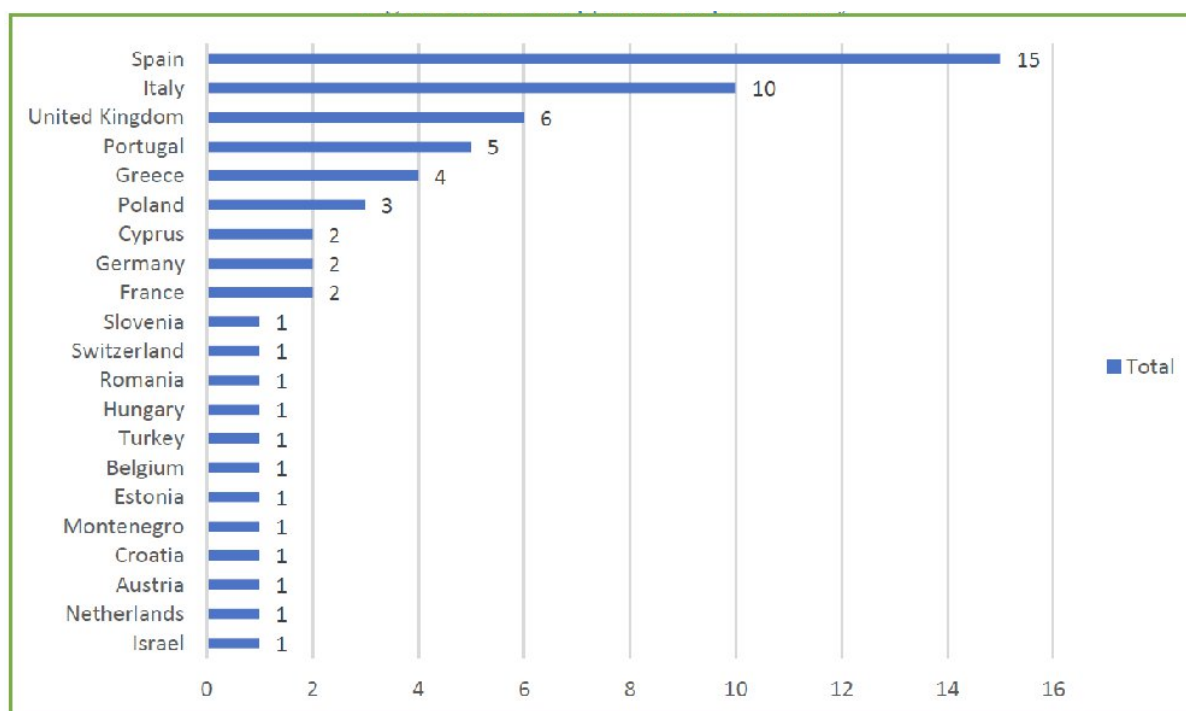


Figure 3: Number of applications per country

The figure below presents the distribution of proposals received under each one of the 5 topics to be addressed in the DEMETER Open Call #1 – DEVELOP. 48% of the proposals targeted topics #1, 21% topic #5, 20% topic #4, 7% topic #2, and 5% topic #3.

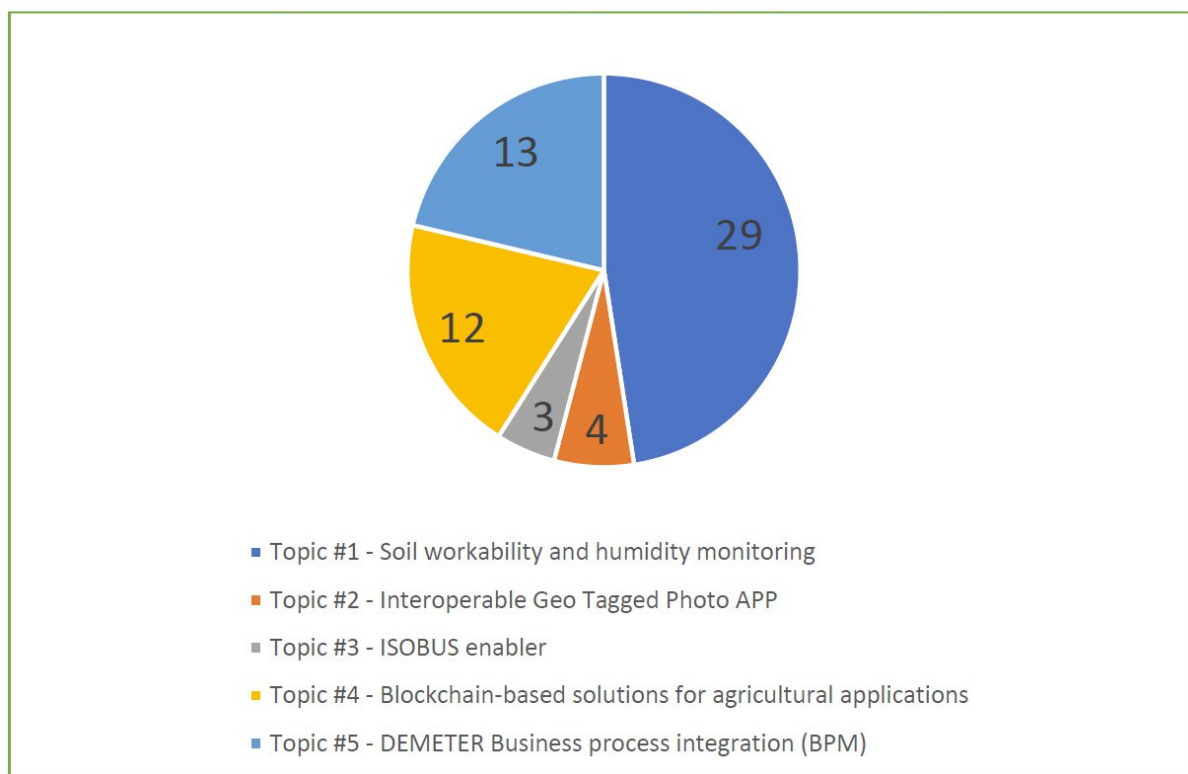


Figure 4: Distribution of applications per Topic/Challenge

8 OC#1 - DEVELOP evaluation and selection

8.1 Open Call Evaluation methodology

As planned in the DEMETER Grant Agreement, and to avoid any conflict of interest, an External Pool of Evaluators was created to involve independent experts in the evaluation of the proposals received under the DEMETER Open Call#1 - DEVELOP.

To find the best evaluators, ensure that the opportunity was available to the largest number of potential stakeholders and provide a transparent and open process to involve experts, two dedicated webpages were created. One⁵ on the DEMETER website with all the information regarding the DEMETER External Pool of Evaluators, and another one⁶ on F6S with a form to receive the expressions of interest to participate in the DEMETER evaluation activities, and collect information such as contact details, education, affiliation, expertise, background, domain of knowledge, CV, and also the acceptance of the data privacy policies and declaration of absence of conflict of interest regarding the DEMETER Open Call #1 – DEVELOP. This process resulted in the reception of 47 expressions of interest from external experts.

The evaluation methodology consisted in the following steps: (i) Eligibility check, (ii) Selection of External Evaluators, (iii) Briefing for External Evaluators, (iv) Remote Evaluation, (v) online interviews with top applicants, (vi) preselection, (vii) approval.

8.1.1 Eligibility Check

A filtering procedure was applied to remove non-eligible proposals. Eligibility checking has verified that:

- the proposing entity is a legal entity eligible for EC funding under the rules of H2020
- the proposing entity is an SME
- additional eligibility rules as expressed in the Guide for Applicants are followed (e.g. checking that legal entity has not submitted more than one proposal).
- the proposal is written in the English Language
- that Annex 4: Honour Declaration and Annex 5: SME Declaration have been correctly submitted

Out of the 61 submitted proposals in the DEMETER Open Call #1 – DEVELOP, 4 has been considered not eligible for the following reasons:

- The declaration of honour was not filled or signed
- SME declaration was not filled or signed.

At the end of the eligibility check phase there were 57 valid proposals to evaluate. 27 in topic #1, 3 in topic #2, 3 in topic #3, 11 in topic #4, and 13 in topic #5.

8.1.2 Selection of External Evaluators

Due to the number of eligible proposals (57), from the initial group of 47 external experts 9 were finally selected in order to perform the evaluation. The selection has been based on criteria such as

⁵ <https://h2020-demeter.eu/evaluators/>

⁶ <https://www.f6s.com/demeterexpertsexpressionofinterest/apply>

expertise in the field related to each specific topic, experience in the evaluation of proposals, profession type, geographic distribution, and availability of the evaluators.

As a result, the evaluators were distributed per topic and assigned a specific number of proposals to evaluate, as shown in the table below.

Table 2: Distribution of External Evaluator per topic and number of proposals assigned

Evaluators	Topic number	No. of proposals
Evaluator 1	1	17
Evaluator 2	1	10
Evaluator 3	1	10
Evaluator 2	2	3
Evaluator 4	2	3
Evaluator 5	1	17
Evaluator 5	3	3
Evaluator 6	5	13
Evaluator 7	5	13
Evaluator 7	3	3
Evaluator 8	4	11
Evaluator 9	4	11

Each proposal was assigned to two external evaluators, according to the Guidelines for Applicants.

After their selection, each expert was contacted to confirm his/her participation in the evaluation activities and sign a contract as external expert. All contracts were signed by the external evaluators until the 30th of November 2020.

8.1.3 Briefing for External Evaluators

After the official signature procedure has finished, a webinar was organised on the 1st of December 2020, to explain to the external experts the DEMETER objectives, and the purpose of the open call, the open call procedures, present all the relevant documents including the evaluation form, and answer any questions regarding the evaluation process.

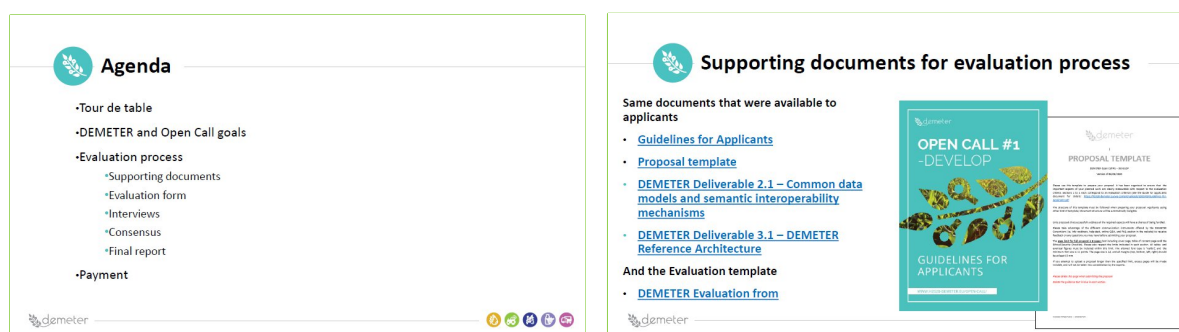


Figure 5: Examples of slides presented in the Briefing for External Evaluators

Each external evaluator was instructed to individually assess each assigned proposal, and then have a consensus meeting with the evaluator assessing the same proposals to reach a consensus regarding the attributed scores and comments/recommendations. And do this until Thursday, the 10th of December, at 12:00 PM CET (Noon).

Based on the evaluation and scores of each pair of external evaluators a ranking of the proposals for each topic would be created and the best ones invited for the online interview stage, planned for between the 14th and 18th December 2020.

After the online interviews, each pair of evaluators would have to send to the DEMETER consortium a final evaluation form and signed summary sheet.

8.1.4 Remote evaluation

Each proposal was evaluated by two different experts. As a first step of the evaluation process the evaluators assessed if each proposal fitted the topic chosen by the applicant. In case the proposal would not fit the chosen topic, such proposal would be discarded, considered non-eligible according to section 3.5 of the Guidelines for Applicants, and not further assessed.

The proposals which clearly addressed the chosen topic were evaluated based on the following criteria:

- Excellence & innovation (40% weighting)
- Expertise and excellence of the proposed team (30% weighting)
- Project planning and value for money (30% weighting)

The experts scored each award criterion on a scale from 0 to 5.

0 = Proposal fails to address the criterion or cannot be assessed due to missing or incomplete information.

1 = Poor: criterion is inadequately addressed or there are serious inherent weaknesses.

2 = Fair: proposal broadly addresses the criterion, but there are significant weaknesses.

3 = Good: proposal addresses the criterion well, but a number of shortcomings is present.

4 = Very good: proposal addresses the criterion very well, but a small number of shortcomings is present.

5 = Excellent: proposal successfully addresses all relevant aspects of the criterion. Any shortcomings are minor.

For each section, the minimum threshold was 3 out of 5 points. The default overall threshold, applying to the sum of the three individual scores with the corresponding weight each, was 12.

At the end of this phase 5 proposals were discarded because they did not fit the selected topic.

The other proposals were ranked in different lists, one per targeted topic/challenge.

8.1.5 Online Interview with top applicants and Consensus Evaluation

The applicants of the top ranked proposals of each list defined in the previous step were invited for an online conference call to do a 5-minute pitch followed by 5 minutes for Q&A, between the 16th and the 18th of December 2020.

Table 3: Schedule of the online interviews with top applicants

Topic	Date / hour
Topic #1: Soil workability and humidity monitoring	16 th December, 4:00 PM CET
Topic #2: Interoperable Geo Tagged Photo App	16 th December, 6:00 PM CET
Topic #3: ISOBUS enabler	18 th December, 11:00 AM CET
Topic #4: Blockchain-based solutions for agricultural applications	17 th December, 11:00 AM CET
Topic #5: DEMETER Business process integration (BPM)	18 th December, 10:00 AM CET

In each online conference the two respective external evaluators were participating and at least one representative of the DEMETER consortium as well.

The online interviews represented an opportunity for evaluators to cover any doubts that they might had about the written application as well as about the commitment and engagement of applicants towards participating in DEMETER ecosystem. At the end of each meeting, the applicants leaved, and evaluators shared, compared, and revised (if needed) their scores aiming to have a consensus about the proposals.

This stage of the evaluation resulted, in some cases, in a revised score and comments/recommendations), of the top proposals.

The final versions of the experts' evaluation forms were all received by the 6th of January 2021 as well as a summary sheet signed by the evaluators.

8.1.6 Pre-selection

According to the Guidelines for Applicants the pre-selection of the proposals followed the rules below:

Rule a): First, the top ranked proposal per topic is selected.

Rule b): Secondly, the proposals with higher scores, independently of the targeted topic/challenge, are selected until reaching the available funding.

Based on the evaluations (scores) of the external experts and considering that the budget available for the DEMETER Open Call #1 - DEVELOP is € 300.000, it was possible to pre-select the top 10 proposals according to the list presented in the table below.

Table 4: Pre-selection of proposals based on External Evaluation scores

SME Name	SME Country	Topic	Proposal Acronym
Metrica6 Ingenieria y Desarrollos S.L.	Spain	Topic #1: Soil workability and humidity monitoring	WAISENSE FIELDS
Primo Principio S.c.a.r.l.	Italy	Topic #1: Soil workability and humidity monitoring	W4A-SoilWorkability
Deep Planet	United Kingdom	Topic #1: Soil workability and humidity monitoring	SoilSignal
Sensedge d.o.o.	Slovenia	Topic #1: Soil workability and humidity monitoring	SOILY
i4FS - Industry 4 Factory solutions	United Kingdom	Topic #5: DEMETER Business process integration (BPM)	DEBBIE

SME Name	SME Country	Topic	Proposal Acronym
SEEDS s.r.l.	Italy	Topic #4 Blockchain-based solutions for agricultural applications	PerSePHOnE
ELLIOT CLOUD S.L	Spain	Topic #3: ISOBUS enabler	ELLIOT-ISOBUS
TERRANEA UG (haftungsbeschränkt)	Germany	Topic #2: Interoperable Geo Tagged Photo APP	CAP/P
Evreka Yazılım Donanim Danismanlik Egitim Sanayi ve Ticaret Anonim Sirketi	Turkey	Topic #5: DEMETER Business process integration (BPM)	CollectGood
HYLER BV	Belgium	Topic #5: DEMETER Business process integration (BPM)	OPTIFLAXIT

8.1.7 Pre-selection for approval

The DEMETER consortium assessed the pre-selected proposals carefully and agreed with the evaluation provided by the external evaluators. According to the Guidelines for Applicants, the DEMETER consortium internally approved the list of proposals presented in the table above, within the limits of the available funding, and submit it, via a confidential report, to the European Commission for final screening prior to contracting with the selected applicants.

8.1.8 Due diligence and Sub-grant agreement signature

After the EC's approval of the pre-selected list of proposals presented in the previous table, all applicants will receive their respective Evaluation Summary Report, with a letter informing of rejection decision or invitation to negotiate and proceed to the contract signature phase. The sub-grant funding agreement were signed between the DEMETER Consortium represented by its coordinator (WIT) and each beneficiary (SME).

All sub-grant agreements were signed until the 14 March 2021, before the kick-off event for third parties held on the 15 March 2021.

9 OC#1 - DEVELOP Monitoring and evaluation methodology

This section describes the structure defined to house the monitoring and evaluation processes, considering the support mechanisms for Open Call # 1 winners, in technological, communication and evaluation terms, the distribution of projects and the assignment of entities responsible for their follow-up, the support activities for its integration into the DEMETER ecosystem, as well as the resources made available to the Open Call partners.

9.1 Support for the Open Call #1 Winners

To ensure an adequate integration of the technologies/solutions proposed by the selected SMEs into the DEMETER platform, four layers of support have been defined.

9.1.1 Coaching support

A DEMETER coach is assigned to each OC1 winner. The coach is the main DEMETER contact point for the assigned SME, and has the responsibility to support, guide, provide feedback, motivate, understand, and challenge the SME team.

More specifically:

- Schedule weekly monitoring calls with the assigned SME,
- Update the monitoring tool,
- Be timekeepers, to ensure that deliverables and milestones are submitted by the SME at the end of each sprint,
- Engage the SME team on DEMETER events,
- Liaise with the relevant DEMETER partners based on the SME needs,
- Connect the SME with relevant pilots to explore win-win collaboration opportunities,
- Attend the monthly meeting for coaches to share experience and foster the support between coaches.

9.1.2 Collaboration with pilots

Pilots may work as testbeds or have relevant data sets for the OC1 technologies. And the OC1 technologies can be useful for some pilots. To explore win-win collaboration opportunities, the coaches connect the SME teams with pilot members, to find possible synergies.

9.1.3 Support with the DEMETER architecture/backend level

To provide the OC1 teams access to the DEMETER platform and guide the integration of their technologies, the coaches liaise the SME with the relevant DEMETER partners (mainly INTRASOFT and Engineering).

9.1.4 Other supporting activities

Kick-off meeting: A meeting on 15th of March marked the start of the OC1 projects. The agenda of the online event included a presentation of the DEMETER project by Kevin (DEMETER Project Coordinator), 5-minute presentations of the OC1 projects done by the OC1 winners, a presentation of the monitoring, support and evaluation activities for OC1 winners made by the OC Monitoring Supervisor (UPM) which includes a presentation of the coaches, and a webinar about the DEMETER architecture done by INTRASOFT.

Weekly online meetings: To ensure the progress of the OC1 projects the coaches schedule weekly meetings with the OC1 teams. Each coach can define with his team the best time to meet. The

meetings focus on assessing project progress, identify needs and suggest solutions based on each OC1 project goals, guide the OC1 teams in the DEMETER ecosystem, invite the teams to attend DEMETER events or other relevant events, motivate them and remind them of the deadlines for the submission of deliverables. And also ensure that the *Resources provided by DEMETER* are effectively provided in collaboration with the OC1 topic proposers. A short report of each weekly meeting needs to be inserted in the monitoring tool.

Reception of deliverables: The selected SMEs define milestones and deliverables in their submitted proposals. These are the basis for monitoring and evaluating their work progress during the execution of their projects. The coaches receive the deliverables via email and save them in the OC1 repository in NextCloud.

Online reviews: A remote review took place after each sprint to evaluate the progress of the SMEs. One week before each review, the SMEs should have submitted their milestones and deliverables. The review was remote via a teleconference platform (e.g. Skype or Hangouts). The SMEs made a short presentation of the work done, analysed the progress and answered questions from the evaluators.

Review report: After the review, the SMEs receive a review report, including comments and potential recommendations. The report also states if the deliverables are accepted or not.

Collaboration with pilots: To explore collaboration opportunities between OC1 projects and pilots, coaches should encourage meetings between the two parties.

Technical meetings: To support the integration of the OC1 winners' technologies in the DEMETER platform and eventually overcome technical problems that may arise, coaches can put teams in contact with the partners INTRASOFT and Engineering, or other suitable partners.

Monthly meeting for coaches: Online sessions with the participation of the OC Monitoring Supervisor and all coaches to identify common challenges, outline improvement strategies, share experiences and good practices.

9.2 Project Evaluation

At the end of each sprint, DEMETER members evaluate the deliverables submitted by the SMEs, have a meeting with the SME teams and produce a one-page report to approve or disapprove the submitted deliverables and recommend improvement action. Financial support is only granted if the deliverables have been approved by the evaluators.

9.3 Monitoring organigram / Communication flow

One of the key points for the success of all the initiatives is good communication between the different parts. To assure this, a workflow of communication between the different elements has been designed.

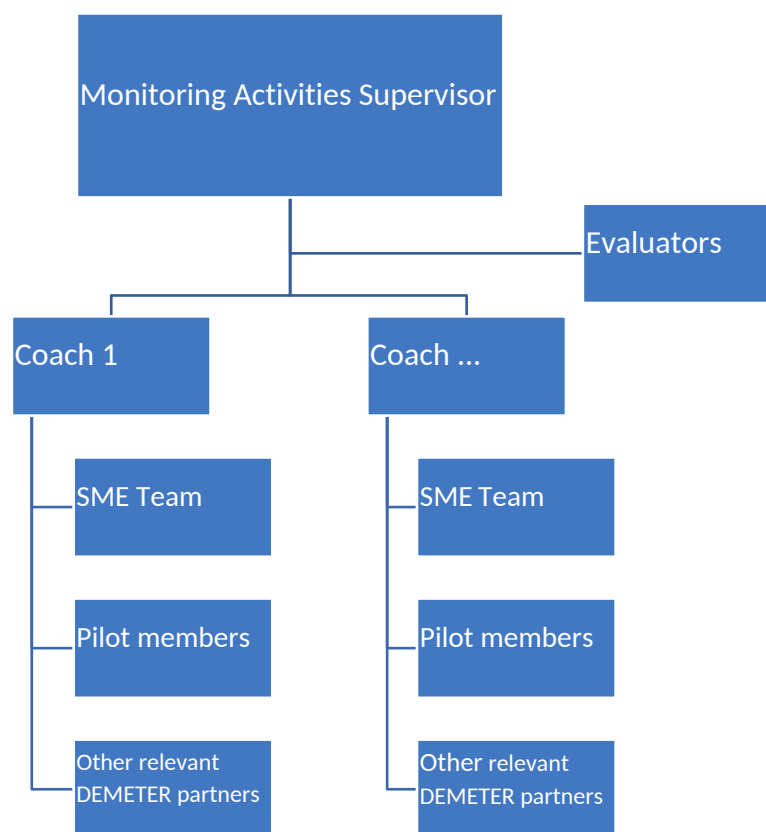


Figure 6: Monitoring organigram / Communication flow

After the definition of this organigram and the roles of each partner we provided a distribution of projects per coach/pilot/evaluator:

Table 5: Distribution of projects per coach/pilot/evaluator

Topic #	OC1 Project	Coach	Pilot	DEMETER architecture support	Evaluator	OC topic proposer
1	WAISENSE FIELDS	UMU	1.1 and 1.2	INTRASOFT Engineering ICCS PSNC	INESC TEC UMU	John Deere
1	W4A- SoilWorkability	SINTEF	1.3, 3.1, 5.2		INESC TEC SINTEF	
1	SoilSignal	INESC TEC	1.1 and 1.2		INESC TEC	
1	SOILY	OdinS	1.1 and 1.2		INESC TEC OdinS	
2	CAP/P	TRAGSA	1.1 and 1.2		TRAGSA	TRAGSA
3	ELLIOT-ISOBUS	UPM	3.2		DunavNET UPM	DunavNET
4	PerSePHOnE	Coldiretti	-		DunavNET Coldiretti	DunavNET
5	DEBBIE	UPM	-		DunavNET UPM	DunavNET

Topic #	OC1 Project	Coach	Pilot	DEMETER architecture support	Evaluator	OC topic proposer
5	CollectGood	TFoU	-		DunavNET TFoU	
5	OPTIFLAXIT	TFoU	-		DunavNET TFoU	

9.4 Timeline

Finally, we defined the Open Call monitoring and evaluation timelines:

Table 6: OpenCall monitoring and evaluation timelines

Sprint #	Activity	Description	When	Who is involved
1	Projects kick-off	DEMETER project presentation OC1 projects pitches OC1 monitoring activities Webinar about DEMETER Architecture	15 March 2021 10:00 - 12:00 CET	OC1 Beneficiaries, Coaches, DEMETER Projects Coordinator, Speaker for the Webinar
1	Monthly meeting for coaches	Online meeting to collectively assess the monitoring activities	14 April 2021	Coaches
1	Monthly meeting for coaches	Online meeting to collectively assess the monitoring activities	30 April 2021	Coaches
1	Deadline to submit Sprint #1 milestones and deliverables	OC1 beneficiaries send deliverables to coaches by email and coaches saved them in the repository and update the monitoring tool.	14 May 2021	OC1 Beneficiaries, Coaches
1	Remote review meeting of Sprint #1 activities	The OC1 beneficiaries will make a short presentation of the work done, analyse the progress and answer questions from the experts.	21 May 2021	OC1 Beneficiaries, evaluators
1	Review report	Reviewers share their reports to approve or disapprove the deliverables	28 May 2021	Evaluators

Sprint #	Activity	Description	When	Who is involved
1	Request for payment	On acceptance of the deliverables, the OC1 Beneficiary will be requested to submit a financial statement F2 (template will be provided) requesting the voucher of the corresponding sprint.		OC1 Beneficiaries, DEMETER project coordinator
2	Monthly meeting for coaches	Online meeting to collectively assess the monitoring activities	30 May 2021	Coaches
2	Monthly meeting for coaches	Online meeting to collectively assess the monitoring activities	30 June 2021	Coaches
2	Deadline to submit Sprint #2 milestones and deliverables	OC1 beneficiaries send deliverables to coaches by email and coaches saved them in the repository and update the monitoring tool.	15 July 2021	OC1 Beneficiaries, Coaches
2	Remote review meeting of Sprint #2 activities	The OC1 beneficiaries will make a short presentation of the work done, analyse the progress and answer questions from the experts.	22 July 2021	OC1 Beneficiaries, evaluators
2	Review report	Reviewers share their reports to approve or disapprove the deliverables	29 July 2021	Evaluators
2	Request for payment	On acceptance of the deliverables, the OC1 Beneficiary will be requested to submit a financial statement F2 (template will be provided) requesting the voucher of the corresponding sprint.		OC1 Beneficiaries
3	Monthly meeting for coaches	Online meeting to collectively assess the monitoring activities	31 July 2021	Coaches
3	Monthly meeting for coaches	Online meeting to collectively assess the monitoring activities	30 August 2021	Coaches
3	Deadline to submit Sprint #3 milestones and deliverables	OC1 beneficiaries send deliverables to coaches by email and coaches saved them in the repository and update the monitoring tool.	30 September to 30 November 2021	OC1 Beneficiaries, Coaches

Sprint #	Activity	Description	When	Who is involved
3	Remote review meeting of Sprint #3 activities	The OC1 beneficiaries will make a short presentation of the work done, analyse the progress and answer questions from the experts.	15 October to 30 November 2021	OC1 Beneficiaries, evaluators
3	Review report	Reviewers share their reports to approve or disapprove the deliverables	30 November 2021	Evaluators
3	Request for payment	On acceptance of the deliverables, the OC1 Beneficiary will be requested to submit a financial statement F2 (template will be provided) requesting the voucher of the corresponding sprint.		OC1 Beneficiaries

We must note that deadlines in the third sprint have been substituted by date ranges. This is due to some challenges that arose in the third sprint, which involved some problems in DEMETER infrastructure due to a hack, which made the server unavailable for a period. Also, some OC#1 winners were facing some technical and personnel issues, which resulted in asking more time to complete their final sprint. The organization of the open call decided to grant them some weeks to ensure a proper outcome delivery.

9.5 Resources for project monitoring and evaluation

Some resources were created so that DEMETER partners could interact in a better way with OC projects.

9.5.1 Guide for Coaches and guide for OC1 partners

All relevant information regarding monitoring and evaluation support methodology for OC1 partners was compiled in two different guides: *The Guide for Coaches* and *The Guide for OC1 Partners* and shared with the corresponding groups. These guides are included in Annex II, removing personal data (names and emails) for this public deliverable.

9.5.2 Repository

A folder dedicated to the OC1 projects has been created on NextCloud, accessible to all DEMETER partners participating in Monitoring and Evaluation activities. The sub-folders names are composed by the OC topic number, the project name and the SME name.

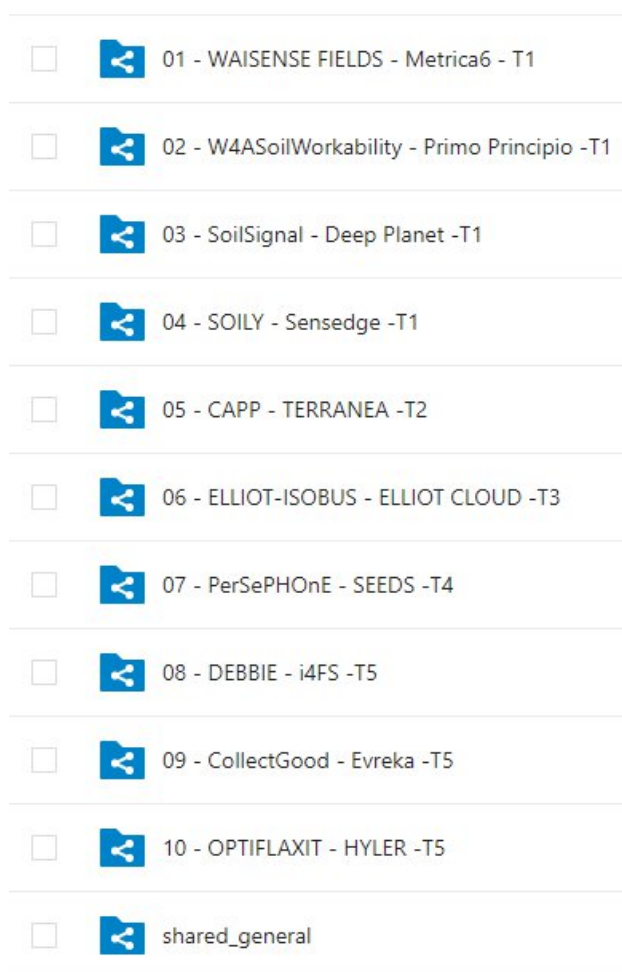


Figure 7: File repository for OC#1 projects

And each one is decomposed in five subfolders:

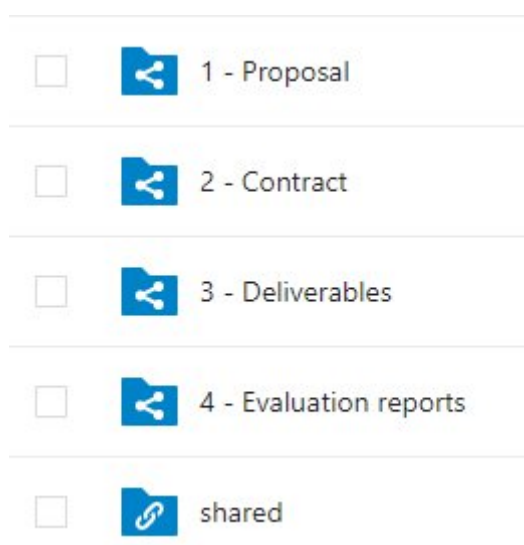


Figure 8: Subfolder distribution for OC#1 projects

1 – Proposal: Where the proposal submitted by the respective SME is saved, and which contains the project details.

2 – Contract: After the signature of the sub-grant agreement a copy of it is saved in this folder.

3 – Deliverables: The place to save the deliverables sent by the OC1 Beneficiaries.

4 – Evaluation reports: The folder to save the reports done by the evaluators.

shared: The shared folder contains all files that are shared to the OC1 participants, such as deliverables, request to payment templates, and most importantly, the Monitoring tool.

9.5.3 Shared folder

To share information with OC#1 partners, two different types of shared folders have been created, the **general shared folder**, and the **personal shared folder**.

The *general shared folder* contains general information that OC # 1 partners should know such as deliverable templates, request for payment templates, other project documentation or their guide for OC1 partners. There is only one folder which is shared by all partners and should only be used to obtain information, and not to modify the content.

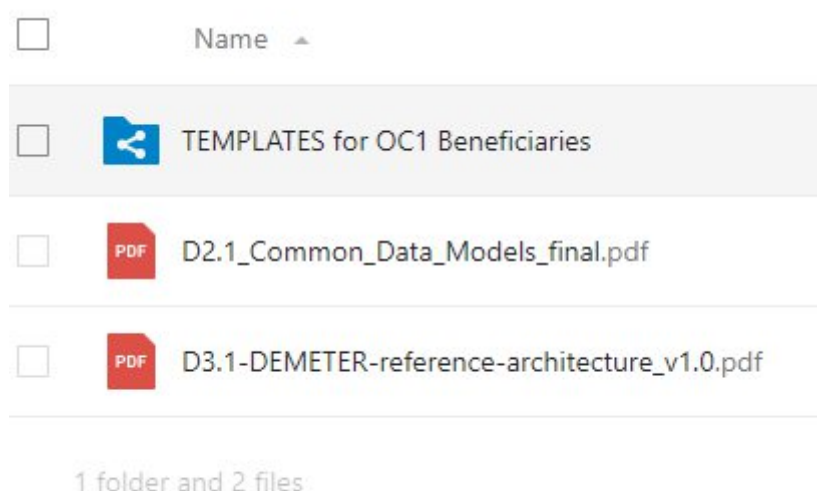


Figure 9: Current contents of the general shared folder

The *personal shared folder* is a personal folder for each OC1 partner, to which only other DEMETER partners have access, but not the other OC1 projects. The purpose of this folder is to exchange internal information, especially with the coach, and to update the monitoring tool. **The Monitoring activities supervisor sends these links to OC1 partners by email.**

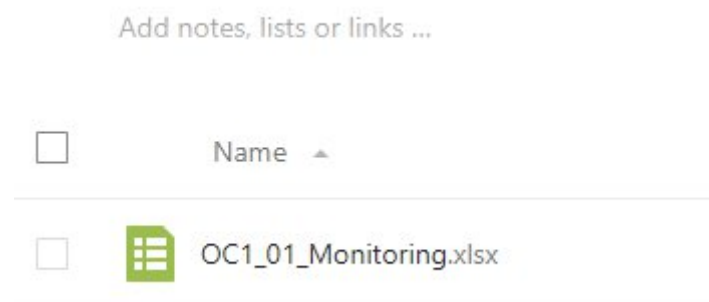


Figure 10: Current contents of the personal shared folder

The coach must ensure that all relevant documentation the OC partner need is copied to this folder, as this is the only folder in which the OC1 participant has access.

9.5.4 Monitoring tool

Specially designed to support the OC1 monitoring activities a monitoring tool (excel file) is available in each project folder and is composed by the following sections:

Contacts: A list of the contacts involved in each OC1 project.

List of deliverables: To track the submission of deliverables and their evaluation.

Participation in events: To track all the relevant events attended by the OC1 teams.

Follow-up meetings: To report on OC1 projects 'progress, after each weekly meeting.

Payments: To track the payments done by the DEMETER consortium.

9.5.5 Gitlab

An Open Call 1 subgroup in DEMETER GitLab has been created: <https://gitlab.com/demeterproject/opencall1>.

And an Issue Tracker project for Feedback and Support has been added: <https://gitlab.com/demeterproject/opencall1/issuetracker/-/boards/2450617>

WP2/3/4/5 will add material (documentation, guides, etc).

9.5.6 Mailing lists

Two mailing list have been created. One "demeter_oc1" correspond to the OC1 winners' list. The other one corresponds to the OC1 coaches' list. For privacy purposes, the addresses of these lists are not included in the public deliverable.

9.5.7 Information for project acknowledgements

For presentations and dissemination actions related to DEMETER project, OC#1 winners were encouraged to include the emblem and the text written on the cover page of OC1 subgrant agreement, as follows:



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 857202

Additionally, the DEMETER logo could be used as well:



10 OC#1 - DEVELOP Support and monitoring activities carried out

This section describes the concrete support, monitoring and evaluation activities carried for each OC#1 project.

10.1 Monitoring status for each OC#1 project

10.1.1 Waisense fields

Follow-up meetings with coach

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
15/03/2021	1	Online	Metrica6-UMU	Kick-off meeting
22/03/2021	1	Online	Metrica6-UMU	First internal meeting Introduction to DEMETER (AR, AIM, DEH). Asked Metrica6 for planning during first sprint.
25/03/2021	1	Online	Metrica6-UMU	Introduction about first steps for component integration in DEMETER: Docker components, AIM, REST API, DEH dashboard, BSE
27/04/2021	1	Online	Metrica6-UMU	Presentation of new team members. Grant access to other team members to Gitlab. Created a Slack channel. Review of a document of Metrica6 with next steps (uploaded to Gitlab) Explained some doubts about components and AIM (need some schemes)
18/05/2021	1	Online	Metrica6-UMU	Next review meeting issues. Integration doubts Needed examples about AIM & Dockers (I provide AIM examples) Security integration doubts. Problems with actuators. How will Demeter implement consumers' roles?
28/05/2021	1	Online	Deliverable evaluation team	Review for evaluation of 1st sprint
08/06/2021	2	Online	Metrica6-UMU	Next steps. Expected actions in Workshop Implementation and deployment doubts (ACS, Dockers, AIM, BSE) Problem getting grant to ACS Provide scripts for AIM terms and attributes Provide basic docker example
02/06/2021	2	Online	Metrica6-UMU	Working on the app that are going to mount in the Docker Mounting the prototypes of the boards. Finished solving the issue of authentication and authorization before the workshop (trial and error basically), and more or less they have that solved. Set up a trial version in Docker and worked registering

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
				it in DEMETER (ACS/DEH). Also tested with the BSE and registered the services ok. Next week's works expecting to finish the integration with BSE, finish the app, mount the docker and register the final service. Starting works using scripts to verify AIM models.
19/07/2021	2	Online	Deliverable evaluation team - Metrica6 - UMU	Deliverable presentation. INESC TEC: deliverable revision and questions (tech and DEMETER). UM: general questions about second sprint (DEMETER, integration).
23/08/2021	3	Online	Metrica6-UMU	Deliverable 3 status. Integration issues for actuators and AIM.
10/09/2021	3	Online	Metrica6-UMU	Deliverable 3 status. Latest integration issues for actuators and AIM. Possible solutions. Documentation.
21/10/2021	3	Online	Deliverable evaluation team - Metrica6 - UMU	Review meeting: presentation of the work done by in Sprint 3 and during the overall project implementation Evaluation was done successfully.

Participation in events

Name of event	Type	Date
Kick-off meeting	Online meeting	15-03-2021
Technical webinar for OC1 projects	Online webinar	14-06-2021

Evaluations

Sprint #1				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D1.1 Legal and marketing requirements		14-05-2021	Yes
	D1.2 Technical research and reshape conceptualization		14-05-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	04-06-2021	INESC TEC	Good	DEMETER Integration first steps minor

	2021	UM		delays due to all expected doubts and difficulties But with recent provided examples and expected Workshop coming soon, most of these delays are expected to be solved in second sprint
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Sprint #2				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D2.1	Hardware prototypes	15-07-2021	Yes
	D2.2	Software design - Integration and tests	15-07-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	19-07-2021	INESC TEC UM	Good	DEMETER integration minor delays and issues due to doubts and difficulties. Using the different communication channels most of these problems have been solved.

Sprint #3				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D3.1	Proof of concept with one pilot	16-09-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	27-10-2021	INESC TEC UM	Good	WAISENSE FIELDS is fully integrated in the DEMETER ecosystem and is being fed by real data that can be used by other DEMETER partners, reaching the DEMETER goals.

10.1.2 W4ASoilWorkability

Follow-up meetings with coach

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
30-03-2021	1	Online	SINTEF - PRIMO	PRIMO asked for documentation, DEMETER manuals and workshop to start this integration.
29-04-2021	1	Email	SINTEF - PRIMO	PRIMO has almost ready deliverables for first sprint. Some suggestions and corrections were done by SINTEF.
28-05-2021	1	Evaluation meeting	SINTEF INESC TEC - PRIMO	Evaluation meeting was performed correctly: DEMETER integration first steps some delays due to all expected doubts and difficulties.
22-06-2021	2	Online	SINTEF - PRIMO	PRIMO has advanced in their work for second sprint. Some presentations of results were done. Feedback was obtained.
23-07-2021	2	Evaluation meeting	SINTEF INESC TEC - PRIMO	W4A team needs to keep going with DEMETER integration and interact with DEMETER team to complete the AIM format with their needs.
01-09-2021	3	Online	SINTEF - PRIMO	Third sprint preparation
04-10-2021	3	Online	SINTEF - PRIMO	Third sprint preparation. Some delays are expected. Decision is to extend the project's duration to mid-November.
16-11-2021	3	Evaluation meeting	SINTEF INESC TEC - PRIMO	W4A team has proven that has tried to make the full integration with DEMETER system. Some minor issues where discussed.

Participation in events

Name of event	Type	Date
Kick-off meeting	Online meeting	15-03-2021
Technical webinar for OC1 projects	Online webinar	14-06-2021

Evaluations

Sprint #1				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D1 - Phase1 Report - WiForAgri DSS SOIL-WORKABILITY		18-05-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	28-05-2021	SINTEF INESC TEC	Good	DEMETER integration first steps some delays due to all expected doubts and difficulties.

				W4A team needs to start looking for the DEMETER manuals and workshop to start this integration.
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Sprint #2				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D2 - Technical Report on WiforAgri integration Deployment test of WiforAgri DEEs		16-07-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	23-07-2021	SINTEF INESC TEC	Good	W4A team needs to keep going with DEMETER integration and interact with DEMETER team to complete the AIM format with their needs.

Sprint #3				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D3 Report of running WiforAgri DEE in a DEMETER Pilot		30-09-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	16 - 11 - 2021	SINTEF INESC TEC	Good	W4A team has proven that has tried to make the full integration with DEMETER system, however there are some small points that needs to be improved to be fully compatible with DEMETER ecosystem. These points are not critical and do not limit the interoperability between SoilWorkability solution and DEMETER ecosystem. The team has shown a huge interest in keep developing this integration and be present in ongoing DEMETER pilots. Deliverable of third sprint finished in time.

10.1.3 Soil Signal

Follow-up meetings with coach

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
05-04-2021	1	Online	INESC TEC – Deep Planet	Results of the kick-off meeting were discussed. A technical webinar is needed to start with first integration steps.
28-05-2021	1	Evaluation meeting	INESC TEC – Deep Planet	DEMETER integration first steps were not envisioned in the first sprint. Deep Planet needs to start looking for the DEMETER manuals and workshop to start this integration.
24-06-2021	2	Online	INESC TEC – Deep Planet	Second sprint preparation. Feedback and discussion coming from technical webinar for OC1 projects.
23-07-2021	2	Evaluation meeting	INESC TEC – Deep Planet	The SoilSignal team needs to put more effort on DEMETER integration.
01-09-2021	3	Online	INESC TEC – Deep Planet	Third sprint preparation
04-10-2021	3	Online	INESC TEC – Deep Planet	Third sprint preparation. Some delays are expected. Decision is to extend the project's duration to the end of November.
03-12-2021	3	Evaluation meeting	INESC TEC – Deep Planet - UPM	Third sprint evaluation was performed. This evaluation mainly focused in activities related to the integration with DEMETER ecosystem.

Participation in events

Name of event	Type	Date
Kick-off meeting	Online meeting	15-03-2021
Technical webinar for OC1 projects	Online webinar	14-06-2021

Evaluations

Sprint #1				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D1.1 Proof of Concept - Establish prediction accuracies Deliverable - Presentation		19-05-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	28-05-2021	INESC TEC	Good	DEMETER integration first steps minor delays due to all expected doubts and difficulties, and because this was not yet envisioned on the first sprint. Deep Planet needs to start looking for the DEMETER manuals and workshop to start this integration.

Sprint #2				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D1.2 Production Version - Improvement in accuracy Deliverable - Feasibility Test		15-07-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	23-07-2021	INESC TEC	Good	The SoilSignal team needs to put more effort on DEMETER integration.

Sprint #3				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D1.3 Proof of Concept with pilot, ground validation and integration with DEMETER system		02-12-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	03-12-2021	INESC TEC - UPM	Good	DEMETER integration has been achieved, and also collaboration with DEMETER pilots, some more effort must be put on

				dissemination and exploitation activities. Deep planet team agrees in providing dissemination materials in form of video for project promotion.
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10.1.4 Soily

Follow-up meetings with coach

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
15/03/2021	1	Online	Odins Sensedge	Kick-off meeting
25-03-2021	1	Online	Odins Sensedge	First internal meeting - Asked for detailed planning first sprint.
03-05-2021	1	Online	Odins Sensedge	Second internal meeting: we have requested to fill the questionnaire regarding knowledge of AIM & DEMETER. Odins can help with Pilot expertise regarding AIM & APIs. We have requested to provide a detailed planning (weekly if possible)
05-07-2021	2	Online	Odins Sensedge	5 sensors deployed in Slovenia, Agriculture Hub. Data in platform. It expected 2nd . Integration in final stages with Smart Agriculture. M3 in progress. Integration with DEMETER is also schedule from their SOILY side
11-08-2021	3	Online	Odins Sensedge	Review concept of Integration with Demeter.

Participation in events

Name of event	Type	Date
Kick-off meeting	Online meeting	15-03-2021
Technical webinar for OC1 projects	Online webinar	14-06-2021

Evaluations

Sprint #1				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	M1: Technical specification of the requirements		15-04-2021	Yes
	M2: Design of the MVP sensor		17-05-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	28-05-2021	INESC TEC	Good	DEMETER integration first steps minor

	2021	Odins		delays due to all expected doubts and difficulties, and because this was not fully envisioned on the first sprint. SOILY teams needs to start looking for the DEMETER manuals and workshop to start this integration.
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Sprint #2				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	M4: Building a prototype sensor and test integration to the DEMETER platform		16-07-2021	Yes
	M5: Determination of the PoC scope		16-08-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	30-08-2021	INESC TEC Odins	Good	On the next sprint present data using the AgroNET platform and keep the developments on DEMETER integration.

Sprint #3				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	M6 Deployed Proof of Concept with one pilot - Conformation of data streams on platform from the DEMETER team		15-09-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	27-10-2021	INESC TEC Odins	Good	During this Sprint the Soily team has installed several sensors in real farms, collected data and realized the full integration with DEMETER ecosystem.

10.1.5 CAP/P

Follow-up meetings with coach

Meeting date	Sprint number	Type meeting	Participants (Entities)	Meeting summary
14/04/2021	1	online	TRAGSA-Terranea	About DEMETER core enablers, needs and ways to integrate in geo-tagged app.
3/05/2021	1	online	TRAGSA-Terranea	Authentication system, app interface, ACS and APIs of DEMETER
	1,2,3	email exchanges	TRAGSA-Terranea	Exchanges of references in the design of photo api, DEMETER service integration, endpoint registration and DEH

Participation in events

Name of event	Type	Date
Kick-off meeting	Online meeting	15-03-2021
Technical webinar for OC1 projects	Online webinar	14-06-2021

Evaluations

Sprint #1				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D1 1 st sprint report		17-05-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	20-05-2021	Tragsa	Good	Deliverable need to be updated including information regarding to the type of data or API related to DEMETER architecture (HUB, BSE and ACS).

Sprint #2				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D2 – 2 nd Sprint Report		15-07-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	19-07-2021	Tragsa	Good	Use DEMETER services available through the DEH. Utilization of ACS Authentication and BSE to register endpoints. API proposal related to Payment agencies.

Sprint #3				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D3 – 3 rd Sprint Report		20-09-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	14-10-2021	Tragsa	Good	Include Bavarian tender in the report

10.1.6 Elliot Isobus

Follow-up meetings with coach

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
24-03-21	1	Ordinary	UPM-ElliotCloud	Short presentation of the project by Elliot Cloud. For technical issues, information about DEMETER architecture contacts is provided.
06-04-21	1	Ordinary	UPM-ElliotCloud	Start basic test for interconnecting Isobus with DEMETER.
20-04-21	1	Ordinary	UPM-ElliotCloud	More clarifications about how DEMETER architecture manages data, and usage of BSE and DEH.
04-05-21	1	Ordinary	UPM-ElliotCloud	Summary of main activities performed. UPM informs about a technical session that will take place.
18-05-21	1	Ordinary	UPM-ElliotCloud	Preparation of first spring evaluation session. initial proposal for the communication with DEMETER's platform has been developed in the form of API using Swagger. The main application that includes the parser component has been developed more to improve its functionalities and solve some minor bugs.
20-05-21	1	1 st sprint evaluation	UPM-ElliotCloud-F6S-DNET	There isn't any expected risk. Technical Questions about the data model and how to integrate data into Demeter.
01-06-21	2	Ordinary	UPM-ElliotCloud	UPM informed that the evaluation was successful. ElliotCloud informed about activities: Starting to develop API Rest, connecting to CAN interface, and also restructuring JSON NGSI-LD frame data model.
22-06-21	2	Ordinary	UPM-ElliotCloud	ElliotCloud informed that they could not attend the technical webinar for OC1 projects on 14-06-2021. UPM provides reference to the video. As new progress, the main application to the data mapper has been connected.
06-07-21	2	Ordinary	UPM-ElliotCloud	Preparing 2 nd spring evaluation. Created an internal got repository for version control. Testing REST APIO which is working as expected. Ported the main application to ARM architecture.
19-07-21	2	2 nd sprint evaluation	UPM-ElliotCloud-	There isn't any expected risk. It is requested to include an extra section in deliverable about DEMETER

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
			F6S-DNET	integration.
20-07-21	3	Ordinary	UPM-ElliotCloud	ELLIOT is working in the inclusion of the extra section about the integration with Demeter in the Deliverable and they are going to provide the new Deliverable in a few days. IT is discussed that the structure of the Final review is going to follow the same structure of the first and second reviews.
07-09-21	3	Ordinary	UPM-ElliotCloud	The development of the application has ended and it is now in the state of functional. Tests have been carried out to determine the correct functioning of all available functionalities. All the necessary user documentation has been written so that the user can install the software and use it without any complications
14-09-21	3	Ordinary	UPM-ElliotCloud	UPM informed that informed that the Final Review is going to be realised according to the original workplan and that in a few days the details about the schedule of the review are going to be provided
21-10-21	3	3 rd sprint evaluation	UPM-ElliotCloud-F6S-DNET	ElliotCloud presented the generated documentation (two deliverables, three software components and a video-demo). Review was successful.

Participation in events

Name of event	Type	Date
Kick-off meeting	Online meeting	15-03-2021

Evaluations

Sprint #1				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D1: DEMETER - ISOBUS enabler Deliverable 1		14-05-2021, revised in 26-05-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	20-05-2021	UPM DNET	Good	Good progress. D1 was updated before approval, with information about the type of data/API methods which will be provided.

Sprint #2				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D2: ISOBUS enabler documentation		26-07-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	19-07-2021	UPM DNET	Excellent	Good progress and all milestones closed.

Sprint #3				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D3.1 Final Report		16-09-2021	Yes
	D3.2 Results of the Software performance test		16-09-2021	Yes
	MS3 System test and solution validation - Successful experiment execution		16-09-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	21-10-2021	UPM DNET	Excellent	The project completed all the administrative issues, completing the project successfully. It would be useful to provide information about the validation done on real vehicles and to see the module integrated in one of DEMETER pilots.

10.1.7 PerSePHOnE

Follow-up meetings with coach

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
15/03/2021	1	Online	SEEDs-COLDIRETTI	Kick-off meeting
19/03/2021	1	Online	SEEDs-COLDIRETTI	Participant presentation, SME presentation, Coaching role presentation, formal documentation check, brainstorming on potential communication/exploitation activities.
26/03/2021	1	Online	SEEDs-COLDIRETTI	Provided instructions on how to get GitLab access. Detailed presentation of the SME and of the platform which will be integrated in

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
				<p>DEMETER. The SME is working on the definition of open API.</p> <p>TO DO:</p> <ol style="list-style-type: none"> 1) the SME will contact INTRASOFT for technical aspects on the work ahead. 2) the coach will ask supervisors the possibility for the SME to verify the matching of the work done on API before the formal submission (DEL 1.1 May 14th) 3) the coach will ask supervisors details on the IPR 4) the coach will present to supervisors/DEMETER partners the potential role of SEEDS solution as exploitation tool for DEMETER itself.
09/04/2021	1	Online	SEEDs-COLDIRETTI	<p>Updates from the SME:</p> <ol style="list-style-type: none"> 1) Open API defined; double checks if some modifications on these APIs are required 2) Setting up of the blockchain Multichain (instead of Fabric with approval from F6S and DNET -see email exchange dated 22nd of March 2021). 3) Started to work also on the Ontology which will be released in Sprint 2.
23/04/2021	1	Online	SEEDs-COLDIRETTI	<p>Updates from the SME:</p> <p>OPEN API developed and platform ready to be integrated into DEMETER.</p> <p>Issue open on GitLab on the integration process, replied by UPM. Still open the registration process to the DEH as they have not yet received the confirmation email (also this issue is open in GitLab).</p> <p>Asked if a webinar about architecture could be useful: just if it will be a live interaction.</p>
05/10/2021	1	Online	SEEDs-COLDIRETTI	<p>Updates from the SME: after several emails with other technical partners the issue of the registration to the DEH has been solved. Thus, the SME is registered in the DEH, has access to the ACS and completed the integration of their solutions within the platform.</p> <p>The SME still needs to know how to authenticate and authorize users in Demeter within the SME platform. To solve this issue, the SME opened an issue on GitLab last Friday which has not yet received an answer. IT has been decided that the SME will make this question to DNET during a call which they are going to have within this</p>

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
				<p>week, while the coach will ask to INTRAS and discuss it during the next telco for Coaches envisaged by Friday 14th.</p> <p>The deliverable template has been also reviewed and agreed that the SME will send it to the coach by Friday 14th.</p>
05/14/2021	1	Phone call	SEEDs-COLDIRETTI	<p>The SME sent the Deliverable on the 14th of May. SEEDs also informed the coach that they could not met DNET in the previous week as they do not find a suitable date thus the open point about authentication has still to be solved. The coach reiterated that, because of the delay due to the problem in the receiving the confirmation email, the issue still open will be not considered in any case a fault of the SME.</p>
5/20/2021	1	Online	SEEDs-COLDIRETTI	<p>Review meeting: The SME made a presentation of their work done, answering also questions from the technical reviewer.</p> <p>EVALUATION: The overall progress is excellent. The first group of activities envisaged during the first sprint have been implemented. The project lacks analysis of the integration and integration with the DEMETER platform. Some improvements have been suggested. Deliverable accepted.</p>
05/28/2021	2	Online	SEEDs-COLDIRETTI	<p>The SME informed that they updated the Deliverable according to the recommendations provided during the evaluation call (submitted on the 29th). For some aspects, they are waiting for feedback from other DEMETER partners. The SME also followed several sessions during the DATA WEEK: from the sessions where other DEMETER partners were involved took some inputs for the development of their activity.</p>
04/06/2021	2	Online	SEEDs-COLDIRETTI	<p>The SME is analysing the next steps, with a look also at the activities foreseen in Sprint 3. The coach informed that the updated deliverable has been accepted and invited the SME to fill in the survey about clarifications needed from technical partners being as much detailed as possible.</p>
11/06/2021	2	Online	SEEDs-COLDIRETTI	<p>The SME explained the open issues that need to be clarified, hopefully during the workshop: node, users' authentication, AIM. Some SEEDs members will join the workshop.</p>
18/06/2021	2	Online	SEEDs-	<p>The SME reported that the workshop, and in</p>

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
			COLDIRETTI	particular the Q&A session, has been useful to clarify some open issues (nodes on Seeds cloud; authentication directly to Seeds). During the meeting, the need for a further specific discussion with PSNC raised up on ontology integration and they agreed to meet today afternoon.
18/06/2021	2	Online	SEEDs-COLDIRETTI	Online meeting to discuss technical issues (data model, ontology) among Seeds and PSNC, followed by email to further clarify some aspects and a new meeting defined for next Friday afternoon
25/06/2021	2	Online	SEEDs-COLDIRETTI	The SME provided a quick update related to the progresses done thanks to the discussion with PSNC. Further steps ahead in the workplan will be done after the new meeting today afternoon with PSNC.
02/07/2021	2	Online	SEEDs-COLDIRETTI	<p>The SME is progressing also thanks t to the support of PSNC on the refinement of the ontology: they have worked at a recon on the ontology of Seedsbit and of Demeter and a map of the common elements have been done. The SME is also working at the new deliverable to be on time for submission.</p> <p>The SME also commented about the publication on "Quality of information within IoT Data" promoted by Demeter social channels, highlighting how Seedsbit and blockchain in general could be useful to certify quality of data.</p> <p>The SME always shows to be really proactive towards DEMETER.</p> <p>The coach reminded next deadlines: 15 July DEL submission; around 21-22 July review meeting; 29 July review report submission.</p> <p>GENERAL COMMENT BY THE COACH: the SME has the access to the ACS, BSE and DEH and registered their services to the BSE; through GitLab they open (and received assistance for) several issues to proceed with their integration with DEMETER; they are also strictly in contact (about a meeting per week) with PSNC to make steps ahead in the integration.</p>
09/07/2021	2	Online	SEEDs-COLDIRETTI	Last Tuesday (6th July) the SME had a new meeting with PSNC which allowed to define few remaining open issues on integration. The SME is working at the deliverable which will be send

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
				to the coach next Thursday (15th July). The SME reaffirmed that the meetings with PSNC have been useful and crucial to proceed with the integration and hopes that also other experts could be also involved in the next sprint, starting from DNET but potentially even other technicians.
19/07/2021	2	Online	SEEDs-COLDIRETTI	Review meeting: The SME made a presentation of the work done and answered questions from the technical evaluator. EVALUATION: The overall progress is excellent. Suggestion to cover integration of the DEMETER components - to push or use the data from the BSE.
23/07/2021	3	Online	SEEDs-COLDIRETTI	The SME presented to the coach two new members of the team which will work on the last sprint. The team continued working on the ontology and in particular on the Reasoner. The SME needs some clarification about the suggestion given by the technical evaluator about the BSE during the review meeting: the team is going to discuss internally the issue with the aim to define what they consider the correct answer to evaluator's request; then they will directly send an email to DNET and open an issue on GitLab. Given this "open issues" the coach suggested to do not updated the Deliverable until they have clarified it.
30/07/2021	3	Online	SEEDs-COLDIRETTI	The SME has not received yet the answer from other DEMETER colleagues on the suggestion given by DNET during the revision meeting. Because of this, they have not yet updated the Deliverable. The coach suggested to open an issue on GitLab and to wait until the today coordination meeting to verify if a more detailed answer to their issue could be provided in short time. Despite this issue, the SME is going ahead with other activities, also involving new staff member.
03/09/2021	3	Online	SEEDs-COLDIRETTI	Updates from the SME: - It asked the coach to check the payment of the second sprint as it has not yet arrived (the request of payment was sent on the 2nd of August) - it reported that they have the Deliv nr. 3 almost completed.

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
				During the meeting, also the new final report requested by Ramon has been discussed with the coach: it will require the SME to anticipate of a couple of days the finalization of the deliverable n.3 to allow the production of the final report and the video.
10/09/2021	3	Online	SEEDs-COLDIRETTI	<p>Updates from the SME. They are working at:</p> <ul style="list-style-type: none"> - the final deployment of their platform, for its customization for Demeter and further maintenance - at the deliverable for submission by Sept. 15th - at the final report <p>The coach informed the SME about:</p> <ul style="list-style-type: none"> - the new contact person in DNET for final days of the project and for the review - the updates from WIT about the payment of Sprint 2 (expected by the week of 21 Sept). - the possibility of a postponed deadlines (of few days) for the report+demo. A confirmation is needed.
17/09/2021	3	Online	SEEDs-COLDIRETTI	<p>The SME made a demo of the working solution developed.</p> <p>IT has been also agreed to ask the evaluator (DNET) to anticipate the review as in the planned week the SME has problem. 20th Sept updates: the review meeting planned for the 28 Sept at 15 (CET)</p>
28/09/2021	3	Online	SEEDs-COLDIRETTI	Review meeting: presentation of the work done by the SME in Sprint 3 and during the overall project implementation.

Participation in events

Name of event	Type	Date
Kick-off meeting	Online meeting	15-03-2021
The use of digital technologies to support aquaculture production- event organized in the framework of the SmartAgriHubs project. Seeds invited by Coldiretti to join the round table	Online workshop	16-04-2021
Data week 2021- Seeds invited by Coldiretti to attend the event and in particular the session where DEMETER partners were involved	Online conference	25/27-05-2021
Technical webinar for OC1 projects	Online webinar	14-06-2021

Evaluations

Sprint #1				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D1.1 PerSePHOnE definition of OpenAPI and blockchain node maintainers + OpenAPI documentation +node for Demeter		14-05-2021, revised in 04-06-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	20-05-2021	Coldiretti DNET	Excellent	The use with DEMETER in a use case is not fully clear. It is suggested to provide a user story to clarify on this matter. It would be also important to analyse DEMETER AIM model to achieve the integration of the component - to propose to the DEMETER extension of the data model based on the data model used by external component (if there is namespaces extension need) to be included in the current AIM model version.

Sprint #2				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D2.1Development, ontologies, OpenAPI		15-07-2021, updated on 02-08-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	19-07-2021	Coldiretti DNET	Excellent	AIM model is implemented into their system. The next step should cover integration of the DEMETER components - to push or use the data from the BSE. It is suggested to mention in the deliverable that the last step would be to provide environment working together with DEMETER BSE

Sprint #3				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D3.1 PoC with a pilot for tracking and tracing of document, olives and olive oil.		15-09-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	28-09-2021	Coldiretti DNET	Excellent	The SME continue to show a deep engagement in progressing the activities, solving, problems, and creating an efficient integration within DEMETER and potential users, showing interest in other partner's suggestions (Gitlab, chat with experts and reviewers).

10.1.8 DEBBIE

Follow-up meetings with coach

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
23-03-2021	1	Ordinary (online)	UPM-i4FS	AP1.1: i4FS Investigate demeter Platform AP1.2: i4FS to send requirements for Scenario definition and evaluation AP1.3: Demeter to look for support for requirements AP1.4: Possible collaboration with other Business Process related of OC#1
06-04-2021	1	Ordinary (online)	UPM-i4FS	AP2.1 Coach: To provide feedback to i4FS about the "evaluation of the use case" by Pilots of Demeter. AP2.1: i4FS is going to provide information about Date they require from Pilots in order to complete the Use Case
13-04-2021	1	Ad-hoc	UPM-i4FS	"DEBBIE is going to integrate in the ""scenario"" defined by Pilot 5.4. DEBBIE will not require any support from 5.4, because they are going to provide their own data related to clients and products. Meanwhile 5.4 focus on the quality assurance of the processing in the Poultry Industry, DEBBIE is going to focus on the delivery of the product to the clients."
20-04-2021	1	Ordinary (online)	UPM-i4FS	Work on the emulation of interaction with DEMETER Integration based on the integration: The access point is registered but at this moment there is little documentation. We ask Architecture support about how to support the integration and the documentation
04-05-2021	1	Ordinary (online)	UPM-i4FS	Defined our scenario around poultry farm. Developed a first BPM and we are currently elaborating

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
				on top of it (iteration process). Developing the first deliverable D1. Business process modelling and analysis of processes to be integrated No delay regarding planned activities.
20-05-2021	1	Evaluation (online)	UPM-F6S-DNET-i4FS	Technical Questions about the data model and how to integrate data into Demeter. There is not any expected risk for achieving the objectives of the project. They need as soon as possible the workshop for integration with DEMETER UPM explains how to proceed with DEMETER integration before the workshop.
01-06-2021	2	Ordinary (online)	UPM-i4FS	DEBBIE reported the activities during the last two weeks, since last audio. Delivered D1. Business process modelling and analysis of processes to be integrated Prepared the first review on 20th May Carrying on with the development of the BPM. No delay with regard to planned activities.
22-06-2021	2	Ordinary (online)	UPM-i4FS	Attended the DEMETER OC#1 webinar on 14th June. Iterated with DEMETER technical team on Gitlab WP3 access for Demeter Enabler Integration Flow. Investigated the layers of the DEMETER Agricultural Information Model (AIM). Carrying on with the development of the BPM (Scheduler).
06-07-2021	2	Ordinary (online)	UPM-i4FS	UPM informed that Second Sprint Evaluation is approaching and that they have to deliver information for next 15 of July. No delay regarding planned activities.
19-07-2021	2	Evaluation (online)	UPM-F6S-DNET-i4FS	Evaluation was done successfully.
20-07-2021	3	Ordinary (online)	UPM-i4FS	DEBBIE starts the preparation of the final Sprint.
07-09-2021	3	Ordinary (online)	UPM-i4FS	Working on the final deliverables: D3. Implementation, integration, and validation of selected business processes within DEMETER D4. Continuous maintenance plan
16-09-2021	3	Ordinary (online)	UPM-i4FS	UPM asked for some minor modification in DEMO video. DEBBIE informed that they are going to improve the video with some interactions with DEMETER Platform. Due to the security break in the project the 3 rd sprint evaluation was not yet defined.
14-10-2021	3	Evaluation (online)	UPM-F6S-DNET-i4FS	Evaluation was done successfully.

Participation in events

Name of event	Type	Date
Kick-off meeting	Online meeting	15-03-2021
Technical webinar for OC1 projects	Online webinar	14-06-2021

Evaluations

Sprint #1				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D1. Business Process Modelling and analysis of processes to be integrated		14-05-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	20-05-2021	UPM DNET	Excellent	DEBBIE do not foresee any risk for achieving final objectives of the project according to Workplan. The project has progressed very well. The solution is registered on DEMETER portal, the business process to be used for demo has been selected, described and the implementation started.

Sprint #2				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D2 Integration plan for selected business processes		15-07-2021, review version in 19-07-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	19-07-2021	UPM DNET	Excellent	The project has an excellent progress. It is suggested to identify the potential data from the pilots and to timely align with the Pilot 4.4/5.5 (same service provider). Details are shared with the pilot project about the data in AIM format from these two pilots the that can be used for the business process validation.

Sprint #3				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D3. Implementation, integration, and validation of selected business processes within DEMETER - Software available within DEMETER env		16-09-2021	Yes
	D4. Continuous maintenance plan			Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	14 - 10 - 2021	UPM DNET	Excellent	The project completed all the administrative issues, completing the project successfully. During the Sustainability phase, the use of the implemented solution by DEMETER partners should be encouraged to further validate the usefulness of the project results and facilitate exploitation.

10.1.9 CollectGood

Follow-up meetings with coach

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
26-03-2021	1	Email	TFOU Evreka	Emails about Gitlab and technical questions
31-03-2021	1	Online	TFOU Evreka	1st sprint preparation
13-04-2021	1	Online	TFOU Evreka	1st sprint preparation
21-04-2021	1	Online	TFOU Evreka	1st sprint preparation
29-04-2021	1	Online	TFOU Evreka	1st sprint preparation
20-05-2021	1	Review	TFOU Evreka F6SUPM DNET	
05-06-2021	1	Online	TFOU Evreka	Summary of review and correction meeting
06-06-2021	1	Emails	TFOU Evreka	Summary of review and correction
22-06-2021	2	Continuity meeting	TFOU Evreka F6S UPM DNET	Evreka decided to discontinue the involvement in DEMETER

Participation in events

Name of event	Type	Date
Kick-off meeting	Online meeting	15-03-2021

Evaluations

Sprint #1				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D1 Use Cases & Requirements		18-05-2021	No Lack of details about the use case with DEMETER.
	D2 Business & Algorithm Flows		18-05-2021	No, Business workflow diagram is presented but not explained.
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	20-05-2021	TFOU DNET	Unsatisfactory	Unsatisfactory progress. The project provided business workflow and requirements and its not fully clear due the lack of the documentation how this will be used with DEMETER. Project should provide at the end as a results component to the DEMETER ecosystem, not an isolated system connected over an API. In case that DEMETER could not provide a use case, proposer could base on the existing platform usage to propose a scenario useful for DEMETER. In the original proposal this is partially explained and can be leveraged further to come to a meaningful and understandable usage, e.g. user stories. Further to this, it would be also important to analyse DEMETER AIM model to achieve the integration of the component - to propose to the DEMETER extension of the data model based on the data model used by external component (if necessary) to be included in the current AIM model version.

Due to the rejection of the sprint #1 deliverable and the unsatisfactory progress, and according to the terms of the DEMETER Open Call #1 Guidelines for Applicants, the Collect Good team was informed that it would not receive the payment corresponding to sprint #1, and was invited to continue to the second sprint without receiving the first sprint payment. The rejected deliverable could be resubmitted at the next sprint review, hence qualifying for payment, if and when said deliverables would be approved. On the 2nd of July 2021 the Collect Good team informed the DEMETER consortium of its intention to withdraw from the project, the collaboration ended on this day and no payment were released.

10.1.10 Optiflaxit

Follow-up meetings with coach

Meeting date	Sprint number	Type of meeting	Participants (Entities)	Meeting summary
17-03-2021	1	Online	TFoU - Hyler	Starting Sprint #1
20-04-2021	1	Online	TFoU - Hyler	Starting Sprint #1
20-05-2021	1	Online	TFoU - Hyler	Status of Sprint #1
22-06-2021	2	Online	TFoU - Hyler	Meeting with DEMETER technical team
06-08-2021	2	Emails	TFoU - Hyler	About AIM model
09-09-2021	3	Email	TFoU - Hyler	Project Results

Participation in events

Name of event	Type	Date
Kick-off meeting	Online meeting	15-03-2021
Technical webinar for OC1 projects	Online webinar	14-06-2021

Evaluations

Sprint #1				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	D1 Analysis business use case / process		14-05-2021	Yes
Review	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
	20-05-2021	TFoU DNET	Good	Deliverable D1 is well-written with some notes about the missing understanding of the integration with the DEMETER platform. A use case scenario is needed. It is suggested that metrics for evaluation in terms of KPI should be provided (number of data sources to be implemented, number of connected machines, operation efficiency improvements, optimization, etc).

Sprint #2				
Deliverables	Name		Submission date	Deliverable accepted by reviewers?
	Deliverable 3 - Development API & Deliverable 4 - Integration into		13-07-2021	Yes

	DEMETER platform			
	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
Review	19-07-2021	TFoU DNET	Acceptable	Integration is still pending but the progress is being made. The AIM is being used. To provide API for swagger. There is no AIM format in the document nor the API swagger. Explain more integration with the DEMETER, component by component.

Sprint #3				
	Name	Submission date	Deliverable accepted by reviewers?	
Deliverables	D5 and D6 project and final report.	14-09-2021	No	
	D5 and D6 revised version	25-11-2021	Yes	
	Date of review meeting	Reviewers	Assessment of progress	Recommendations/Remarks
Review	28-10-2021	TFoU DNET	-	The work done for WP4 is missing, and has to be documented. The report for WP5 must be updated with a discussion about the business aspects. It would be also good to see integration of data coming from Optiflaxit into one of the farm management solutions used in DEMETER pilots.
	25-11-2021	TFoU DNET	Acceptable	The outcomes of WP4 (DEMETER integration) are now documented, and the discussion of the business aspects are acceptable in the last deliverable (WP5).

10.2 Events for OC1 partners

10.2.1 Kick Off event

The OC#1 kick-off event took place online, on Monday March 15th 10:00-12:00 CET. This date was also considered as the start of Sprint #1. The agenda for the meeting was as follows:

10:00 - 10:15 - Welcome to DEMETER. Presentation by DEMETER Coordinator

10:15 - 11:10 - OC#1 project presentations. OC#1 partners to present their project with some slides (5min each SME)

11:10 - 11:30 - Monitoring activities and assigned coaches, evaluation and payments, by monitoring coordinator (UPM)

11:30 - 12:00 - DEMETER architecture webinar and documentation, by Intrasoftware team.

12:00 - Questions & Answers

All OC1 participants attended. Nevertheless, the session was recorded for further consultation.

10.2.2 Technical Workshop for OC1 projects

Due to the need of OC#1 winners to understand integration possibilities with DEMETER ecosystem, a technical workshop was planned. To define the agenda and scope of the workshop, first, a survey was circulated among OC#1 winners to understand their needs, considering the following questions.

Questions	Which of the following integration activities do you already performed, and which ones are	Which are the needs of your project in terms of DEMETER architecture? Which kind of activities you are interested in seeing?	In your opinion, what duration would be advisable for this workshop?	Which implementation language(s) and framework(s) are you using for integration with DEMETER?	Other suggestions or expectations
Example of answers: Please select some of them and elaborate, or include any other option.	(1) Access to Gitlab, (2) Registration in ACS, (3) Registration in DEH, (4) Publication of Service in DEH, (5) Testing BSE, (6) Our data is in DEMETER, (7) Any	(1) General introduction of the main DEMETER components (ACS, BSE, DEH and AIM), (2) Resolution of issues from issue tracker, (3) Specific support for integration with DEMETER components, addressing specific project challenges, (4) Questions and answers, (5) Any other:	(1) One half day session: 3-4 hours, (b) Two half day sessions in consecutive days (3-4 hours each), (c) Two half day sessions with several days in between (3-4 hours each)	Javascript (frameworks: Node.js, Express, Angular, React), Typescript (Nest.js), Python, etc.	I'd like to see a use case example coming for a pilot, a hello world project. Please reserve a slot for providing questions to architectural experts. I would like to share my screen and show them my code, etc.

After collecting answers of 8 out of 10 projects, a technical workshop was coordinated with representatives of the DEMETER core models / components (AIM, ACS, BSE, DEH) to answer questions of how to integrate OC1 project's systems into the DEMETER architecture.

The workshop was scheduled on Monday 14th June from 10.00 to 13:00 CEST (Brussels time), via Zoom. The agenda was as follows:

- General introduction of the DEMETER RA and its main components (ACS, BSE, DEH and AIM) - 30m - NTUA team.
- AIM: introduction, supported ontologies, how to add/map a new one, ... - 60m -NTUA, PSNC teams
- ACS+BSE: Real world examples with all steps - 60m Intrasoftware + VICOM + Odins teams
- Q&A: 30m

The coordination reminded that the attendance of all OC1 participants was required, since the workshop is an important step to solve integration problems and advance in the development of OC projects. 9 out of 10 projects attended this workshop.

10.3 Coaches' meetings

As a way to share experience and foster the support between coaches. In those meeting three groups of participants were represented: Coaches of OC#1 Projects, Tasks Leaders of relevant DEMETER WP's and Topic proposers. The table below provides information about the dates, participated entities and summary of what was discussed.

Meeting ID #	Date	Participates entities	Summary of Meeting
1	14-04-2021	Coaches: UM, SINTEF, ODINS, TRAGSA, UPM, Coldiretti, TFOU. Tasks leaders: TRAGSA, F6S Topic proposers: JohnDeere, TRAGSA, DNET	General organisation and planning of the Coaching activities. Sharing of documentation and Guides to be used during the Coaching process.
2	30-04-2021	Coaches: UM, SINTEF, ODINS, INESTEC, TRAGSA, UPM, Coldiretti, TFOU. Tasks leaders: WIT, Fraunhofer, TRAGSA, F6S. Topic proposers: TRAGSA, DNET	Revision of the status of OC#1 Projects. Following the integration of OC#1 projects with DEMETER Architecture Preparation of First Sprint Evaluation.
3	14-05-2021	Coaches: UM, ODINS, INESTEC, TRAGSA, UPM, Coldiretti, TFOU. Tasks leaders: F6S. Topic proposers: DNET	This meeting was specially dedicated to the preparation of the First Sprint Evaluation to ensure the successful evaluation of this First Sprints. This includes the review of the status of projects and the preparation of the agenda for First Sprint.
4	28-05-2021	Coaches: UM, SINTEF, ODINS, INESTEC, TRAGSA, UPM, Coldiretti. Tasks leaders: WIT, Fraunhofer, TRAGSA, F6S. Topic proposers: TRAGSA, DNET	Evaluation of the Results of the First Sprint Evaluation just before providing the completed evaluation Results. As a result of this First Sprint Evaluation of OC#1 projects, it was decided to organise an integration workshop between DEMETER developers and OC#1 Projects.
5	02-07-2021	Coaches: UM, ODINS, TRAGSA, UPM, Coldiretti, TFOU. Tasks leaders: WIT, TRAGSA, F6S. Topic proposers: TRAGSA	F6S presented the review results of the First sprint evaluation after providing all the Evaluation reports. The only project with incidents was CollectGood. UPM also informed about the successful completion of the workshop for integration with DEMETER. Coaches also informed about the status of each OC#1 project. During this meeting it was also started the preparation of the Evaluation for the Second Sprint.
6	30-07-2021	Coaches: ODINS, INESTEC, TRAGSA, UPM, Coldiretti. Tasks leaders: TRAGSA, F6S. Topic proposers: TRAGSA, DNET	This meeting focused on the evaluation of the Results of the Second Sprint Evaluation just before providing the completed evaluation Results. CollectGood did not progressed after the First Sprint Evaluations and SOILY is the only project that did not have evaluation meeting yet. Coaches also informed about the status of each OC#1 project.
7	03-09-2021	Coaches: UM, SINTEF, TRAGSA, UPM, Coldiretti.	Coaches also informed about the status of each OC#1 project.

Meeting ID #	Date	Participates entities	Summary of Meeting
		Tasks leaders: WIT, TRAGSA, F6S, Fraunhofer. Topic proposers: TRAGSA	F6S informed about the preparation of the Third Sprint Evaluation.
8	10-09-2021	Coaches: UM, Odins, SINTEF, TRAGSA, UPM, Coldiretti. Tasks leaders: TRAGSA, F6S. Topic proposers: TRAGSA	Main topic: preparation of the Final (Third) Sprint evaluation. Because of the holiday period, and because this is the Final Sprint that requires the presentation of Final reports and demos it was decided to schedule the review some days after the Final of the OC#1 Projects. F6S explains that WP6 es preparing dissemination activities and OC#1 projects will be invited for presentations and demonstrations.
9	22-10-2021	Coaches: UM, Odins, SINTEF, TRAGSA, UPM. Tasks leaders: TRAGSA, F6S. Topic proposers: TRAGSA	This meeting focused on the report about the Third Spring Evaluation Process. There are still some projects pending of Review. F6S informed that Second Open Call preparation is going to be started on November.

10.4 Integration to DEMETER architecture and architectural support:

As a way to measure impact, we measured how OC project developments have been integrated into DEMETER architecture. The table below provides some information about the final integration status of OC#1 projects regarding DEMETER core enablers (AIM, ACS, BSE, DEH).

OC#1 project name	Component integration	Description and comments
WAISENSE FIELDS	ACS, BSE, AIM, DEH	An Application inside ACS were created by VICOMTECH for Waisense Fields. An endpoint were provided and registered in the BSE system with all the data of our datasets and devices we use. All the relevant endpoints which WAISENSE FIELDS exposes data were translated to AIM and registered in BSE. An example APP was registered in DEH, exposing some AIM API Rest calls.
W4A-SoilWorkability	ACS, BSE, DEH	User registration (email and password) via ACS web UI. WiForAgri DSS registration on DEH in order to make the DSS accessible. API ServiceRegister in BSE (with Compatibility Checker)
SoilSignal	ACS, BSE, AIM DEH	BSE registry for all services provided by Pilots helped to find, review and use existing services. AIM: Standard Vocabulary / format to exchange data between services.
SOILY	ACS, BSE, AIM	The DEMETER Access Control Server (ACS) was used to register new BSE service Soily. AIM for the project Soily was defined with the relevant parameters that are measured with the Sensedge Soily - soil moisture sensors. BSE was used to publish Soily service.
CAP/P	ACS, BSE, DEH	Registration of Terranea API Endpoints in BSE. Prior registration in ACS. CAP/P and photo-API are presented in DEH service warehouse.

OC#1 project name	Component integration	Description and comments
ELLIOT-ISOBUS	ACS, BSE, AIM, DEH	All the endpoints exposed in the API are listed in BSE with a brief description. Application and all related documentation and services are included in DEH. The format adopted for the received frames has been developed with DEMETER experts to be fully compatible with AIM and is therefore the one used.
PerSePHOnE	ACS, BSE, AIM, DEH	SEEDS srl successfully registered to the Demeter ACS and the main enablers: DEH (Demeter Enabler Hub) and BSE (Brokerage Service Environment). Mappings between SeedsBit and DEMETER AIM ontologies, thanks to a fruitful collaboration with PSNC regarding DEMETER's AIM, JSON-LD and SHACL.
DEBBIE	ACS, DEH	DBT has been registered in DEMETER portal so that users can navigate to the software and begin to use it.
CollectGood	-	-
OPTIFLAXIT	ACS, BSE, AIM, DEH	Registration of the service into the BSE and DEH so that is discoverable in programmatic way. The service returns the timeseries using the JSON-LD format and the AIM ontology.

10.5 Collaboration of OC projects with current pilots

It is essential to identify and outline the collaboration opportunities with pilots for enhancing cross-sectoral collaboration. If such potential is recognized, OC participants describes what sharing components or approaches (i.e. common hardware solutions were used in both pilots, common software features were necessary, common technologies were/are used, common methodologies, etc.) or integration of data/services (i.e. available from one pilot and benefiting other pilot) were subject to this collaborations, and with which pilot.

OC#1 project name	Collaboration with DEMETER Pilots	Description and comments
WAISENSE FIELDS	-	Possible contacts with other pilots to integrate and enrich the solutions will be attempted.
W4A-SoilWorkability	Agricolus	Agricolus is a DEMETER partner interested in the DSS model of workability and trafficability proposed by WiForAgri; Agricolus provided to WiForAgri sensor data collected in the last year/season (2020-21) in order to carry out simulations of the DSS models in some pilot fields of interest.
SoilSignal	-	Collaboration with Symington Wine Estates, a partner within the DEMETER pilot network.
SOILY	Pilot 5.1	Collaboration with DNET for the installation of SOILY temperature sensor and Sensedge's platform in Pilot 5.1, three sites: Vaneča, Ivanovci, Pince.

CAP/P	-	Of interest would be shared information about agricultural parcels and related crop types. Moreover, official LPIS data would be an asset
ELLIOT-ISOBUS	-	This project has not made use of pilots or other collaborating companies.
PerSePHOnE	-	Some integration as expected in the future, considering precision farming, fruit supply chain and tracking and tracing of products and processes.
DEBBIE	Pilot 5.4	DEBBIE's implementation complements DEMETER 5.4 pilot and focuses on the production of poultry assuming chicken health and environment are ensured.
CollectGood	-	-
OPTIFLAXIT	-	No real collaboration was done between OC1 partners, besides exchanging some information and support around the Demeter platform. See also the lessons learnt. Hyler is willing to explain more in detail the different components, e.g. hardware & cloud setup used in this project.

11 OC#1 – DEVELOP Outcome of projects and Conclusion

Through the DEMETER Open Calls, the MAA opens up to external developers and encourages tech SME's to take part in the development of smart agricultural solutions. This deliverable captures the outcome of Open Call #1 including the analysis of statistics of the open call results and description of monitoring and evaluation activities.

The outcome of OC#1 projects is provided in Annex III, through a list of final reports which were completed by to nine out of ten projects (as stated before, one open call winner requested his withdrawal after the first sprint).

As a result of this Open Call 1 project and outcome evaluation report we want to highlight the following points:

- The publication of Open Call # 1 was in accordance with the proposed methodology. Thanks to the dissemination mechanisms, it achieved the expected scope (146 applications were started on the F6S platform, and 61 proposals have been finally submitted).
- The evaluation of projects for the Open Call took place remotely with the help of external experts. From the initial group of 47 external experts 9 were finally selected in order to perform the evaluation. The selection has been based on criteria such as expertise in the field related to each specific topic, experience in the evaluation of proposals, profession type, geographic distribution, and availability of the evaluators.
- As a result of the evaluation process, a total of 10 proposals were chosen and the signature of contracts with the selected SMEs were proceeded.
- A Monitoring and evaluation methodology based on four layers of support (coaching, collaboration with pilots, DEMETER architecture and other supporting activities) was defined, with a standardized evaluation process and well-established monitoring and evaluation timelines.
- 9 projects have met their objectives and passed the evaluation process, receiving complete funding. They successfully covered issues such as integration with the DEMETER architecture and the generation of dissemination material for the DEMETER project.
- The implementation of joint activities with current DEMETER pilots is one of the activities to be improved, since only 3 projects have demonstrated joint activities associated with pilots. The other projects are aware of this limitation and intend to cover this collaboration in the future.

12 Annex I: Monitoring template

In this section it is described the monitoring template that was used in OC#1 monitoring activities

DEMETER OC#1 Monitoring form	
Project Name	<Project name>
Project ID	OC1/XX

Contacts

Role	Role	Contact person	Email	Skype	Phone
Applicant (Coordinator)	SME Coordinator				
Applicant (Team member)	SME participant				
Applicant (Team member)	SME participant				
Coacher for monitoring	Coach				
Pilot contact point	Topic Proposer				
DEMETER architecture contact point	Architecture contact		-		

List of deliverables

Deliverable name	Type of deliverable	Sprint number	Due date	Status	Verification	Action required?
D1						

Participation in events

Name of event	Type	Date	Who attended

Follow-up meeting

Meeting date	Sprint number	Type of meeting	Participants	Minute

Payments

Sprint number	Amount planned	Status	Comments
#1			

13 Annex II: Guide for coaches and Guide for OC#1 winners

Guide for coaches and guide for OC#1 partners are attached as Annex of the main Deliverable document.

1_OC1 Guide for Coaches.pdf

2_OC1 Guide for OC1 Partners.pdf

14 Annex III: OC#1 – DEVELOP final reports

The outcome of OC#1 projects is provided in this section through a list of final reports by the nine completed OC#1 projects

01 - WAISENSE FIELDS - Metrica6 - T1.pdf

02 - W4ASoilWorkability - Primo Principio -T1.pdf

03 - SoilSignal - Deep Planet -T1.pdf

04 - SOILY - Sensedge -T1.pdf

05 - CAPP - TERRANEA -T2.pdf

06 - ELLIOT-ISOBUS - ELLIOT CLOUD -T3.pdf

07 - PerSePHOnE - SEEDS -T4.pdf

08 - DEBBIE - i4FS -T5.pdf

09 - OPTIFLAXIT - HYLER -T5.pdf