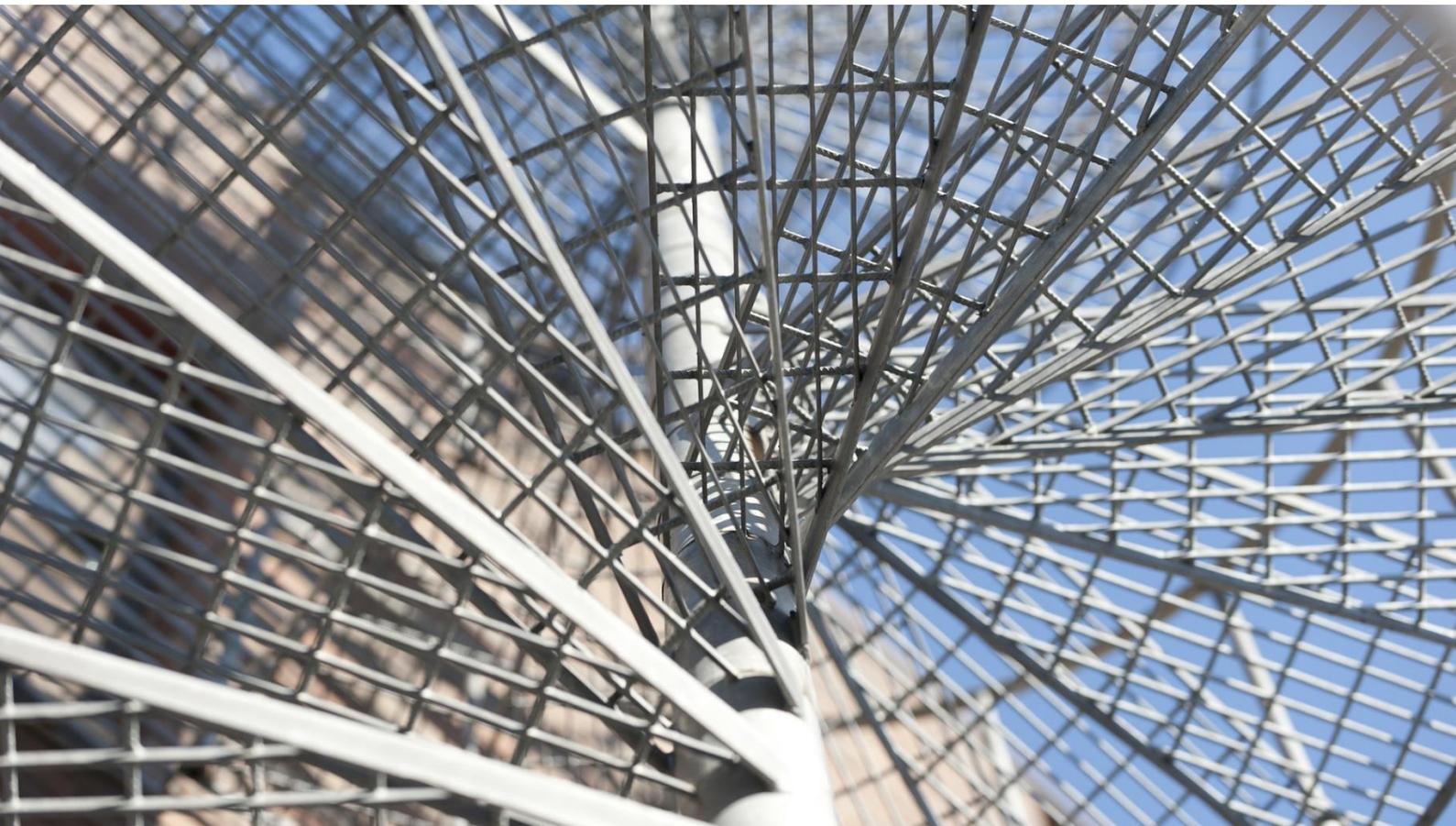


# D1.8: Progress Report

WP1 - Project Management, Coordination and Administration

Report No. D1.8 / Date: 30/06/2021



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# ENCHANT Report

D1.8: Progress Report

VERSION: 01 / DATE: 30.06.2021

## AUTHORS

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Quality assurance: All project partners

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## ABSTRACT

This document reports the progress in project implementation that has been made in between the project start 1 October 2020 and the end of Month 9 (30 June 2021). During this time six out of seven WPs were active with 18 tasks. Two of the tasks in WP2 have ended in the reporting period, all other tasks are still ongoing. Eight deliverables from WP1, WP2 and WP7 have been delivered on time and the first milestone has been reached as planned. This report presents the activities in the WPs and relates them to the project's objectives. Finally, the report presents an overview over the use of resources in the first 6 months of the project (after which the first internal reporting period had ended).

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## Executive summary

This report summarizes the activities and the progress in the first nine months of the ENCHANT project. In this time period, the project management established the financial and operational rules and procedures of the project and issued a first round of internal financial and progress reporting on which this report is based.

A data management plan has been developed, as well as specific reports on ethical requirements relevant for the project. These will be completed by another report on ethical aspects around the use of secondary data which is due in September 2021.

A comprehensive analysis of existing studies on energy efficiency interventions has established the state-of-the-art and identified knowledge gaps, which will be filled in the next stage of the project. The input from this work has fed into the design of the intervention packages, a matrix of mapping intervention packages to user partners, a plan for how to monitor the impact of these interventions (with a corresponding list of key performance indicators) and hands-on guidelines on how to implement the intervention pilots. With this ground work, the project is now ready to proceed to stage 2, namely implementing the pilots in six countries with many user partners and in the real world.

Furthermore, a scanning of available secondary data from other projects on energy efficiency and from the user partners has been conducted. This database is consolidated at the moment and an analysis plan implemented.

Finally, plans for exploitation of the results, dissemination and communication have been developed and first steps implemented (homepage, visual identity of the project, activities with sister projects).

So far, the project proceeds according to plan, no major risks have manifested, and all milestones have been reached on time as well as all deliverables have been submitted as planned.



# 1 Introduction

This document reports the progress in project implementation that has been made in between the project start 1 October 2020 and the end of Month 9 (30 June 2021). During this time six out of seven WPs were active with 18 tasks in total. Two of the tasks in WP2 have ended in the reporting period, all other tasks are still ongoing. Eight deliverables from WP1, WP2 and WP7 have been delivered on time and the first milestone has been reached as planned. This report presents the activities in the WPs and relates them to the project's objectives. Finally, the report presents an overview over the use of resources in the first 6 months of the project (after which the first internal reporting period had ended).

In the following sections the work which has been carried out by the beneficiaries in the ENCHANT in M1-M9 will be presented in relation to the project objectives (Section 2) and by Work Package and Task (Section 3). Afterwards, the Deliverables and Milestones from the reporting period will be briefly presented (Section 4). Finally, the resource use in terms of Person Months per partner and WP will be presented as reported in the first internal reporting period at the end of Month 6 (Section 5). Figure 1 on the next page displays the GANTT chart for the project as included in the Project Handbook (Deliverable 1.1).



ENCHANT	Responsible partner	person*month	Duration																																				
			1 <sup>st</sup> year										2 <sup>nd</sup> year										3 <sup>rd</sup> year																
			(Project totals = 200)																																				
			2020										2021										2022										2023						
Leader	Total/task	Oct 1	Nov 1	Dec 1	Jan 1	Feb 1	Mar 1	Apr 1	May 1	Jun 1	Jul 1	Aug 1	Sep 1	Oct 1	Nov 1	Dec 1	Jan 1	Feb 1	Mar 1	Apr 1	May 1	Jun 1	Jul 1	Aug 1	Sep 1	Oct 1	Nov 1	Dec 1	Jan 1	Feb 1	Mar 1								
<b>WPs/Tasks</b>	<b>Leader</b>	<b>Total/task</b>	Oct 1	Nov 1	Dec 1	Jan 1	Feb 1	Mar 1	Apr 1	May 1	Jun 1	Jul 1	Aug 1	Sep 1	Oct 1	Nov 1	Dec 1	Jan 1	Feb 1	Mar 1	Apr 1	May 1	Jun 1	Jul 1	Aug 1	Sep 1	Oct 1	Nov 1	Dec 1	Jan 1	Feb 1	Mar 1							
<b>WP1: Project Management, Coordination and Administration</b>	<b>NTNU</b>	<b>23.0</b>																																					
T1.1: Administrative, legal and financial management	NTNU	5.0																																					
T1.2: Management of project execution	NTNU	8.0			D1.1										D1.2															D1.3									
T1.3: Data management	NTNU	7.0						D1.4							D1.5																D1.6								
T1.4: Ethics requirement	NTNU	3.0						D1.7																															
T1.5: Contribute to EASME activities	NTNU	0.0									D1.8																												
<b>WP2: Development of intervention packages based on behavioural science input</b>	<b>Roma3</b>	<b>34.0</b>																																					
T2.1: Analysis of existing literature	Roma3	7.0			D2.1																																		
T2.2: Preparation of the standardised packages	Roma3	8.0																																					
T2.3: Select and define the ENCHANT intervention matrix	NTNU	11.0										MS1																											
T2.4: Define the RCT procedure and research protocols for intervention evaluation	Roma3	8.0											D2.2																										
<b>WP3: Re-analysis of existing data</b>	<b>UBB</b>	<b>28.0</b>																																					
T3.1: Collection of existing data	UBB	6.0										MS D3.1																											
T3.2: Ethical and licensing aspects of existing datasets	NTNU	6.0										MS1		D.3.2																									
T3.3: Analyse and prepare existing data in relation to ENCHANT topics	UBB	10.0													D3.3																								
T3.4: Curate ENCHANT data sets	UBB	6.0										MS1									MS2		MS3		D3.4														
<b>WP4: Implementation and monitoring of all intervention pilots</b>	<b>IUE</b>	<b>35.0</b>																																					
T4.1: Developing an operational implementation plan for intervention pilots	IUE	7.0										MS1																											
T4.2: Implementation of the pilots	IUE	18.0											D4.2									MS2																	
T4.3: Evaluation of the pilots and reporting	EI-JKU	10.0																				MS2		MS3/D4.3															
<b>WP5: Impact assessment and policy design</b>	<b>EI-JKU</b>	<b>33.0</b>																																					
T5.1: Monitoring and calculating ENCHANT's impacts	EI-JKU	8.0										MS1/D5.1										MS2		MS3															
T5.2: Impact assessment and ranking	EI-JKU	10.0																				MS2		MS3															
T5.3: Guidance for best practise transfer	IUE	7.0																					MS3							MS D5.2									
T5.4: Policy instrument matrix and consolidated knowledge provision	EI-JKU	8.0																												MS D5.3									
<b>WP6: Design of the web-based decision tool</b>	<b>SIN</b>	<b>24.0</b>																																					
T6.1: Data structure normalisation	SIN	3.0																																					
T6.2: ENCHANT decision-making architecture	SIN	7.0																				MS2		MS3															
T6.3: Developing, integrating, and testing, of decision-making tool	SIN	10.0																												D6.1		D6.2	MS4						
T6.4 Tool pilot implementation	SIN	4.0																													MS4	D6.3							
<b>WP7: User engagement, dissemination, and exploitation</b>	<b>NSR</b>	<b>23.0</b>																																					
T7.1: Exploitation strategy	NSR	7.0							D7.1		MS1				D7.2			MS2		MS3		D7.3						MS4											
T7.2: Dissemination strategy and activities	NSR	8.0							D7.4		MS1				D7.5			MS2		MS3		D7.6						MS4	D7.7										
T7.3: Communication strategy and activities	Viken	8.0							D7.8		MS1				D7.9			MS2		MS3		D7.10						MS4	D7.11										

Figure 1 Chart of ENCHANT's WPs, tasks and leaders of them, duration of tasks, dates for deliverables and milestones

## 2 Progress of ENCHANT in relation to the objectives

The DoA in the Grant Agreement describes the overarching objective and six specific objectives for the ENCHANT project. In the following sections, each of these objectives is listed and the work is described that was conducted during the first nine months towards achieving these objectives.

### **From the DoA:**

**Overall objective in ENCHANT:** ENCHANT will test established science-based behavioural intervention techniques under controlled conditions in an unprecedented large-scale effort, targeting millions of European citizens using a Randomized Control Trial (RCT) approach. Interventions will be developed, fitted, and tested with the objective to unlock an energy efficiency potential in the general public, through behavioural change. Including a large group of user-partners, ENCHANT will roll out interventions through already existing communication channels (used by energy providers, municipalities, environmental NGOs) and thus tests their effects in real life settings. Through a systematic evaluation of data gathered from implementing these interventions, in combination with re-analysing already existing data, ENCHANT will design an empirically informed decision tool for impactful campaign design targeting energy-efficiency, relevant for a number of public and private actors (e.g. policymakers).

### **Work carried out towards the achievement of this objective:**

Within the first nine months of the project, the following work has been carried out to achieve the main objective of ENCHANT:

- (1) In WP1 the project structures for efficient project management have been established and a kick-off meeting has been organized to create a team of scientific and user partners for the project. User partners have been matched with specific scientific partners to ensure a close and everyday contact. This has been mostly done based on the spoken languages so that in each team people can communicate in their mother tongue. Furthermore, WP1 has established a data management plan and ethical rules for conducting research in ENCHANT. For more detail, see WP1 descriptions in Section 3. Deliverables D1.1, D1.4 and D1.7 document the work in WP1.
- (2) WP2 conducted a thorough literature study on a large selection of behaviour science-based energy efficiency interventions and has consolidated the existing knowledge in this domain. Based on this literature study, possible intervention strategies have been designed with the user partners to (a) identify which intervention strategies through which communication channels can be provided by which user partner, and (b) secure that all intervention strategies, channels, and target behaviours described in the DoA are covered in the intervention matrix. For more detail, see WP2 descriptions in Section 3.

The results of the literature research are presented in D2.1. D2.2 in July 2021 will present the intervention matrix.

- (3) WP3 has conducted a thorough research of existing dataset relevant for the topic of energy efficiency, has developed a data-base for these data sets and started defining ethical rules and practical procedures for use of these data sets in ENCHANT. The availability of data sets has been coordinated with the WP lead of WP6 (still inactive) to secure that the necessary data for WP6 will be available. For more detail, see WP3 descriptions in Section 3.
- (4) WP4 has started discussing and defining rules and procedures for implementing the intervention matrix for each user partner. The general rules and procedures are formulated in D4.1 which is submitted in parallel to this document. For more detail, see WP4 descriptions in Section 3.
- (5) WP5 defined the RCT procedures and developed evaluation criteria together with the user partners and supported the user partners in their implementation through individual counseling. The indicator set is presented in D5.1 which was submitted in parallel to this report. For more detail, see WP5 descriptions in Section 3.
- (6) WP7 defined the dissemination, exploitation and communication strategies, developed and implemented the project homepage (<https://enchant-project.eu/>) and a visual profile for the project. Furthermore, WP7 facilitated communication between user partners and academic partners. For more detail, see WP7 descriptions in Section 3.

### **From the DoA:**

**Objective 1:** Increase energy efficiency behaviour by a large-scale rollout of interventions informed by behavioural science.

### **Work carried out towards the achievement of this objective:**

Within the first nine months of the project, the following work has been carried out to achieve the first objective of ENCHANT:

- The user partners were activated from day 1 of the project to have a close dialogue with them about the implementation of the interventions within their daily operations and to reach out to as many households as possible across Europe. Regular meetings with the user partners and established teams of scientific and user partners with the same mother tongue contributes to achieving this close collaboration.
- Large groups of target households have been identified to be reached through the communication channels of the user partners at no or low additional costs for them and in line with their own strategies.
- An internal workshop series and internal documents have been developed to present the behaviour science-based intervention techniques and the requirements of a RCT to the user partners.



- A comprehensive intervention matrix has been developed that combines the requirements of the RCT design and the complexity of the interventions to be tested with the possibilities and interests the different user partners have.

### **From the DoA:**

**Objective 2:** Use existing data and research-based knowledge to streamline and optimize the application of interventions.

### **Work carried out towards the achievement of this objective:**

Within the first nine months of the project, the following work has been carried out to achieve the second objective of ENCHANT:

- A substantial amount of scientific literature has been studied to extract the state-of-the-art knowledge about behaviour science interventions, their success, the context they have been implemented in and the conditions for their application (see D2.1). Knowledge gaps have been indentified, which will be addressed in the empirical work in ENCHANT
- A substantial database of existing data sources relevant for studying energy efficiency in households has been developed, based on previous projects in this domain and data owned by the user partners. Ethical procedures for how to use this data are under development. Data requirements for the algorithms in for the web-tool development in WP6 towards the end of the project have been discussed.

### **From the DoA:**

**Objective 3:** Tackling cross-cutting issues through a contextual and multi-disciplinary approach.

### **Work carried out towards the achievement of this objective:**

Within the first nine months of the project, the following work has been carried out to achieve the third objective of ENCHANT:

- Psychological, social and contextual drivers of energy efficiency have been the focus of the literature review conducted and the analysis perspective for this review has been a broad perspective of behavioural sciences (including psychology, sociology, and behavioural economics).
- The intervention matrix developed covers seven intervention types, addressing 10 biases in decision making, targets three categories of behaviour (investments, maintenance, and curtailment), is provided through all user partners (three types: NGOs, Municipalities,



energy providers) in six countries, and makes use of their already established or planned communication channels.

- The developed performance indicators make sure that the contextual success of the intervention instruments is identifiable.

### **From the DoA:**

#### **Objective 4: User partner involvement**

##### **Work carried out towards the achievement of this objective:**

Within the first nine months of the project, the following work has been carried out to achieve the fourth objective of ENCHANT:

- The user partners are of key importance for the success of ENCHANT. Therefore, a strategy has been developed to involve them in every step of the project.
- Teams of scientific and user partners have been established that communicate on a daily basis.
- Series of virtual workshops have been conducted to develop the intervention plan in close cooperation and taking into account the possibilities and ideas the user partners have, to discuss procedures for implementation (including GDPR), and to discuss the requirements of the RCT work.



### 3 Work carried out per WP and Task

As part of the project management, ENCHANT established an internal 6-monthly monitoring of resource use and project progress on the level of tasks. The following overview of work carried out in the WPs is based on these reports provided by the WP leaders to the Coordinator. For each task active in the first nine months of the project, the work conducted, partners involved and deviation from the work plan is indicated. This gives a detailed overview about the contribution of all partners and the progression of the work in ENCHANT.

#### 3.1 WP1 – Project Management, Coordination, and Administration

##### 3.1.1 Task 1.1 – Administration, legal and financial management

<b>Estimated completion</b>	30 % (End date 31 March 2023)
<b>Partners contributing to the task in the reporting period</b>	NTNU with input from all partners
<b>Brief description of the activities in the task in the reporting period:</b>	In the task the following activities have been conducted in the first nine months: <ul style="list-style-type: none"> <li>- Establishment of a financial management system</li> <li>- First round of payments to partners</li> <li>- Initiation of the first internal financial reporting</li> <li>- Contract management</li> <li>- Establishment of a system for protecting intellectual property rights</li> </ul>
<b>Brief description of the outcomes of the task in the reporting period:</b>	The task does not have any outcomes in the first nine months. A first internal financial report was finished in month 8 and an overview of the PMs used so far is presented in Section 5 of this report.
<b>If any deviation from the work plan:</b>	<ol style="list-style-type: none"> <li>1. Brief description of the deviation</li> <li>2. Corrective measures</li> <li>3. Consequences for the WP</li> <li>4. Consequences for other WPs</li> <li>5. Impact for the whole project</li> <li>6. Issue for Steering Group? Issue for General Assembly?</li> </ol>
	No deviations

##### 3.1.2 Task 1.2 – Management of project execution

<b>Estimated completion</b>	25 % (End date 31 March 2023)
<b>Partners contributing to the task in the reporting period</b>	NTNU with input from all partners
<b>Brief description of the activities in the task in the reporting period:</b>	The task's activities in the first nine months were supporting the start of the project: <ul style="list-style-type: none"> <li>- Preparing, organizing and conduction the ENCHANT kickoff meeting</li> <li>- Establishment of a common workspace (the ENCHANT Teams space)</li> <li>- Establishment of a monthly meeting structure of the WP leaders</li> <li>- Preparation of the second steering group meeting on 21 April 2021</li> <li>- Facilitating communication with the project partners</li> <li>- Risk assessment and initiating risk mitigation measures if necessary</li> </ul>



- Communication with the project officer
- Quality ensurance of all deliverables in the reporting period
- Perparation of the first internal progress reporting
- Preparation of the ENCHANT work plan

**Brief description of the outcomes of the task in the reporting period:**

A first version of the ENCHANT work plan was submitted as D1.1. This work plan will be updated twice during the project (M14 and M28).

**If any deviation from the work plan:**

1. Brief description of the deviation
2. Corrective measures
3. Consequences for the WP
4. Consequences for other WPs
5. Impact for the whole project
6. Issue for Steering Group? Issue for General Assembly?

No deviations

### 3.1.3 Task 1.3 – Data management

**Estimated completion** 35 % (End date 30. September 2022)

**Partners contributing to the task in the reporting period**

NTNU with input from all partners

**Brief description of the activities in the task in the reporting period:**

In T1.3, a first version of the Data management plan was developed, which specifies roles of the beneficiaries, data handling procedures, rules with respect to GDPR, recruitment procedures, open data standards, and other procedural aspects around data management. Partners have been informed about these issues and the task also takes care of counseling academic and user partners in questions related to data management in ENCHANT.

**Brief description of the outcomes of the task in the reporting period:**

T1.3 submitted a first version of the Data Management plan as D1.4. This deliverable will be updated twice during the project (M14 and M28), then also incorporating D1.7 and D3.2.

**If any deviation from the work plan:**

1. Brief description of the deviation
2. Corrective measures
3. Consequences for the WP
4. Consequences for other WPs
5. Impact for the whole project
6. Issue for Steering Group? Issue for General Assembly?

No deviations

### 3.1.4 Task 1.4 – Ethics requirements

**Estimated completion** 75 % (End date 30. September 2022)

**Partners contributing to the task in the reporting period**

NTNU

**Brief description of the activities in the task in the reporting period:**



T1.4 defined the ethical standards for the ENCHANT project, especially with respect to empirical work (recruitment of participants, handling of data, exchange of data to non-EU countries, and vulnerable respondents).

**Brief description of the outcomes of the task in the reporting period:**

T1.4 delivered a specific report with ethical requirements (D1.7). This report will be the basis for the further development of the data management plan and the development of the report on ethical issues with secondary data prepared in WP3.

**If any deviation from the work plan:**

1. Brief description of the deviation
2. Corrective measures
3. Consequences for the WP
4. Consequences for other WPs
5. Impact for the whole project
6. Issue for Steering Group? Issue for General Assembly?

No deviations

### 3.1.5 Task 1.5 – Contribute to EASME activities

**Estimated completion** 15 % (End date 31 March 2023)

**Partners contributing to the task in the reporting period**

NTNU with support by all project partners

**Brief description of the activities in the task in the reporting period:**

Task 1.5 deal with all engagements with EASME activities. In the first nine months, there were two activities in this task: (a) the ENCHANT project was represented on the clustering meeting with sister projects organized by EASME on 11 February 2021, and (b) preparing this progress report.

**Brief description of the outcomes of the task in the reporting period:**

T1.5 has delivered this report as D1.8 on time and organized a joined symposium of the projects in the cluster, which has been accepted for the ICEP conference in October 2021.

**If any deviation from the work plan:**

1. Brief description of the deviation
2. Corrective measures
3. Consequences for the WP
4. Consequences for other WPs
5. Impact for the whole project
6. Issue for Steering Group? Issue for General Assembly?

No deviations

## 3.2 WP2 – Development of Intervention Packages

### 3.2.1 Task 2.1 - Analysis of existing literature

**Estimated completion** 100 % (End date 31. December 2020)

**Partners contributing to the task in the reporting period**

Roma Tre, NTNU, NSR, IUE, EI, UBB

**Brief description of the activities in the task in the reporting period:**



T2.1 analysed previous studies, research projects and practical interventions where psychological science and behavioral insights have been applied to stimulate behavioural change in the domain of energy choices and sustainable lifestyles in general, to identify and discuss the factors affecting practical interventions to promote a sustainable energy transition.

**Brief description of the outcomes of the task in the reporting period:**

T2.1 was accomplished by writing a report (Deliverable D2.1), describing the result of the activities conducted, which serves as an input to designing the ensuing ENCHANT WP2 tasks, and to provide inputs for the WP3, WP4 and WP5 activities.

**If any deviation from the work plan:**

1. Brief description of the deviation
2. Corrective measures
3. Consequences for the WP
4. Consequences for other WPs
5. Impact for the whole project
6. Issue for Steering Group? Issue for General Assembly?

No deviations

### 3.2.2 Task 2.2 - Preparation of the standardized packages

**Estimated completion** 100 % (End date 31 May 2021)

**Partners contributing to the task in the reporting period**

All academic partners + all user partners

**Brief description of the activities in the task in the reporting period:**

T2.2 was devoted to design the main structure of the research design to be implemented in the pilot case studies, with the collaboration and support of the user partners involved, in order to plan the test of the selected intervention in the field.

**Brief description of the outcomes of the task in the reporting period:**

The outcomes of T2.2 activities will be described in a second written report (Deliverable D2.2, due end of July 2021), and will be used as guidelines and inputs for the pilot conduction in WP4 and for the development of impact indicators in WP5.

**If any deviation from the work plan:**

7. Brief description of the deviation
8. Corrective measures
9. Consequences for the WP
10. Consequences for other WPs
11. Impact for the whole project
12. Issue for Steering Group? Issue for General Assembly?

No deviations

### 3.2.3 Task 2.3 – Select and define the ENCHANT intervention matrix

**Estimated completion** 100 % (End date 31 May 2021)

**Partners contributing to the task in the reporting period**

All academic partners + all user partners

**Brief description of the activities in the task in the reporting period:**



T2.3 was devoted to systematically design the intervention matrix which pairs user partners with their interests and possibilities to the requirements of an RCT with a large number of tested interventions, target behaviours, and communication channels. The design of the intervention matrix takes care of having similar combinations of intervention packages across different communicators, channels, and countries to be able to compare the impact of the context of the intervention.

**Brief description of the outcomes of the task in the reporting period:**

The outcomes of T2.3 activities will be described in a second written report (Deliverable D2.2, due end of July 2021), and will be used as guidelines and inputs for the pilot conduction in WP4 and for the development of impact indicators in WP5.

**If any deviation from the work plan:**

1. Brief description of the deviation
2. Corrective measures
3. Consequences for the WP
4. Consequences for other WPs
5. Impact for the whole project
6. Issue for Steering Group? Issue for General Assembly?

No deviations

### 3.2.4 Task 2.4 - Define the RCT procedure and research protocols for intervention evaluation

<b>Estimated completion</b>	80% (End date 31 July 2021)
<b>Partners contributing to the task in the reporting period</b>	
All academic partners + all user partners	
<b>Brief description of the activities in the task in the reporting period:</b>	
The activities in T2.4 were dedicated to develop and share within the consortium the main intervention protocols to be implemented in ENCHANT, and the process and tools for empirically testing their efficacy, through the experimental RCT protocols.	
<b>Brief description of the outcomes of the task in the reporting period:</b>	
The outcomes of T2.2 activities will be described in a second written report (Deliverable D2.2, due end of July 2021), and will allow to define the main independent variables, implementation strategies and communication channels to be used in the pilot interventions (WP4), as well as the outcome indicators for monitoring the interventions and assessing the impacts (WP5).	
<b>If any deviation from the work plan:</b>	
<ol style="list-style-type: none"> <li>1. Brief description of the deviation</li> <li>2. Corrective measures</li> <li>3. Consequences for the WP</li> <li>4. Consequences for other WPs</li> <li>5. Impact for the whole project</li> <li>6. Issue for Steering Group? Issue for General Assembly?</li> </ol>	
No deviations	



### 3.3 WP3 – Re-analysis of existing data

#### 3.3.1 Task 3.1 - Collection of existing data

<b>Estimated completion</b>	85% (End date 31 July 2021)
<b>Partners contributing to the task in the reporting period</b>	
All academic partners + all user partners	
<b>Brief description of the activities in the task in the reporting period:</b>	
<p>The UBB research team performed a two-track research task with the aim of establishing a database of diverse sets of data of various survey levels, to display the dynamics of the various variables of interest identified in the ENCHANT project description. Two types of sources have been identified: projects implemented by various stakeholders and academic sources. Research was performed through two main methods: desk review and a chain referral method based on enquiries of experts in the consortium, at national and European level. At a second stage the sources used have been recorded in two separate groups of data: relevant project outputs and academic articles. The first category also includes open-source sets of data published within the respective projects. At a third stage analytical reading of these sources has been performed – a breakdown on variables of interest and a categorization of evidence on categories of variables to establish good practices and proof of unsuccessful interventions performed in the past. This analysis materialized in two analytical tables – one for project evidence and another one for academic sources. This stage also involved a more refined selection judgement and the exclusion of sources that have proved not to fit completely into ENCHANT objectives. At a fourth stage the instruments were circulated with consortium members who have been asked to send feedback on criteria for instrument refinement. Based on that discussion, a second reading is currently being performed in order to refine research and to allow for a more accurate and useful instruments. Furthermore, a contribution of WP6 on the types of data needed was integrated in the process.</p>	
<b>Brief description of the outcomes of the task in the reporting period:</b>	
<p>The work assumed by WP3 in this task is in progress and advancing according to the proposed calendar. This two-track analysis is conceived to feed into two outputs: D3.1 Data repository of relevant data from user-partners and previous projects (M10) will be based on data collected and analysed in previous research projects and interventions, whereas D3.3 Report on data review of energy behavioural data (M13) will be a Meta-analysis based on the academic outputs reviewed.</p>	
<b>If any deviation from the work plan:</b>	
<ol style="list-style-type: none"> <li>1. Brief description of the deviation</li> <li>2. Corrective measures</li> <li>3. Consequences for the WP</li> <li>4. Consequences for other WPs</li> <li>5. Impact for the whole project</li> <li>6. Issue for Steering Group? Issue for General Assembly?</li> </ol>	
No deviations	

#### 3.3.2 Task 3.2 - Ethical and licensing aspects of existing datasets

<b>Estimated completion</b>	30% (End date 30 September 2021)
<b>Partners contributing to the task in the reporting period</b>	
NTNU & UBB	



**Brief description of the activities in the task in the reporting period:**

WP3 and WP1 team have initiated a dialog on the performance of task 3.2. Relevant ethical questions with respect to secondary data licensing and handling have been identified.

**Brief description of the outcomes of the task in the reporting period:**

The work performed under task 3.2 is in progress and is advancing according to the calendar assumed in the project description. The work performed will materialize in output D3.2 Ethical and data protection methodology of dataset management, which is due in M12.

**If any deviation from the work plan:**

1. Brief description of the deviation
2. Corrective measures
3. Consequences for the WP
4. Consequences for other WPs
5. Impact for the whole project
6. Issue for Steering Group? Issue for General Assembly?

No deviations

**3.3.3 Task 3.3 – Analyse and prepare existing data in relation to ENCHANT topics**

**Estimated completion** 20% (End date 31 October 2021)

**Partners contributing to the task in the reporting period**

UBB, NTNU

**Brief description of the activities in the task in the reporting period:**

Initial analysis plans for the existing data have been made and a strategy for conducting the analyses has been developed.

**Brief description of the outcomes of the task in the reporting period:**

Task 3.3 just recently started and is in the early stages of analysis. It will culminate in a report (D3.3) to be submitted end of October 2021.

**If any deviation from the work plan:**

1. Brief description of the deviation
2. Corrective measures
3. Consequences for the WP
4. Consequences for other WPs
5. Impact for the whole project
6. Issue for Steering Group? Issue for General Assembly?

No deviations

**3.3.4 Task 3.4 - Curate ENCHANT data sets**

**Estimated completion** 25% (End date 31 August 2022)

**Partners contributing to the task in the reporting period**

All academic partners + all user partners

**Brief description of the activities in the task in the reporting period:**

Currently WP3 is involved with the rest of the consortium partners in a active process of consultation of the data to be collected during the pilot projects. There is a two-track consultation taking place: at the national level, WP3 team is discussion with the selected energy supplier to identify the details of the national pilot. Active exchanges on the national pilots are taking place within the consortium. Results have fed into various aggregative templates that support the standardization of research at the consortium level and which have been proposed by WP2.

**Brief description of the outcomes of the task in the reporting period:**

The work performed under this task is in progress and advancing according to the plan. Results will feed into deliverable D3.4: Consolidated dataset from ENCHANT interventions, due in M23.

**If any deviation from the work plan:**

1. Brief description of the deviation
2. Corrective measures
3. Consequences for the WP
4. Consequences for other WPs
5. Impact for the whole project
6. Issue for Steering Group? Issue for General Assembly?

No deviations

### 3.4 WP4 – Implementation and Monitoring of the Intervention Pilots

#### 3.4.1 Task 4.1 – Developing an operational implementation plan for intervention pilots

<b>Estimated completion</b>	100% (End date 30 June 2021)
<b>Partners contributing to the task in the reporting period</b>	All academic partners + all user partners
<b>Brief description of the activities in the task in the reporting period:</b>	In Task 4.1, a general plan has been developed, how the intervention packages will be implemented by the user partners. This plan describes general rules and guidelines for the pilot implementation to ensure comparability and high data quality across all pilots, at the same time as the interests and requirements of the user partners are taken into account
<b>Brief description of the outcomes of the task in the reporting period:</b>	The outcomes of T4.1 have been described in D4.1 as a hands-on guidebook for the pilot implementation.
<b>If any deviation from the work plan:</b>	<ol style="list-style-type: none"> <li>1. Brief description of the deviation</li> <li>2. Corrective measures</li> <li>3. Consequences for the WP</li> <li>4. Consequences for other WPs</li> <li>5. Impact for the whole project</li> <li>6. Issue for Steering Group? Issue for General Assembly?</li> </ol>
No deviations	



### 3.5 WP5 – Impact assessment and Policy Design

#### 3.5.1 Task 5.1 - Monitoring and calculating ENCHANT's impact

<b>Estimated completion</b>	15% (End date 31 July 2022)
<b>Partners contributing to the task in the reporting period</b>	NTNU, ROMA3, IUE, UBB, SIN, NSR, IBB, GDZ, EKG, NNF, VIKEN, FONDA, ENPOS, EFSA, MCN, ACSD, BDNV
<b>Brief description of the activities in the task in the reporting period:</b>	The WP5 team has been working on deliverable D5.1 (due in June 2021) in this reporting period. This deliverable establishes the key performance indicators with which the impact of ENCHANT, as described in Section 2 of the DoA, will be monitored and measured. For this aim, the WP 5 team has participated in and organized workshops and bilateral exchanges with the partners responsible for the intervention implementation to establish these KPIs.
<b>Brief description of the outcomes of the task in the reporting period:</b>	A set of KPIs has been submitted as D5.1.
<b>If any deviation from the work plan:</b>	<ol style="list-style-type: none"> <li>1. Brief description of the deviation</li> <li>2. Corrective measures</li> <li>3. Consequences for the WP</li> <li>4. Consequences for other WPs</li> <li>5. Impact for the whole project</li> <li>6. Issue for Steering Group? Issue for General Assembly?</li> </ol>
	No deviations

### 3.6 WP6 – Design of a Web-based Decision Tool

WP6 did not have any planned activities in the first nine months.

### 3.7 WP7 – User engagement, Dissemination, and Exploitation

#### 3.7.1 Task 7.1 - Exploitation strategy

<b>Estimated completion</b>	30% (End date 31 March 2023)
<b>Partners contributing to the task in the reporting period</b>	All partners, but mainly NSR & NTNU
<b>Brief description of the activities in the task in the reporting period:</b>	The work conducted in this task has been focused on identifying results to be exploited, and a strategy for exploitation. An impact tracker for internal use in the project has been developed.
<b>Brief description of the outcomes of the task in the reporting period:</b>	A first version of the exploitation plan, based on the analysis of the exploitable results has been submitted as D7.1. The document will be updated in M14 and M24.
<b>If any deviation from the work plan:</b>	<ol style="list-style-type: none"> <li>1. Brief description of the deviation</li> <li>2. Corrective measures</li> <li>3. Consequences for the WP</li> </ol>



4. Consequences for other WPs
5. Impact for the whole project
6. Issue for Steering Group? Issue for General Assembly?
No deviations

### 3.7.2 Task 7.2 - Dissemination strategy and activities

<b>Estimated completion</b>	30% (End date 31 March 2023)
<b>Partners contributing to the task in the reporting period</b>	All partners, but mainly NSR & NTNU
<b>Brief description of the activities in the task in the reporting period:</b>	The main activities in this task have been focused on preparing for dissemination activities and systems for reporting. Dissemination activities together with other research projects have been conducted as an outcome of the clustering event at EASME in February 2021, but also through identifying related projects ENCHANT partners are involved in.
<b>Brief description of the outcomes of the task in the reporting period:</b>	A first version of the dissemination plan has been submitted as D7.1. The document will be updated in M14 and M24.
<b>If any deviation from the work plan:</b>	<ol style="list-style-type: none"> <li>1. Brief description of the deviation</li> <li>2. Corrective measures</li> <li>3. Consequences for the WP</li> <li>4. Consequences for other WPs</li> <li>5. Impact for the whole project</li> <li>6. Issue for Steering Group? Issue for General Assembly?</li> </ol>
No deviations	

### 3.7.3 Task 7.3 - Communication strategy and activities

<b>Estimated completion</b>	30% (End date 31 March 2023)
<b>Partners contributing to the task in the reporting period</b>	All partners, but mainly NSR & NTNU
<b>Brief description of the activities in the task in the reporting period:</b>	This task has established a corporate identity, developed the project webpage, other communication channels, content for communication and strategies for project communication. We have also had meetings with other research projects in order to coordinate activities to be conducted with "our" user partners. There has also been a need for focusing on internal project communication, especially related to developing interventions, this has also been conducted in this task.
<b>Brief description of the outcomes of the task in the reporting period:</b>	D7.7 describes a first version of the communication strategy, the corporate identity, templates, webpage, communication content, strategies and an impact tracker. The document will be updated in M14 and M24.
<b>If any deviation from the work plan:</b>	<ol style="list-style-type: none"> <li>1. Brief description of the deviation</li> <li>2. Corrective measures</li> <li>3. Consequences for the WP</li> </ol>



4. Consequences for other WPs
5. Impact for the whole project
6. Issue for Steering Group? Issue for General Assembly?

No deviations



## 4 Deliverables and Milestones within the first nine months

Within the first nine months, ENCHANT had planned to reach the following milestone. Please refer to the following table for an overview.

MS number	MS name	Related tasks	Due date (in month)	Means of verification	Status
MS1	Interventions defined	2.3, 3.1, 3.2, 3.4, 4.1, 5.1, 7.1-3	9	An internal document of the intervention design is circulated	Reached as planned



Within the first nine months, ENCHANT had planned to submit the following Deliverables. Please refer to the following table for an overview.

ID	Title	WP No.	Lead Participant	Type	level	Delivery date	Status	Abstract
D1.1	Work Plan version 1	1	NTNU	Report	Public	31.12.2020	Submitted as planned	The main objective of the Work Plan is to operationalize a workflow that emphasises frequent meeting points, good co-operation arenas and clarification of dependencies and interrelations. It will be revised in M14 and in M28.
D2.1	Literature review on energy-related behavioural interventions	2	ROMA3	Report	public	31.12.2020	Submitted as planned	This report is an internal working document for the ENCHANT project and describes the research activities related to project task T2.1 and analyses previous studies, research projects and practical interventions where psychological science and behavioral insights have been applied to stimulate behavioural change in the domain of energy choices and sustainable lifestyles in general. This document reviews published studies, systematic reviews, and meta-analyses useful to provide a synthesis of this literature body. Our purpose was to identify and discuss the good and bad practices that might affect the efficacy and the success of practical interventions aimed at steering the behaviours of individuals, groups and communities in the direction of a sustainable energy transition, as well as the major contextual boundary conditions that are linked to more or less successful practices. The report is also an input to the design of the ensuing ENCHANT WP2 tasks and to WP3 AND WP4 activities.
D1.4	Data Management Plan version 1	1	NTNU	ORDP	public	31.03.2021	Submitted as planned	The Data Management Plan (DMP) provides an effective framework to ensure comprehensive collection and handling of primary and secondary data during the

								lifetime of ENCHANT. It describes what kind of data will be collected, processed, and synthesised, and which methodology and standards will be applied during the data collection and handling processes. It elaborates the procedures for sharing and open access to the data, as well as for curation and preservation of the data. Furthermore, it defines the procedure that the exchange of data in ENCHANT will be in full compliance with EU and national legislation, as well as with the participating user partners' internal data protection strategies.
D1.7	Ethics requirement	1	NTNU	ORDP	public	31.03.2021	Submitted as planned	This document establishes the ethical foundation in guiding the project approach to research practices that conform to the European Commission's key ethical principles and codes of conduct in research. The Ethics Requirements document contains the requirements for procedures and criteria that will be used to identify/recruit research participants, procedures and criteria that will be used for collection, storage, and protection of personal data, and procedures and criteria for data transfer between the EU Member States and Non-EU countries.
D7.1	Exploitation strategy version 1	7	NSR	Report	public	31.03.2021	Submitted as planned	This report is an internal working document for ENCHANT outlining the various dissemination, exploitation and communication activities planned for the project, as well as coordinating and linking efforts in an encompassing strategy across partners and WPs. To reach ENCHANT's objectives, and collect data informing our research questions, dissemination, exploitation and communication are core elements. The report serves as a strategic



								document to coordinate dissemination, exploitation and communication efforts internally in the project between partners, and externally to relevant audiences. The report is an internal working document for ENCHANT which outlines the different types of activities and initiatives, how they are linked to each other, to the ENCHANT objectives, and research questions.
D7.4	Dissemination strategy and activities version 1	7	NSR	Report	public	31.03.2021	Submitted as planned	See 7.1. (D7.1, D7.3, and D7.8 were integrated in one report)
D7.8	Communication strategy and activities version 1	7	VIKEN	Report	public	31.03.2021	Submitted as planned	See 7.1. (D7.1, D7.3, and D7.8 were integrated in one report)
D1.8	Progress report to EASME	1	NTNU	Report	public	30.06.2021	Submitted as planned	This document reports the progress in project implementation that has been made in between the project start 1 October 2020 and the end of Month 9 (30 June 2021). During this time six out of seven WPs were active with 18 tasks. Two of the tasks in WP2 have ended in the reporting period, all other tasks are still ongoing. Eight deliverables from WP1, WP2 and WP7 have been delivered on time and the first milestone has been reached as planned. This report presents the activities in the WPs and relates them to the project's objectives. Finally, the report presents an overview over the use of resources in the first 6 months of the project (after which the first internal reporting period had ended).
D4.1	Guidelines and Operational Intervention Plan	4	IUE	Report	public	30.06.2021	Submitted as planned	The overarching objective of the ENCHANT project is to stimulate a shift towards more sustainable energy behaviours in European households in general. Thus, the implementation of the interventions using the RCT (Randomized Control Trials) design is a crucial component of the ENCHANT



								<p>methodology. In order to achieve the desired objectives, the interventions should be appropriately designed, implemented, and monitored, in coordination with the involved partners. Also central to the success of the interventions is planning for the data requirements and data collection processes. This deliverable provides comprehensive guidelines and an operational plan for the ENCHANT interventions, covering the following three stages: intervention planning and design, intervention implementation, and analysis and reporting. In addition to the operational aspects, the guidelines and operational plan also specify the planning requirements pertaining to the supporting administrative structure, assignment of staff roles and responsibilities, and potential issues and barriers arising during implementation, with recommendations for overcoming these, and for dealing with ethical issues that need to be addressed.</p>
D5.1	KPI report	5	EI-JKU	Report	public	30.06.2021	Submitted as planned	<p>This report provides guidance on all data and information collection activities in ENCHANT and aims at providing quantitative and qualitative results regarding the impact of ENCHANT in WP2.</p>



In the first nine months of the project, the following meetings were scheduled in the project. Please refer to the following table for an overview. All meetings were held as planned.

Meetings	Lead organizer	Participants	Date	Place
<b>General Assemblies:</b>				
1st General Assembly	NTNU	All partners	21-23 Oct 2020	virtual
<b>Steering group meetings:</b>				
Virtual half year meeting	NTNU	Steering Committee	23 Oct 2020	virtual
Virtual half year meeting	NTNU	Steering Committee	21 Apr 2021	virtual
<b>Work meetings:</b>				
Monthly WP Leader meetings (virtual)	NTNU	WP leader group	every second Wednesday in a month	virtual
<b>Internal workshops:</b>				
WP2 workshops	ROMA3 & country partners	Meetings with all user partners and the scientific partners to define the possible interventions	Jan-May 2021	Virtual
WP4 workshops	IUE & country partners	Meetings with all user partners and the scientific partners to define procedures for the intervention implementation	May-Jun 2021	Virtual
WP5 workshops	EI-JKU	Meetings with all user partners and the scientific partners to define procedures for the impact evaluation	Apr-Jun 2021	Virtual
WP7 workshops	NSR	Workshop to develop the dissemination strategy	11 Des 2020	Virtual

## 5 Use of resources

The table below displays the planned use of PMs (numbers to the right) and the use of PMs in the first 6 months of the project. Please be aware that these numbers do not cover the whole period of the 9 months this progress report covers, but only the first six months as this is the project's internal reporting period.

	WP1	WP2	WP3	WP4	WP5	WP6	WP7	Total PMs
<b>NTNU</b>	<b>0.73/10</b>	<b>5.51/4</b>	<b>0.01/2</b>	<b>0.02/4</b>	<b>0/2</b>	<b>0/2</b>	<b>0.08/1</b>	<b>6.35/25</b>
<b>ROMA3</b>	<b>0.07/1</b>	<b>4.46/10</b>	<b>0.05/2</b>	<b>0/2</b>	<b>0.16/3</b>	<b>0/1</b>	<b>0.04/0.5</b>	<b>4.78/19.5</b>
<b>IUE</b>	<b>0.1/1</b>	<b>1.1/2</b>	<b>0.6/4</b>	<b>0/10</b>	<b>0/1</b>	<b>0/1</b>	<b>0.1/0.5</b>	<b>1.9/19.5</b>
<b>UBB</b>	<b>0.3/1</b>	<b>0.4/3</b>	<b>1.2/8</b>	<b>0/2</b>	<b>0/3</b>	<b>0/1</b>	<b>0/0.5</b>	<b>1.9/18.5</b>
<b>EI-JKU</b>	<b>0.22/1</b>	<b>0.54/2</b>	<b>0/2</b>	<b>0/2</b>	<b>1.12/11</b>	<b>0/1</b>	<b>0.05/0.5</b>	<b>1.93/19.5</b>
<b>SIN</b>	<b>0.3/1</b>	<b>0/0</b>	<b>0.2/2</b>	<b>0/1</b>	<b>0/1</b>	<b>0.6/10</b>	<b>0.1/0.5</b>	<b>1.2/15.5</b>
<b>NSR</b>	<b>0.6/1</b>	<b>0.2/1</b>	<b>0/1</b>	<b>0/2</b>	<b>0/1</b>	<b>0/1</b>	<b>3.3/8</b>	<b>4.1/15</b>
<b>IBB</b>	<b>0.1/0.5</b>	<b>0.6/1</b>	<b>0/0.5</b>	<b>0/1</b>	<b>0/1</b>	<b>0/0.5</b>	<b>0/0.5</b>	<b>0.7/5</b>
<b>GDZ</b>	<b>0.1/0.5</b>	<b>0.6/1</b>	<b>0.1/0.5</b>	<b>0/1</b>	<b>0/1</b>	<b>0/0.5</b>	<b>0.1/0.5</b>	<b>0.9/5</b>
<b>EKG</b>	<b>0.2/0.5</b>	<b>0.2/1</b>	<b>0/0.5</b>	<b>0/1</b>	<b>0/1</b>	<b>0/0.5</b>	<b>0.1/0.5</b>	<b>0.5/5</b>
<b>NNF</b>	<b>0.3/0.5</b>	<b>0.2/1</b>	<b>0/0.5</b>	<b>0/1</b>	<b>0/1</b>	<b>0/0.5</b>	<b>0/0.5</b>	<b>0.5/5</b>
<b>VIKEN</b>	<b>0.1/0.5</b>	<b>0.4/1</b>	<b>0/0.5</b>	<b>0/1</b>	<b>0/1</b>	<b>0/0.5</b>	<b>0.8/5</b>	<b>1.3/9.5</b>
<b>FONDA</b>	<b>0.4/0.5</b>	<b>0.3/1</b>	<b>0.2/0.5</b>	<b>0.1/1</b>	<b>0/1</b>	<b>0/0.5</b>	<b>0.1/0.5</b>	<b>1.1/5</b>
<b>ENPOS</b>	<b>0.3/0.5</b>	<b>0.2/1</b>	<b>0/0.5</b>	<b>0/1</b>	<b>0/1</b>	<b>0/0.5</b>	<b>0.1/0.5</b>	<b>0.6/5</b>
<b>EFSA</b>	<b>0/0.5</b>	<b>0/1</b>	<b>0/0.5</b>	<b>0/1</b>	<b>0/1</b>	<b>0/0.5</b>	<b>0/0.5</b>	<b>0/5</b>
<b>MCN</b>	<b>0.46/0.5</b>	<b>0.1/1</b>	<b>0.03/0.5</b>	<b>0/1</b>	<b>0/1</b>	<b>0/0.5</b>	<b>0.31/0.5</b>	<b>0.9/5</b>
<b>ACSD</b>	<b>0.19/0.5</b>	<b>0.84/1</b>	<b>0.29/0.5</b>	<b>0/1</b>	<b>0/1</b>	<b>0/0.5</b>	<b>0/0.5</b>	<b>1.32/5</b>
<b>BDNV</b>	<b>1.0/2</b>	<b>0.9/2</b>	<b>1.1/2</b>	<b>0.7/2</b>	<b>0/1</b>	<b>0/2</b>	<b>0.1/2</b>	<b>3.8/13</b>
<b>Total PMs</b>	<b>5.5/23</b>	<b>16.5/34</b>	<b>3.8/28</b>	<b>0.8/35</b>	<b>1.3/33</b>	<b>0.6/24</b>	<b>5.3/23</b>	<b>33.8/200</b>

