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Deliverable 7.1:
D7.1.1: Communication and dissemination plan

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Dissemination Level		
PU	Public	
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

Abbreviations
This section contains the abbreviations used in this deliverable.

Abbreviation	***Definition***
PRB	Patient Representatives Board
SMSS	Self-Management Support System
DSS	Decision Support System
SME	Small and medium-sized enterprise
PRB	Patient Representatives Board

Change procedure and history
This section contains the procedures for modifying the deliverable and maintaining a history of the changes.

Version	***Date***	***Changes***	***From***	***Review***
0.1	*29-12-2016*	*-*	*TNO*	*General Assembly*
1.0	*31-01-2017*	*Pre- final version*	*TNO*	

Executive Summary
This document describes the initial dissemination strategy for POWER2DM. It discusses first the role of dissemination in Power2DM, covering important stakeholders for our project and purposes of dissemination activities. Second, it discusses the Communication and Dissemination Plan, which will be executed through the project. It covers the methods for dissemination per target group and purpose, aligned with project activities and milestones. Specific dissemination activities per project work packages for the participation of patients, the POWER2DM key stakeholder group are presented. Finally, a template is proposed for reporting dissemination outcomes, during the project.

1. The role of Dissemination in Power2DM

The Power2DM project's main objective is to develop and validate a personalized self-management support system (SMSS) for T1 and T2 diabetes patients. A key factor in achieving this objective is making the results and deliverables available to the stakeholders and to the wider audience. The focal medium for this is the project's website (Figure 1). As stated by the EU, "Dissemination is essential for take-up, and take-up is crucial for the success of the project and for the sustainability of outputs in the long term." (European Commission, 2010).

The personalized self-management support system (SMSS) for Type-1 and Type-2 diabetes patients that combines and integrates: (i) a decision support system (DSS) based on interlinked predictive computer models; (ii) automated e-coaching and advice functionalities based on Behavioural Change Theories; and (iii) real-time personal data processing and interpretation. The DSS will be based on existing predictive models that were originally developed primarily for decision support to healthcare professionals, the T2D-Marvel medium/long-term prediction model for diabetes progression, and established long term diabetes-related risk scoring models for diabetes and its co-morbidities (described in the literature). The SMSS will provide automated personalized action (care) plans in terms of lifestyle changes and therapy adjustments for short-term optimal metabolic control as well as for medium/long-term prevention of deterioration and diabetes complications, building on the Action Plan. The SMSS will fully integrate subject-specific health behaviour change interventions to increase adherence of the patients to their personalized care management program. The predictions will be based on real-time personal data monitoring and tracking by integrating existing personal health systems and applications including mobile systems built around self-monitoring devices.

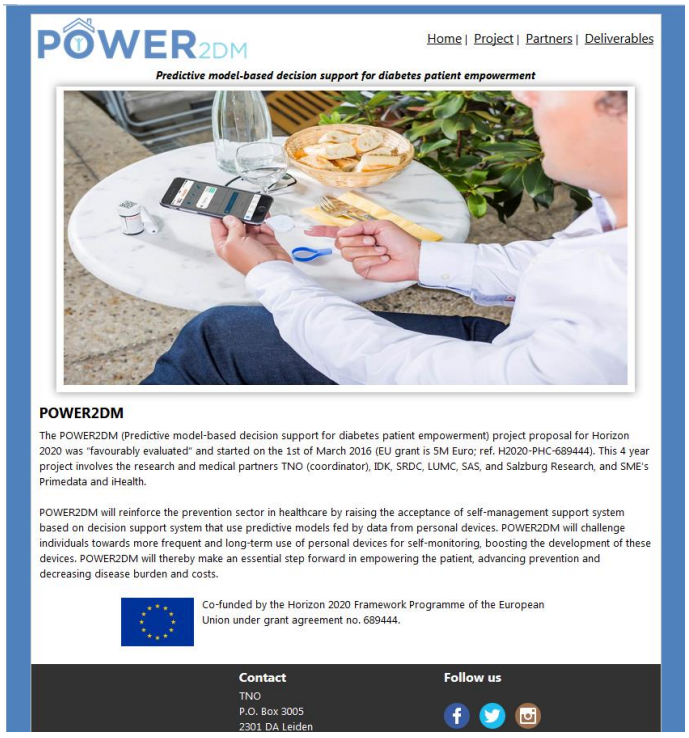

Figure 1: Power2DM project website, version Year 1, through http://www.power2dm.eu/

Important Power2DM project stakeholders include: T1 and T2 diabetes patients

- Their informal care givers (eg family)
- Health care professionals
- Policy makers
- Insurance companies
- Investors
- Small and medium-sized enterprises (SMEs)
- Large enterprises
- Scientific community

The purposes of our dissemination activities are:

- Specification of stakeholders and raise awareness – let others know what you are doing
- Inform – educate the community
- Engage – get input/feedback from the community
- Promote – 'sell' your outputs and results
- Make sustainable – ensure that the effects will be sustained after the project.

2. Communication and Dissemination Plan

Various dissemination activities are planned in the project, with varying purposes, including raising awareness, informing, engaging and promoting. These activities are aligned with the project activities (Figure 2), such as Requirement and design phase, and milestones.

In the first and second year of the project, mainly the 'Requirement and design' phase, focus will be on raining awareness amongst stakeholders on project background, objectives, and approach. Also, the first year deliverables will be disseminated. This will take place through administering brochures and flyers, organizing events, and attending conferences.

In the second and third year, amongst others the 'Software management & testing' and 'Integration' phases, focus will be on informing and engaging. For these phases, it is important that stakeholders receive concrete information on the project developments and become engaged in the project. That is to say, provide feedback on the project to ensure future successful implementation. Informing will take place through social media, including Facebook, Instagram, Twitter and LinkedIn, depending of the stakeholder (Facebook and Instagram more informal, LinkedIn more formal), project website (see Figure 1 and project deliverable D8.2, 01.04.2016), publishing in international magazine and journals, and brochures. Engaging, will take place through organizing and attending events, workshops, and lectures.

In the third and fourth year, amongst others the 'Finalizing' and 'Evaluation campaign' phases, focus will be on engaging and promoting. In these phases, it is important that stakeholders are further engaged in the project and that the achievements and demonstrators of the project are broadly disseminated. Engaging will take place through organizing and attending events, workshops, and lectures. Promoting will take place through project website, promotion video (including Power2DM YouTube channel) and flyers which project achievements (i.e., factsheet).

An overview of the dissemination activities is given in Table 1.

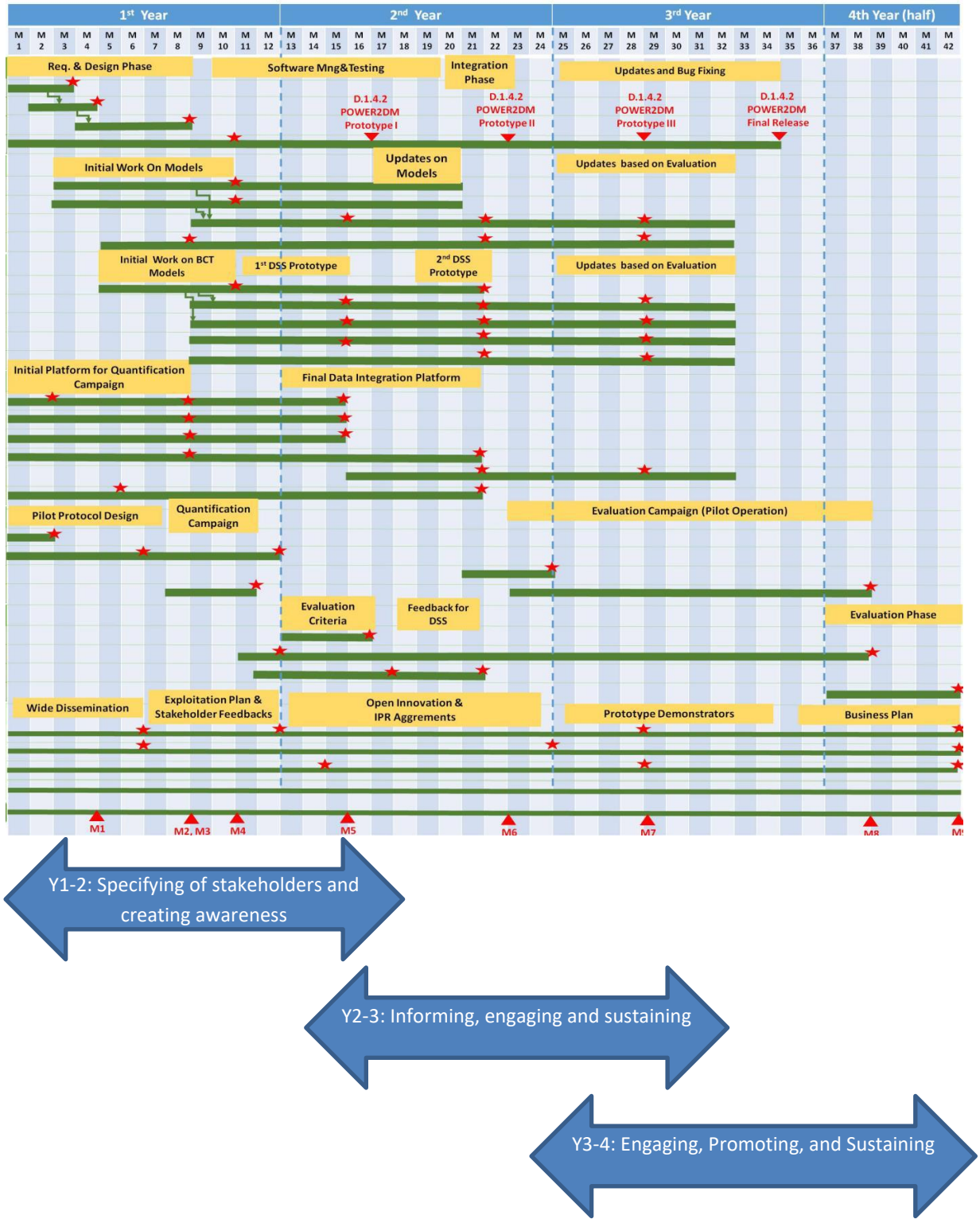

Figure 2: Overview of alignment of dissemination purposes (blue arrows) with project activities (yellow blocks) and milestones (red stars).

Table 1: Methods for dissemination, per target group and purpose.

	Purpose			
Target group	*Raise awareness*	*Inform*	*Engage and sustain*	*Promote and sustain*
Patient and informal care givers	1. Brochure, Events. Press release	2. Brochure 3. Social media: Facebook, Instagram	4. Patient workshop and surveys, events, Closing event	5. Promotion video and Prototype demonstrations
Professionals	6. Magazine publications, Press release, Opening event	7. Website, Social media: LinkedIn, Twitter	8. Workshops and surveys, Lectures, Closing event	9. Promotion video, Prototype demonstrations
Policy makers	10. Flyer, conferences	11. Website, Social media: LinkedIn, Twitter	12. Workshops, Lectures, Closing event	13. Flyer which project achievements (factsheet), Prototype demonstrations
Insurance companies	14. Flyer, conferences	15. Website, Social media: LinkedIn, Twitter	16. Workshops, Lectures, Closing event	17. Flyer which project achievements (factsheet), Prototype demonstrations
Investors	18. Flyer, conferences	19. Website, Social media: LinkedIn, Twitter	20. Workshops, Lectures, Closing event	21. Promotion video, Prototype demonstrations
SME & Large enterprises	22. Flyer, conferences	23. Website, Social media: LinkedIn, Twitter	24. Prototype demonstrations, Closing event	25. Flyer which project achievements (factsheet), Prototype demonstrations
Scientific community	26. Conferences	27. Journal publications, Website, Social media: LinkedIn, Twitter	28. Journal publications, Workshops, Lectures, Closing event	29. Promotion video, Prototype demonstrations

3. Patient participation POWER2DM

A key stakeholder group is formed by diabetes patients since they constitute the main user group targeted by the project. Therefore, special dissemination activities are planned to involve Type-1 and Type-2 diabetes patients in the development and validation of a personalize SMSS by soliciting their feedback on the process and outcomes.

Type-1 and Type-2 diabetes patients will participate at three levels in the project (see the Organization Structure of Power2DM, on p.63 of the project proposal):

1. Level of the executive board, in the form of a Patient Representatives Board (PRB)
2. Level of the work packages (WPs) 1-7 (details in Appendix) , in the form of patient panels,
3. Level of dissemination and communication, in the form of patient organizations and individuals

For an overview of patients' participatory activities and level of participation, see Table 2.

Table 2. Overview of patients' participatory activities and level of participation

Levels of patient participation	Patients' participatory activities			
	1st Year	**2nd Year**	**3rd Year**	**4th Year (half)**
Level 1: Executive Board	Annually: Consultation of a Patient Representatives Board (PR) (patients with diabetes and/or their families and carers; N=6))			
	Regularly: PR will be informed of the project progress, outside of any formal meetings			
	Regularly: PR will be asked to provide advice on patient experience and ethical issues that may arise, outside of any formal meetings			
Level 2: WP 1-7	Depending on the research activities in the different WPs (see Appendix: Flow charts 1-7)			
Level 3: Dissemination and communication	To get early feedback on the requirements and initial designs patient group workshops, conferences, open review questionnaires, and professional web forums will be used (M1-M8)	-To attract and to stimulate open innovation prototype demonstrations, dem. videos, publications, fairs, hackathons, and patient group workshops will be used (M9-M20) - To provide capabilities publications, and conferences will be used (M15-M20)	To attract customers, and build relationships fairs, exhibitions, demonstrations, publications, patient group workshops, conferences, workshops, and videos from pilot sites will be used (M21-M42)	- To attract customers, and build relationships fairs, exhibitions, demonstrations, publications, patient group workshops, conferences, workshops, and videos from pilot sites will be used (M21-M42) - To prove the benefit and attract customers publications, press releases, patient group workshops, leaflet and brochures, social media and a closing event will be used (M36-42)

4. Reporting

The outcomes of dissemination activities will be reported in two iterations of D7.1.2, using the template provided in Table 3. In the report, we will describe what activities have taken place and where, what was the main message, which project partner(s) performed the activities. Also, important responses and feedback of stakeholders and their implications for the project will be reported.

Table 3: Template for reporting of outcomes dissemination activities in in two iterations of D7.1.2, including fictional example.

What	**Where and when**	**Message – purposes**	**Partner(s)**	**Stakeholders' responses**	**Implications for project**
Workshop with patients and informal care givers	*Netherlands, event for Diabetes patients, Q4 2016*	*Introduction of Power2DM concept and first demonstrator – inform and engage*	*TNO, LUMC, iHealth*	*Positive about concept, a number of pointers for improvement usability and additional functionalities*	*Creation of usability check list and requirements list for core functions*

5. Conclusion

This deliverable reports on the communication and dissemination plan. Various dissemination activities planned in the Power2DM project are presented. Activities are selected based on purpose, target group and project structure. The outcomes of dissemination activities will be reported in two iterations of D7.1.2.

6. References

- DoW: POWER2DM project proposal
- EU projects Dissemination guidelines : http://ec.europa.eu/chafea/documents/management/fact_sheet/Factsheet_6_Elaborating_dissemination_plan_OVERVIEW_OF_DISSEMINATION_METHODS.pdf
- Role of Dissemination in EU projects: http://ec.europa.eu/chafea/management/Fact_sheet_2010_10.html

Appendix: Flowcharts – Overview of research (and participatory) activities per work package

POWER2DM – WP1

Flowchart 1. Overview of research (and participatory) activities in work package 1, Overall design and integration

Overall aim: (1) Definition of scenarios and storyboard to illustrate and facilitate discussion about the POWER2DM SMSS framework for the architecture and the design of the care process; (2) Definition of the scientific problem, analysing the scientific and technical requirements of POWER2DM architecture and its components; (3) Designing POWER2DM architecture and its components; (4) Realizing the POWER2DM system by integrating all of the components according to the design before the experimentation and piloting phase; (5) Assuring the quality and correctness of the software by continuous testing activities; and (5) Providing and managing software releases and prototypes

Tasks (End Month) and Executive Party	**Input**	**Aim**	**Design and Method**	**Participants**	**Outcome/results**	**Stakeholder Activities (from DoW)**
Task 1.1 User Requirements and Use Case Scenarios **(M3) TNO**	Theory/evidence/ project proposal (p. 19)	To define the functional user requirements for the POWER2DM SMSS	Creative FGI (??) using multiple scenarios and storyboards	Medical end user partners representing DM patients and their care givers	Insight into user requirements and initial design requirements	
Task 1.2 Requirements Specification of the POWER2DM Architecture **(M2-M4)** **SRDC, TNO, SRFG**	User requirements and initial design requirements (scenarios and storyboards; D.1.1.1)	To define the scientific problem and analyze the scientific and technical requirements of the architecture	Combination of desk research and participatory techniques	Medical end user partners representing DM patients and their care givers and relevant stakeholder	A Requirements Specification Document in accordance with well-established standards	- European Wide User Workshop (60 patients, 10 experts PCDE, FEND), 20 care providers) - Open Review Questionnaires - Professional Web Forums
Task 1.3 Conceptual design of the POWER2DM Architecture **(M4-M8)** **SRDC, TNO, SRFG**	Requirements Specification Document (D.1.2.1)	To define the principles of operation together with the accompanying process flow for each of the subsystems/components	In proposal: 'Use-Case Analysis, Architectural Design, Use-Case Design, Class and Subsystem Design phases'(p.52)	In proposal: 'Each partner will collaborate, and the task leader will provide necessary guidelines and templates to the partners' (p.52).	A Conceptual Design Document in accordance with well-established standards	-Webinar Milestone 1 (WP1, WP4) @ Month8
Task 1.4 Software Management, Integration and Testing **(M1-M34)**	Software components and subsystems from various work packages	To manage the development process of the various software components, integrate the developed components into one system and develop and execute a testing framework for	See 1.4.1., 1.4.2. en 1.4.3.	See 1.4.1., 1.4.2. en 1.4.3.	A prototype of the system	

SRDC, TNO, SRFG, PD, IDK, iHealth		testing the complete system.				
1.4.1. Software Test Plan for POWER2DM Infrastructure and its Components **(M10)**	See Task 1.4	To develop a testing framework	Combination of desk research and participatory techniques	Relevant stakeholders/technical partners	A testing framework	
1.4.2 Prototype and Integrated POWER2DM System Releases **(M 16, 22, 28, 34)**	See Task 1.4	-To test all subsystems and components, including all interfaces between various subsystems. -To subject the integrated system to extensive system testing by the performance of simulation tests. After the phase of systems testing, software bugs can be fixed and changes in the design can be made if necessary. - To fix software bugs and make changes in the design if necessary - To update prototypes of the system (four prototype releases are planned currently)	In proposal: -'Performance of simulation tests' (p.52) -'A roadmap of next releases is generated' (p.52) - Otherparticipatory techniques	In proposal: 'The further management and maintenance of the operational system is started and backups, version management and configuration management are organized according to international standards (ITIL etc.) In the meantime in other work packages the system is used and feedback is received from professionals and patients. This feedback is used as input for the update and release calendar.' (p52-53)	-Four prototype releases are planned currently -Complete instruction packages are created that are completely ready for implementation	- Webinar Milestone 5 (WP1-4) @ Month16 - Webinar Milestone 6 (WP1-4) @ Month22 - Webinar Milestone 7 (WP1-4) @ Month28 - Local Patient Workshops @ Month16 - Local Patient Workshops @ Month22 - Local Patient Workshops @ Month28 - Integrated Prototype Demonstrator version @ Month22
1.4.3 Test and Evaluation Report for POWER2DM Components and Integration **(M 15, 21, 27, 33)**	See Task 1.4	To report (periodically) on 'Software Management, Integration and Testing'	Combination of desk research and participatory techniques	NOT SPECIFIED IN PROPOSAL	Test and evaluation report(s)	

POWER2DM – WP2

Flowchart 2. Overview of research (and participatory) activities in work package 2, Predictive Framework

Overall aim: To develop innovative programs, modules, and tools for short-term and long-term risk detection and risk prevention in personalized diabetes care and management by supporting patients efficiently in diabetes home monitoring and diabetes home care with patient-centered, real time decision support systems (DSS) which can finally be implemented into mobile-phone-based self-management equipment

Tasks (End Month) and Executive Party	**Input**	**Aim**	**Design and Method**	**Participants**	**Outcome/results**	**Stakeholder Activities (from DoW)**
Task 2.1 Calibration of Short-term Predictive Model KADIS **(M3-M20) IDK, iHealth, LUMC**	Theory/evidence/project proposal (p. 21)	-To define inputs and outputs of a home monitoring tool for the model of a real time, patient-centered predictive DSS module (IDK, LUMC), -To develop a problem-related, personalized home monitoring module (IDK, iHealth), -To define a personalized risk stratification module (IDK), - To validate on that data quality from the pilot settings (IDK)	NOT SPECIFIED IN PROPOSAL	NOT SPECIFIED IN PROPOSAL	Short-Term Predictive Component	Webinar Milestone 3 @ Month10
Task 2.2 Calibration of Medium-to-Long-term Predictive Models: MT2D-Marvel and Risk Scores **(M3-M20) TNO, iHealth**	Theory/evidence/project proposal (p. 21)/Taks 2.1	-To define input/output of the M2TD-Marvel and Risk Scoring models for real time, patient-centered predictive DSS module (TNO) -To personalized home monitoring module based on self-monitoring data (TNO, iHealth) -To personalized risk stratification module (TNO) -To validate that data quality from the pilot settings meets standards to properly drive the MT2D-Marvel and Risk Scoring models for the intended functionalities in the POWER2DM SMSS (TNO)	NOT SPECIFIED IN PROPOSAL	NOT SPECIFIED IN PROPOSAL	Mid-and-Long-Term Predictive Component	
Task 2.3 Development of Prediction Services **(M9, M32) IDK, TNO, PD**	Theory/evidence/project proposal (p. 21)/Task 2.1 & Task 2.2	-To develop a personalized real time risk prediction service (IDK, iHealth), -To define and develop model-specific APIs for interaction with the other modules and external systems (TNO) -To implement interactions with the diabetes models (PD)	NOT SPECIFIED IN PROPOSAL	NOT SPECIFIED IN PROPOSAL	Power2DM Integrated Prediction Service & API	
Task 2.4 Visualization of predictions and simulations **(M5-M32) SRDC, IDK, PD, TNO, LUMC, SAS**	Theory/evidence/project proposal (p. 21)/Task 2.3	-To develop mockups for GUI Components -To develop web based GUI Components for Visualization of Predictions/Simulations -To develop mobile GUI Components for Visualization of Predictions/Simulations	In proposal: 'Trans-disciplinary HCI research for patient-centred visualizations, representations and interfaces' (p.53)	In proposal: 'Work will be carried out in close cooperation with the Patient Organizations to be involved in the project under guidance of the IDF.'(p.55).	-Mockups for GUI Components -Web based GUI Components for Visualization of Mobile GUI -Components for Visualization of Predictions/Simulations Predictions/Simulations	

POWER2DM – WP3

Flowchart 3. Overview of research (and participatory) activities in work package 3, Personalized DSS

Overall aim: To design and develop of a personalised decision support system

Task (End Month) and Executive Party	Input	Aim	Design and Method	Participants	Outcome/results	Stakeholder Activities (from DoW)
Task 3.1 Dynamic Behaviour Change Intervention Models for Self-Management **(M5-M21) SRFG, TNO, LUMC, SAS, IDK, SRDC**	User Requirements and Use Case Scenarios (Task 1.1)	To select a set of BCT functionalities for a range of patient profiles, for lifestyle and therapy and to develop the intervention models	In proposal: Different phenotypes of diabetic users (p.54)	NOT SPECIFIED IN PROPOSAL	Dynamic Behaviour Change Intervention Models for Self-Management	
Task 3.2 Recommender Engine **(M9-M32): SRDC, SRFG**	Task 3.1	To extend EMPOWER Recommender Engine to automatically create not only textual recommendations, but also create/adapt personalized recommended goals and action plans for the patient	technical development (?)	NOT SPECIFIED IN PROPOSAL	Recommender engine	- Open Innovation Event (Hackaton Contest) @ Month9
Task 3.3 Action Plan Engine **(M9-M32) SRFG, SRDC**	Task T3.2, Task 3.1; WP4, WP2	To enhance the existing EMPOWER Action Plan Engine by guidance-based goal and action plan specification	technical development (?)	NOT SPECIFIED IN PROPOSAL	Action Plan Engine	
Task 3.4 Web and Mobile User Interfaces for Behavioural Change Interventions **(M9-M32) SRDC, iHealth, SRFG**	Task 3.2, Task 3.1	To design a set of target-group specific HCI interfaces to enable patients and doctors to interact with the services	In proposal: 'The user interfaces will be made available as mock-ups in an early stage of the project for evaluation and feedback of prospective end-users.' (p.53)	In proposal: 'In close cooperation with the Patient Organizations under guidance of the IDF'	- Mockups for the Web/Mobile User Interfaces - Web-Based GUI Components for DSS Mobile GUI - Components for DSS	- Open Innovation Event (Hackaton Contest) @ Month16
Task 3.5 BCT modules knowledge content **(M9-M32) SAS, LUMC, IDK, SRFG**	Task 3.3	To implement static knowledge modules content (such as text, multimedia snippets), as well as define dynamic knowledge (e.g. rules and workflows)	NOT SPECIFIED IN PROPOSAL	In proposal: 'In close cooperation with the Patient Organizations under guidance of the IDF'	Behaviour Change Intervention Contents	

POWER2DM – WP4

Flowchart 4. Overview of research (and participatory) activities in work package 2, Personailzed Data Integration Platform

Overall aim: (1) Set specifications of all the data needed for the overall system according to data model defined in design phase; (2) Develop and deploy the data integration platform based on the requirements of pilot sites for both Quantification and Evaluation campaigns; (3) Implement functionalities in the different languages of the pilot studies; and (4) Integrate POWER2DM Services and GUI components to eHealth systems (e.g. PatientCoach) in Pilot Sites

Deliverable (End Month) and Executive Party	**Input**	**Aim**	**Design and Method**	**Participants**	**Outcome/results**	**Stakeholder Activities (from DoW)**
Task 4.1 Personal Data Store and Service for Data Access or Update **(M1-M15) SRDC, PD, TNO, IDK, iHealth**		Within the scope of this task, a full-blown set of data specifications of the system will be formulated. Based on the data requirements and description of data model, the personal data store service API will be defined (D4.1.1).	NOT SPECIFIED IN PROPOSAL	NOT SPECIFIED IN PROPOSAL	- Personal Data Model and Service API - Personal Data Store Service Implementation-	
Task 4.2 Integration of Sensor data **(M1-M15) TNO, iHealth, PD, SAS**	Task 4.1, WP5, WP6	-To define the state of the art in available and relevant quantified self-sensor equipment and make a choice of the sensors that will be used within this project. -To define, design and develop, based on the chosen sensor equipment, several API's for data extraction to the E-health platform	NOT SPECIFIED IN PROPOSAL	NOT SPECIFIED IN PROPOSAL	Sensor Integrators	
Task 4.3 Integration of data from EHR and external eHealth Systems **(M1-M15) SRDC, SAS, IDK, LUMC**	Task 4.1, Task 4.2	To integrate official national health records and personal health records	NOT SPECIFIED IN PROPOSAL	NOT SPECIFIED IN PROPOSAL	External EHR/PHR Integrators	
Task 4.4 Data Quality Analysis and Basic Data Processing **(M1-M21) PD, TNO**		To preform (1) data quality analysis and (2) basic data processing	- A first order review framework of data quality is established, and several quality checks and detections will be taking place - Basic data processing will take place in order to guarantee data quality of the available data via API's	NOT SPECIFIED IN PROPOSAL	Data Quality Analysis Framework Basic Data Processing Framework	Webinar Milestone 1 (WP1, WP4) @ Month8

Task 4.5 Implement e-Health system functionalities **(M16-M32) PD, LUMC, SAS**	Tasks 4.1 - 4.4	To establish data based E-health functionalities necessary for WPs 5 and 6	- the calculation and statistical models will be linked to the E-health system - the linkage/interaction with the Personalized DSS (WP3) will be implemented - the interface to the Predictive Framework (WP2) services will be established	NOT SPECIFIED IN PROPOSAL	Integrated eHealth Systems for Pilot sites	
Task 4.6 Privacy and Security Measures **(M6-M21) SRDC, PD**	WP2, WP3, WP4	To provide the required privacy and security tools/mechanisms, in order to protect the privacy and security of personal data while flowing among POWER2DM components and opening these services to third party applications	NOT SPECIFIED IN PROPOSAL	NOT SPECIFIED IN PROPOSAL	Privacy and Security Enablers for Power2DM Services	

POWER2DM – WP5

Flowchart 5. Power2DM Pilot Studies

Overall aim: The aim of POWER2DM test campaigns will be twofold. In the first half of the project they will be performed so as to ground the model with experimental data and quantify and fine-tune the developed WP2 computational models. In the second half of the project, evaluation campaigns will involve execution in the three challenging pilot sites and will serve both model optimization and validation purposes (WP6).

Deliverable (End Month) and Executive Party	**Input**	**Aim**	**Design and Method**	**Participants**	**Outcome/results**	**Stakeholder Activities (from DoW)**
Task 5.1 Specific Requirements of Pilot Applications **(M1, M2) IDK, SAS, LUMC, TNO, PD, iHealth**	WP3, WP4	To evaluated and implemented the specific general and local requirements needed for each pilot center	In proposal: - local PC-based security tasks in the different health centers to technical issues - specific integration of the PC-based and mobile-based systems with local pre-existing software (like Patient coach), and the creation of any additional needed modules for those centres in which POWER2DM is installed "de novo" (p.56-57)	In proposal: 'In close cooperation with the Patient Organizations to be involved in the project under guidance of the IDF' (p.56)	Specific Requirements of Pilot Sites	
T5.2 Pilot Design and Technical Preparations **(M1, M8) LUMC, SAS, IDK, TNO, SRDC, PD, SRFG, iHealth**	?	To define a proper test campaign strategy	In proposal: - The models will be grounded and calibrated with experimental data - feasibility studies and execution of a pragmatic randomised trial in three distributed clinical sites (p. 57)	In proposal: 'An "executive board" will be created including one member of each center, who will be responsible for dealing with the possible problems and serving as a reference for all clinical members when having any doubt during the development of the study (p. 57)	-Quantification of Campaign Methodology -Evaluation of Campaign Methodology	- Webinar Milestone 4 @ Month12 - User Training Workshops for Pilot participants (patients, healthcare professionals, 3 languages) @ Month6 (Quantification Campaign)
T5.3 Feasibility Studies **(M23, M24) SAS, IDK, LUMC**	WP1, WP2, WP3, WP4	To investigate and highlight any potential issues that may impede implementation of POWER2DM	In proposal: 'Patients initially will attend the clinic for a demonstration of the system, and allowed to trial setting it up and using it	In proposal: 'Patients'(p. 57)	Feasibility Studies Outcomes	- User Training Workshops for Pilot participants (patients, healthcare professionals, 3 languages) @ Month22

			independently, before trying it at home for a two week period. During this period they will use it as instructed, with open access to the researchers by telephone or email for feedback. Patients will be contacted after two and seven days of use, before returning the equipment at day 14. Then patients will undergo a one-to-one debriefing session with a researcher, in order to record the user-experience of the POWER2DM procedure, from the initial set-up meeting through to home use.'(p. 57)			
T5.4 Pilot Deployment and Operation **(M8-M11, M25-M38) SAS, IDK, LUMC, PD, SRFG, SRDC**	?	- To provide education for healthcare professionals and patients with theoretical sessions - To run the systems in test settings and provide helpdesk and backup: - To collect and evaluate user feedback - To provide system updates according to user needs	NOT SPECIFIED IN DETAIL	In proposal: 'Health care professionals, patients, docters, executive board' (p.57)	-Completion of Quantification Campaign -User Training Materials and Outcomes -Completion of Randomised Trial Campaign	- User Training Workshop for Pilot participants (patients, healthcare professionals, 3 languages) @ Month25 - Webinar Milestone 8 @ Month38

POWER2DM – WP6

Flowchart 6. Evaluation and validation

Overall aim: The aim of this work package is two-fold. First, it is aimed at evaluating the performance of the existing KADIS and MT2D-MARVEL prediction models and to assess to what extent POWER2DM applications can provide (additional) model inputs that are non-invasive, easy attainable and convenient for all patient. Second, this work package is focused on the evaluation and validation, including the clinical and socio-economic and organizational impact of the final POWER2DM mHealth & prediction based personalized health system.

Deliverable (End Month) and Executive Party	**Input**	**Aim**	**Design and Method**	**Participants**	**Outcome/results**	**Stakeholder Activities (from DoW)**
Task 6.1 Formulation of Evaluation Criteria and a Cost-effectiveness Model **(M12-M16) LUMC, SAS, IDK**	?	To formulate and construct a computer decision model for evaluation of long-term effects and costs	In proposal: 'The model will be constructed in dedicated software for decision analysis' (p. 58)	NOT SPECIFIED IN PROPOSAL	Description of the Decision Model	
T6.2 Data management and data preparation for analysis **(M11-M38) LUMC, TNO, IDK, SAS, PD**	?	- To combine the several data sources from the 3 study settings in Spain, Germany and The Netherlands - To prepare the combined dataset for the analysis in T6.3 and T6.4	NOT SPECIFIED IN PROPOSAL	NOT SPECIFIED IN PROPOSAL	-Description of the Quantification Campaign Dataset -Description of the Evaluation Campaign (RCT) Dataset	
T6.3 Analysis of small scale experiments and evaluations **(M12-M21) TNO, LUMC, IDK, SAS**	WP2, WP3, WP4	- To further calibrate the computational patient models and clinical state prediction framework - To analyse any potential issues that may impede implementation of the POWER2DM prototype in the real-world setting that is tested in the pragmatic trial	In proposal: 'Metabolic fingerprints' and 'pragmatic trial' (p. 58)	In proposal: Pilot data from ten patients at each clinical centre (i.e. 30 patients in total) and interviews will be used to assess the user experience with the POWER2DM prototype (p. 58)	Small-Scale Evaluation Reports	
T6.4 Evaluation of Users' Acceptance and Clinical and Socio-economic Impact **(M37-M42) LUMC, TNO, IDK, SAS**	?	To evaluate and validation the results in such a way that the results will be understandable to the stakeholders, including lay audience for which it is designed	'Typical validity approaches for new methodologies' and 'the extraction of the POWER2DM socio-economic and organizational impact based on the analysis of the results from the evaluation process' (p. 58)	NOT SPECIFIED IN PROPOSAL	Field Trials Report & Socio-Economic Guidelines	Webinar Milestone 9 @ Month42

POWER2DM – WP7

Flowchart 7. Exploitation and Dissemination

Overall aim: To disseminate key information on the project, associated activities and outcomes to an international audience

Deliverable (End Month) and Executive Party	Input	Aim	Design and Method	Participants	Outcome/results	Stakeholder Activities (from DoW)
T7.1 Dissemination and Communication Activities **(M1, M42) TNO, SAS, IDK, SRGF, LUMC, SRDC, iHealth, PD**	?	To develop a detailed dissemination strategy	- stakeholder mapping exercise - identification of main communication messages - development of a communication plan detailing the tools and channels to be used - production of a timetable for communication and dissemination activities	NOT SPECIFIED IN PROPOSAL	- Communication and Dissemination Plan - Report on Dissemination Activities	- Press releases, website, social media - Opening Event @ Month5? - Leaflet, brochures - Newsletter (4-monthly) - 3 different Prototype Demonstrations (Investors, Customers, End users) @ 6 events in Month24-34 - Closing Event
T7.2 Management of Innovation and Intellectual Property **(M1, M42) TNO, All partners**	T7.1	To stimulate the Power2DM project and consortium to develop innovative strategies, models, products and services, and to materialise these during the lifetime of the project	In proposal: 'Innovation management tools such as brainstorming, idea management, product lifecycle management and portfolio management will be utilized', 'an IP management database will be made available' and 'a Data Management Plan to determine which of the research data can and will be made open will be developed.' (p. 59)	NOT SPECIFIED IN PROPOSAL	- Open Research Data Management Plan - Intellectual Property Rights Agreement Report on Intellectual Property Management -Report	
T7.3 Exploitation Activities **(M1, M42) iHealth, TNO, PD, IDK, SRDC, All partners**	?	To form a basis for maintenance and further development of the outputs and to include measures to ensure that the benefits of the project will endure beyond the lifetime of the project	-Exploitation activities and plans, supported by realistic business cases, will be reported three times during this period -Exploitation activities will be defined and carried out in a close relation with the dissemination activities -The final business plan report will incorporate all results and recommendations from the	In proposal: -Each POWER2DM partner will prepare exploitation plans indicating what market and business opportunities will be favoured by the development of the new technologies POWER2DM - Project partners will consult with	- Exploitation Plan - Business Plan	

			evaluation and dissemination reports in addition to IPR rights agreements	representatives from other public authorities, regions and ecosystems, to extend the impact of the projects, circulate the knowledge and scale-up the solutions developed - A consortium agreement will fix the rules of knowledge sharing between academics partners and companies, regarding the IPR, rules of publications, commercial activities, spin-off or entrepreneurship (p.59)		
T7.4 Stakeholder Liaison **(M1, M42) TNO, IDK, SAS, SRDC**	?	To bring the innovations produced in POWER2DM in the European market	TNO Small Business Innovation Research (SBIR) programme named "Technology seeks Entrepreneur"	NOT SPECIFIED IN PROPOSAL	Report on Industry Liaison and Exploitation Activities	