**D1.2 Roadmap of the research team in SDWM: [month 7]**

Establishment of a roadmap for the UPB research team, aligned with the partners’ research agendas, in the areas of water management and supporting information and communication technologies;

**Content (Draft)**

**1. Introduction**

1.1. Short presentation of the project teams

* consortium consists of two leading research partners from the field of IT (FOKUS, UNIMIB) and one leading research partner from the field of water resources management (UNESCO-IHE).
* teams’ competences, previous work, etc.

1.2. SWOT(Strengths, Weaknesses, Opportunities and Threats)

It should highlight not only the strengthses and weaknesses but also the **reasons** behind them, especially those related to research management

Corelation with metrics used in the proposal (partially reproduced bellow)

R&D intensity

0.37% in 2000 0.58% in 2008 0.49% in 2012 2% target for 2020

Romanian National Strategy for 2014-2020, the National Strategy on Digital Agenda for Romania published on September 2014: **Action I**: “eGovernment, Interoperability, Cyber security, Cloud Computing, Open Data, Big Data and Social Media;

In terms of the overall **R&D intensity factor**, Romania ranks 27th in EU, Germany - rank 4, The Netherlands - rank 10, and Italy - rank 18.

The research group has good results in

-  Data processing, even for big data

-  Distributed systems

-  System integration

-  Heterogeneous systems

-  Cloud computing

-  Interoperability

-  Participation in interdisciplinary research projects

The weaknesses are in the field of

-  applying the research results in the market

-  participation as experts in research - academia – partnerships; and

-  making ourselves known in the European research landscape.

**2. Objectives and research strategy**

2.1. Objectives

O1 - Enhancement of the science and technology abilities of the participating institutions

O2 - Raise the staff’s research profile as well as the one of the institutions involved.

O3: Contribute to the overall Smart Specialisation Strategy

O4: Contribute to the development of a new, interdisciplinary research domain

2.2. Our Strategy

* based on a SWOT analysis of the UPB group’s research
* focus on research management actions aiming to enahnce the contribution in the field of smart data for water, and progress toward excellence
* constant and critical update of scientific knowledge to reflect the dynamicity of the interdisciplinary ICT and Water Resource Management  domain
* permanent networking for an efficient know-how transfer and collaboration between partners
* applying the research results in the market
* participation as experts in research - academia – partnerships
* dissminate research results and increase the visibility
* combines the enhancement of scientific competences with enhancement of organizational capability
* vision on long and short terms
	+ develop a Roadmap (for the future 5-7 years), for the UPB research team, aligned with the partners’ research agendas, in the areas of water management and supporting information and communication technologies;
	+ develop a detailed operational plan for the three years of the project

**3. Roadmap** – the chapter will expose the roadmap for the research activity. From the Roadmap, a detailed operational plan, for the duration of the project, will be extracted. (a possible partitioning is mentioned bellow).

Long term

* Develop a framework for implementing the scientific strategy
* Develop a Research Quality Assurance Systems, based on the key research indicators
* Create an e-Knowledge and Networking Environment - "Knowledge Lake", for the research field
* Establish the research directions to follow

Short term

* Organize an international workshop on Cyberinfrastructure for Resource Management and 3 project workshops;
* Organize 6 training sessions;
* Organize of 3 summer schools;
* Exchange researchers and PhD students;