

**P4SB - From Plastic waste to Plastic value using  
P*seudomonas* p*utida* Synthetic Biology**

## Deliverable D8.3

### Initial Data Management Plan

Dissemination			
Lead	Level	Type	Delivery Month
RWTH	<input checked="" type="checkbox"/> PU (Public) <input type="checkbox"/> CO (Confidential) <input type="checkbox"/> CI (Classified)	<input checked="" type="checkbox"/> R (Document, report) <input type="checkbox"/> DEM (Demonstrator, pilot, prototype) <input type="checkbox"/> DEC (Websites, patent fillings, videos etc.) <input type="checkbox"/> OTHER	M06

Grant Agreement:	633962
Project acronym:	P4SB
Project title:	P4SB - From Plastic waste to Plastic value using <i>Pseudomonas putida</i> Synthetic Biology
Start of the project:	01.04.2015 (48 months)
Work package:	WP8
Deliverable number:	D8.3
Title of deliverable:	Initial Data Management Plan
Deliverable due date:	01/10/2015
Date of submission:	01/10/2015
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Version:	1.0

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**VERSION CONTROL**

Version	Date	Author (Name, Institution)	Comments
1.0	30/09/15	Lars Blank (RWTH), Nick Wierckx (RWTH)	First draft

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## 1 P4SB data management plan

The data management plan will cover the exchange, storage, and use of data generated in P4SB. The data management plan will be developed throughout the project to accommodate the expected growing demand of data storage and sharing. The overall aim is to effectively communicate with partners inside of P4SB, with the scientific community, and with the general public.

This first version of the data management plan is based on an email survey to the academic groups.

### 1.1 General aspects

Effective coordination between the experimental, modelling, and analytics tasks is pivotal for the transfer of the project, and we will use existing data formats and standards wherever possible to benefit from and contribute to existing resources. Several partners were partner of SYSMO and are hence familiar with SysMO-DB ([www.sysmo-db.org](http://www.sysmo-db.org)). Explicitly, we will actively use and contribute to any data handling platform either generated during or recommended by the EU. Our immediate strategy for data handling and standardization is outlined below.

### 1.2 Data storage – repositories and standards

All data generated from funded activities in this project will be uploaded into standard public repositories, where available: genetic information including full genomes in genbank at NCBI. Microarray experiments will be submitted into ArrayExpress at EBI and/or Gene Expression Omnibus at NCBI. Both of these are MIAME-compliant (Minimal Information about a Microarray Experiment) repositories. This concerns both raw data and data interpretation. Protein and proteome data will be communicated via scientific publications. Chemical molecules identified from MS-experiments will be referenced by PubChem identifier, SMILES string or MOL-file format.

Pathway models and metabolic networks can be described in SBML format and offered to other researchers.

### 1.3 Internal communication

The project management tool EMDESK ([www.emdesk.com](http://www.emdesk.com)) is already implemented for exchange of data, allowing model verification and result dissemination between the partners.

The partners will use a common version-controlled file repository and project management software to monitor progress via a ticket-based system. Project partner RWTH is responsible for maintaining the repository and setting up user accounts. The system will be used both for internal discussion and documentation and outside presentation and publication of the project. The internal area is restricted and password-protected. In addition, an effective and simple communication platform is to facilitate the web services-based exchange of data between partners.

#### 1.4 Public outreach

The P4SB partners quickly established Facebook, LinkedIn, and Twitter accounts and keep them active by communicating general information of interest, relevant publications, news, and own contributions. In addition the dissemination of the results of the project to the scientific community is followed in the form of publications, press releases, and conference contributions. The partners set-up a webpage to enhance visibility, initiate communication, and start interactions and collaborations within the scientific community and the general public.