Delivery of sustainable supply of non-food biomass to support a "resource-efficient" Bioeconomy in Europe

S2Biom Project Grant Agreement n°608622

D4.3/ D4.4/D4.5/D4.6/D4.7/D4.8/D4.9

Final version of:

1) **D4.3: Fully populated database including all data accumulated in the project and used by the tools**
2) **D4.4: Data viewer, download and analysis tool for biomass cost-supply/**
3) **D4.5: Tool for viewing characteristics of technologies and matching biomass to pre-treatment and conversion technologies**
4) **D4.6: Tool for viewing market demand and policies for biomass for bioenergy and biobased products**
5) **D4.7/D4.8: Validated tools for optimal design and evaluation of biomass delivery chains and networks at Pan-European, national, regional and local scale (BeWhere & LocaGIStics)**
6) **D4.9: Comprehensive general user interface (GUI) that integrates the tools and S2BIOM database**

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About S2Biom project

The S2Biom project - Delivery of sustainable supply of non-food biomass to support a "resource-efficient" Bioeconomy in Europe - supports the sustainable delivery of non-food biomass feedstock at local, regional and pan European level through developing strategies, and roadmaps that will be informed by a "computerized and easy to use" toolset (and respective databases) with updated harmonized datasets at local, regional, national and pan European level for EU28, Western Balkans, Moldova, Turkey and Ukraine. Further information about the project and the partners involved are available under www.s2biom.eu.

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Executive summary

In this report an overview is given of the S2BIOM toolset data directories and the links to the following deliverables:

1) D4.3: Fully populated database including all data accumulated in the project and used by the tools

2) D4.4: Data viewer, download and analysis tool for biomass cost-supply/

3) D4.5: Tool for viewing characteristics of technologies and matching biomass to pre-treatment and conversion technologies

4) D4.6: Tool for viewing market demand and policies for biomass for bioenergy and biobased products

5) D4.7/D4.8: Validated tools for optimal design and evaluation of biomass delivery chains and networks at Pan-European, national, regional and local scale (BeWhere & LocaGIStics)

6) D4.9: Comprehensive general user interface (GUI) that integrates the tools and S2BIOM database

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1 Introduction

In this report a full overview is given of the Deliverables delivered as part of the files making up to full S2BIOM toolset. They consist of the following deliverables:

1) D4.3: Fully populated database including all data accumulated in the project and used by the tools

2) D4.4: Data viewer, download and analysis tool for biomass cost-supply/

3) D4.5: Tool for viewing characteristics of technologies and matching biomass to pre-treatment and conversion technologies

4) D4.6: Tool for viewing market demand and policies for biomass for bioenergy and biobased products

5) D4.7/D4.8: Validated tools for optimal design and evaluation of biomass delivery chains and networks at Pan-European, national, regional and local scale (BeWhere & LocaGIStics)

6) D4.9: Comprehensive general user interface (GUI) that integrates the tools and S2BIOM database

In the next Chapter an overview is given of the S2BIOM toolset directory structure, the files contained and the relationship with the different deliverables summarized above.

2 S2BIOM Toolset contents overview and link to deliverables

2.1 Overview S2BIOM toolset data directories

The database containing all data generated by the project to be integrated into the tool is designed with PostgreSQL and PostGIS. The application server runs on Apache Tomcat software. The CMS (Content Management System) runs on Liferay software. The mapping software in the tool to be used is GeoServer.

The complete toolset of S2BIOM is consists of the following directories and files:

1) S2BIOM data

content of directory (on data partition of SERVER):

.data: directory containing all data generated in the project that can be downloaded from the toolset at different places such as country datafiles all in excel fomat

.doc content of downloadable documents, also subdirectory with bewhere pdfs

.sld content of SLD (Geoserver Style files), this directory must exist on the system, but files may be deleted, since the application generates new versions upon request

.xls. Content of xls directory, contains locagistics simple sheets which are part of the LocaGIStics tool for design and evaluation of biomass delivery chains

2) S2BIOM database

This directory contains of a full dump of the database, the scripts for creating the database and the data templates that were used

They are located in the following directories:

Backup_Jan2017 Dump of postgis database

data_template Templates used for collection of data

database_scripts SQL scripts for creating a new database

3) S2BIOM server

It contains the configured tomcat directory with all s2biom portlets. The last version is /opt/liferay/s2biom directory, made on 13th Jan 2017.

2.2 Links between data files and deliverables of WP4

In the underneath table it is indicated to which deliverable the different files in the S2BIOM toolset data directories refer to.

Table 1: Explanation of deliverable links and S2BIOM toolset data files

Deliverable no.	Deliverable Title	Link S2BIOM toolset directory
D4.3	Fully populated database including all data accumulated in the project and used by the tools included in the Toolset	This deliverable is contained in the 1) S2BIOM data content directory and 3) S2BIOM database
D4.4	Final version of data viewer, download and analysis tool for biomass cost-supply	This deliverable is contained in the directories 2) S2BIOM database & 3) S2BIOM server
D4.5	Final version of tool for viewing characteristics of technologies and matching biomass to pre-treatment and conversion technologies	This deliverable is contained in the directories 2) S2BIOM database & 3) S2BIOM server
D4.6	Final Tool for viewing market demand and policies for biomass for bioenergy and biobased products	This deliverable is contained in the directories 1) S2BIOM data content directory and 3) S2BIOM server
D4.7	Validated tool for optimal design and evaluation of biomass delivery chains and networks at national and Pan-European scale (BeWhere)	The viewing tool for the BeWhere results is contained in the directories 1) S2BIOM data content of directory, 2) S2BIOM database and 3) S2BIOM server
D4.8	Validated tool for optimal design and evaluation of biomass delivery chains and networks at regional and local scale (LocaGIStics).	This deliverable is contained in the directories 1) S2BIOM data content directory, 2) S2BIOM database and 3) S2BIOM server
D4.9	Comprehensive general user interface (GUI) that integrates different existing and new tools and datasets developed in this project	This deliverable is contained in the directories 1) S2BIOM data content directory,2) S2BIOM database and 3) S2BIOM server.