ZERO BRINE

WP 6 Online Brine Platform – Application of the software for the case of the Netherlands

NTUA

The ZERO BRINE project (www.zerobrine.eu) has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 730390.

Online Brine Platform (OBP)

- The Online Brine Platform (OBP) aims at promoting the secondary raw materials flow, by linking the brine owners with the end-users.
- Online Brine Platform will play a key role in replicating the paradigms generated in the framework of the ZERO BRINE project.
- Via the OBP platform, the brine streams generated from process industries, can be mapped and also possible interactions for reuse and recycling of resources between the industries across the value chain can be identified.

Task 6.1 Development of Online Brine Platform tool (Lead Partner: NTUA)

Sub-task 6.1.1: Design and implementation of knowledge based support for user description

✓ **Completed**

- Literature review
- Knowledge model: Built by ontology engineering
- Symbiotic Brine Ontology: provides a common vocabulary and a shared understanding of the structure of information
- Ontologies are the backbone of the Online Brine Platform allowing its semantic enrichment

Sub-task 6.1.2: Design and implementation of analysis, feedback and interface tools (Lead Partner: NTUA)

Deliverable 6.2: Report on systems tools for analysis, feedback and interface

Sub-task 6.1.3 , Deliverable 6.3 & 6.4

Semantic web service platform (Del. 6.3)

Semantic web service portal (Del. 6.4)

The platform and the portal will be linked

Deliverable 6.1: Wastewater and solution provider knowledge models, correlations and interlinks → **submitted**

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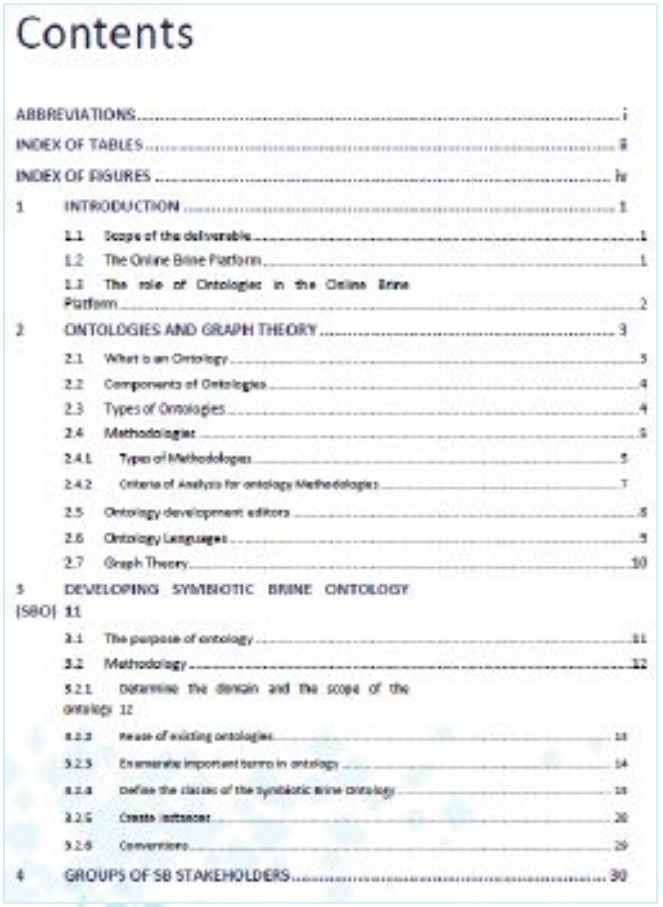
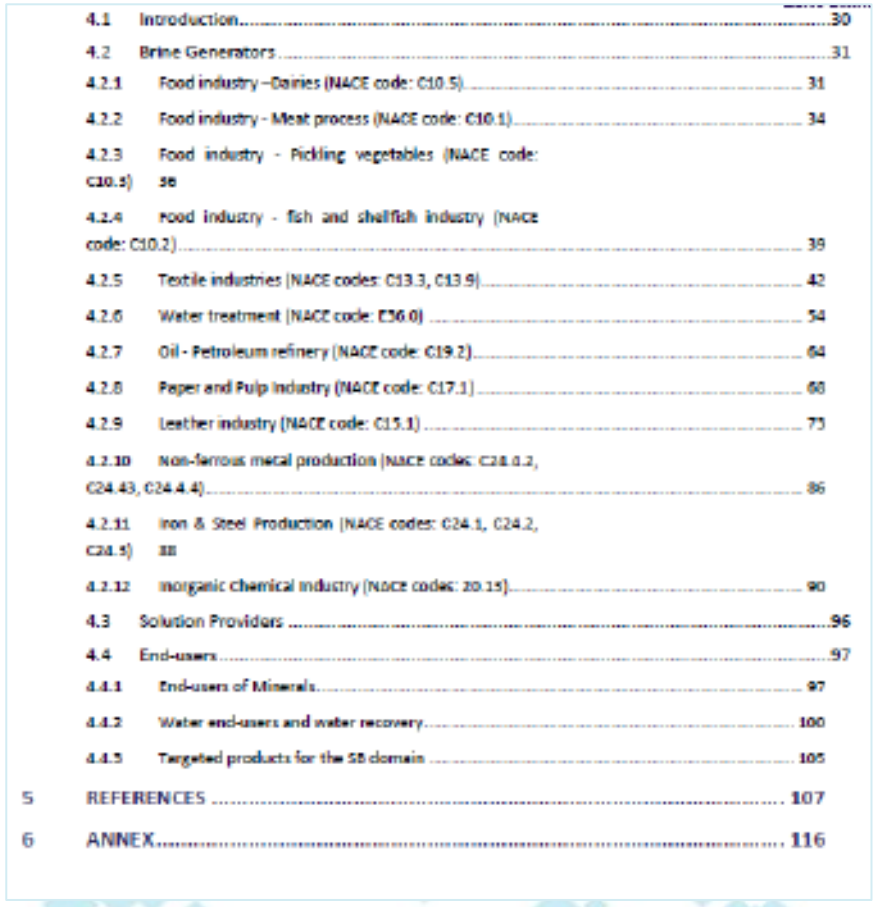
D6.1 Wastewater and solution provider knowledge models, correlations and interlinks

May 2018



Contents



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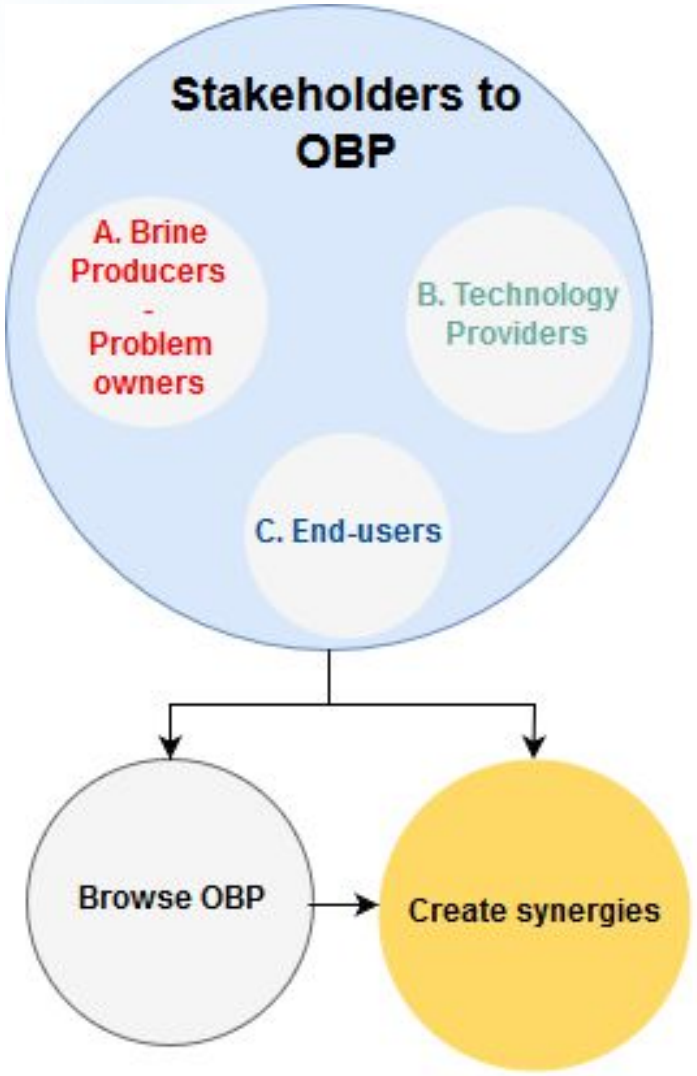
Online Brine Platform (OBP)

The OBP will be applied for the case of the Netherlands.

Semantic web service platform

- ✓ A network of the interested stakeholders will be created.
- ✓ Users registered to the platform will have the possibility to have access to information with respect to the available quantities of both wastewater and recovered materials, as well as, on the proximity of both suppliers and process industries to their location.
- ✓ Industries will be able to make informed decisions regarding the management of their own streams.



Online Brine Platform (OBP)

Semantic web service portal

Users will have the possibility to navigate through useful information such as:

- ✓ Brine streams generated by process industries
- ✓ Geographic Location of Brine Owners and End-Users of recovered materials
- ✓ Uses of recovered materials
- ✓ ZERO BRINE technologies
- ✓ Successful ZERO BRINE case studies

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Thank you for your attention

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