

AFTERLIFE

Deliverable D8.3 Leaflet on the Project

Project: Advanced Filtration TEchnologies for the Recovery and Later conversion of relevant Fractions from wastEwater — AFTERLIFE; Grant Agreement nr. 745737 - H2020-BBI-JTI-2016

AFTERLIFE

Deliverable reference number and title:

D8.3 – Leaflet on the Project

Due date of deliverable: 31-05-2018

Actual submission date: 30-05-2018

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Type

- R** Document, report ☒
- DEM** Demonstrator, pilot, prototype ☐
- DEC** Websites, patent fillings, videos, etc. ☐
- OTHER** ☐

Dissemination Level

- PU** Public ☐
- CO** Confidential, only for members of the consortium (including the Commission Services) ☐



Horizon 2020
European Union Funding
for Research & Innovation

AFTERLIFE has received funding from the Bio-Based Industries Joint Undertaking under the European Union's Horizon 2020 research and innovation program under grant agreement No. 745737.

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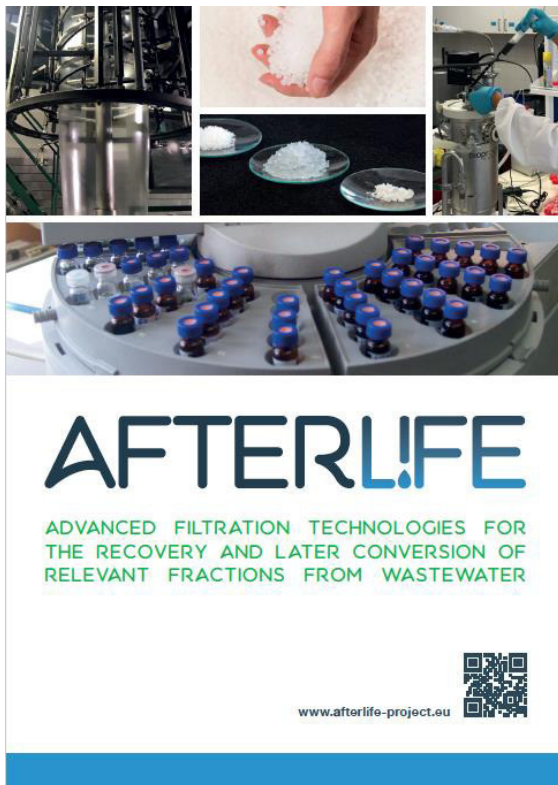
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1. Summary

The AFTERLIFE leaflet is a channel which allows a quick and broad distribution and exchange of information on the progress of the AFTERLIFE project to interested parties, stakeholders and the public. The AFTERLIFE leaflet is designed for the external communication as well as an internal platform for secure and effective communication within the project consortium. Ultimate care has been taken in designing this brochure to make sure that it can provide project identity.

The Afterlife leaflet is designed in such a way that it provides dissemination of information about the project to interested parties, stakeholders, the wider academic and industrial communities and the general public.

2. Structure



The structure of the brochure is designed as follows:

- Project Overview
- Concept
- Objectives
- Expected impacts
- Consortium of Resolve
- Contact

Front cover of the leaflet is designed with the Afterlife logo. A matching graphic and the full expansion of the project is shown in a white colour background. The project website and QR code for this website are shown at the end of the page in a white background.

AFTERLIFE

PROJECT SUMMARY

The AFTERLIFE project proposes a flexible, cost- and resource-efficient process for recovering and valorizing the relevant fractions from wastewater. It will represent an advance on existing approaches to wastewater treatment, which rely on physico-chemical and biological methods.

The AFTERLIFE process will separate out the different components of value using a series of membrane filtration units that will separate all the solids in the wastewater.

These will then be treated to re-use high-pure extracts and metabolites or, alternatively, to be converted into value-added biopolymers; polyhydroxyalkanoates.

In addition to the value extracted from the solids, the remaining outflow of the water will be ultrapure and ready for re-use.

PROJECT DETAILS



4
Duration (Years)



3,890,000
Max. grant amount



15
Partners



7
Countries

Project summary provides a short description about the project followed by the project details. A brief description about the **objectives** of the Afterlife project is shown in the next section. Where project budget, launch and the description about the consortium are briefly mentioned with symbols.

ADVANCED FILTRATION TECHNOLOGIES FOR THE RECOVERY AND LATER CONVERSION OF RELEVANT FRACTIONS FROM WASTEWATER

OBJECTIVES

The overarching objective of the AFTERLIFE project is to demonstrate, at TRL-5, an innovative waste-water treatment that simultaneously recovers compounds of interest while converting the remaining organic matter into a high-volume added value biopolymer. Specifically, it sets out to:

- Develop the filtration system for recovering suspended and soluble solids in wastewater by using membrane filtration units.
- Design and optimise the AFTERLIFE process from a holistic perspective following a Multidisciplinary Design Optimisation (MDO) approach.
- Develop the process for recovering and purifying valuable compounds in the concentrates extracted in the filtration step.
- Conduct a demonstration, at a pilot scale, using real industrial wastewater to generate the end products.
- Develop an anaerobic/aerobic process for converting the low value-added organic matter into PHAs.
- Prove the economic and industrial feasibility for AFTERLIFE process along with a comprehensive Lifecycle Analysis (LCA) and cost assessment.
- Optimise the resources in the process, following a circular economy approach.
- Promote exploitation of the project's results and expand its impact.



EXPECTED IMPACTS

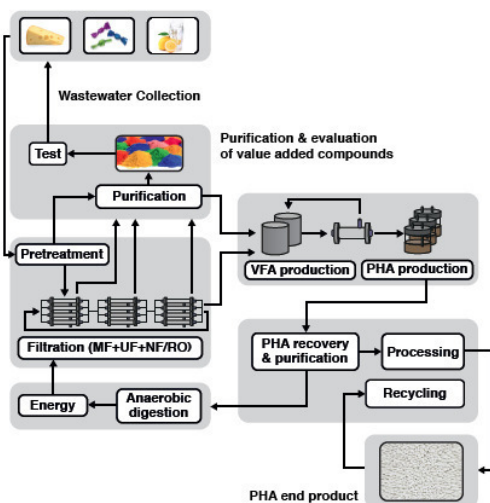
The AFTERLIFE project aims to deliver a substantial positive impact in the progress of wastewater treatment technologies and relevant fractions recovery. Specifically, it will:

- Validate that AFTERLIFE provides recovery rates that are comparable to, or better than, those of competing technologies.
- Successfully recycle or reuse at least 10 percent, in dry weight, of the suspended solid fractions.
- Create a new cross-sectorial interconnection in bio-based economy clusters.
- Create cooperation projects through cross-industry clusters.
- Set the foundations for at least one new bio-based value chain and one new bio-based material.
- Lead to 30 new consumer products by 2020.
- Attract broad participation from SMEs.

The **expected impacts** of the project are mentioned with bullet points and care has been taken to avoid complicated words so that external stakeholders can understand the full potential of the project.

THE PROCESS

The **process** diagram of the Afterlife project is also showing in the leaflet in order to provide an overview about the project process to the stakeholders. A simplified process model has been made to provide a clear picture of the process.



AFTERLIFE

AFTERLIFE is a European collaborative project framed on the Bio-based Industries (BBI) call. 16 partners from 7 European countries (Belgium, Germany, Finland, Croatia, Italy, Spain and Portugal) participate in this European 4 million € project.



   **Bio-based Industries Consortium**
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www.afterlife-project.eu



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At the end, all **consortium** partners are mentioned with their logos and the map of Europe with all partner countries in the consortium. In the last section, contact details of the project coordination and dissemination are mentioned. Moreover, the logos of the BBI and EU consortium are shown below the text.

All images in this brochure are provided by the consortium members and they are copyrighted to them.

3. Conclusion

As a part of dissemination and exploitation plan, the brochure was prepared and it will support an effective communication with the project and with external parties, such as the general public and stakeholders. This will be distributed in the conference, trade fairs and other meetings.



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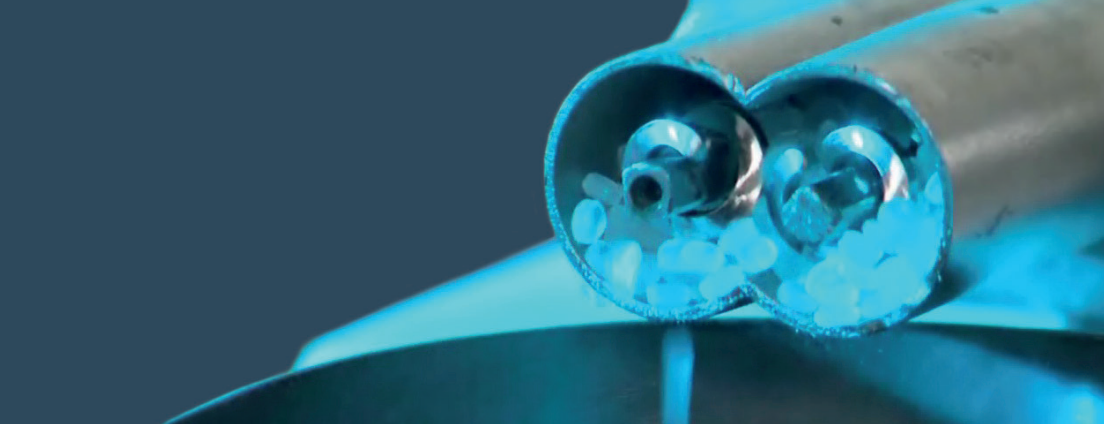
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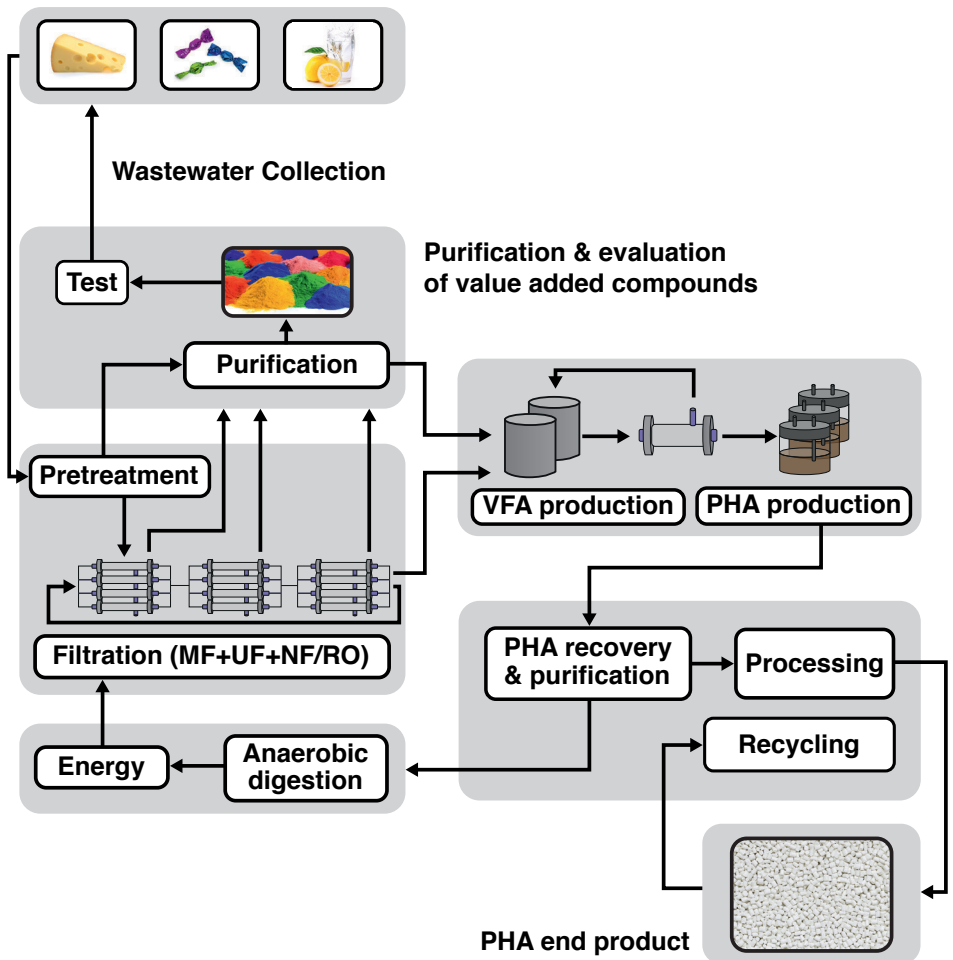


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