Target

INCOVER solutions can be applied in farms, industries or municipalities of up to approximately 100,000 Population-Equivalent.



Muncipalities

From wastewater and wastewater sludge to bio-methane, fertilizer and reclaimed water.

Agriculture

From agricultural wastewater, crop residues and manure to bio-methane, fertilizer and irrigation water.



Industries

From industrial wastewater, F&B waste or organic waste to bio-plastics, organic acids, activated coal/carbon black and reclaimed water.

The combination of all INCOVER technologies will provide complementary cost-efficient or alternative solutions to conventional wastewater treatment.





- Visit our website: www.incover-project.eu
- Twitter page: @INCOVERproject

Join us

LinkedIn group: INCOVER

Contact us : incover-project@oieau.fr

Partners

Coordination by AIMEN Technology Centre. Duration : June 2016 - May 2019













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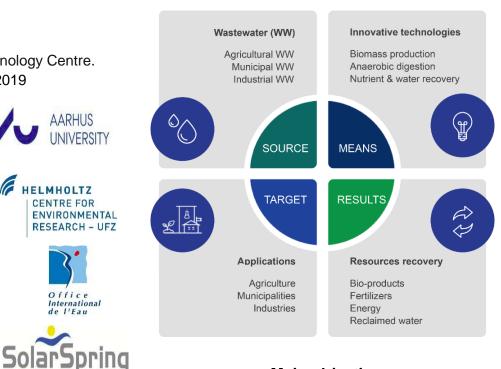
de l'Eau

International

UNIVERSITY



Taking into account the current global water scarcity and the high cost of wastewater treatment, INCOVER proposes a concept designed to transform wastewater from a waste stream into a source of new added-value bio-products, contributing to circular economy.



Main objective

Reduce the overall operation and maintenance costs of conventional wastewater treatment by 50% and alleviate water scarcity.

The project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 689242. The dissemination of results herein reflects only the author's view and the Commission is not responsible for any use that may be made of the information it contains



Means

The project develops **innovative and sustainable added-value technologies** for a resource recovery-based treatment of wastewater.

Three added-value wastewater treatment plants are operated, assessed and optimised with innovative monitoring techniques, to ensure bio-production efficiency.

These three case studies are implemented in Spain and Germany and **treat wastewater from municipalities, farms and food and beverage** (F&B) industries.

Results

Impacts

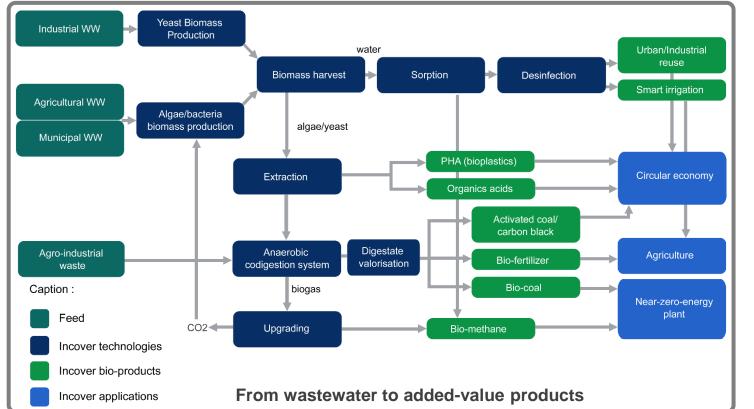
INCOVER added-value solutions will generate these valuable resources from wastewater :

- raw materials (bio-plastics, organic acids, etc.)
- energy (bio-methane)
- agricultural inputs (reclaimed water, fertilizer).

A Life Cycle Sustainability Assessment will be done, based on environmental, economic and social aspects. A Decision Support System will be developed based on this assessment. It will provide assistance to water authorities at choosing the optimal investments.



High Rate Algae pond systems in Chiclana wastewater treatment plant, operated by AQUALIA in Spain, for bio-plastics production,



Main impacts of INCOVER project :

50%) of wastewater managementReduction of GHG emissions up

Reduction of GHG emissions up to 80% using CO₂ sequestration processes

Reduction of energy demand (at least of



Resources recovery without increase in energy requirements



Provision of **cost-effective water reuse methodology** in countries facing water scarcity



Cost reduction of municipal and industrial wastewater management

Increased awareness on the benefits of reused water and bio-products