INCOVER

Innovative Eco-Technologies for Resource Recovery from Wastewater

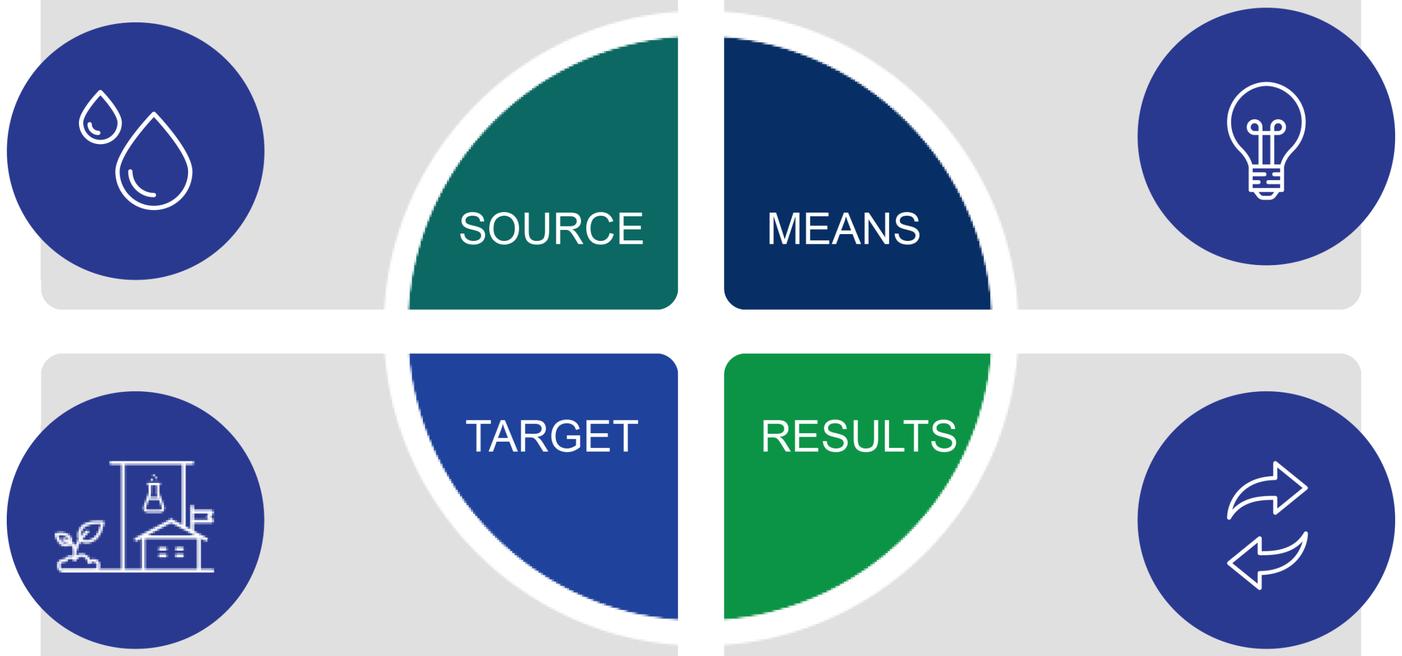
Taking into account the current global water scarcity and disproportionate costs of wastewater treatment, INCOVER concept has been designed **to transform wastewater from a waste stream** into a source of **new added-value bio-products** contributing to **circular economy.**

Wastewater (WW)

Agricultural WW
Municipal WW
Industrial WW

Innovative technologies

Biomass production
Anaerobic digestion
Nutrient & water recovery



Applications

Agriculture
Municipalities
Industries

Resources recovery

Bio-products
Fertilizers
Energy
Reclaimed water

MAIN OBJECTIVE

50% reduction of overall operation and maintenance cost of WW treatment

RECOVERY SOLUTIONS

Chemical recovery (bio-plastics and organic acids) via algae/bacteria and yeast biotechnology

Near-zero-energy plant providing upgraded bio-methane via pre-treatment, anaerobic co-digestion and upgrading systems

Bio-production and reclaimed water via adsorption, wetlands systems and hydrothermal carbonisation

CASE STUDIES

Municipal wastewater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At Universitat Politecnica de Catalunya (Spain)

Municipal and agricultural wastewater


© AQUALIA

At Chiclana and Almeria (Spain)

Industrial wastewater


© PUNCTUM/Bertram Kober

At UFZ - Helmoltz – Centre for environmental research (Germany)

- ✓ Innovative monitoring techniques via optical sensing and soft sensors
- ✓ A tailored Decision Support System for selecting the most technical, social and cost efficient solutions

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The project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 689242.
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