



Regional Process EUROPE

Session 3- Theme Urban and Development

Cities: Why Waste Water and Energy?



Project overview

Move towards resource recovery based
wastewater treatment plants
and promote the circular economy

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Training

Data & information

International cooperation
projects

Facilitating networks

Capacity building for better water management and
adaptation to climate change

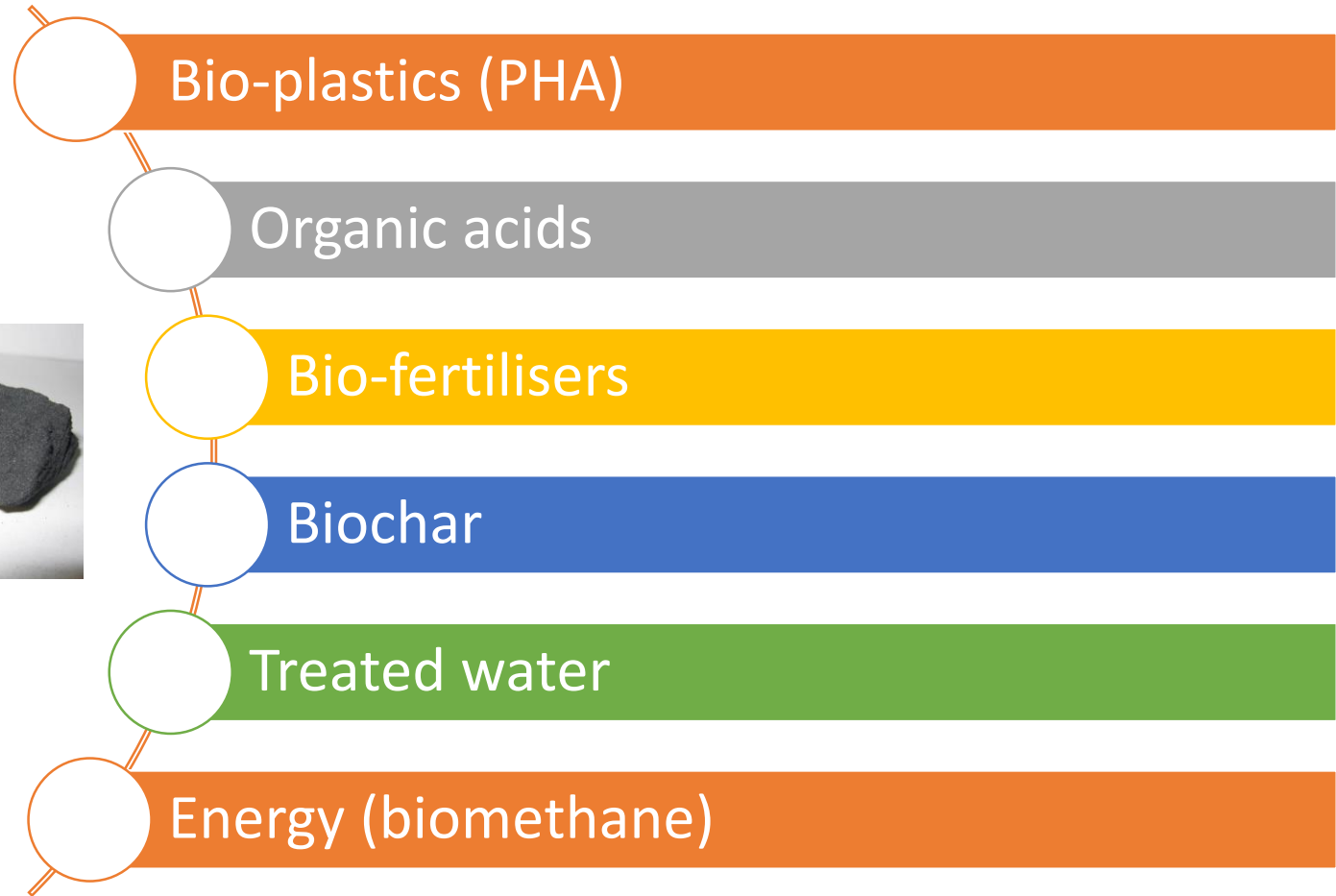
INCOVER Objectives

Main objectives: to reduce the overall operation and maintenance cost of wastewater treatment by at least 50%, through the use of wastewater as a source for energy and added-value production

- **Validate innovative technologies** through full-scale testing to obtain bio-products
- Develop **innovative monitoring techniques** (optical sensing and soft sensors)
- Assess their **cost-effectiveness** and **sustainability**
- Develop a tailored **Decision Support System** for selecting the most technical, social and cost efficient treatment solution
- Develop strategies to facilitate **a rapid market access**

- **Test innovative combination of technologies in order to reduce :**
 - Greenhouse gas emission
 - Energy consumption
 - Operating and maintenance costs

INCOVER by-products



INCOVER by-products : Reutilisation and Application (Examples of PHA & Biofertilizers)

- **PHA (bioplastic)** → Produced using bacteria/microalgae technology → Various applications of PHA as bioplastics for biopackaging : **currently used to produce bioplastics films for bags, containers and paper coatings, disposable articles, upholstery and other diverse packaging applications** (PHA produced within INCOVER will be non-food material packaging)
- **Biofertilizers** → obtained by sludge treatment wetland and Evaporative systems to obtain an agricultural bio-fertiliser → **The main market for biofertilizers is agriculture** (and also) re-supply the right amount of nutrients in soil to maintain optimal growth of crops

Case studies

Case study 1: Treating municipal and agricultural wastewater



- Universitat Politecnica de Catalunya (Spain)
- Lead by UPC

Case study 2: Treating agricultural wastewater




- Chiclana and Almeria AQUALIA facilities (Spain)
- Lead by AQUALIA

Case study 3: Treating industrial wastewater



- UFZ (Helmholtz – Centre for environmental research) location (Leipzig, Germany)
- Lead by UFZ

INCOVER project details

- 3-years project : June 2016 – May 2019
- Funding by EU H2020 (Topic: Water1b-2015); GA: 689242; 7.2 millions EU contribution (Total budget: 8.4 millions)
- Project coordinator  **aimen**
CENTRO TECNOLÓGICO
- 18 partners : IBET, Aqualia, Aarhus Universitet, HelmHoltz, UPC, ISLE, Solarspring, Simbiente,...

Visit our website www.incover-project.eu

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Thank you !



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8th
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Sharing Water

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MINISTRY OF THE
ENVIRONMENT



Support

