

Project **BIN2GRID**



ZCH / Bojan Ribić



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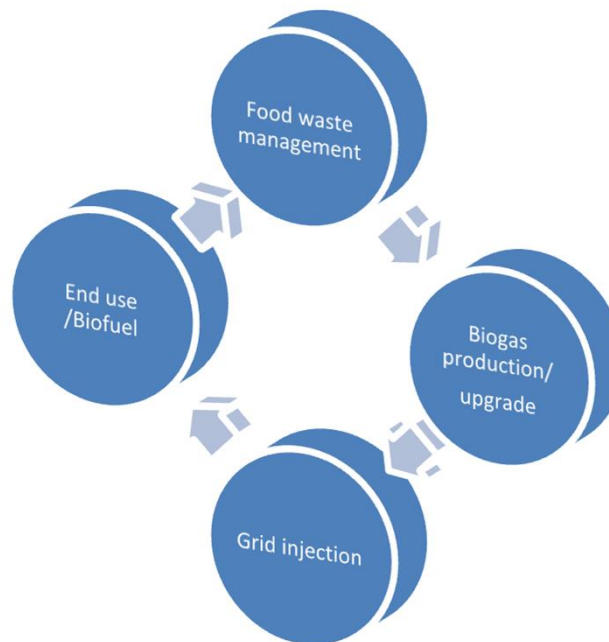
Project Bin2Grid



Turning unexploited food waste into biomethane supplied through local filling stations network

OBJECTIVE

- to promote **segregated collection of food waste** from specific and various waste producers (food and beverage industry, catering, residential) in order to **produce biofuel** (biomethane) and its usage through local filling stations network



Background

- on the EU average **40%** of biowaste is still landfilled¹

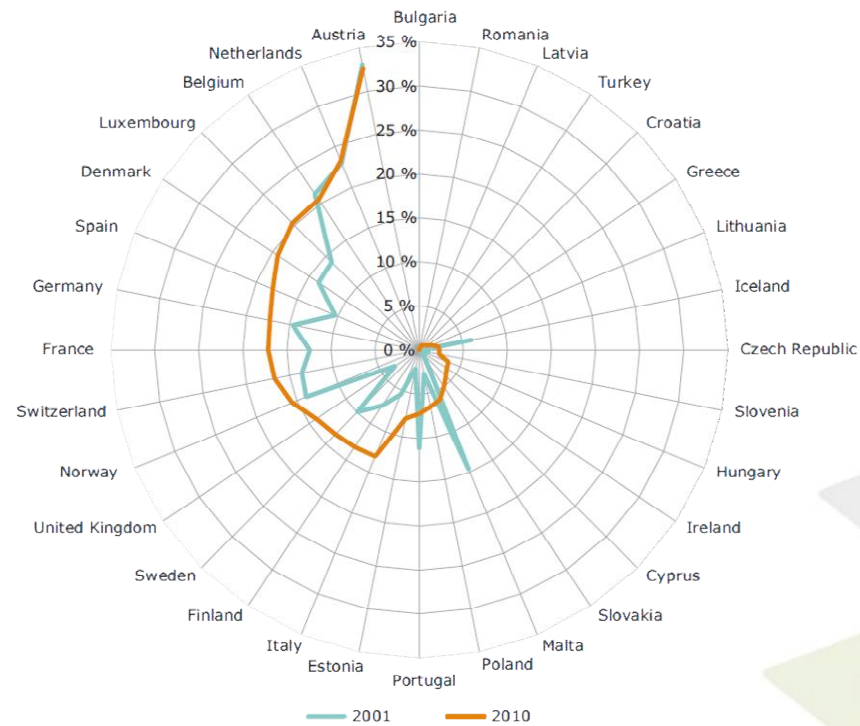


Figure 1. Biowaste recycling in EU (source: EEA Report, 2/2013)

¹ *Future steps in bio-waste management in EU, 2010*

Background

- in the EU alone, **90** millions tones of food waste is produced every year or around **180** kg per person

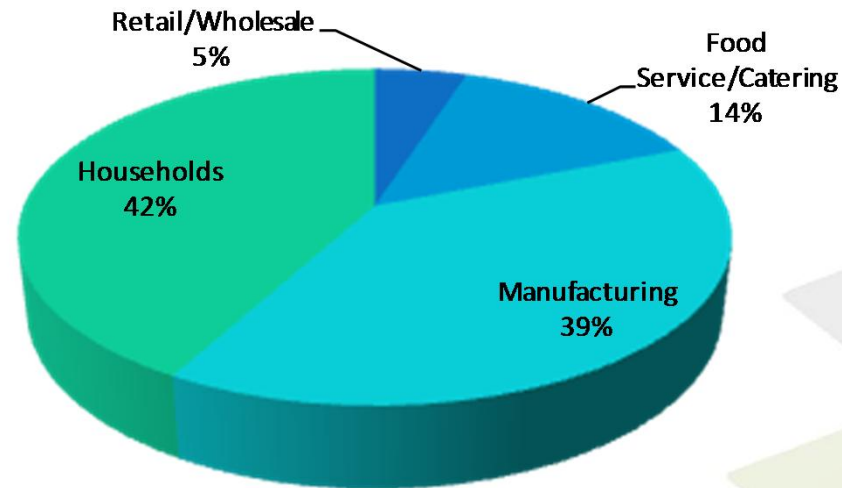


Figure 2. Percentage breakdown of EU27 food waste (2006 EUROSTAT data)

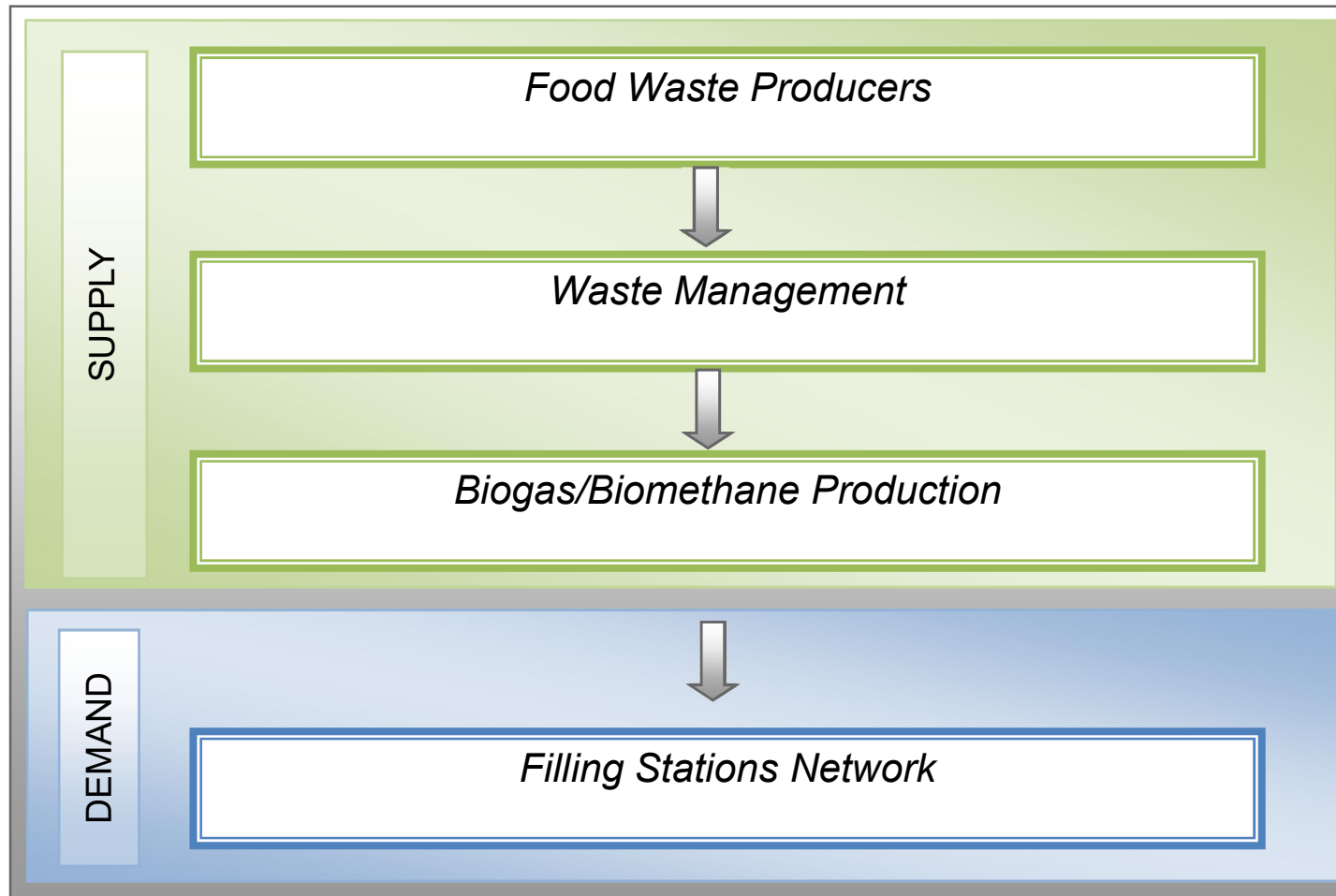
Background



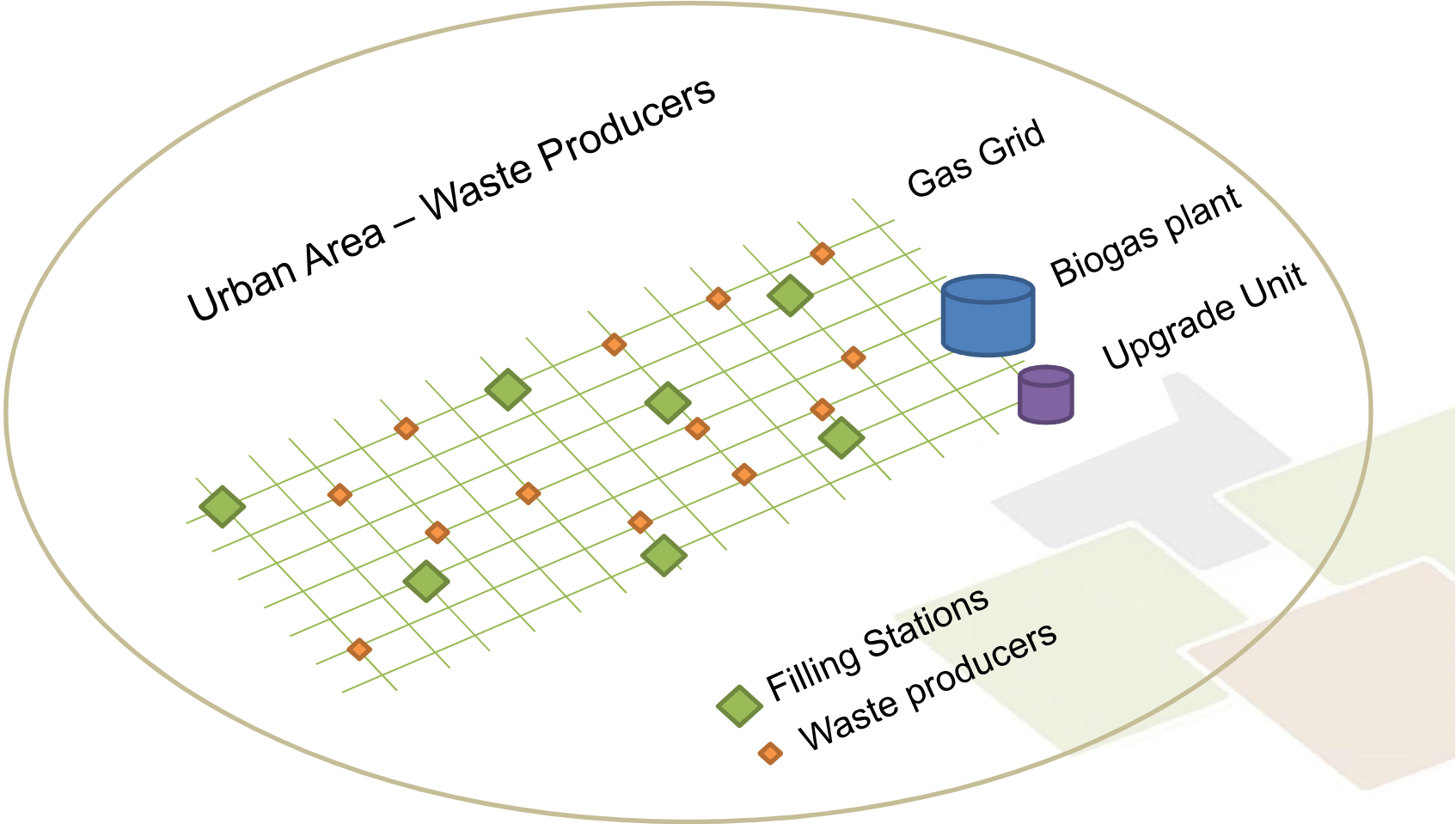
- one-third of the **2020** EU target for renewable energy in transport could be met by using biogas produced from biowaste
- around **2%** of the EU's overall renewable energy target could be met if all biowaste is turned into energy
- **10%** of renewables in transport fuels (*Directive 2009/28/EC*)
- average distance between refuelling points for CNG or compressed biomethane is approx. **150** km (*Directive 2014/94/EC* on the deployment of alternative fuel infrastructure)



Waste-to-Biofuel value chain



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Target Cities



Zagreb (Croatia)



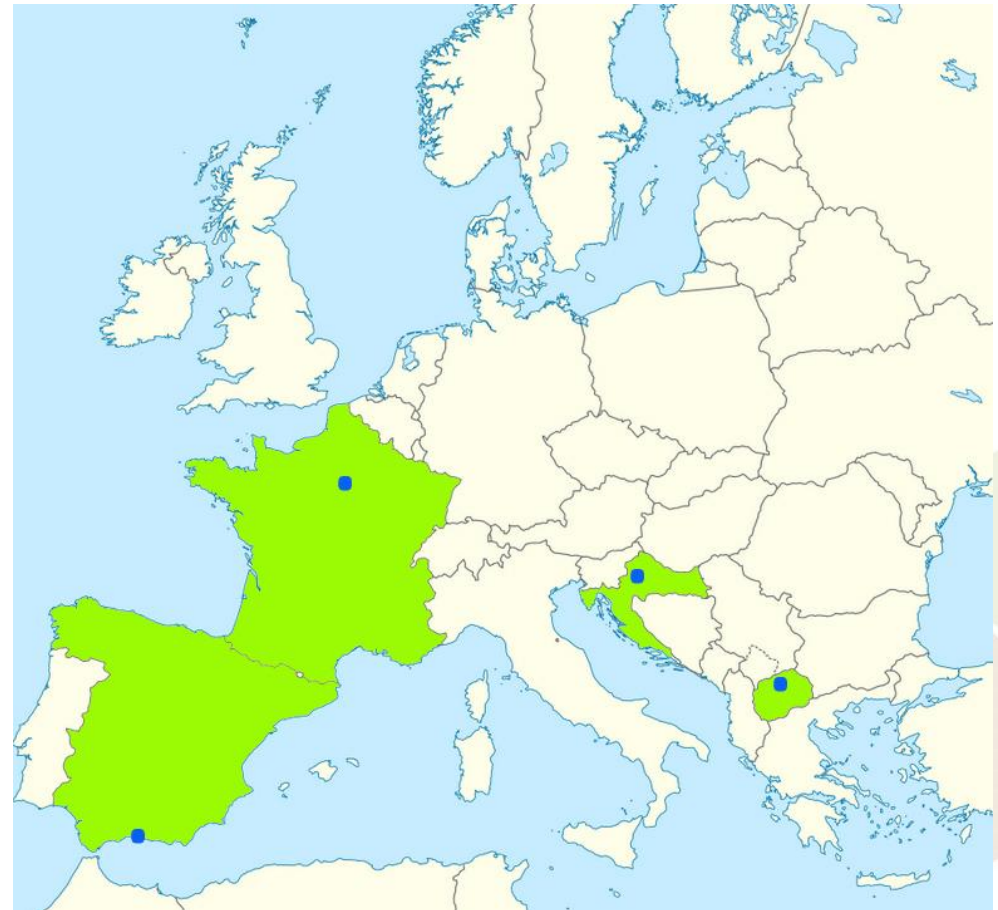
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City of Skopje, FYR Macedonia

IAT, Spain

ORDIF, France



Impact



EXPECTED IMPACT

- increase of the renewable energy production through sustainable management of food waste
- determination of energy potential from food and beverage waste
- promote technologies for environmental friendly food waste management and biofuel production

TARGET GROUPS

- governments and citizens of target cities
- food waste producers (industry, catering, households)
- biomethane end-users



Activities and Outcomes



MAIN OBJECTIVE

- **feasibility studies** on sustainable food waste management
- **prefeasibility studies** for biomethane production
- **case studies** on filling stations network

MAIN ACTIVITIES

- implementation of 4 promotional campaigns
- **24 FoodWaste Working group** meetings
- **4 training courses** on food and beverage waste management
- organization of **8 awareness campaigns**



Contact



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