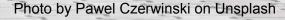
### **Research Project: David Pfeffer - Paris School of Economics**

FLORENCE SCHOOL OF

REGULATION

# **Cost Efficiency** and market structure in the EU Municipal **Solid Waste Sector**

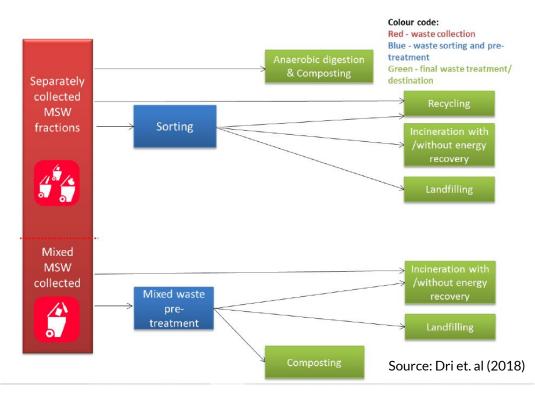


#### A model of MSW-flow

# Motivation:

- Different phases of
  MSW-management:
  Collection Preparation Treatment
- Within each phase: different services/techniques (Treatment: Recycling vs. Incineration vs. Landfilling) (different collection techniques)
- Different streams of waste: Variation in the prevalence of techniques/services across

streams



## A diverse and fragmented market:

At EU-level more than 45,000 waste operators in the market (treatment and collection)

These operators vary:

- in size (mostly SMEs)
- in the services offered (type of collection, type of treatment)
- in the streams managed

 $\rightarrow$  in their output and costs



## **Research Question:**

Tasks & Questions:

- 1) Estimate the costs of MSW-operators (operation and capital costs vs. collection and treatment costs)
- 2) Is there evidence for an optimal market structure?

#### Focus and potential insights:

- 1) Bundling vs. unbundling collection and treatment?
- 2) Bundling of several streams?
- 3) Economies of scales in **services or streams**?
- 4) Where to improve data collection?



## Data and level of analysis:

Required data:

- costs and outputs of MSW-operators at different phases of waste management
- costs and outputs of MSW-operators at different by different streams of waste managed

Level of Analysis:

- country case study:
  - use variation in operators within two-three selected EU member states
- municipality or firm level data



# Thank you for your attention!

Any questions, remarks or hints at potential data sources?

