



**URBAN  
WASTE**  
URBAN STRATEGIES FOR  
WASTE MANAGEMENT  
IN TOURIST CITIES

# Quantification and assessment of environmental benefits of waste management practices in tourism

Webinar, 2019-04-12

Gudrun Obersteiner, Sebastian Gollnow, Magdalena Wojtowicz



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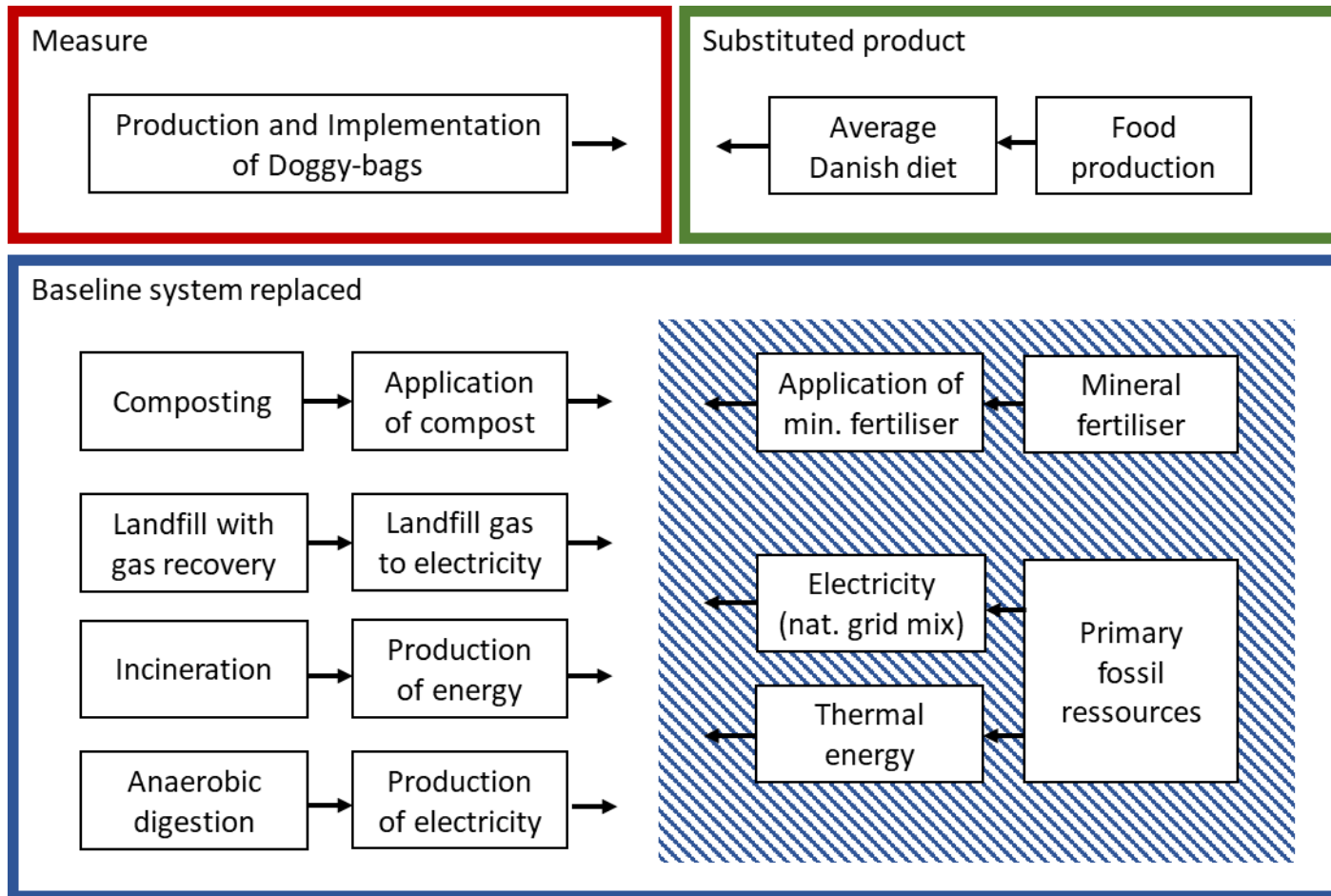
# Pilot Measures Overview

- Measures aimed specifically at the **prevention, reuse and recycling of organic waste** such as:
  - **Food waste** reduction through 'doggy bags', at buffets and restaurants, through food tracking device, food waste donation
  - Collection of bio-waste at hotels and restaurants
- Measures focused on the **prevention of disposable products (one way plastic)** used in hotels and tourist cities:
  - Substitution of disposable products (shampoo, spreads)
  - Promotion of tap water
- Measures aimed to increase separate collection and **recycling of waste**:
  - Collection points of used cooking oils
  - Waste sorting hotel rooms, Sorting bins in public and touristic places, cruise ships, foreign language
  - Recycling advisors for tourist establishments

# Pilot measure 1

## Food waste reduction through 'doggy bags'

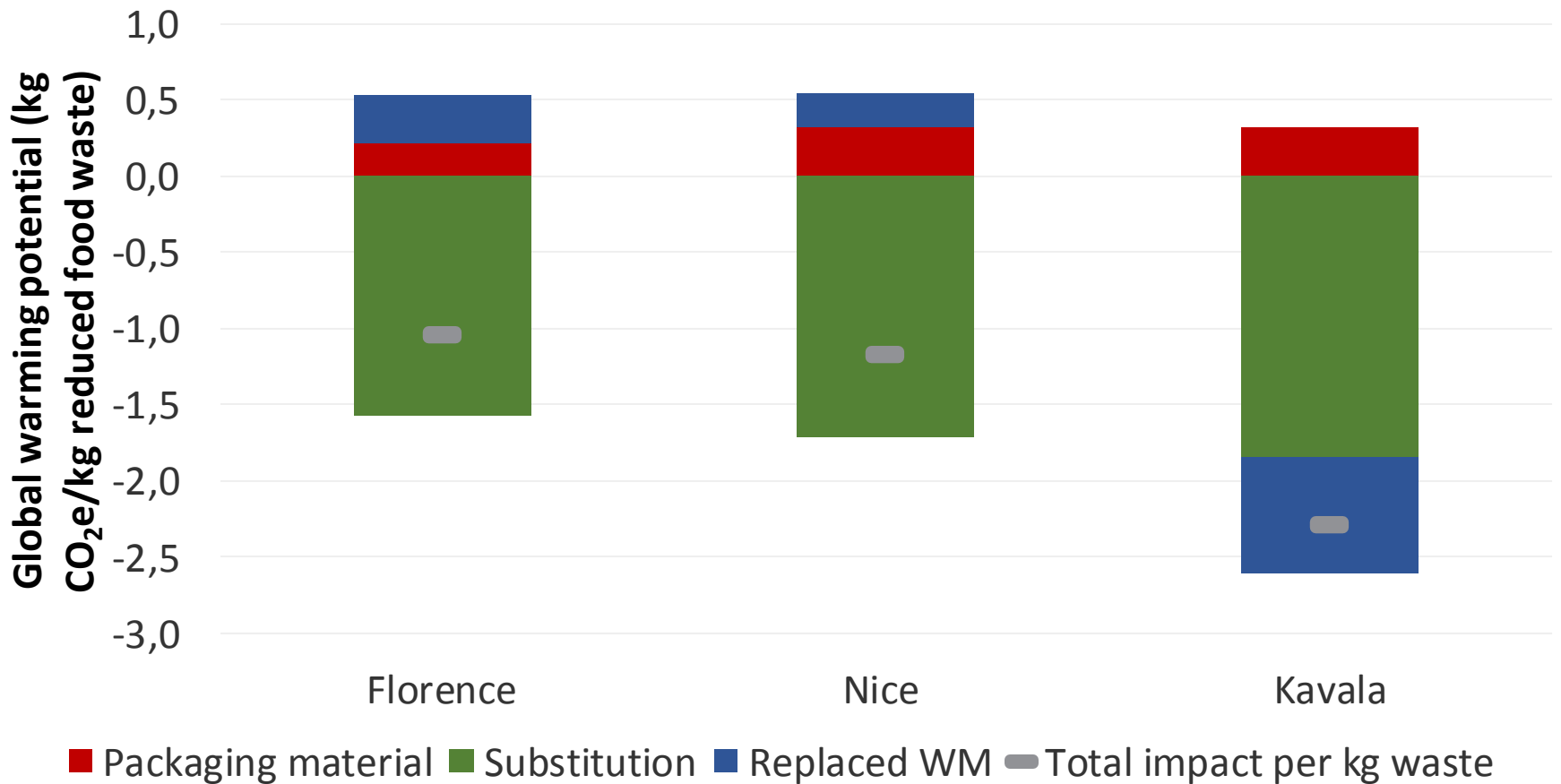
FU: 1 kg of food (plate) prevented from being wasted



# Results PM1

## Food waste reduction through 'doggy bags'

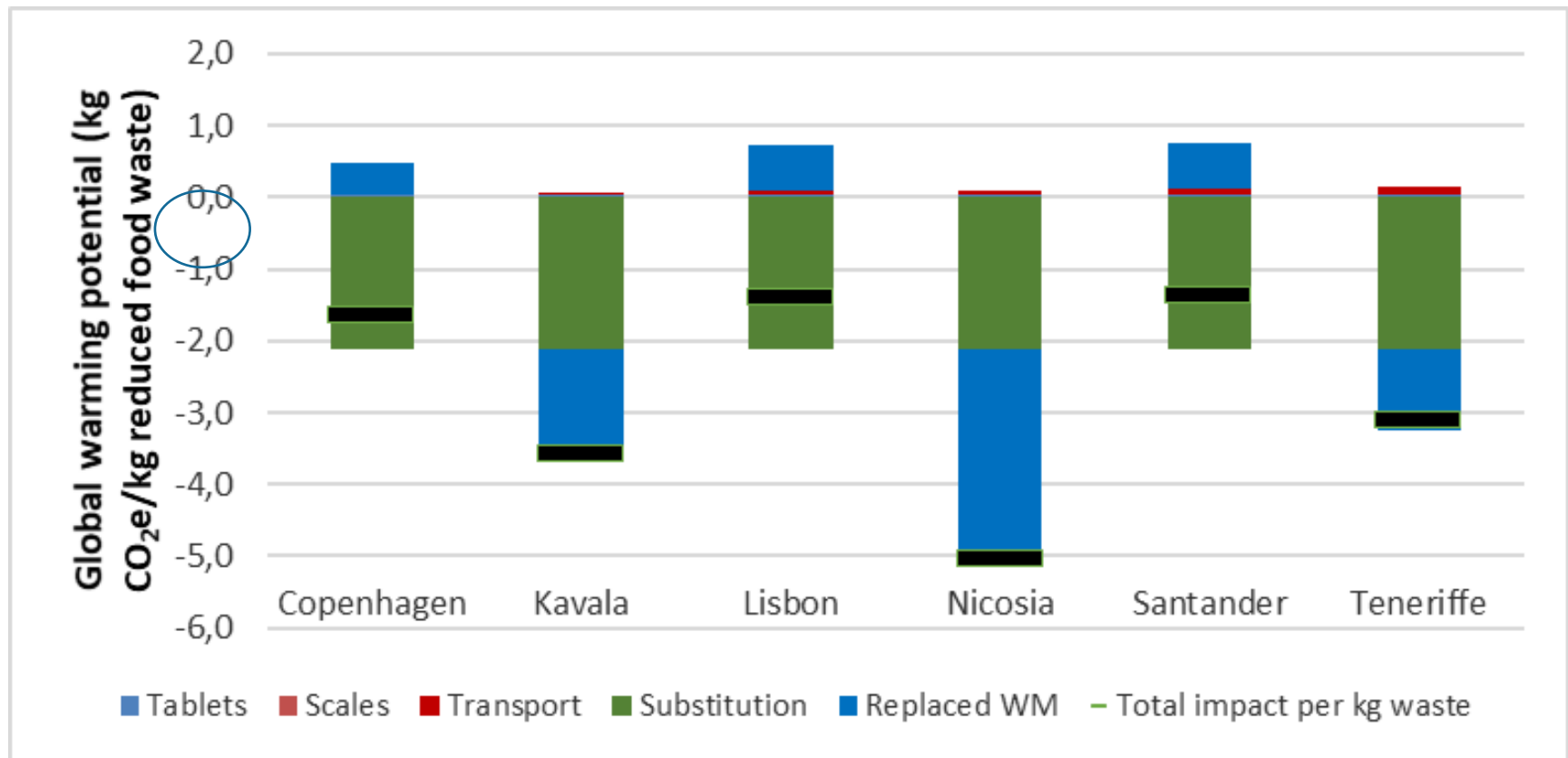
Saved CO<sub>2</sub>e/kg reduced food waste



# Result PM20

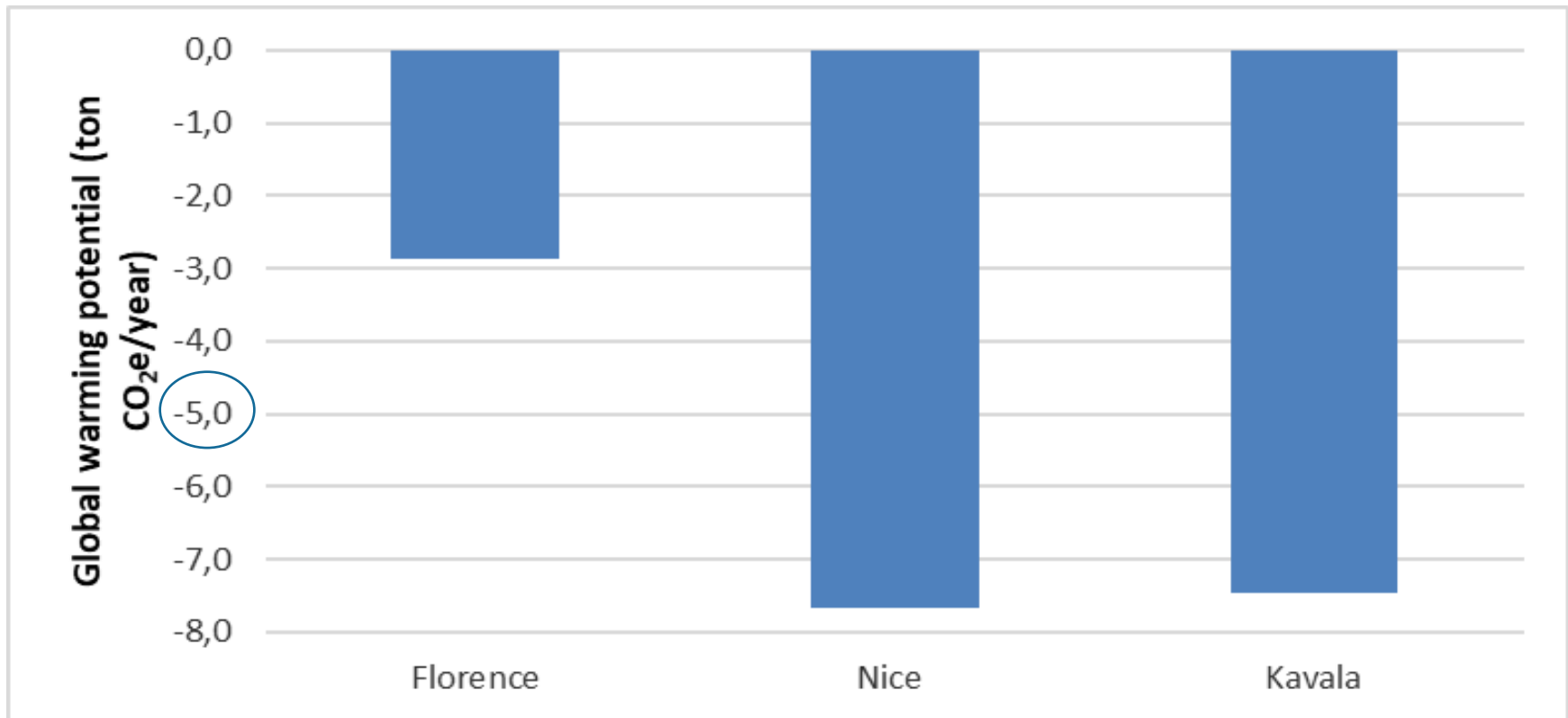
## Tracking food waste in restaurants

Saved CO<sub>2</sub>e/year: 181 t (Ten69, Lisb38, Nicos27, Sant23, Kav13, Cop11)



# Results PM1 Food waste reduction through 'doggy bags'

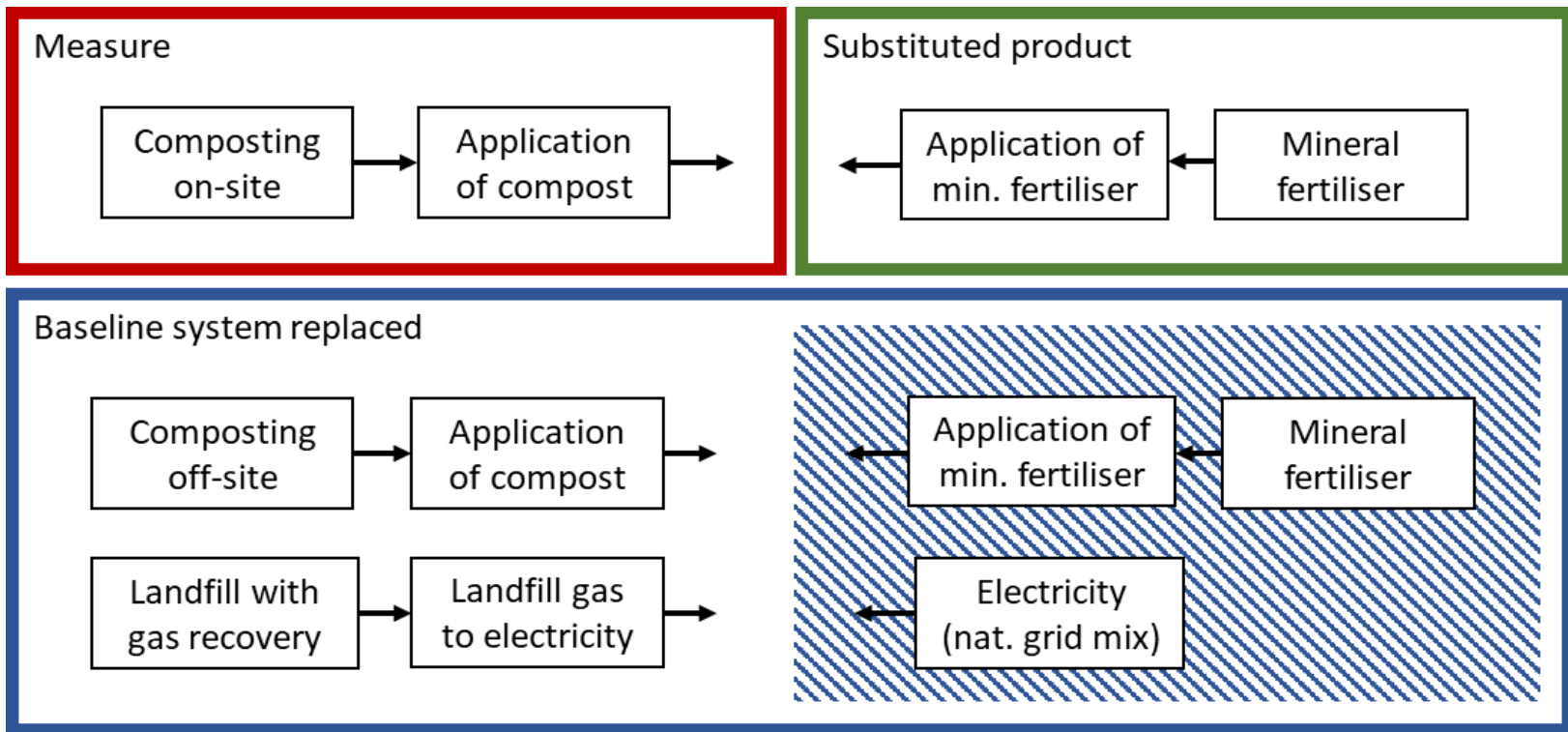
Saved CO<sub>2</sub>e/year: Nice 7.7 t, Kavala 7.5 t, Florence 2.9 t



# Pilot Measure 3

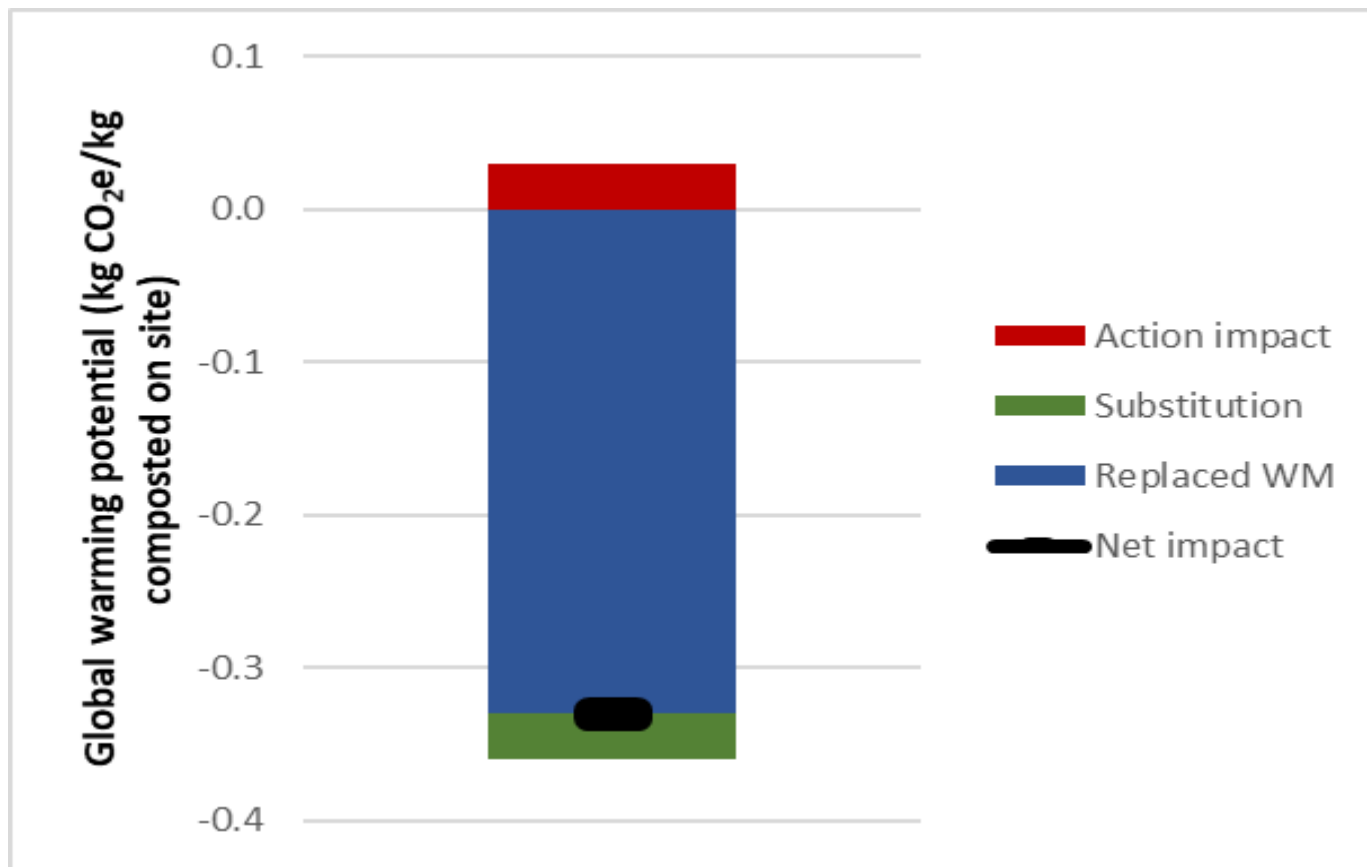
## On site composting in tourist establishments

FU: 1 kg of food waste composted



# Results PM3 on site composting in tourist establishments

Saved CO<sub>2</sub>e/year for all hotels: 526.5 t



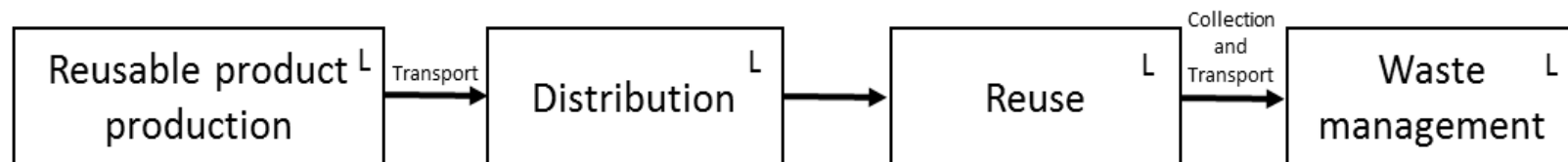


# Pilot Measure 7

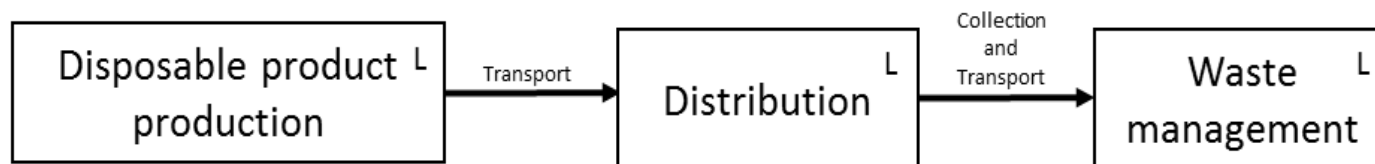
## Substitution of disposable products in hotels

FU: provision of soap and napkin for 1 guest and 1 year

Action



Baseline system replaced

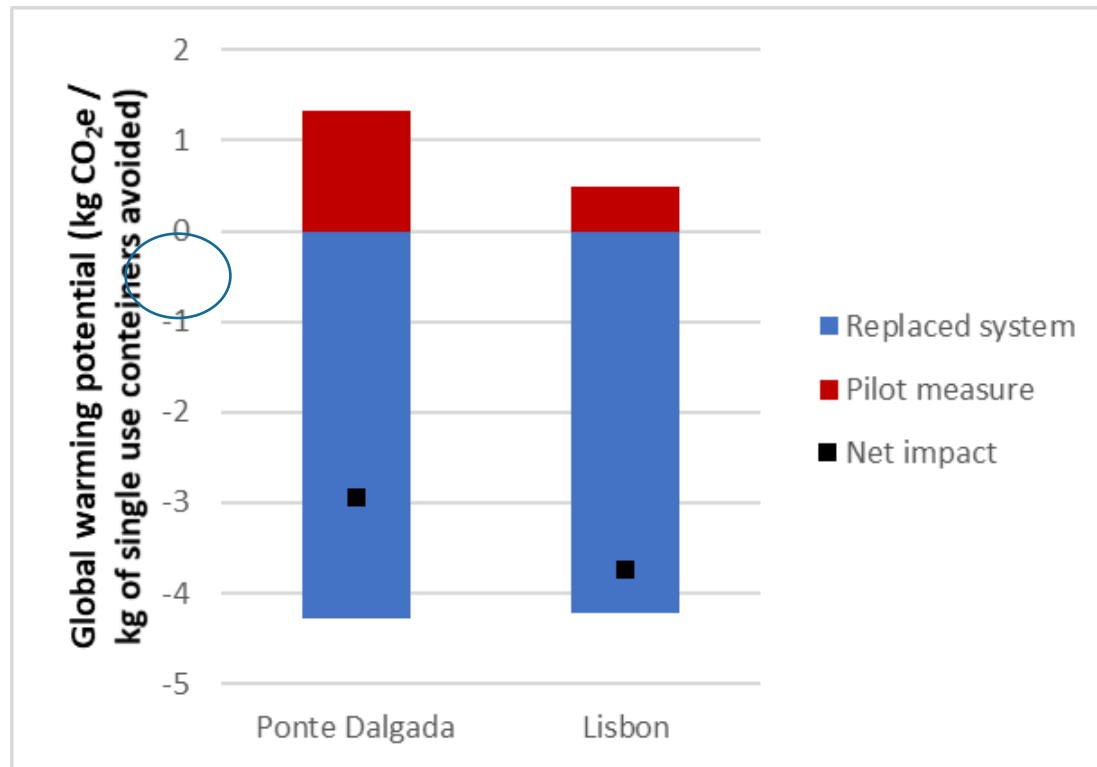


\* P=Primary data, L=Literature data, A=Documented assumption

# Result PM7

## Impact per reusable dispenser

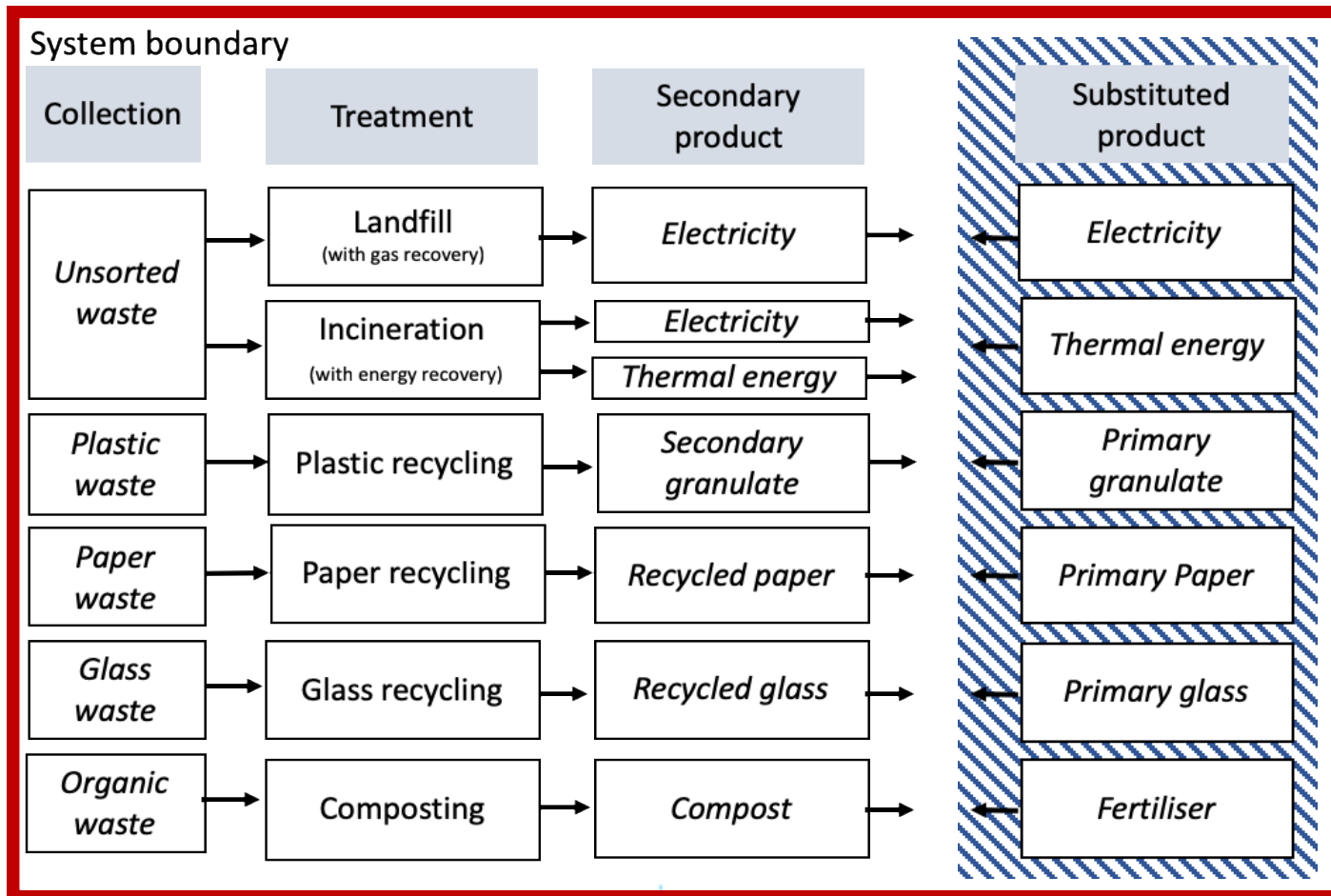
Saved CO<sub>2</sub>e/year: Lisbon 1,396.9 kg, Ponta Delgada 782.5 kg



# Pilot Measure 10

## Waste sorting in hotel rooms

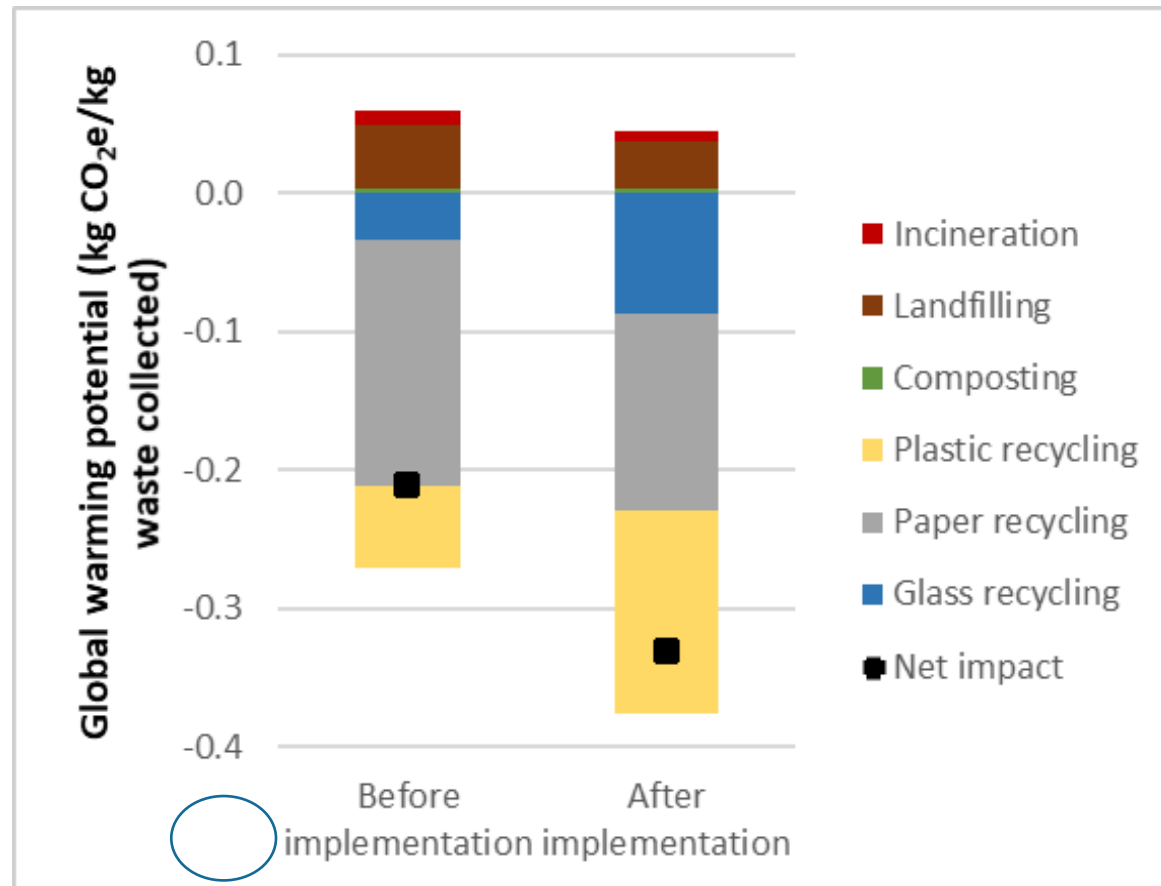
FU: 1 kg of waste produced and collected at the hotel



# Result PM10

## Waste sorting in hotel rooms

Saved CO<sub>2</sub>e/year: 3,500 kg

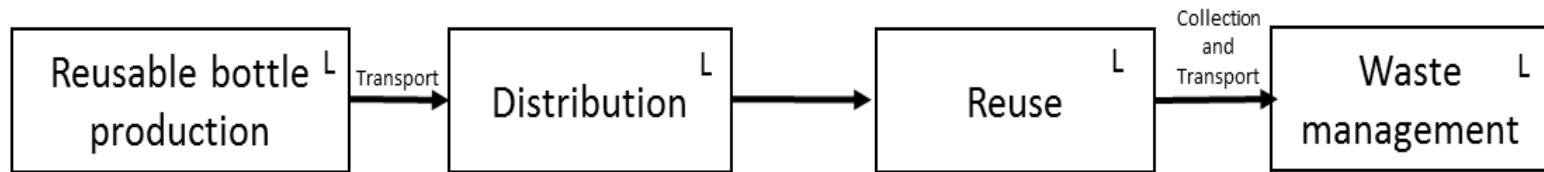


# Pilot Measure 13

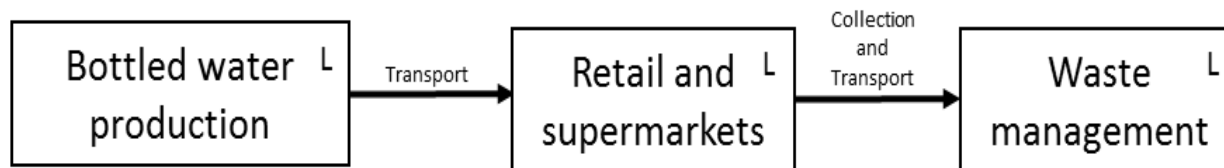
## Promotion of tap water consumption

### FU: provision of 1 litre of water

Action



Baseline system replaced

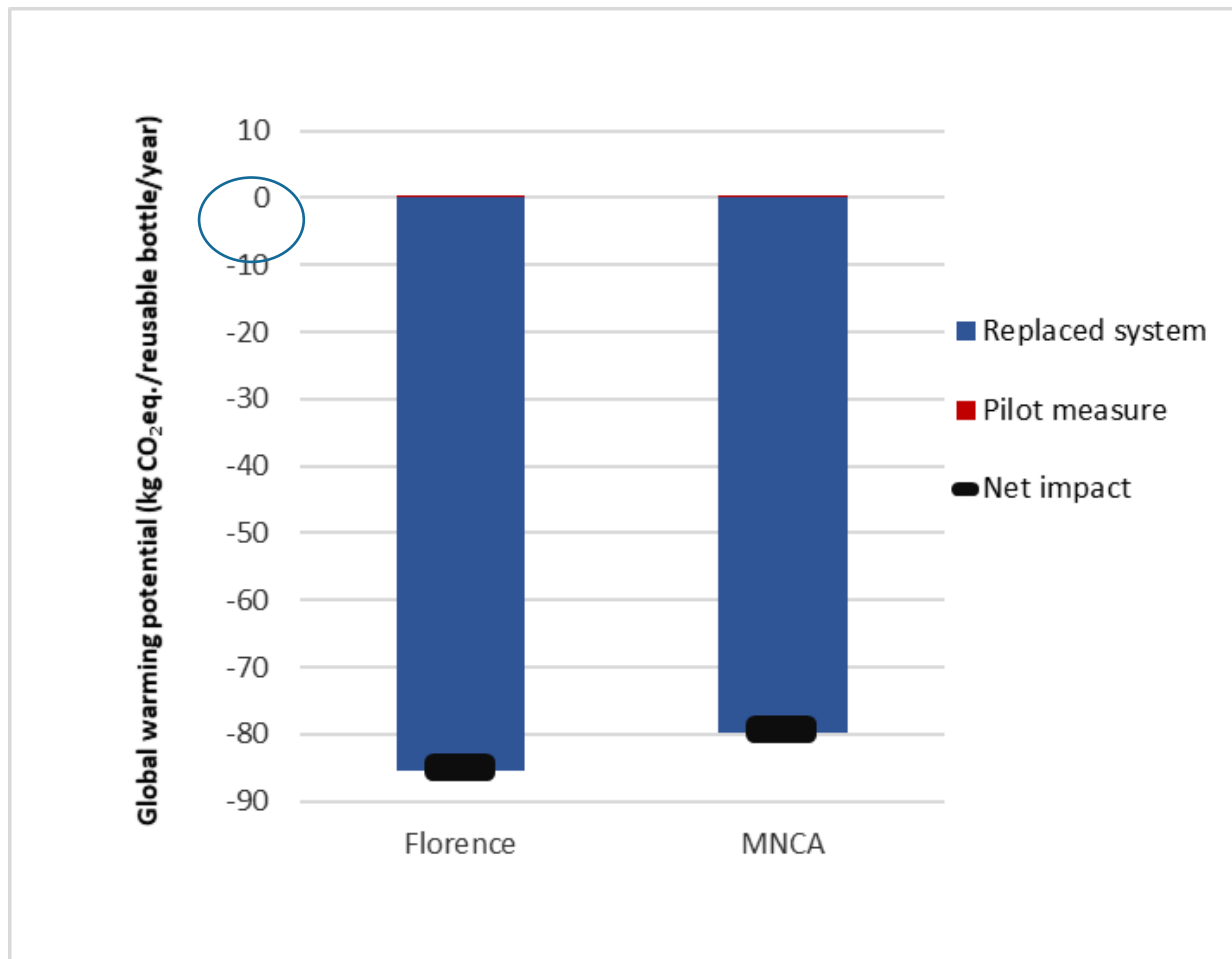


\* P=Primary data, L=Literature data, A=Documented assumption

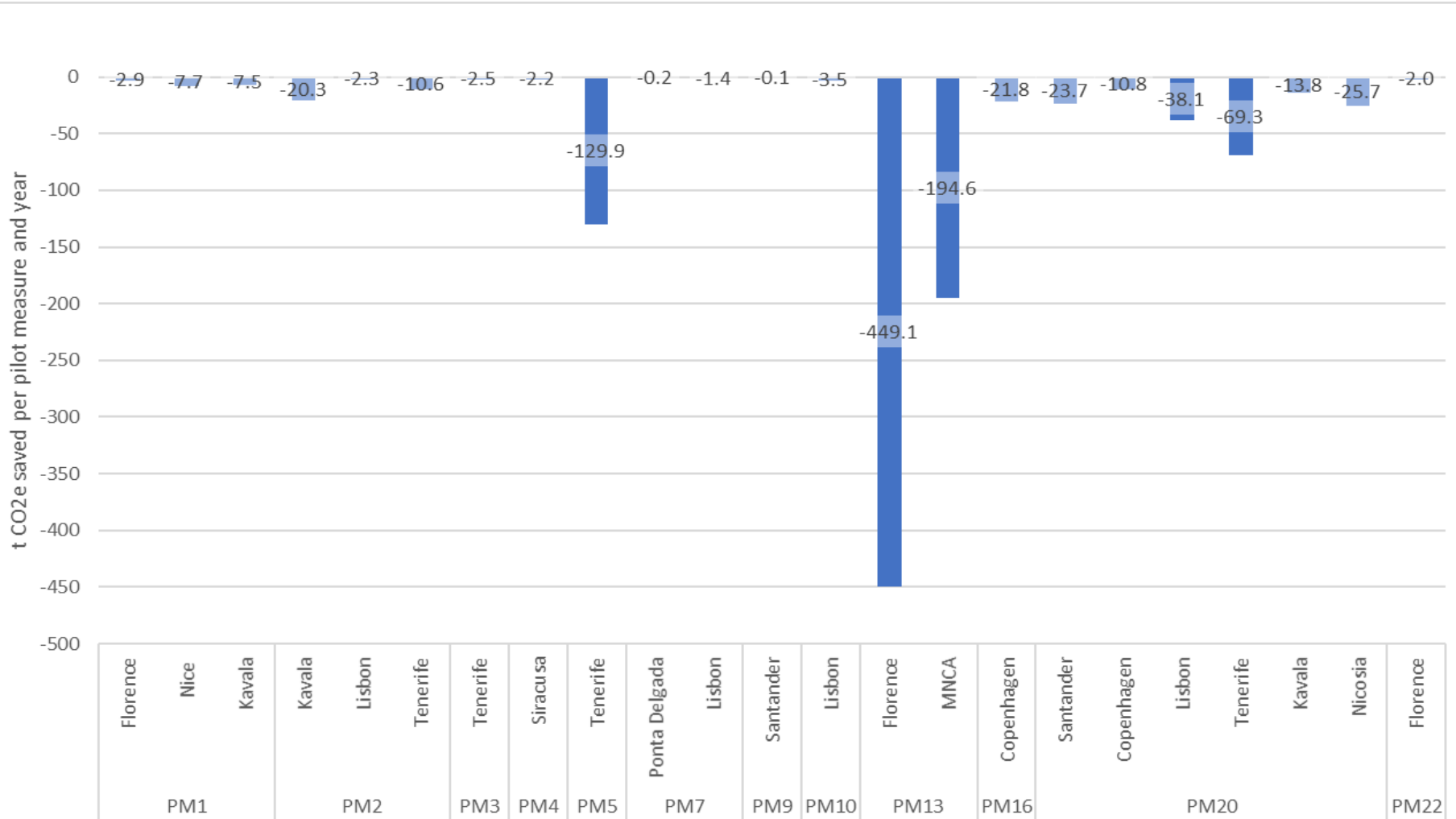
# Result PM13

## Promotion of tap water consumption

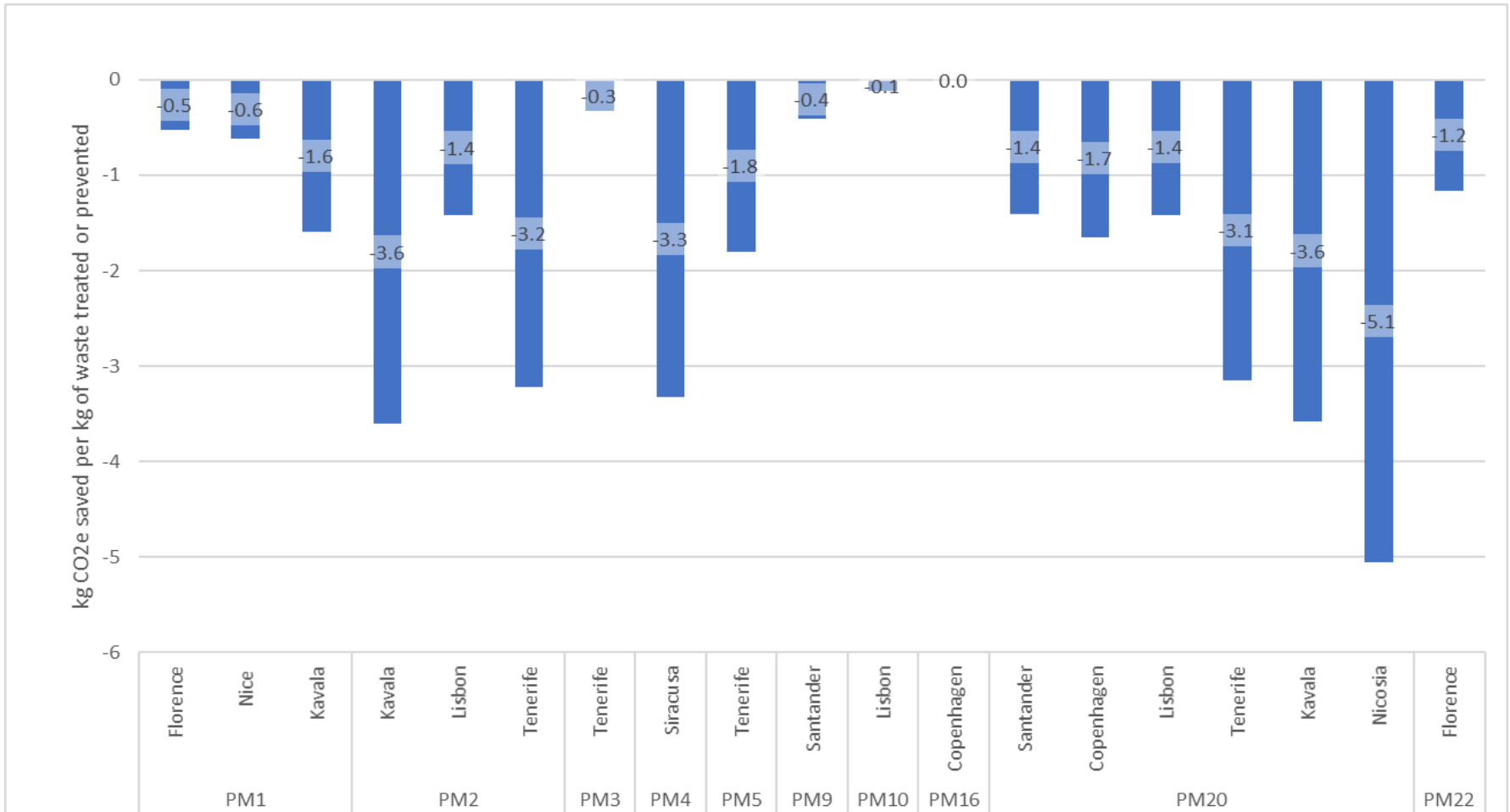
Saved CO<sub>2</sub>e/year: Florence 449.1 t, MNCA 194.5 t



# Saved CO<sub>2</sub>-e per year



# GHG emission saved per kg of waste treated or prevented





# Thank you for your attention!



## Contact:

Gudrun Obersteiner

[gudrun.obersteiner@boku.ac.at](mailto:gudrun.obersteiner@boku.ac.at)

University of Life Sciences and Natural Resources, Vienna  
Institute of Waste Management (ABF-BOKU)  
Muthgasse 107 / 3rd floor, A-1190 Vienna