

#ZeroWasteCities

@ZeroWasteEurope

@Jack_McQuibban

Zero Waste Cities in Europe

The what, who and how

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Zero Waste Europe







Change European policies



Mentor Cities towards a Zero
Waste transition

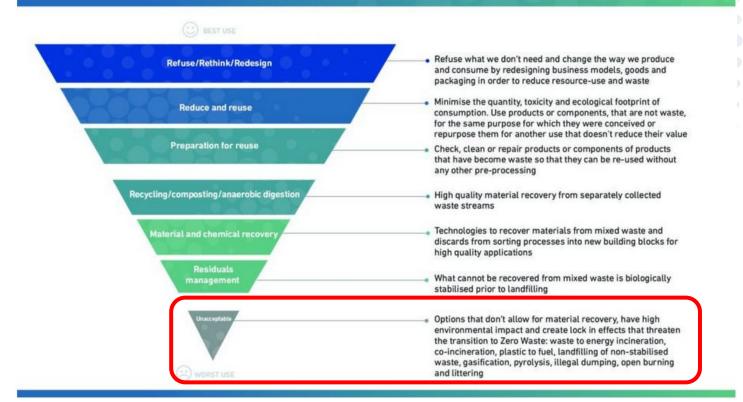




How do we define zero waste?

Zero Waste Hierarchy









The Zero Waste Cities programme

Our approach with cities & communities:

A continuous effort to phase out waste

 not by burning or landfilling it – but instead by creating and implementing systems that do not generate waste in the first place.

Zero Waste Europe's Cities Programme

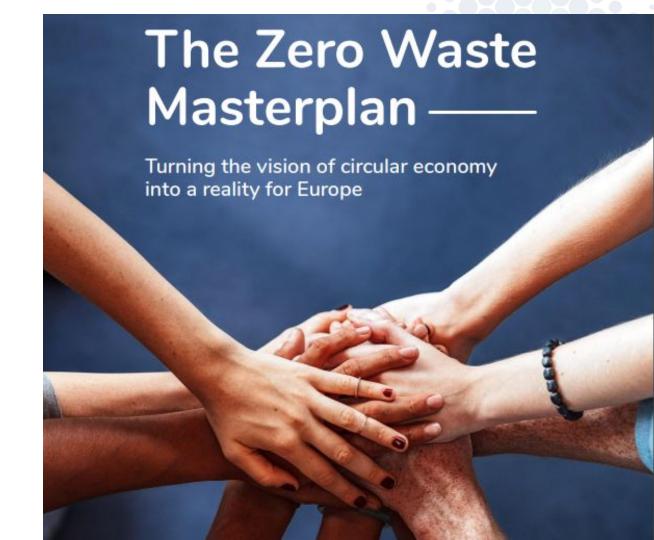
- Nearly 400 municipalities engaged & supported to develop Zero Waste Strategies in Europe
- A network of local and national coordinators via the Zero Waste Europe Members
- Model front-runners and best practices
- Expertise hub online via the Zero Waste Europe Academy



The Zero Waste Masterplan

Providing a blueprint for Zero Waste Cities

- Introduction of what zero waste is and how it differs from traditional waste management
- Overview of current EU waste & CE legislation
- Why adopt a zero waste approach - the benefits
- Where to begin different starting points
- What the next steps are for those interested



Questions to get you started

Questions to pose at the start of your journey as the answers will help you develop your strategy...

How much waste is generated in your city?

What is the separate collection rate? What happens to waste that is not separately collected?

what is the waste management costs per person per year?

What competencies regarding waste & recycling does your municipality have responsibility for?

Do you have a long term contract with a waste treatment facility/operator?

▼ Do you have a waste prevention plan? ▼

What fees do you pay for current incineration or landfilling of waste?

Do you collect organic waste separately? If so, what % of waste is organics?



Starting point for Zero Waste Cities

- → 6 different scenarios to identify which best describes your city
- → Each scenario is followed by an overview of what a typical roadmap to zero waste looks like for each scenario
- → Best practice example related to each scenario also provided so you
 can see how policies can be successfully implemented



Scenario 1: "My city is starting from scratch"

- · We do not have separate collection in place yet
- · Citizens and businesses do not have any economic incentives to generate less waste or to separate materials
- · We do not have any infrastructure in place for materials collection and processing.



Scenario 5: "We are a holiday or tourist destination"

- · Our city is in one of the previous scenarios but our challenge is the fluctuation of population because it is a seasonal destination
- · Our city is in one of the previous scenarios but our challenge is the influx of tourists.



Basic framework of a Zero Waste City

- → Kerbside collection of separate waste streams (ZW cities in Italy regularly achieve above 90% sep collection rates)
- → Residual waste assessment to analyse the most problematic items/packaging
 - ◆ Ability to redesign collection rounds for cost & impact optimisation
 - ◆ Data to feedback to producers to address non-recyclable materials
- → Implementation of a Pay-As-You-Throw system to incentive waste reduction further
 - Continuous seeking of improvements. Can be high or low-tech, several options available
- Open and engaging partnership with the local community
 - Advisory boards, zero waste family challenges, zero waste label for businesses/schools
- → Waste prevention measures adopted or encouraged by the municipality
 - Packaging free shops; reusable nappy systems; Reuse & Repair Centres; supporting businesses implement
 Deposit Return Schemes
- → Looking inwards to identify further waste reduction measures & incentives
 - Public events & spaces, public procurement



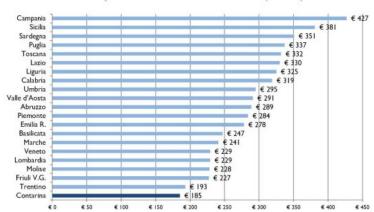
The Zero Waste Cities Model

Successful examples from across Europe

Contarina, Treviso region, Italy

The average household's fee*

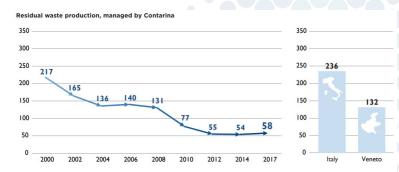
Comparison of national data (2016)



^{*}Average household composition: 3 person

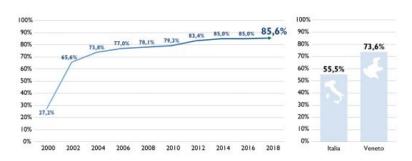
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Dati Contarina 2017 Cittadinanzattiva - Osservatorio prezzi e tariffe 2016 (Importi comprensivi di IVA e tributo provinciale)



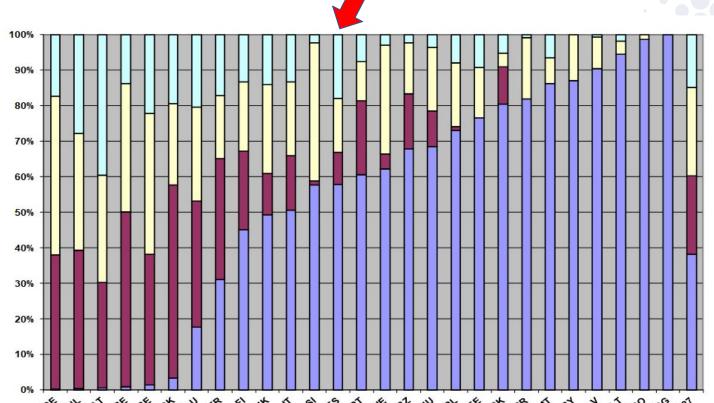
SOURCE: Contarina 2017, Rapporto Rifiuti ISPRA 2017

Recycling Rate of the municipalities managed by Contarina



SOURCE Contarina 2018 Rapporto Rifiuti ISPRA 2018 (dati 2017)

Slovenia (2008)

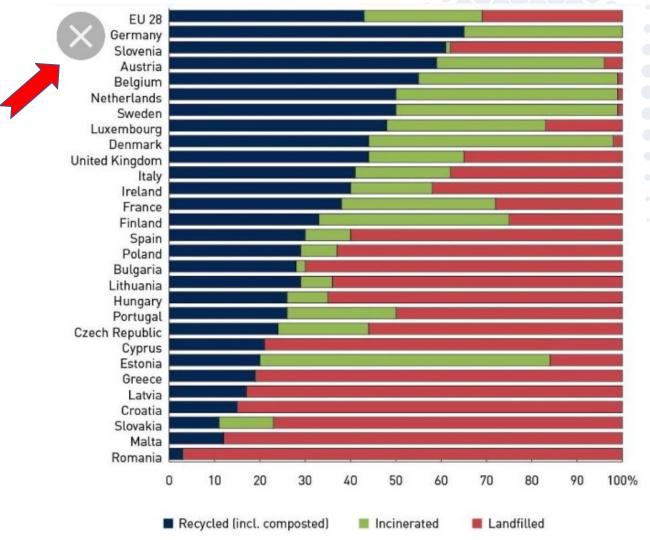




□ Landfill ■ Incineration □ Recycling □ Composting

Slovenia (2018)

From mid-table to the second best performing in the EU



Slovenian Zero Waste Cities

Municipality	Separate Collection % (2018)	Future target	Total amount of waste per capita (2018)	Future target
Vrhnika, Borovnica, Log-Dragomer	83%	N/A	384kgs	300kg by 2020
Gorje	75%	80% by 2025	266kg	200kg by 2020
Slovenske Konjice	74%	77% by 2025	315kgs	283kg by 2025
City of Ljubljana	68%	78% by 2025	358kg	280kg by 2025
Žalec	62%	80% by 2027	356kg	300kg by 2027
Radovljica	65%	70% by 2026	358kg	300kg by 2026
Bled	67%	80% by 2025	544kg	300kg by 2020
EU Average	47% (recycling rate)	65% recycling by 2035	489kg	Not set yet



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Thank you!

Check out www.zerowastecities.eu for further information

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