www.zerowasteeurope.eu

Z E R O W A S T E E U R O P E

Workshop

How to design and implement Zero Waste plans?

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ZERO WASTE PLANS

Ljubljana, 10th of May 2019







Schedule

9.30-10.30 Presentation of Zero Waste concepts, tools and planning examples

10.30-10.50 Brief break

10.50-12.30 Practical case workshop

12.30-13.00 Wrap up & closing



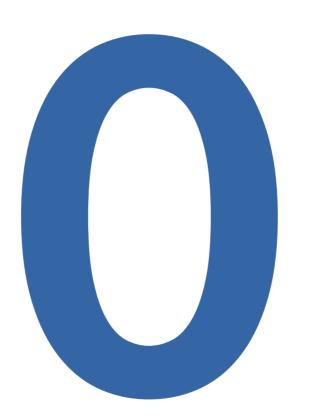


Definition of »Zero Waste«

The conservation of all resources by means of responsible production, consumption, reuse, and recovery of products, packaging, and materials without burning, and with no discharges to land, water, or air that threaten the environment or human health. (ZWIA, 2019)







What is and isn't Zero Waste



- Journey
- Cultural shift
- Bottoms-up,
 community fed





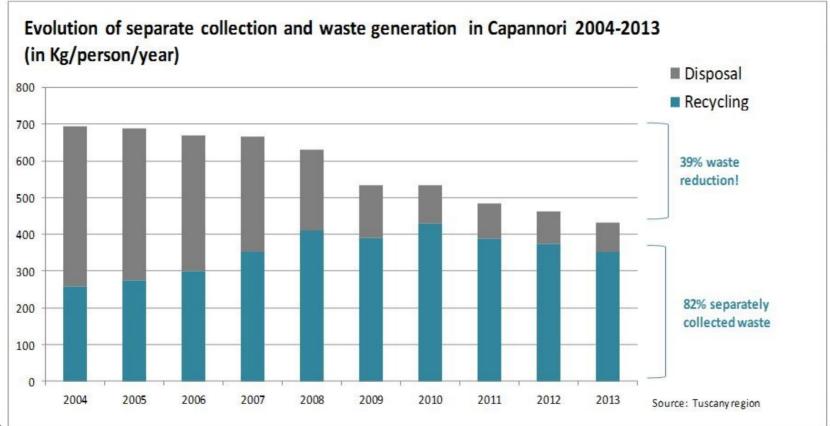
But why bother?





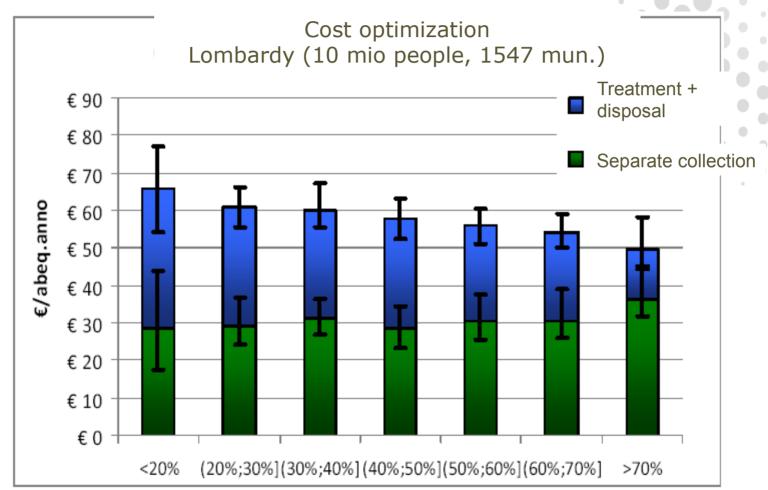


Less waste, lower cost





Separate collection = lower cost

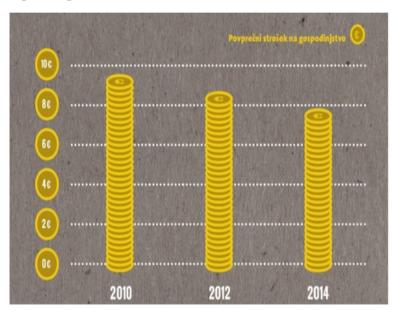






Job creation and costs

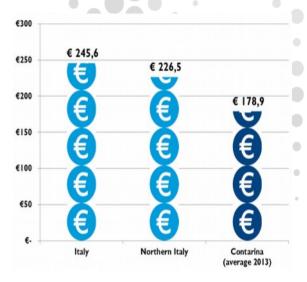
Average monthly cost in Ljubljana



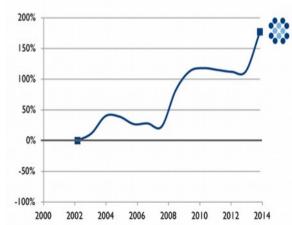
Average yearly WM cost for a household

Slovenia: 150 eur Ljubljana: <100 eur

... in Italy



New jobs in Contarina





0 P E





New obligations

Member states have to set up separate collection of:

- Biowaste (by end of 2023)
- Textiles (by 2025)
- Hazardous waste (by 2025)
- Waste oils (by 2025)

Encourage selective disassembly during demolition of buildings.



Set up separation of construction waste.



Benefits for cities



Less litter
Less waste to manage
Less residuals



Reduced expenses for the city Reduced fees for citizens Less environmental impact

More social integration
More social innovation
Compliance with EU law
More local jobs
Money stays in the community





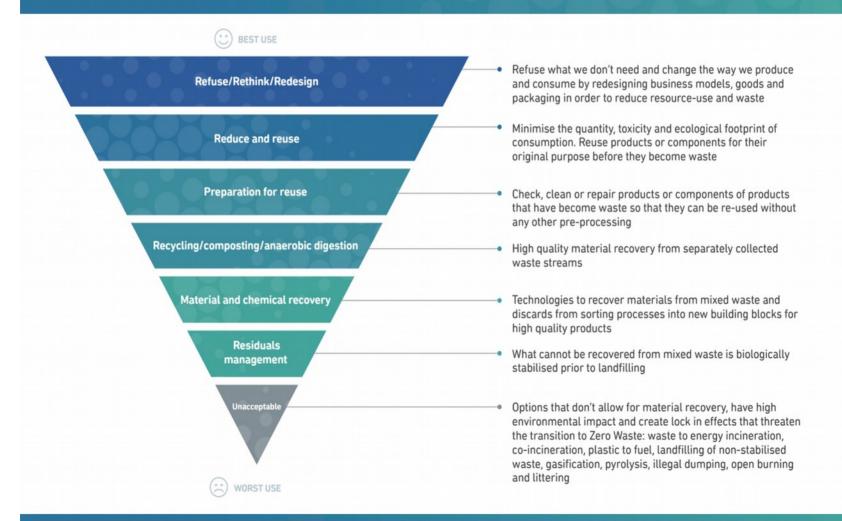
How to approach it?



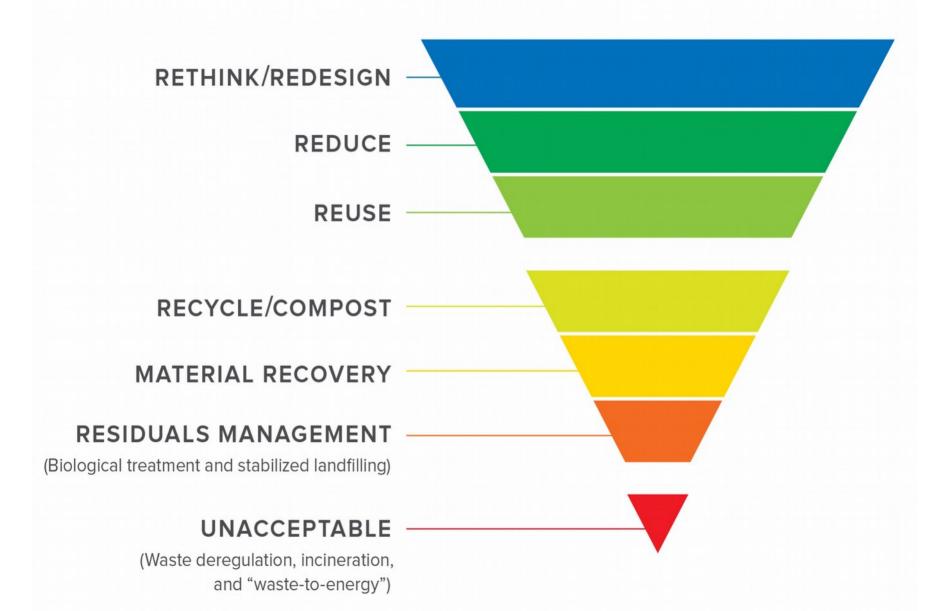


Zero Waste Hierarchy





THE ZERO WASTE HIERARCHY



Key Zero Waste measures

- Door to door collection including biowaste!
- Pay as you throw (PAYT)
- Prevention measures municipalities' role!
- Biowaste management
- Waste composition analysis
- Communication





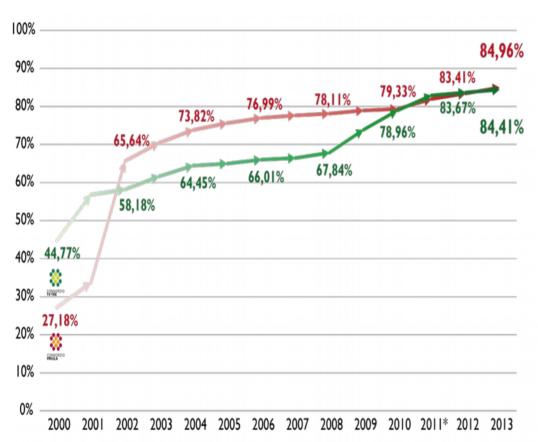
Biowaste / organic waste

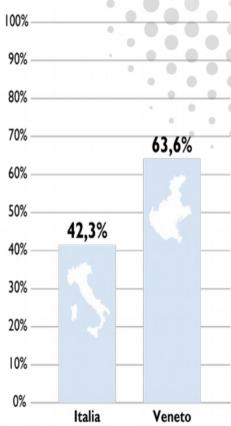
- HIGH AMOUNTS: important contributor to high levels of recycling (35 – 55 % of waste)
- OPERATIVE LEVEL: minimal amounts in residuals mean fewer pick ups
 - cost optimisation
 - synergistic effect for separate collection of other fractions
 - composting at home = complete prevention
 - local composting = quality compost
- QUALITY: less biowaste in other streams means they're cleaner, easier to work with, sort and recycle





Door-to-door collection and pay-as-youthrow (PAYT)

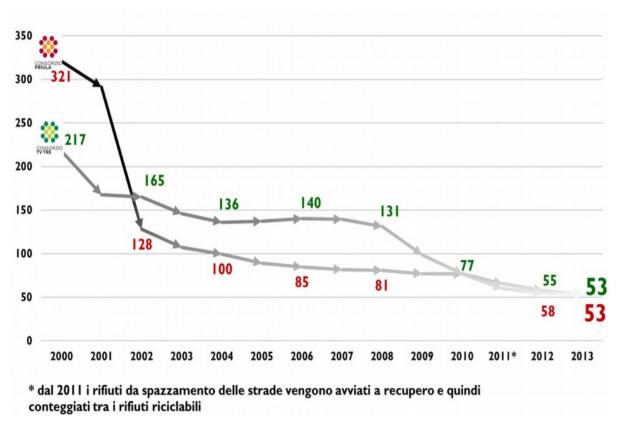


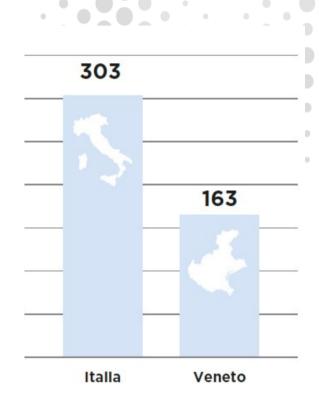






Fewer and fewer residuals









Residual composition analysis

1	papir ter karton in lepenka	27,58	11%
5	steklo	0,25	0%
6	kovine	1	0%
7	odpadki iz lesa	0	0%
8	oblačila, tekstilije	12,95	5%
9	OEEO ter baterije in akumulatorji	0	0%
10	drugi odpadki* - MKO	70	27%
11	plenice	47,4	19%
12	gradbeni	7,2	3%
13	keramika	4,3	2%
14	iztrebki	16,65	7%
15	guma	0	0%
16	nevarni odpadki	1	0%

Prevention

- Home and community composting
- Redesign: coffee
- Rethink: diapers, water fountains
- Enabling and encouraging reuse, repair and DIY refurbishment
- Leveraging local / regional legislation: green procurement, spurring competition, minimum standards for public events
- Food waste
- ...





Communication

Zero Waste Family challenge @ Capannori:

Residuals per person per year:

3.88 kg! (participants)

85.91 kg (Capannori average)

150 kg (Slovenian average)





Process examples







ZERO WASTE EUROPE 400 communities, 31 national organizations

Network of municipalities on the path to Zero waste

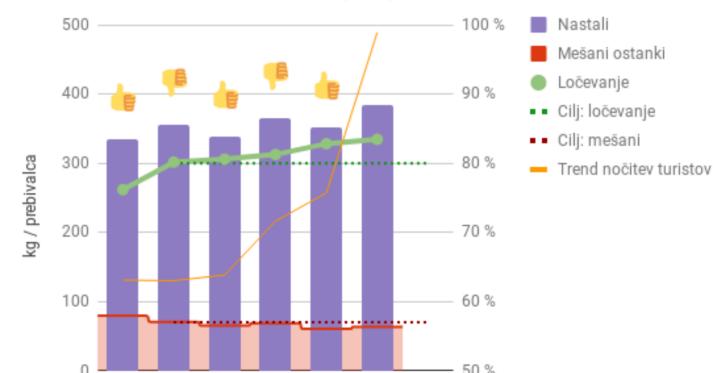
- transcending EU targets
- custom-tailored targets
 (better results, engagement)
- currently 9 municipalitiescovering 17 % of the population
- various reasons for joining



Vrhnika, Borovnica, Log-Dragomer

Vrhnika, Borovnica, Log-Dragomer: Komunalni odpadki, ključni kazalniki

Od sprejema Zero Waste zaveze naprej (2014)



2019







Process

- Formal application
- Assessment of the current situation = first data
 - recommend a composition analysis
- Zero Waste advisory board
- Zero Waste commitment and strategy
 - no burn, no bury
- Public presentation & adoption by local council
- ZWS and ZWE oversee everything





Resources

Our platform to help municipalities go Zero Waste

zerowastecities.eu







Webinars

ZWE ACADEMY







Study tours



Thank you!

Jaka Kranjc, Ekologi brez meja https://ebm.si/en



Wider frame and drivers of success

- EU targets, no additional national obligations
- closures of substandard landfills
- very limited incineration
- no EU funds for waste infrastructure in the 2013-2020 financial perspective
- public awareness and pressure

Infrastructure can only get you so far!

Groups

Olha Melen-Zabramna Olena Kravchenko

Pablo Chavanel Sarunas Reikalas

Tomas Kaminskas Teresa Scolamacchia

Pierre Condamine Aleš Pungerčar

Charlotte Muckensturm Solomiia Romaniv

Inga Muliuolė Lina Šleinotaitė-Budrienė

Klaus Willke Michaela Schorpp

Alexis Sicilia

Municipal solid waste

- Organic
- Packaging: plastic, metal, composite
- Paper
- Residual / mixed
- Textiles
- WEEE
- Waste oils