

# Circular Economy in Munich

## Munich's Zero Waste Strategy as a contribution to the green deal



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#munich4EUROPE

Münchner



Europa-Mai

# EU Green Deal Overview



## Goals

› Climate neutrality by 2050



› Decoupling resource use from economic growth



› Just Transition: No person and no place is left behind



## Green Deal measures

- › Promoting the efficient use of resources by moving to a clean, circular economy
- › Restore biodiversity and cut pollution
- › Holistic approach with strategies and measures in various policy areas, including climate, environment, energy, transport, industry and agriculture

### The EU Action Plan for the Circular Economy

- Reduce resource consumption and waste across the value chain

### Measures of the Action Plan

- Product design measures: improve durability, reusability and reparability of products
- Consumer empowerment measures: access to reliable information regarding reparability
- Focus on sectors with high circularity potential
- Waste prevention: Waste reduction targets



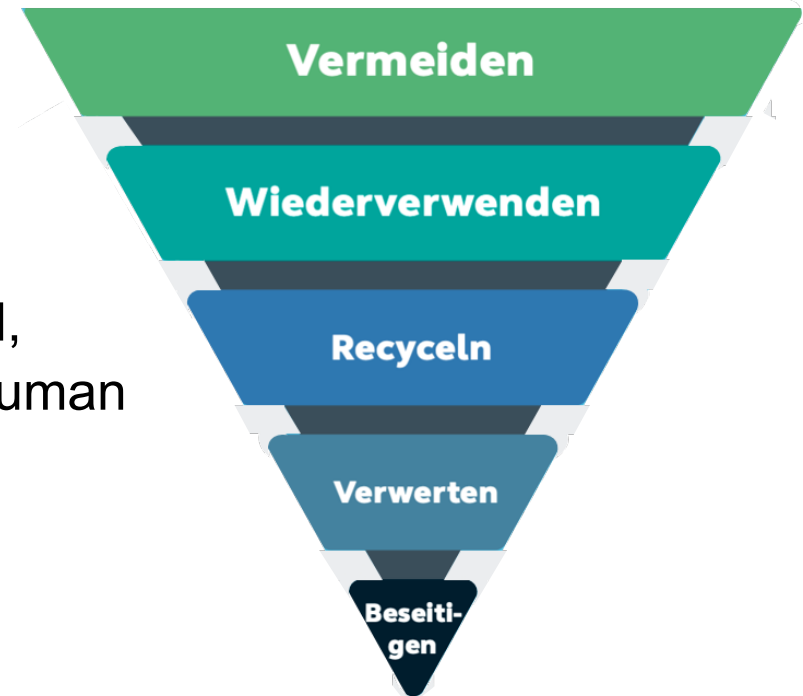
# What is meant by "Zero Waste"?

## Conservation of all resources through:

- responsible consumption
- sustainable production
- reuse and recovery of products

Without burning and with no discharges to land, water, or air that threaten the environment or human health.

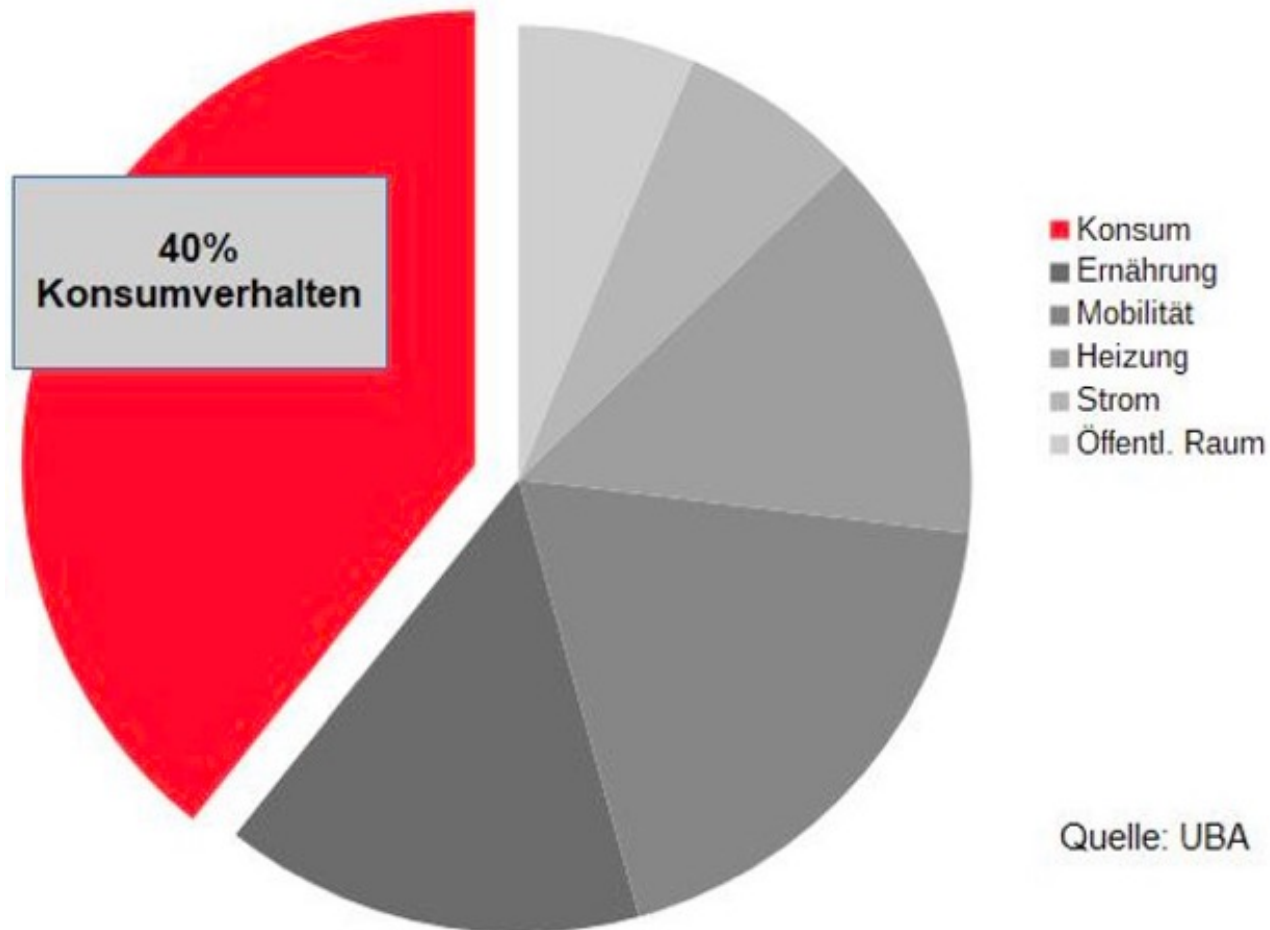
**(Zero Waste International Alliance 2018).**



*The best waste is the one that is never created*

# Climate protection potential of the Circular Economy and a Zero Waste concept

### Treibhausgasausstoß pro Jahr in Deutschland (2017)



Quelle: UBA

Source: Federal Environment Agency 2017

# History of the Circular Economy in Munich

- At the end of 2015, the European Commission published its Action Plan for the Circular Economy and a proposed review of current waste legislation.
- AWM participates in the preceding consultations through its membership in the EUROCITIES Waste Group and the VKU's Expert Committee Europe.
- As of 2015, AWM participates in the regular Circular Economy Stakeholder Conferences and posts Halle 2 on the CE Stakeholder Platform as an example.

## Munich wins the EUROCITIES Award 2017

- Munich was chosen as the most innovative project in the category of circular cooperation with the AWM's Halle 2 used goods shop.



Photo: EUROCITIES



# History of the Circular Economy in Munich

- On 12.11.2019, AWM hosted a city council hearing on the topic of "Circular Economy- Status Quo and Opportunities of a Circular Economy in Munich".
- The aim of the hearing is to raise awareness of this issue and to develop the vision of a circular economy in Munich together with politicians, city society, business and science.
- On 02.07.2020, the City Council resolution "Circular Munich- Circular Economy for a Sustainable Munich" was passed.
- The AWM is commissioned to develop first steps for the implementation of a circular economy strategy and a zero waste strategy.
- The zero waste strategy is to be developed in close cooperation with all municipal departments, institutions, organisations and the citizens.
- The "Zero-Waste-Munich" project has been running since 02.11.2020

<https://www.muenchen.de/rathaus/Stadtpolitik/Der-Muenchner-Stadtrat/Hearing.html#4>

## The path towards a Zero Waste City focuses on the following 3 thematic blocks

### Zero Waste Lifestyle

- Reducing waste in everyday life through responsible consumption

### Zero Waste in the economy

- Optimisation of production and processes towards waste prevention

### Zero Waste Cities

- Obligation of the municipality to promote waste prevention according to a concrete plan



# Munich on the way to becoming a Zero Waste City

- Certification via the Zero Waste Europe Association
  - Network with almost 400 municipalities across Europe
  - Munich as one of the first cities in Germany
  
- In order to obtain certification, a zero waste strategy must be established, which pursues three overarching goals:
  - Reduction of the total amount of waste
  - Reduction of residual waste
  - Raising awareness for the topic of Zero Waste
  
- Guidelines for the "Zero Waste Municipality" seal
  - Define quantitative goals (medium and long term)
  - Publish annual progress reports and milestones
  - Establishment of a Zero Waste Advisory Board



# Project structure Zero Waste Munich

Status of target achievement  
Zero Waste City

Existing  
Zero-waste activities

Munich  
Waste sector

Discussion of the proposed objectives  
and measures

Evaluation of the  
measures

Structuring &  
bundling

Status Quo

Participation

Objectives &  
catalogue of  
measures

Scenarios  
for waste  
volumes

Zero waste  
strategy

Identification of  
key players

Advisory Board

Workshops

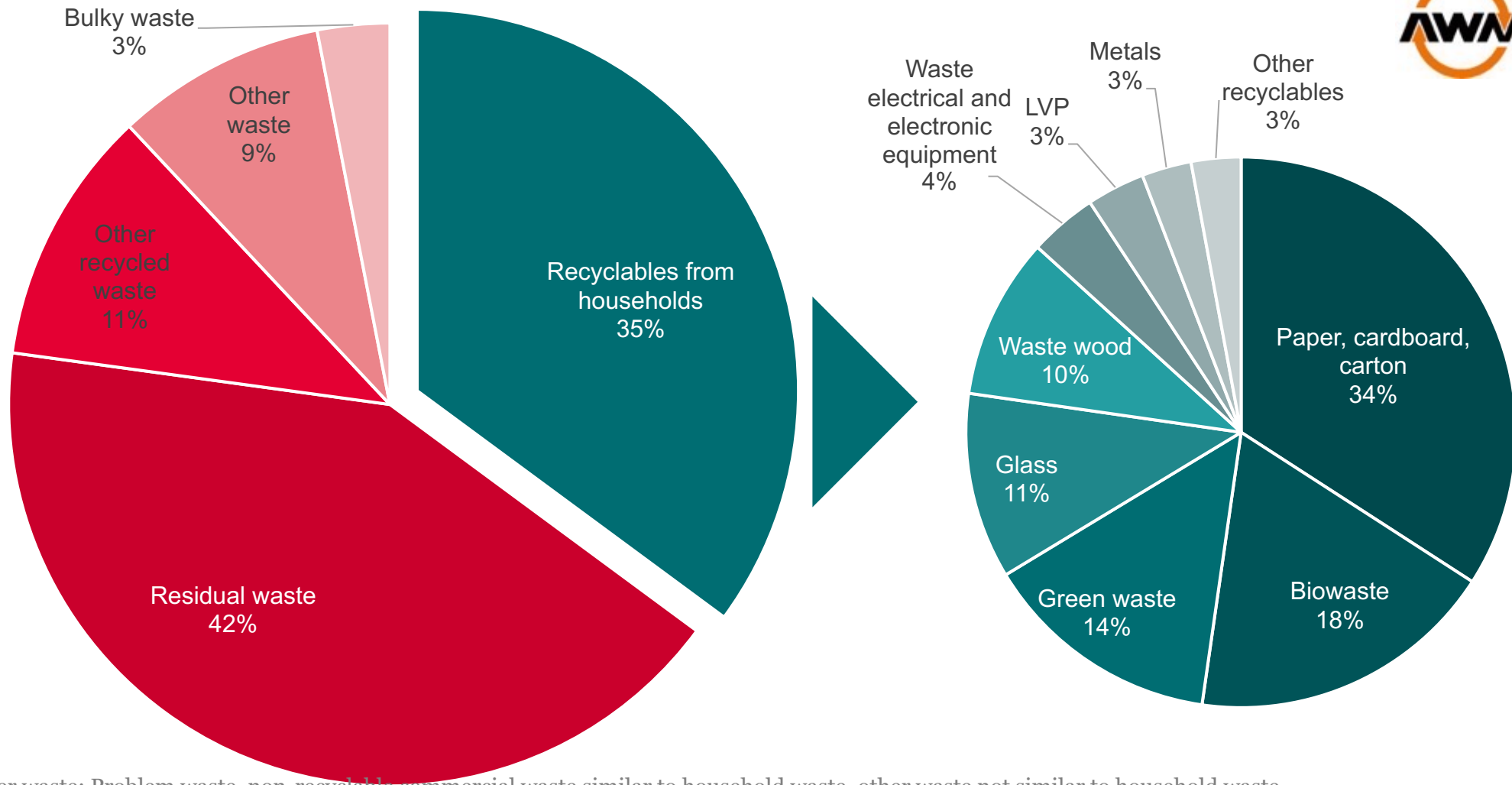
Business-as-  
usual scenario

Zero waste scenario

# Status quo of the Munich waste sector

## Munich's municipal waste (2019)

Municipal waste 2019: 719,477 tonnes; 454.22 kg/(E\*a)



Other waste: Problem waste, non-recyclable commercial waste similar to household waste, other waste not similar to household waste.

Other recycled waste: Green waste from businesses, waste from the organic waste bin from businesses, construction site waste, other commercial waste for recycling

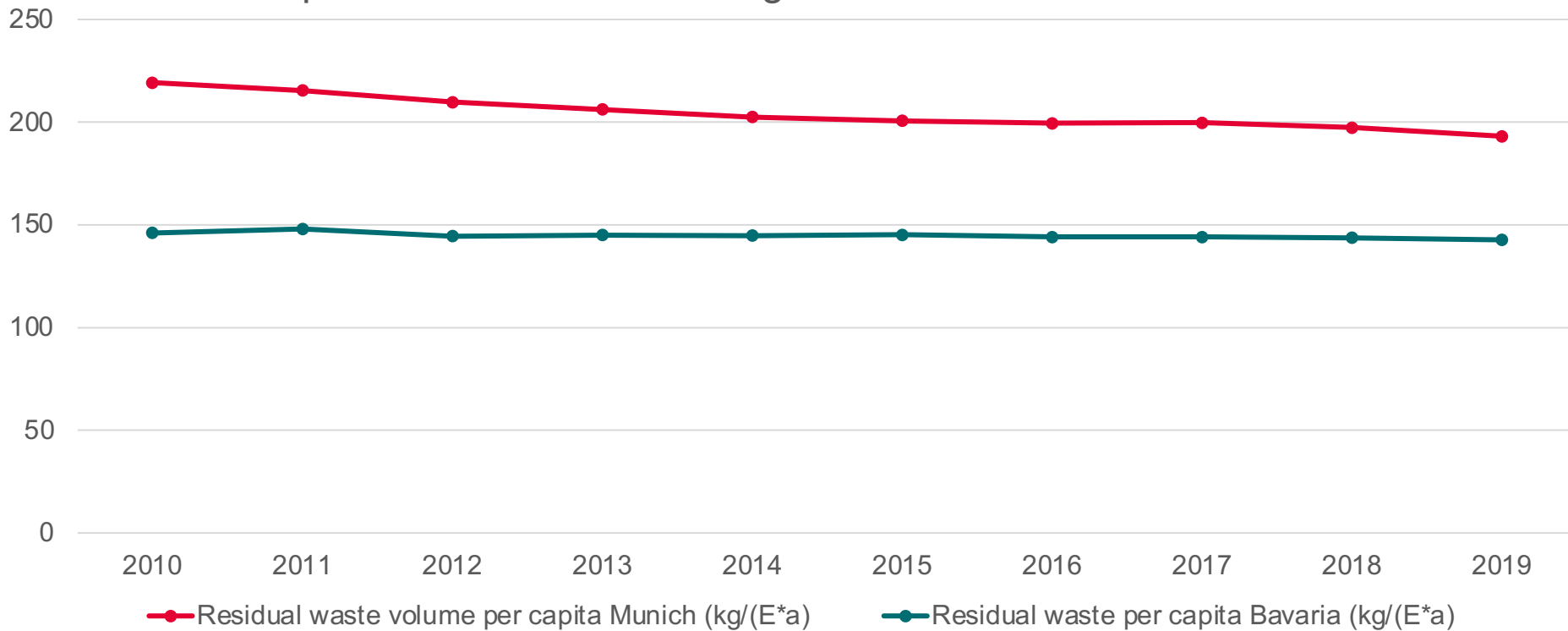
Other recyclables: Other recyclables from households, Other miscellaneous recyclables for recovery

# Status quo of the Munich waste sector

## Munich municipal waste - residual waste

**Residual waste generation 2019**  
305 954 t, 193 kg/(E\*a)

Comparison of residual waste generation in Munich and Bavaria



Note: The population figures for Munich refer to the demographic report of the city of Munich (LHM 2020). The population figures for Bavaria, on the other hand, refer to projections of the census, which means that there are deviations in the population figures for the city of Munich.

# Status Quo of Zero Waste Activities in Munich

## Methodical approach

### Literature research and interviews

- Evaluation of almost 60 city council resolutions, existing concepts of the City of Munich and AWM.
- Homepages and project websites.
- Interviews with Munich residents.
- Network from rehab republic.

# Status Quo of Zero Waste Activities in Munich

## Evaluation

- 144 Zero Waste measures
- 20 Measures in planning

**39**

**Communication and  
awareness-raising measures**

**19**

**Reuse & repair measures**

**14**

**Measures for efficient  
waste collection &  
separation**

**11**

**Measures on reusable &  
low-packaging products**

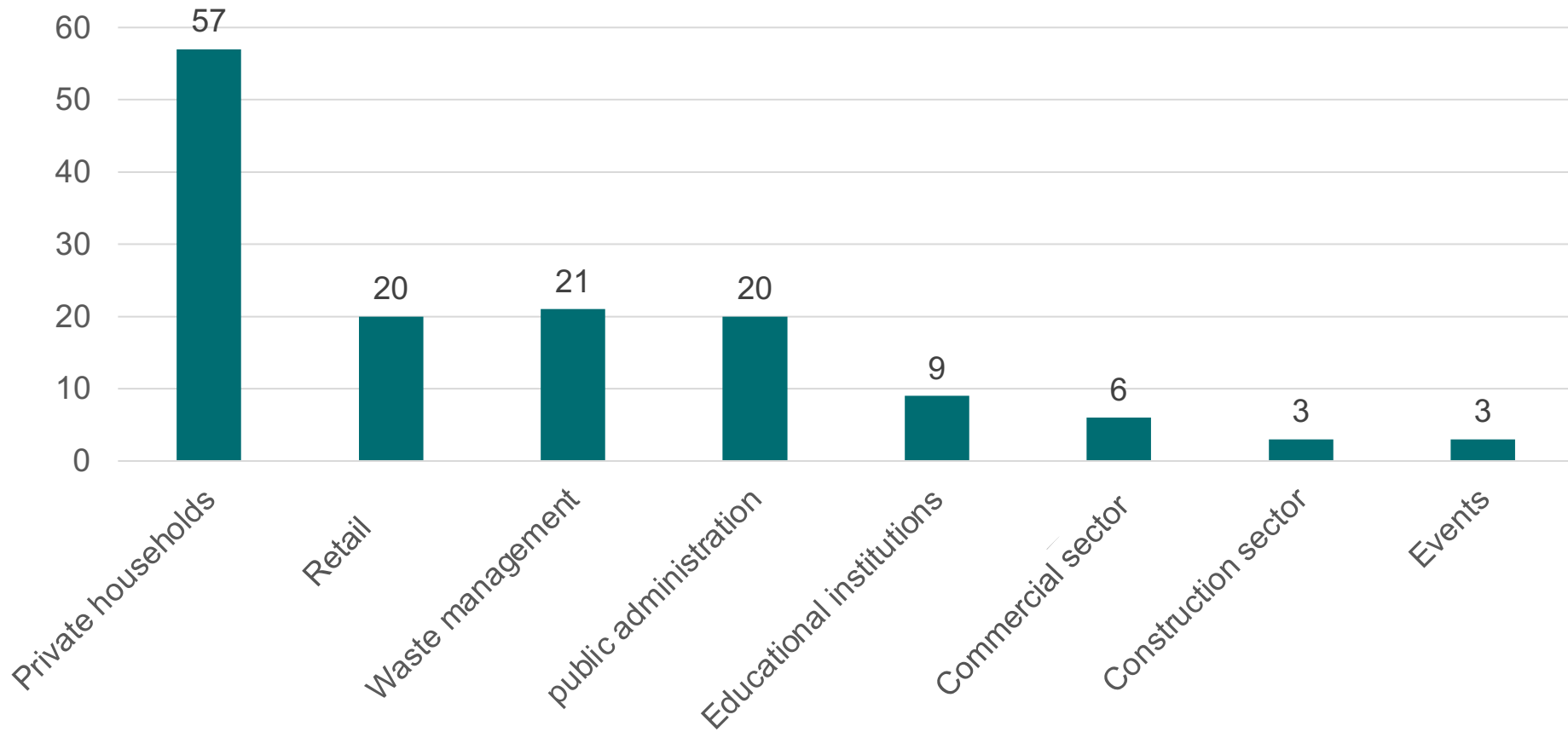
**10**

**networking  
activities**



# Status Quo of Zero Waste Activities in Munich

## Measures according to sectors



Note: The measures were each assigned to only one sector.

### Waste prevention in the Municipal sector

Tue 20.04.2021  
9:00-13:00

### Waste prevention in trade & commerce

Tue 27.04.2021  
13:30-17:30

### Consumption in everyday life

Thu 20.05.2021  
17:00-21:00

### Sustainable waste management

Tue 08.06.2021  
13:30-17:30

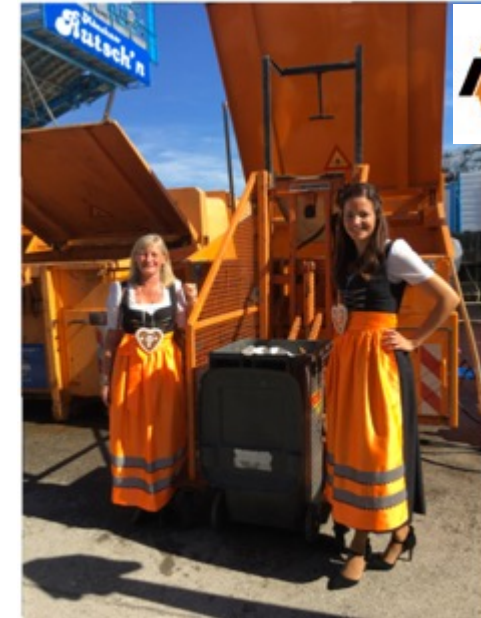
# Munich's current target achievement status on the way to becoming a Zero Waste City

## What is already going well?

- Munich is already well positioned in terms of separate waste collection
- Great commitment to participation by the residents of Munich
- Already many great Zero Waste projects in Munich
  - Measures such as Halle 2 or the reusable ban at the Oktoberfest as best practice

## What remains to be done?

- Focus more on waste prevention
- Set quantifiable waste reduction targets
- Develop new measures and promote existing projects to achieve the goals



# Munich's Zero Waste Strategy as a contribution to the green deal

- Holistic view of the value chain
- Shift the focus from only waste management and recycling to a stronger consideration of waste prevention
- Focus more on consumers and citizens
- Climate protection through waste reduction



We are looking forward to your questions &  
about an exchange with you!

ZERO <sup>MUC</sup> WASTE  
MÜNCHEN WILL  
ZERO WASTE CITY  
WERDEN

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# Thank you for Your attention

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Further information can be found on the:

- Zero Waste website of the AWM: [www.awm-muenchen.de/zerowastecity](http://www.awm-muenchen.de/zerowastecity)
- Zero Waste website by rehab republic: <https://zerowaste-muenchen.de>