

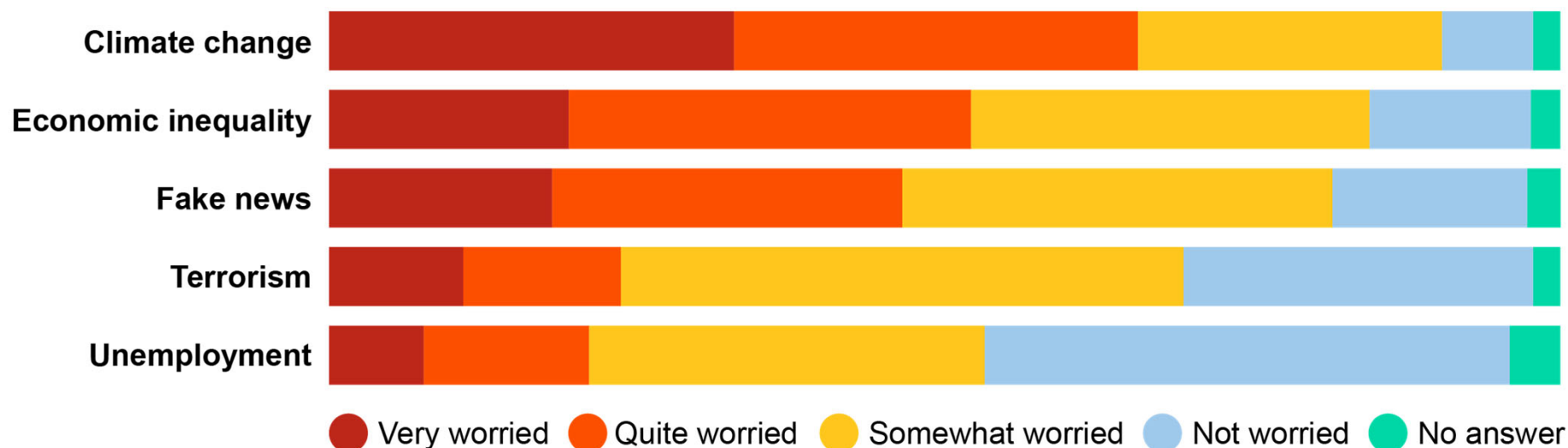
# **Climate Challenge - what is Helsinki City doing?**

**Esa Nikunen  
Director General  
Environmental Services  
City of Helsinki  
11.9.2019**

Helsinki



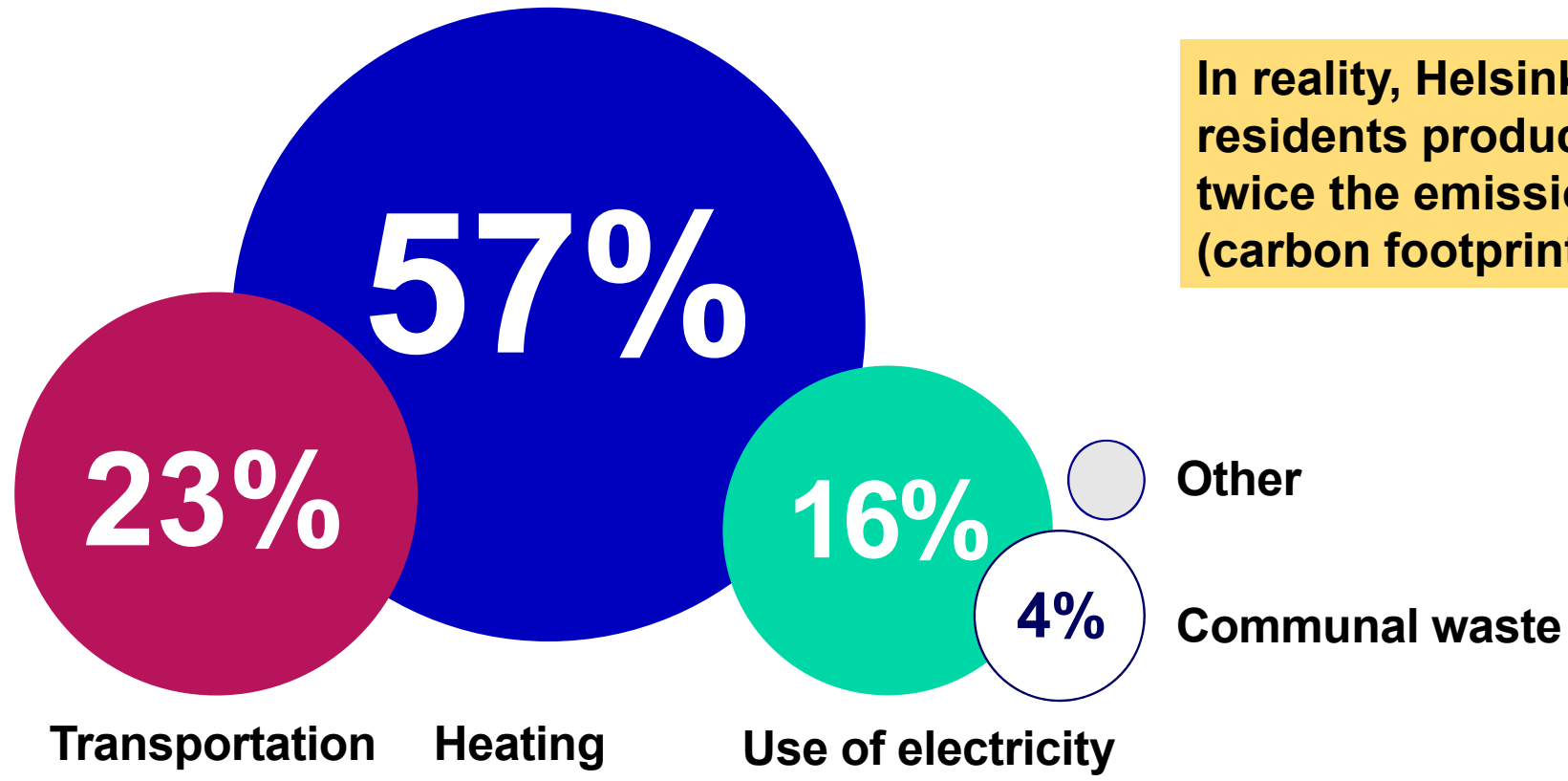
# What are Helsinki residents worried about? (2018)



# What are Helsinki's climate targets?

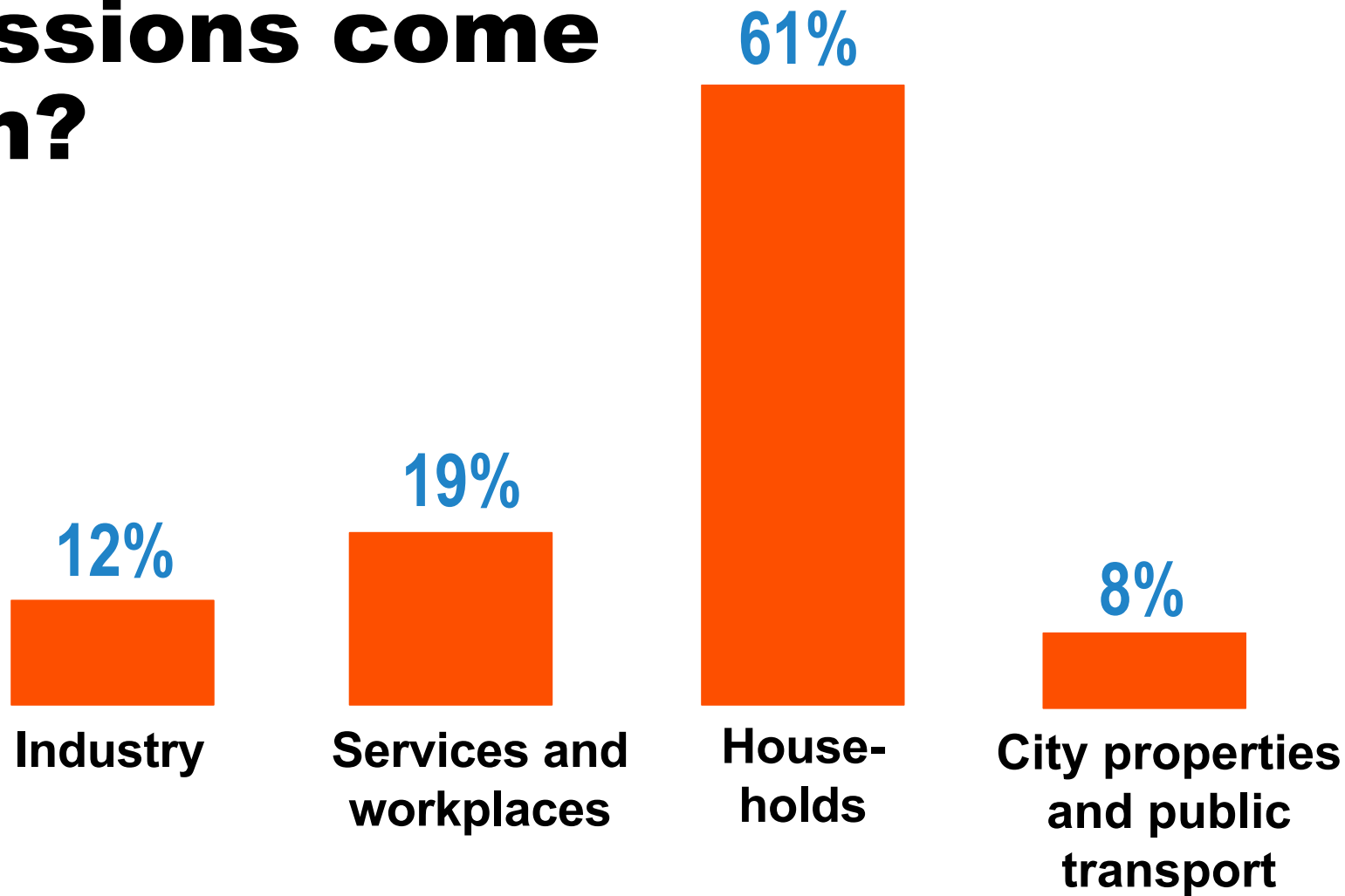
- Helsinki takes its responsibility for the mitigation of climate change seriously
- Climate goals in the city strategy
  - Carbon neutrality
    - 80 % emission reduction in 1990-2035
    - The remaining 20 % will be offset
- Interim goal: 60 % emission reduction 1990-2030
- Current emission reduction: 27 % since 1990

# Where do Helsinki's GHG emissions come from?



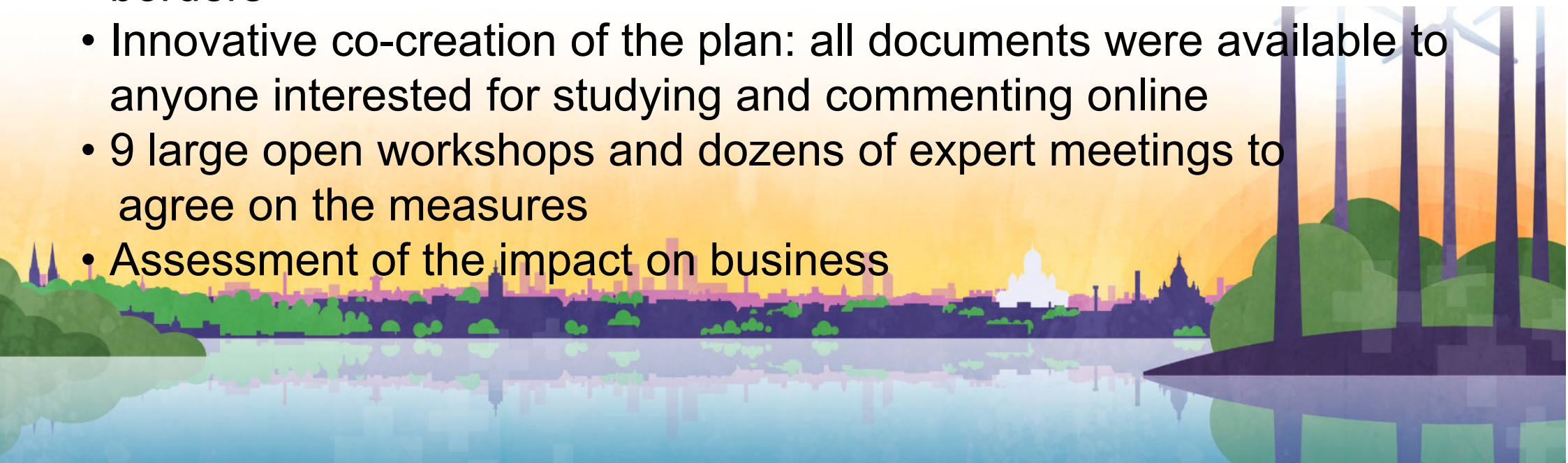
In reality, Helsinki residents produce twice the emissions (carbon footprint)!

# Where do GHG emissions come from?



# Carbon Neutral Helsinki 2035 Action Plan

- 147 measures to set Helsinki on the right track to reach carbon neutrality
- Focus on the emissions that are produced within the Helsinki City borders
- Innovative co-creation of the plan: all documents were available to anyone interested for studying and commenting online
- 9 large open workshops and dozens of expert meetings to agree on the measures
- Assessment of the impact on business







# Helen will be carbon neutral by 2035

## Helen is investing in various technological solutions

- Using recycled and surplus heat with heat pumps
- Seawater heat pumps
- Massive cave heat storage
- Geothermal energy
- Regional renewable energy solutions
- Property-specific energy efficiency solutions
- Bioenergy





# Traffic: -69% (2005–2035)

- Compact city structure connected with rail, fast bike network

## Ongoing projects

- Pricing of traffic
- Survey on environmental zones
- Emission-free construction sites
- Fastening the technology change in heavy transport
- Carbon neutral Port

Many measures are cost-efficient

Helsinki



# Main climate risks in Helsinki by 2050



**Urban and sea flooding**



**Biodiversity**



**Traffic and slipping injuries**



**The cross-border impacts**



**Heat-related health problems**



**Storm impacts**



**Tick-borne diseases**



# Adaptation in urban planning

Permeable  
surfaces

Urban green

Placement of  
buildings

Sustainable storm  
water management

Nature based  
solutions

Safe building heights

Shading and  
cooling

Flood routes

Room for water and  
snow

Helsinki

Photo: City of Helsinki

Nykyisellä vähennysnopeudella  
**Helsinki on Hiilineutraali**  
**27.8.2073**

[Lue lisää →](#)

Tavoitteen saavuttamiseksi  
**vuositasolla vähennettävä vielä**  
**1 857 000 t CO<sub>2</sub>e**

[Lue lisää →](#)

**HUOM:** Tämä on palvelun Alpha-kehitysversio. Sivustolla saattaa esiintyä esimerkinomaisia sisällöksiä, jotka eivät perustu todellisiin tietoihin eikä toiminnallisiin, jotka ovat vielä kehitysvaiheessa.

## Hiilineutraali Helsinki 2035 -toimenpideohjelma

Helsinki on sitoutunut kantamaan vastuunsa ilmastomuutoksen hillinnässä. Helsingin kaupunkistrategiassa 2017–2021 tavoitettiin on asetettu hiilineutraali Helsinki vuoteen 2035 mennessä. Ilmastotavoitteet koskevat kaupungin...

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# CLIMATE PARTNERS

A cooperative network between the City of Helsinki and businesses

More than 80 companies!



## Smart & Clean





# Your Local Guide to Sustainable Helsinki. **MyHelsinki.fi**



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**Thank you for your attention!**

