



Federal Ministry  
for the Environment, Nature Conservation  
and Nuclear Safety

# **Sustainable Consumption and Mobility**

Ulf Jaeckel, PhD

Federal Ministry for the Environment, Nature Conservation  
and Nuclear Safety, Germany



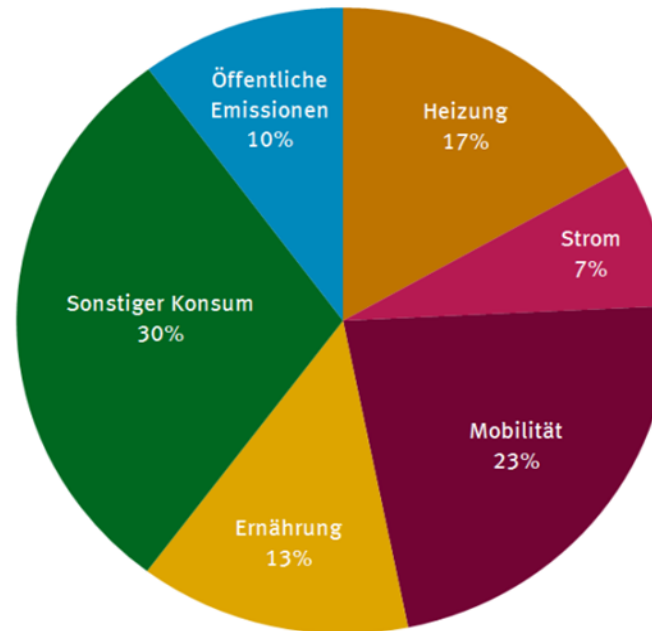
# Mobility and Sustainable Consumption

- Mobility is a daily consumption issue and a basic need
- More than 70% of GHG in developed countries are caused by consumption decisions
- Consumption decisions directly or indirectly determine working conditions, job creation, social welfare as well as the economic situation of people, companies, countries
- Everybody is involved
- Mobility is a major source of GHG emissions and resource use incl. biosystem services related to consumption



# Consumption Areas

Treibhausgas-Ausstoß (CO<sub>2</sub>-Äquivalente\*) pro Kopf in Deutschland nach Konsumbereichen (2014)



Quelle: UBA-CO<sub>2</sub>-Rechner ([http://uba.klimaktiv-co2-rechner.de/de\\_DE/popup/](http://uba.klimaktiv-co2-rechner.de/de_DE/popup/))

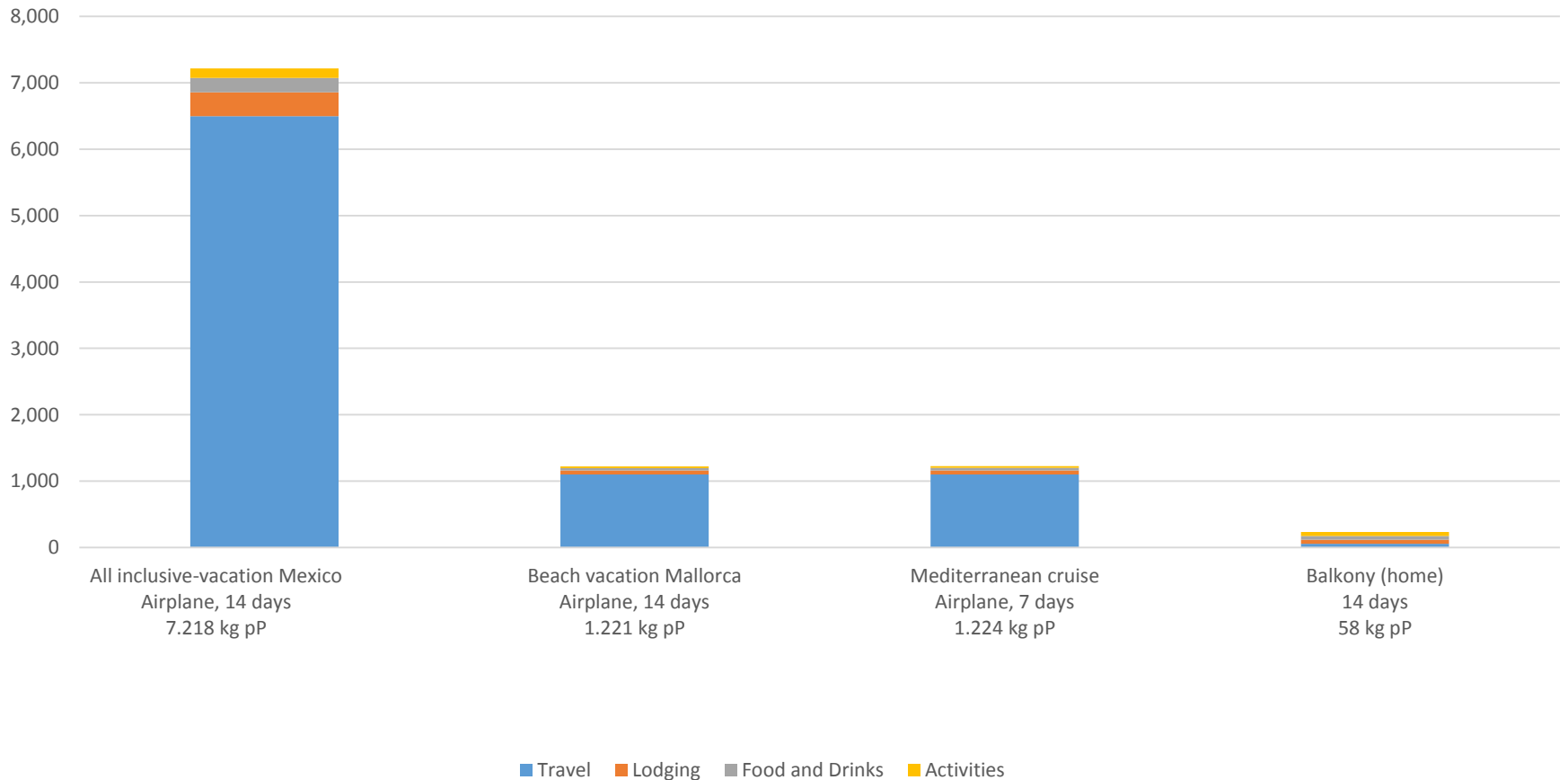
\* Emissionen anderer Treibhausgase als Kohlendioxid (CO<sub>2</sub>) werden zur besseren Vergleichbarkeit entsprechend ihrem globalen Erwärmungspotenzial in CO<sub>2</sub>-Äquivalente umgerechnet (CO<sub>2</sub> = 1).



# Examples for GHG emissions related to tourism

## Greenhouse gas emissions per person and trip

Kilogramme (kg) of carbon dioxide





## GHG Emissions of Modes of Transport

<u>Carrier</u>	GHG gramm/ pkm
Passenger car	139
Long distance coach	30
Long distance railway	43
Airplane	196
City bus	74
Metro	74
Local railway	72



# National Program on Sustainable Consumption

Adopted in February 2016 by the Federal Government

## Guiding Principles

- Sustainable Consumption needs to evolve from **niche market into mainstream**
- Consumers have to be **empowered** to consume sustainably
- All parts of the **society** have to be involved and able to actively participate

## Six Thematic Areas

- Mobility, Nutrition, Home and Living, Work and Office, Clothing, Tourism

## Implementation

- Interministerial Working Group on sustainable consumption
- Competence Centre and Network for sustainable consumption
- Monitoring by 2 indicators in the Sustainable Development Strategy (Market share of sustainable products, GHG per capita for consumption)



# Thematic Field Mobility

## Relevance

- high

## Barriers:

- Current lifestyles
- Availability of alternatives

## Measures (examples mentioned in the program):

- Support climate friendly forms of mobility;
- Foster the interconnectedness of different forms of mobility;
- Facilitate short distances in daily life
- Reduce travel for work through provision of infrastructure for webinars, home office, etc.



# Biking

*Faster than any other transport means on distances below 4km*  
*Use in urban areas mainly*

- Promotional activities
  - Provision of safe bike lanes incl. fast bike lanes
  - Securing fast and smooth bike travel by bike-friendly steering of traffic lights
  - Support for simple rent-a-bike systems
  - Provision of safe bike parking spaces
  - Ensuring interconnectivity with public transport
  - Financial support for companies using freight bikes
- Reduction of attractiveness of individual car traffic
  - Reduction of parking spaces
  - Regulation of access to the city (city road tax etc.)





# E-Mobility

*Technology development needed (batteries etc.)*

## Promotional activities

- Short term
  - Provision of infrastructure for charging batteries (also in rural areas, also including fast chargers)
  - Provision of subsidies for buying e-cars
  - Introduction of tax advantages
  - Allowing use of bus lanes
  - Model role of public procurement
- Longer term
  - Provision of low-cost energy during non-peak times
  - Electric motorways
  - Streets with induction chargers



# Flying

*Highest GHG impact area for sustainable consumption*

*Global solutions preferable/necessary*

*Individual lifestyles significantly affected*

## Possible measures

- Offsetting with ambitious schemes
  - Model role of public procurement
  - Voluntary
  - Mandatory
- Financial measures to incentivize low emission air traffic
- Change of lifestyles leading to a reduction of private flights



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# Thank you

**[ulf.jaeckel@bmu.bund.de](mailto:ulf.jaeckel@bmu.bund.de)**