

# “City distribution - a holistic approach”

Corporate Solutions,  
Research & Development

**DACHSER**

“Something is cooking ...”



# Where is the “tipping point”?



source idea: futurist Lars Thomsen

# FUSO eCanter – official handover in Berlin



- More and more restrictions are being placed on the access to inner cities. There are currently restrictions in place for over 500 European cities

[www.urbanaccessregulations.eu](http://www.urbanaccessregulations.eu)

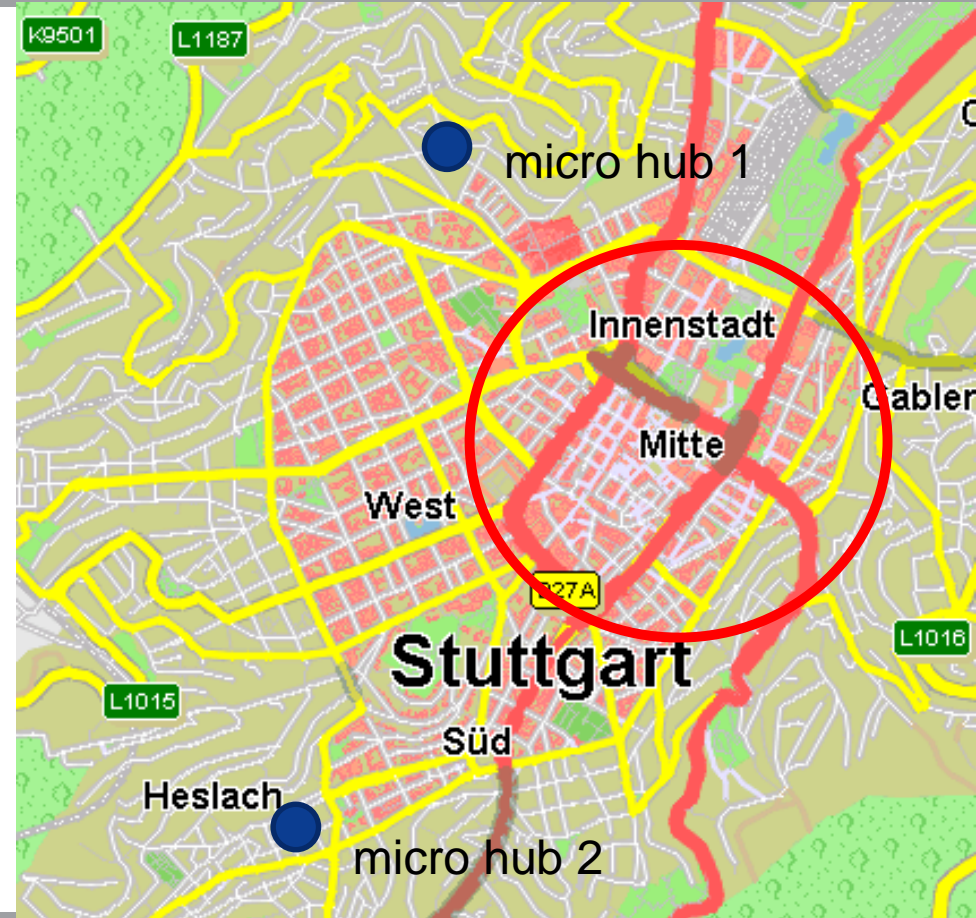
- Severe regulations are being drawn up in Germany and other countries, in particular concerning diesel motors
- DACHSER is investigating this issue within the framework of its R&D project 'City Distribution' and is developing a toolbox which offers a variety of different solutions



- Innovative sustainable business models for distribution in inner cities and creation of a toolbox
- All cities have their own individual and special requirements
- The toolbox will be a practical method for providing a variety of solutions to each branch



- What does a City Center look like?
- What is the traffic situation and the structure of the consignees?
- Where is our branch located?
- Who is in charge of what?
- Which concept will fit best?



- Acceptable pollutant levels are frequently exceeded
- Temporary traffic bans are to be implemented for diesel motors from 2018 on days with raised dust pollution
- Stuttgart is one of the most congested cities in Germany





# Toolbox Project City Distribution



## Laws and Regulations

- Relying on speculation and rumors concerning regulations is not advisable when trying to reach the best decisions for delivery to inner cities
- This is why DACHSER gathers and evaluates all relevant country requirements in a structured manner
- Example Paris: with effect from 2020 only vehicles licensed in January 2011 or later will be allowed to enter the metropolitan area



## City Analysis

- Each city has its own specific logistics requirements. Both topographic and demographic factors have an important role to play
- DACHSER analyzes each metropolitan region separately, in order to be able to offer individual solutions for each city
- Example Stuttgart: lying in its basin valley surrounded by hills means that this Swabian city experiences more days with high dust pollution and therefore increased traffic restrictions



## New Energies and Technologies

- Many cities grant exceptions in the access restrictions, if alternative drive systems are in use
- DACHSER is testing both hybrid, CNG and electric trucks as well as electrically supported delivery bicycles
- Example e-Truck: daily deliveries to the inner cities of Málaga, Paris and Stuttgart by electrically powered vehicles
- Example electrically supported delivery bicycles: daily deliveries to the Stuttgart inner city by delivery bicycle



## New Energies and Technologies

### Beware of false conclusions!

- The costs of an electric truck are currently 3 to 5 times as high as a conventional truck
- At the moment there are no electric truck fleets of more than just one or two trucks with an admissible weight > 7.5 tons to be found on the market
- The additional electrical capacity required to sustain just 5 electric distribution vehicles would today, without any preparation, bring a medium-sized branch office practically to a standstill



# Project City Distribution – alternative drives



## Night, Shop and Mall Deliveries

- Shrinking warehouse space and shops, which are difficult to access, calls for new delivery concepts
- DACHSER is attempting to reduce delivery time and fulfill customer demands by means of night deliveries
- Example Paris:  
Deliveries to hotels, hospitals, restaurants and offices between 17:30 and 22:30



## Investment Plan

- Sustainable City Distribution does not come for free. The shipping industry must budget for increased costs in the future
- DACHSER is already investing in the development of sustainable delivery concepts
- Example City Distribution: Three year research and development project with activities in France, Denmark, The Netherlands, Spain and Germany





## Research Start Ups and Innovation

- Those who want to design inner city delivery concepts for tomorrow, have to combine proven and tested logistics systems with new ideas
- DACHSER works in close collaboration with universities, research facilities, associations and start-ups, in order to be in a position to recognize and implement innovation at an early stage
- Example Nantes University: Development of innovative logistics concepts for inner cities



## Active Communication with Authorities

- Development of sustainable transportation and logistics concepts in collaboration and consultation with authorities and stakeholders
- Participation in local working groups
- Participation in events to discuss possible solutions
- Example (Paris): Partner in the French capital's economic development and innovation agency, Paris & Co.



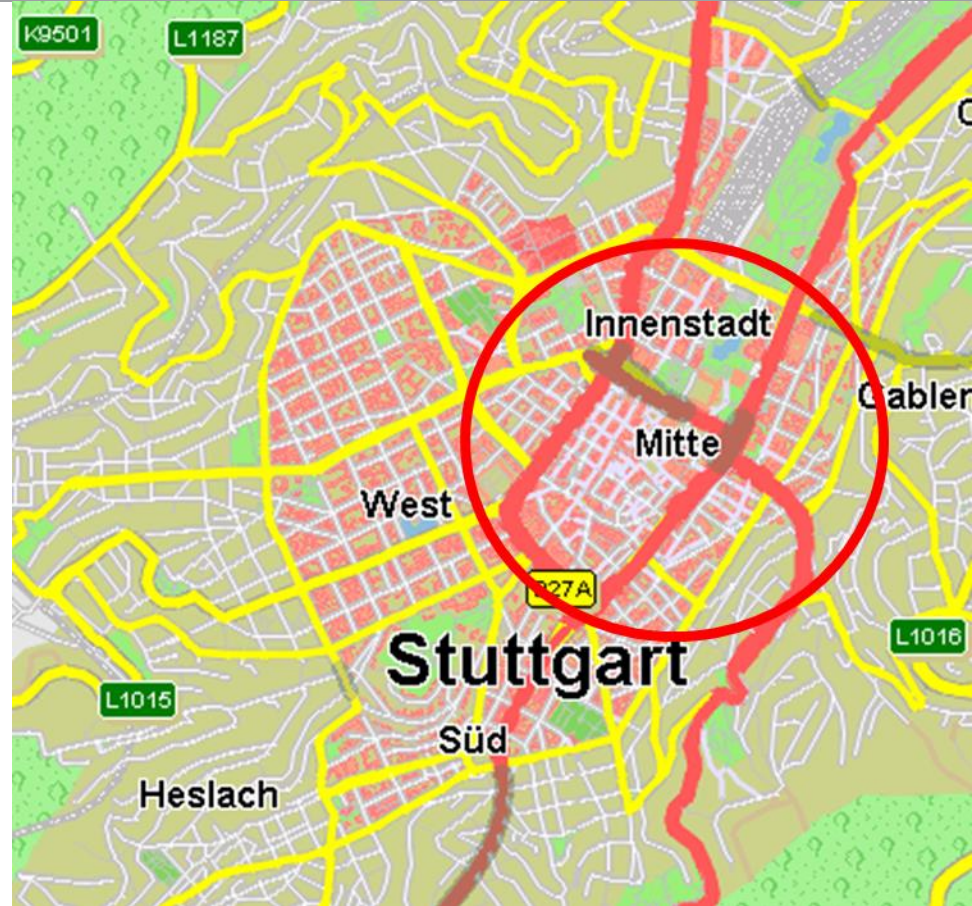
## Greenhouse gas calculation

- Municipalities, customers, and service providers need well-founded facts and figures to convince the public that they are making efforts to protect the environment
- DACHSER can provide reliable data that will enable them to:
  - Calculate emissions savings
  - Determine their ecological footprint
- Example (CO<sub>2</sub>): Calculation of greenhouse gas emissions according to DIN EN 16258 and French decree 1336



Approach your city –  
we provide solutions!

Help your city – help yourself!



“Something is still cooking ...”

