



# ***How will we live in the future***

Jens Ocksen, Volkswagen Poznań  
Poznań, 12.09.2018







85

45



Jens Ocksen, City Development Forum 2018

Photo-<https://www.cbsnews.com/news/amazon-alexa-echo-device-recorded-conversation-sent-to-contact/>







Jens Ocksen, City Development Forum 2018

Source: <https://www.fastcompany.com/3037834/these-powerful-led-bike-lights-make-cyclists-as-bright-as-cars>



# Transbay Center: San Francisco

Source: <https://inhabitat.com/photos-san-francisco-is-building-the-future-of-public-transportation-beneath-a-5-4-acre-rooftop-park/>; <https://www.wsp.com/en-GL/projects/transbay-transit-center>



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# The world changes ...



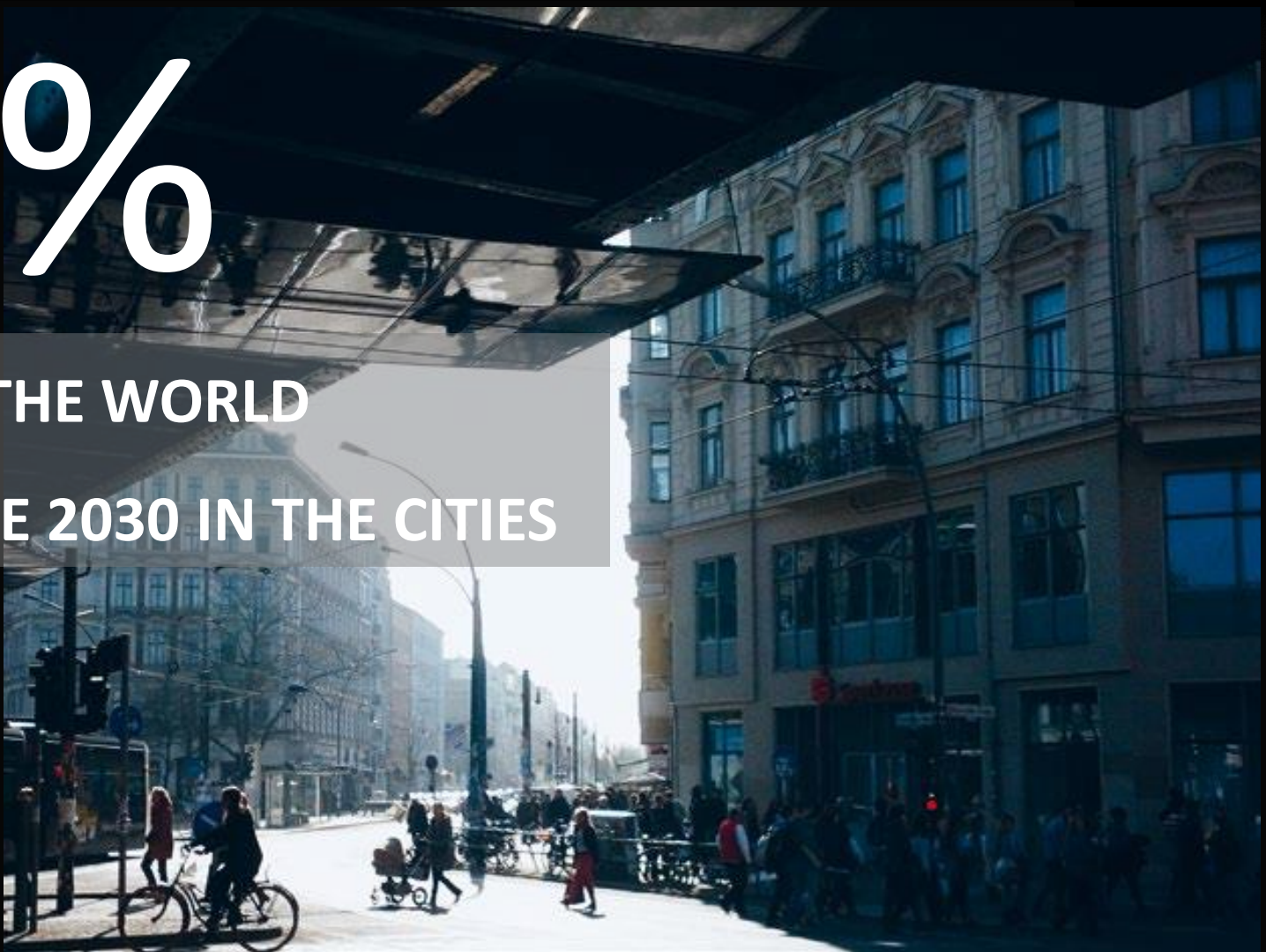
Source: Prof. W. Jenewein,  
St. Gallen University



# 60%

**PEOPLE IN THE WORLD**

**WILL BE LIVE 2030 IN THE CITIES**





## TURNOVER OF E-COMMERCE (M. EUR)

GERMANY 2015: 43.211  
2020: 64.541

+57%

POLAND 2015: 10.000  
2020: 17.500

+70%



# 140.000

A silhouette of a person wearing a cap and carrying a large box on their back, walking up a set of stairs. The background is a clear blue sky.

**CARS OF EXPRESS-PARCEL-COURIERS**

**DRIVE EVERY DAY FOR**

**6 MILLION CUSTOMERS**



# 20%

**OF MEDIUM-WEIGHT TRUCKS SOLD IN 2026  
WILL HAVE AN ALTERNATIVE ENGINE**  
(in 2016 only 1%)



# Importance of alternative engines for the cities



**Crafter**  
with combustion  
engine



**Crafter**  
with electric  
engine



**Crafter**  
with fuel cell

# Fine particles

# vs

# charging infrastructure









An illustration showing a woman with blonde hair in a blue shirt looking out from a brick window. A yellow drone with four rotors is flying towards her, carrying a yellow basket filled with blue water bottles. The background is a detailed cityscape with various buildings and other drones flying in the sky.

4

models logistics of tomorrow

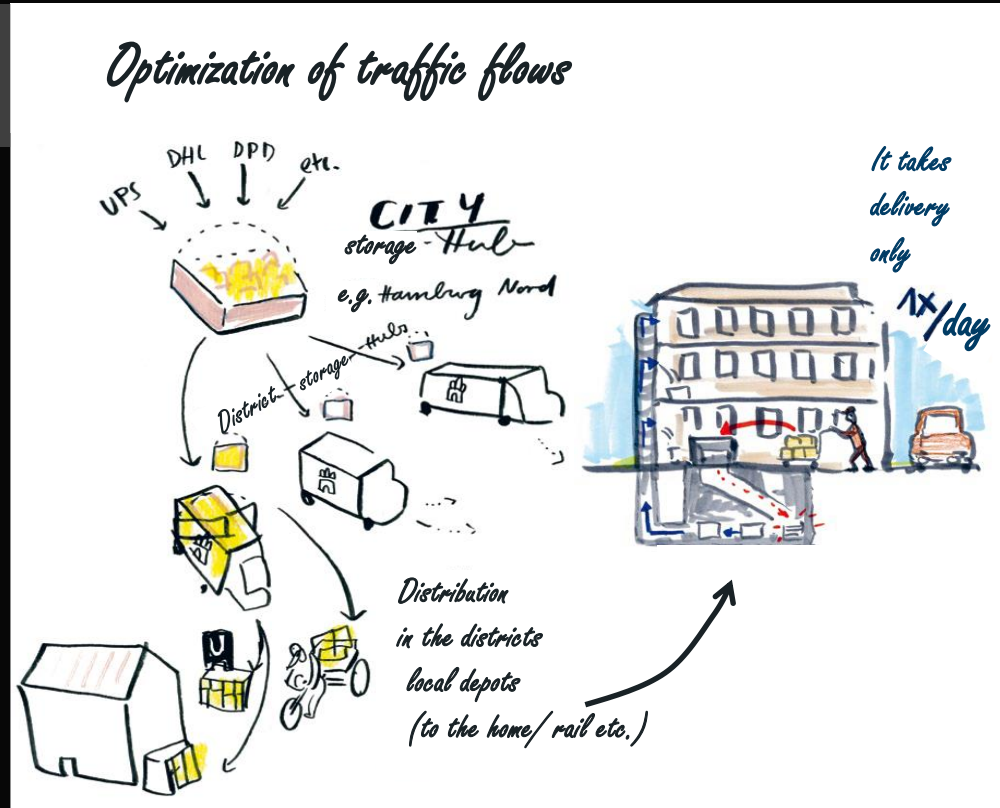
# No. 1

## Logistics public utility

**Municipal united parcel service**  
will coordinate in **2030**

the urban delivery of **parcels and food**  
with using the **electrically powered**  
delivery vehicles.

**In the last mile** mileage is **less**,  
but **full loaded** transporters which **reduces**  
the **traffic**.





# No. 2

## Cooperative logistics

All logistics companies agree a **voluntary cooperation** and greater **involvement** of population in a delivery process through **aggregated orders**.

The cities create the necessary conditions for **promoting** the cooperation.

**Decentralized storages** will be used, from which the delivery could be realized with **electric bicycle**.



*City creates  
incentives for cooperation  
(for business  
and services)*



*Bike courier  
for the last mile*



# No. 3

## Logistics lab

**Cities and municipalities** are working **together** with industry- and digital companies in an **innovative lab**. The goal of this cooperation is to be an **attractive place** for citizens and trade.

An example: combination between **transport and public transport**.  
With the **higher frequency** of public transport increase a **closing the cities** for **individual transport**.



Small city as a lab  
for innovative ideas

fewer  
instances

- Autonomous driving on demand
- next pilot-projects
- air-logistics

Combined transport  
of people and goods



Use effective ways



Car sharing instead of ownership

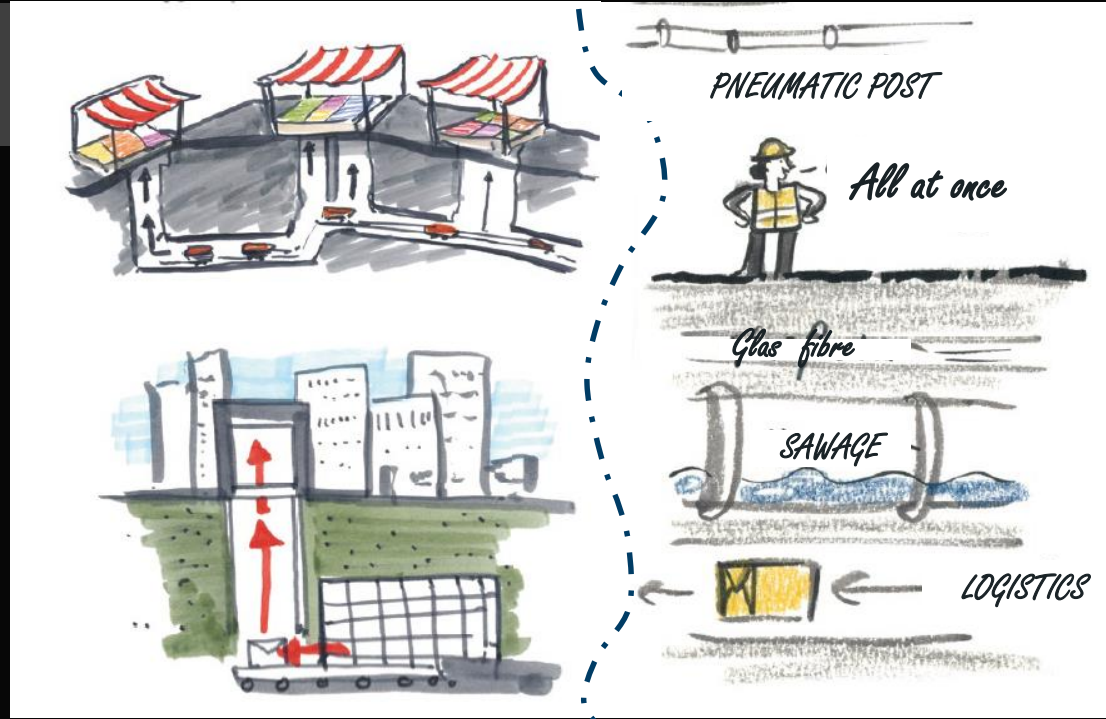
# No. 4

## The tunnel-logistics

**2030** almost all transportation of people and goods takes place in an **underground**. This radical concept is an answer for increasing urbanization.

When the transport is relocated underground it gives **new space** for different possibilities in the surface.

The **city center** is **closed** for **individual transport**.







# *How will we live in the future*

*Thank you for your attention.*

Jens Oksen, City Development Forum 2018