

# Smart Mobility Moving beyond.

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## Global megatrends will shape our lives in the coming decades ...

## **Digitalization**



By 2025, the digital universe will reach 175 zettabytes

# Demographic change



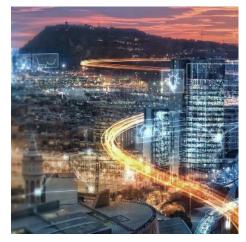
The earth's population will increase from 7.7 billion people today to 9.7 billion by 2050

# **Climate** change



By 2050, a global temperature increase of 2°C is expected

## **Urbanization**



By 2050, **70 percent** of the world's population will live in cities (2018: 55 percent)

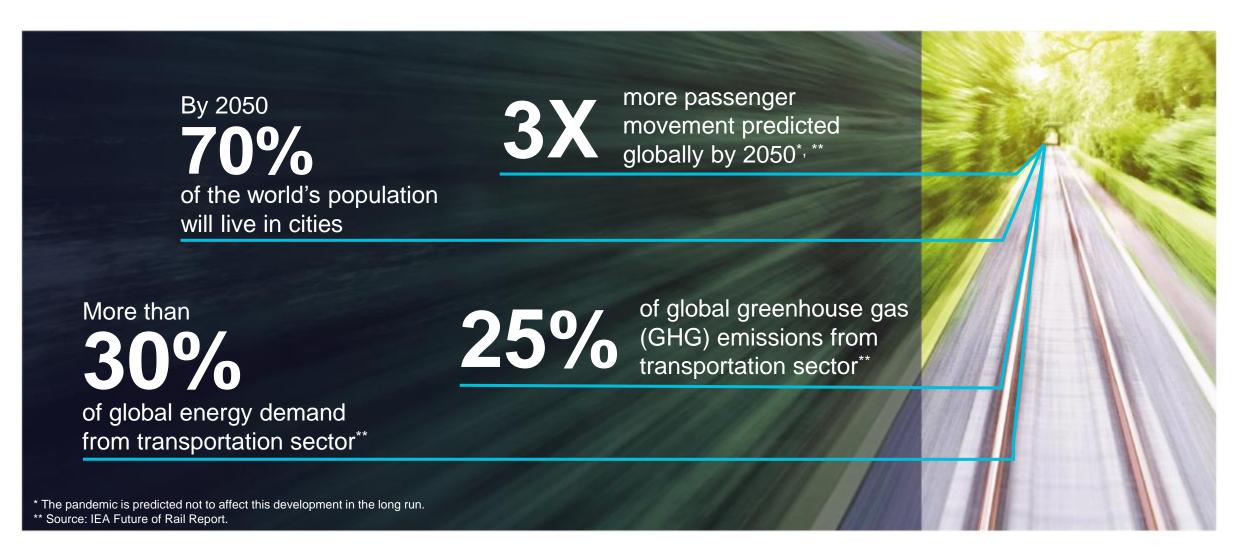
### **Globalization**



Due to increasing traffic, gas emissions will increase up to 60 percent by 2050

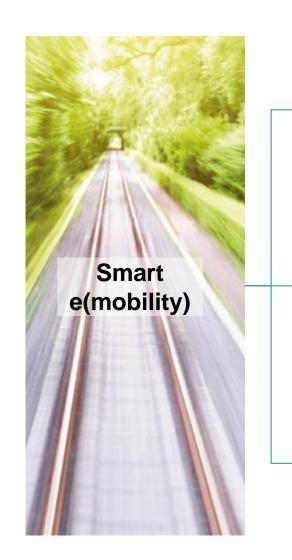


## ... and increase the need for sustainable mobility solutions





# Smart e(mobility) – an holistic perspective on solutions for public transportation



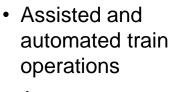
**Electrified** 



**Automated** 

Digitalized

- Rail electrification
- Battery and H2 rail solutions
- eBus solutions



- Autonomous shuttle / bus
- Digital twin
- Digital asset management
- Digital mobility platforms/Apps

Make trains & infrastructure intelligent



Increase value sustainably over the entire lifecycle



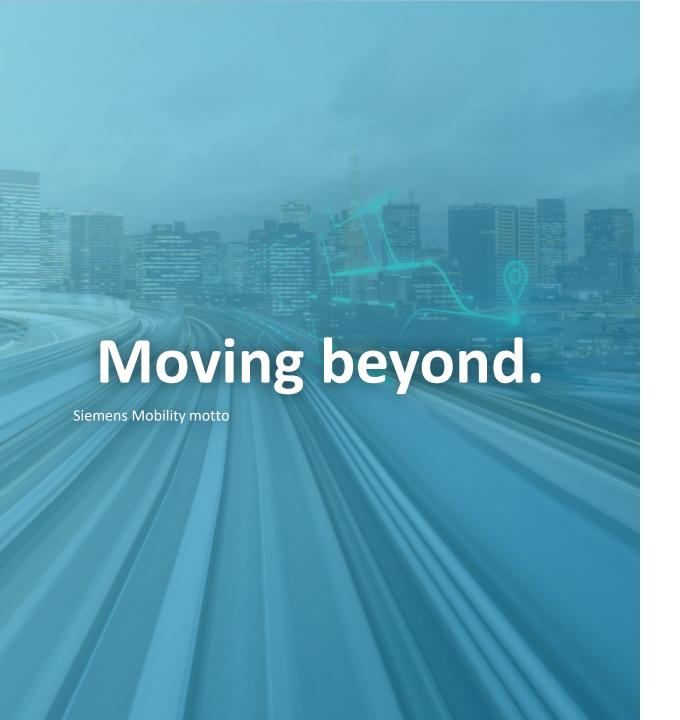
Enhance passenger experience



**Guarantee** availability







#### **Siemens Mobility vision**

We are global entrepreneurs, trusted by our partners to pioneer transportation, moving people sustainably and seamlessly from the first mile to the last.

#### **Siemens Mobility facts**

- ~40.000 employees worldwide
- > € 9bn revenue
- > most diversified and vertically integrated portfolio



# S-Bahn Hamburg, Germany

First highly automated S-Bahn pilot in Germany with ATO over ETCS (Level 2)





# First eHighway in Germany

High energy efficiency for truck transport





# Multimodal Trip Planning and Booking

Denmark







## Service Depot Dortmund for the RRX, Germany

Over 99% availability in the most densely populated area in Europe with real-time data monitoring and predictive maintenance





eBus

## **Kommt nocht**



# **Success for alternative drives**

Start of operation of ÖBB Desiro ML cityjet eco Kommt nocht



## **Key success factors to come from smart €mobility vision to reality**



