



Mobilität der Zukunft – Die Bedeutung von Geodaten

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Agenda



About HERE

Open Data Use Cases

Conclusion

The background features a dark grey base with several overlapping, semi-transparent teal-colored geometric shapes. These shapes include triangles and polygons of varying sizes and orientations, creating a layered, abstract composition. The teal color ranges from a deep, muted shade to a brighter, more saturated hue.

About HERE

HERE in numbers

200
Countries mapped

7,000+
Employees in 56 countries focused on delivering the world's best map and location services

Millions of changes made to the map **every day**

Today, HERE provides services to nearly all global OEM brands as well as many market leading brands such Microsoft, Amazon, Facebook etc.

30+
Years of experience transforming mapping technology

4 of 5 In-car navigation systems in Europe and N America use HERE maps



Your world in numbers

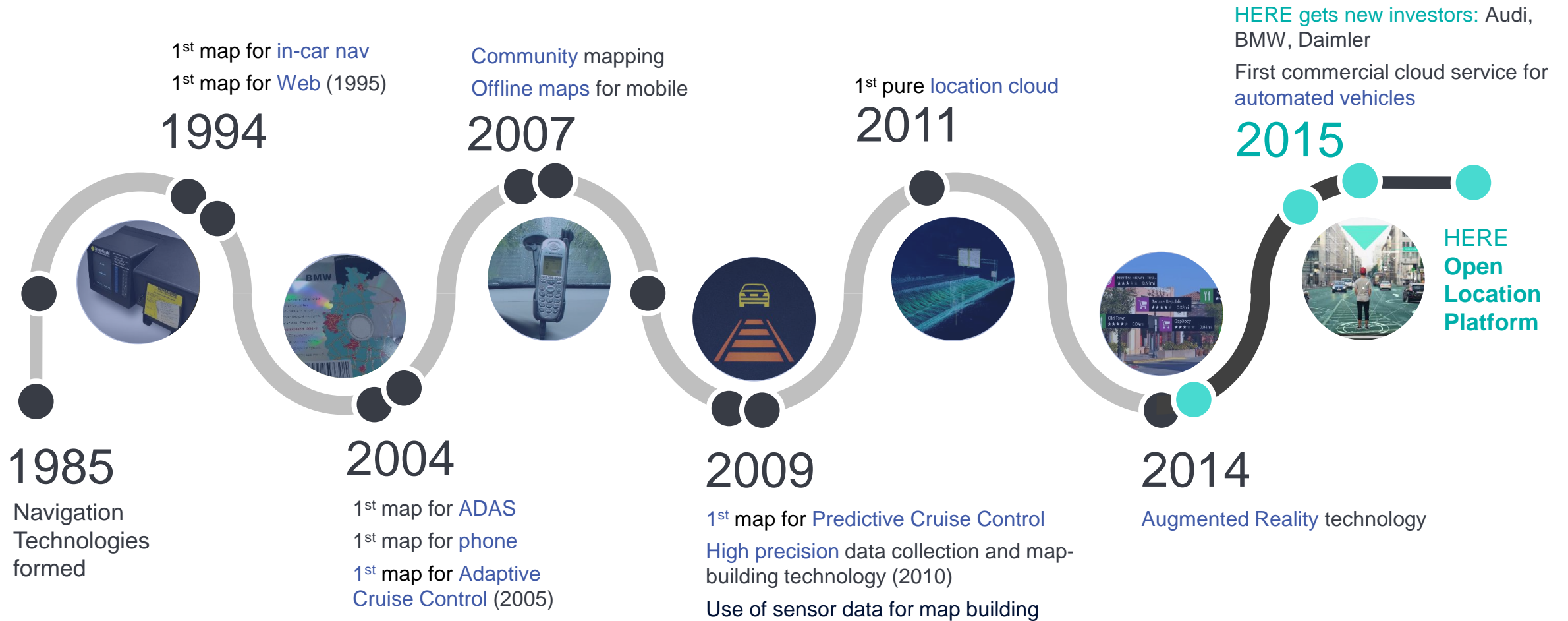
300% Increase CO2 emission from traffic congestion 2011-2021

Deaths every day in road accidents **3.5**

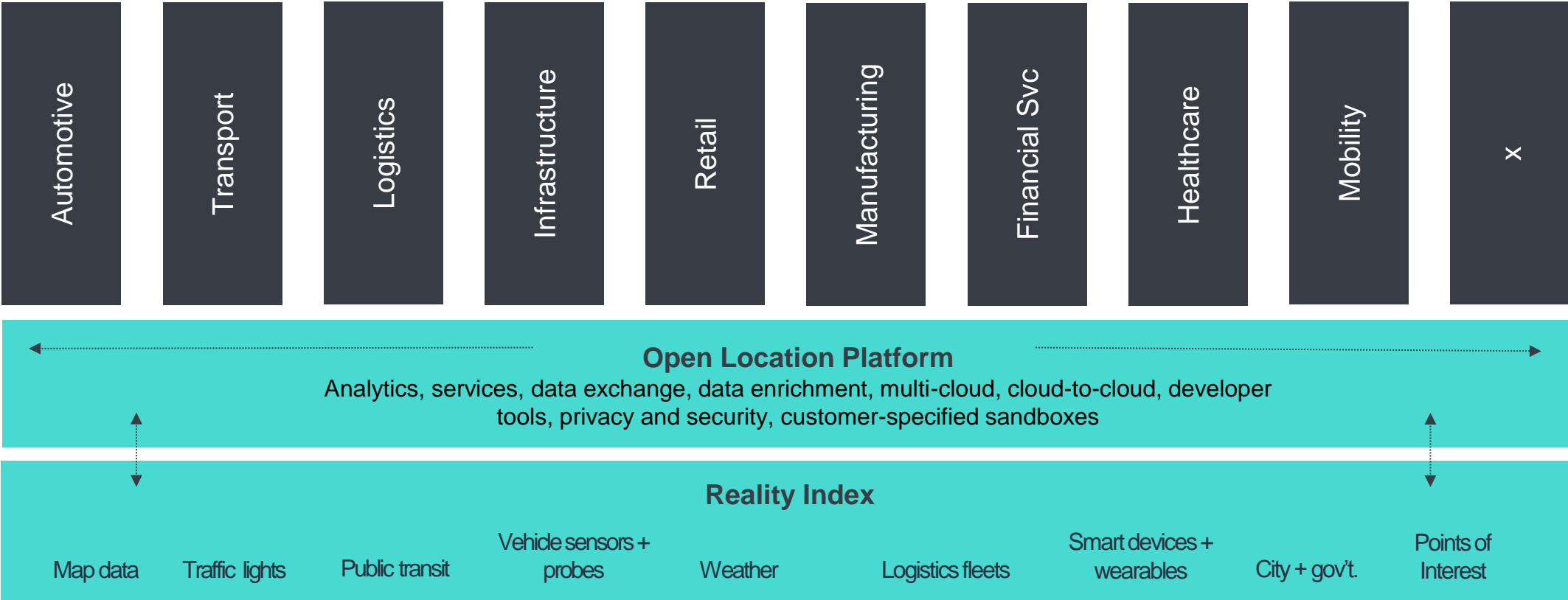
<0.5 K of all data today is ever analyzed and used

50% # of smart connected devices in the world, all developed to collect, analyze and share data by 2020

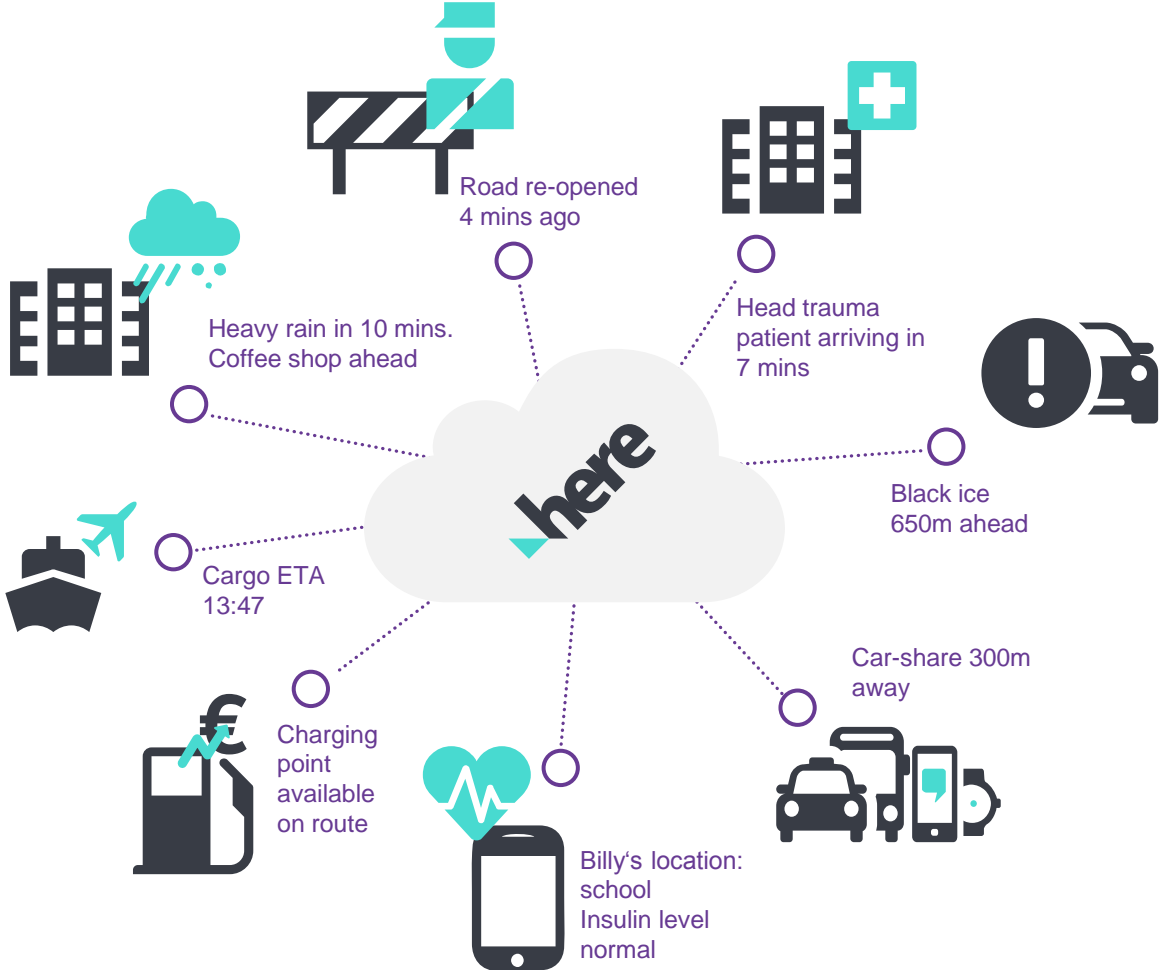
A history of transforming potential into meaningful products



Open Location Platform as the go-to destination for location services



The power of location



Open Data Use Cases

TN-ITS – Transportation Pilot

TN-ITS Service was first realized in Sweden and Norway in close cooperation with INSPIRE

Steady flow of changes (speed limits, truck restrictions) from the road authorities

Standardized process flow can be used for all new members implementing TN-ITS

New pilot running in 5 more member states (Finland, France, Flanders, UK and Ireland)

Explaining the process: from road authority to end user

Daily incremental updates



Statens vegvesen

Receive the updates
Decode the data
Match the data towards HERE database



Delivery



Monday

Friday





Metropole Ruhr:
Region with highest
density of Trucks in
Germany

Municipalities have
defined a network
of preferred routes
and collected all
Transport
Restrictions

Urban Compliant Truck Navigation

Data is free of
charge and open to
every service
provider

Regular Updates
are delivered

Urban Compliant Truck Navigation

HERE has implemented the data

First products with data from Metropole Ruhr are available since March 2015

Extension of the project to other cities and regions

Road Database Saxony

Road Signs from **LISt Gesellschaft für Verkehrswesen und ingenieurtechnische Dienstleistungen mbH**

Dataformat OKSTRA

Challenge: transform point information to line information

used to analyze speed limits in HERE Database





Example: Road Database Saxony

Conclusion

How does data exchange benefit the road authorities?

Traffic Routing

- Traffic routing according to traffic planning and concepts, **prevention of traffic jams**



Immediate Implementation

- Immediate implementation i.e. truck restrictions, **prevention of accidents and breaches of rules**



New Road Constructions

- New road constructions to be made available to end users for routing immediately after the official traffic release



Service Provider

New Services (Bike Navigation, On-Street Parking, Multimodal Routing)

New requirements in quality – semi automated driving, dynamic content, changes in real time

Easy Data Licensing and harmonized data formats

Data Provider

**Digitization
enables a more
intelligent use
of road
infrastructure**

**Routing follows
traffic
management,
impact on
navigation**

**Fast
implementation
of restrictions
(speed limit,
truck
restriction) →
reduction of
accidents**

**Economic
advantage for
the region**



Thank you

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