

Where innovation starts

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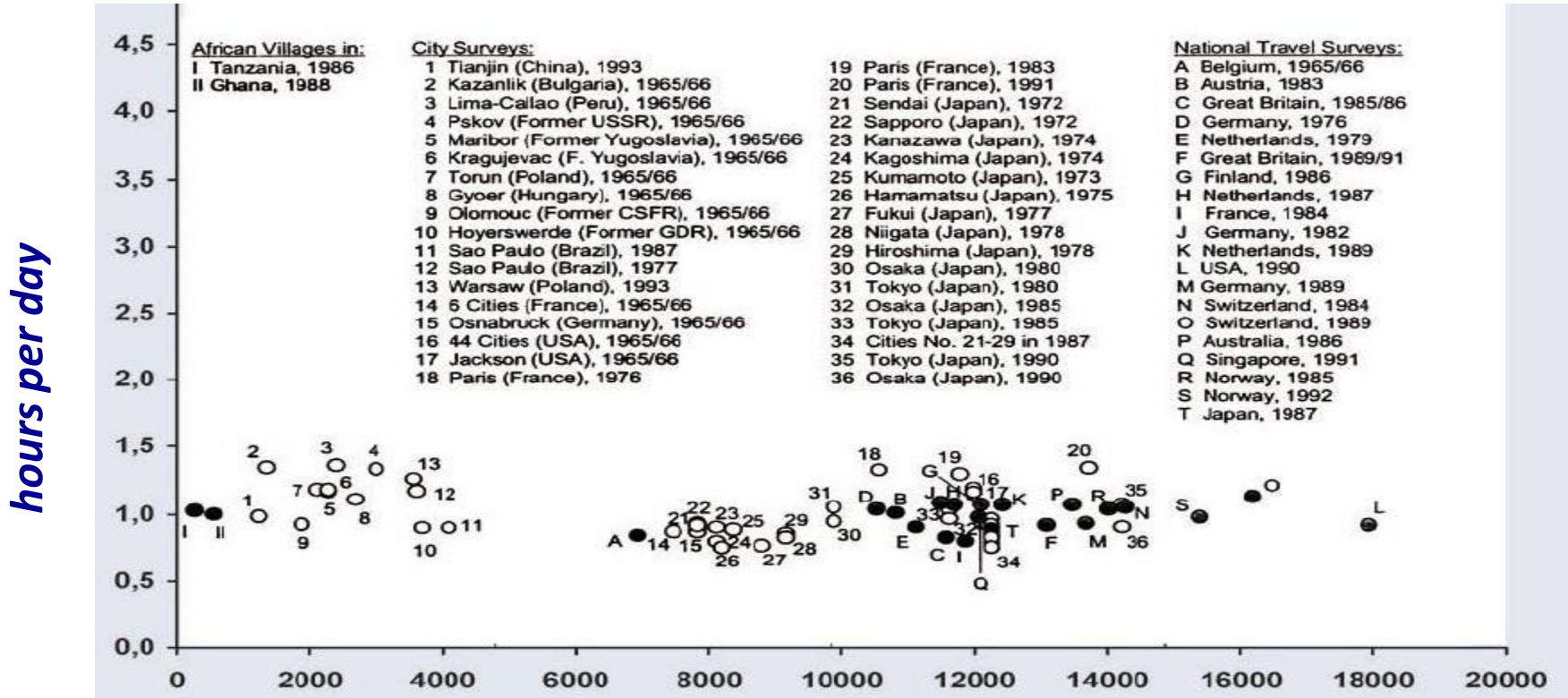
*Research and Innovation Challenges of
Connected and Automated driving*

CAD conference Brussels, April 3rd 2017

TU/e

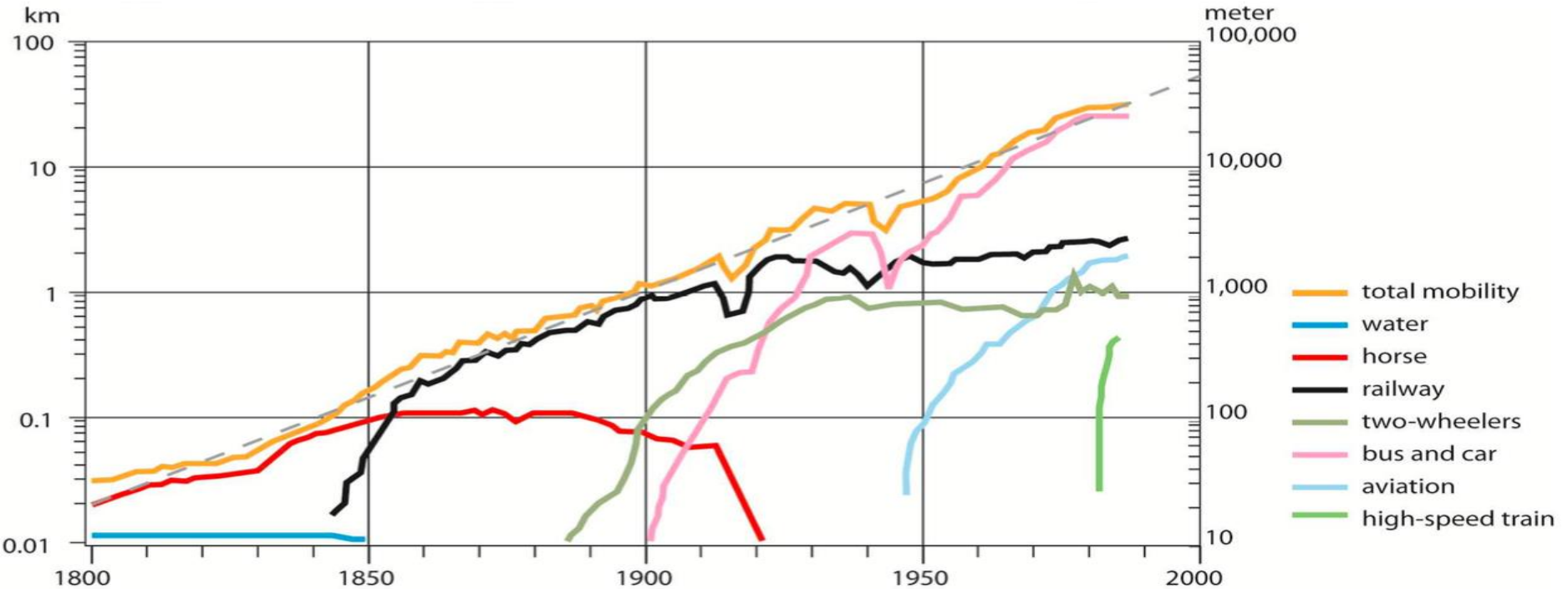
Technische Universiteit
Eindhoven
University of Technology

Marchetti's Constant



Gross Domestic Product (GDP) per capita

Daily mobility in passenger-kilometres (France)

















13:25
+20.5°C

D
44
- km
150327

Theses

- Cars will be inherently safe, through ADAS rather than autonomous driving
- Mobility will be clean, independent from CAD
- Connectivity will lower congestion. Automation will worsen congestion, but lower the congestion problem
- SAE Level 5 is a solution looking for a problem
- **Urban space is the major left over challenge for mobility**
- CAD R&I needed: cooperative systems, new mobility systems, crowd sourced HAD maps, Low-cost antenna radar, Privacy and (Cyber)Security, Infrastructure for Smart Mobility

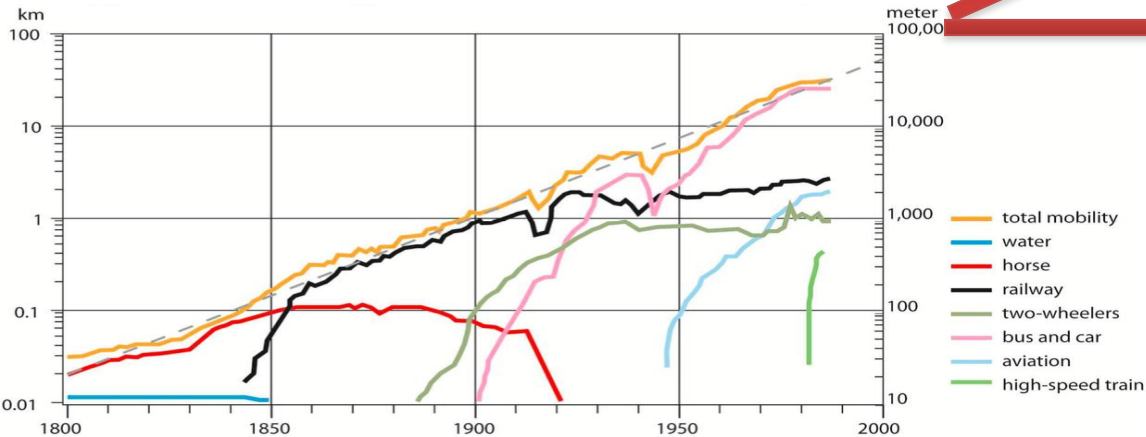
Quantity or Quality?

More?

High speeds trains,
hyperloops, planes,
asphalt, parking

Better?

Bikes, Liveable Urban
spaces, inherent safe and
clean transport, parks



Grübler 1990

