

How cities are getting smarter

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August 2018





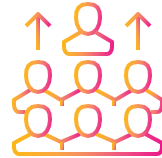
“Managing urban areas has become one of the most important development challenges of the 21st century.”

*John Wilmoth
Director of UN DESA's
Population Division, 2014*

City challenges



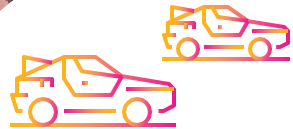
Growing & aging population



Growing work force



Huge market & costs



Increase in number of trips



Quality of air impacts health

1

Urban
populations
growing
massively

50% growth in 50 years '00 - '50
68% of world population by '50

90% of growth comes from ASIA

41 cities >10m. ppl by '30

Delhi, Mumbai, Bangalore

500 cities now with >1m. ppl

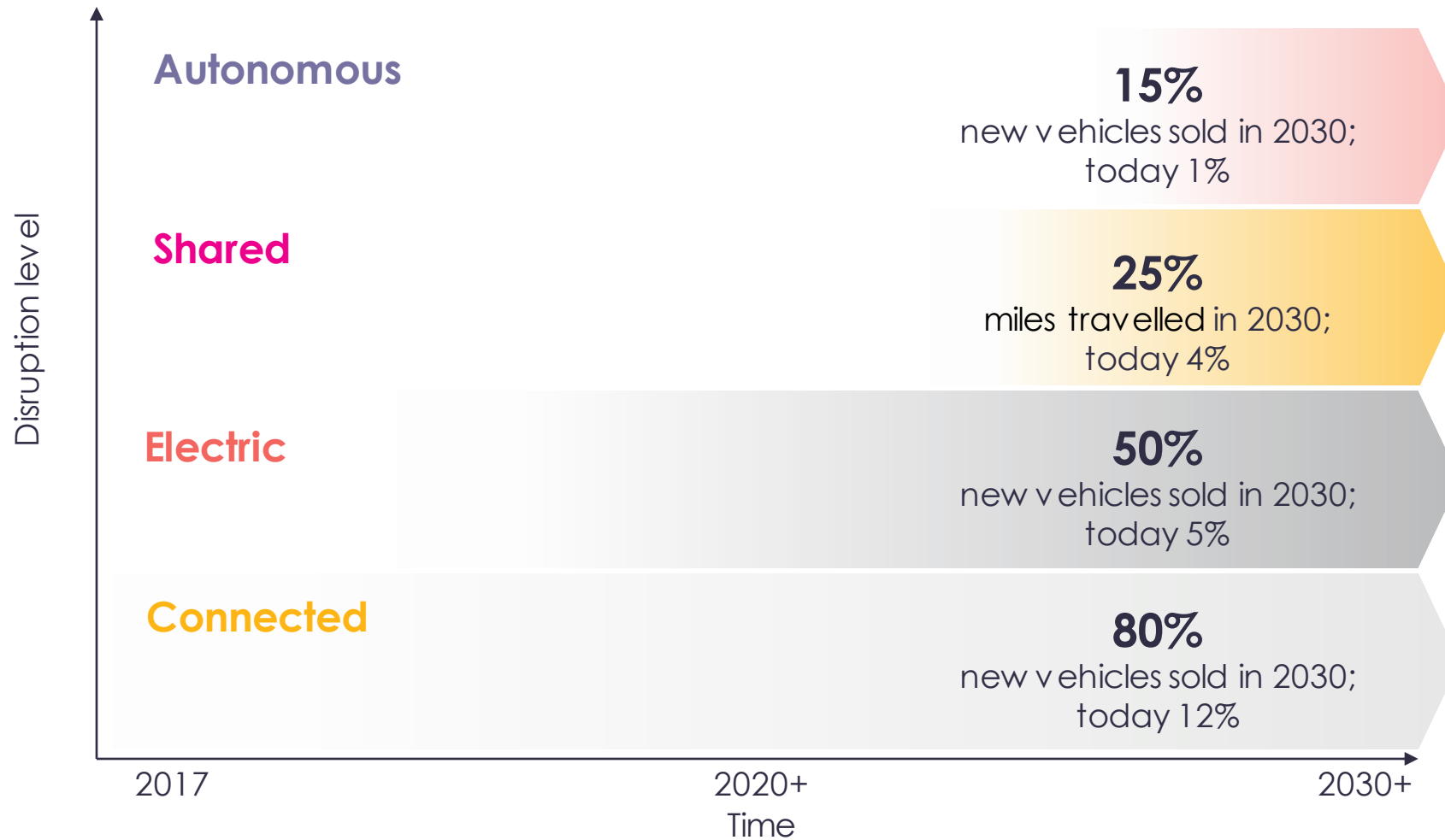
38 are in India

2

Mobility is a progressive, civil “right” that **can’t scale**

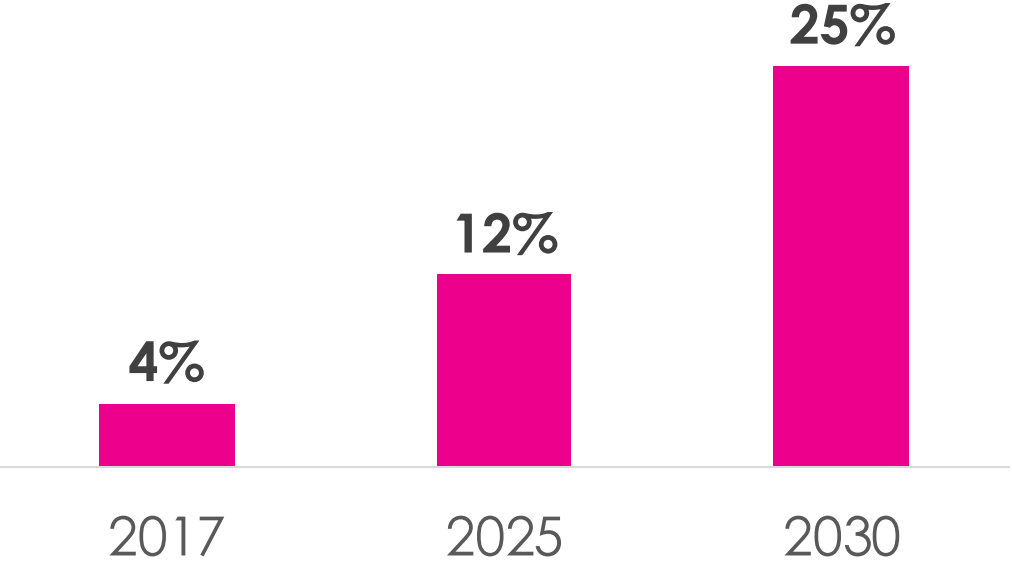
73% commute
> 90 mins/day

Four disrupting innovations

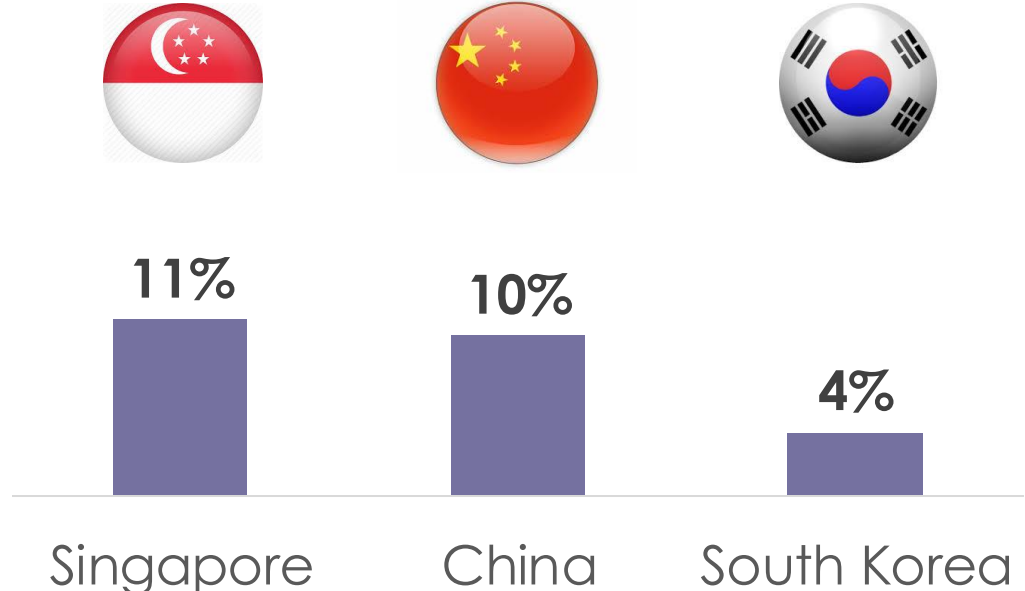


Accelerating adoption of “Mobility-as-a-Service”

Share of on-road passenger miles, Mobility-as-a-Service (2017-2030)



Leading countries in Mobility-aaS adoption (by % of vehicles on car parc, 2015)



Source: McKinsey, Morgan Stanley, Roland Berger BCG, Tech Crunch, Strategy&, public sources, team analysis

3

Multiple participants in multiple modes of transport, competing for limited free resources

people



goods



4

\$285B

Transport
tech mkt (2025),
most - in urban
mobility

€300B EU transport subsidies

5

Quality
of air
impacts
health

7 million deaths a
year due to pollution



What can cities do?

Technology: meet/beat future leveraging digital across key urban domains



Municipal operation

- Intelligent **street lighting**
- **Smart water** distribution
- **Waste collection** logistics
- Smart electric grid



Mobility

- **Public transport** optimization
- **Traffic** awareness & optimization
- **Parking** availability & charging
- Bike\car hourly **rental**



Citizens digital services

- **Online services**
- Tourists information **kiosks**
- Citizens' **special offers**



Safety and Security

- **CCTV** monitoring & analytics
- **Emergency response**



Connectivity

- City-wide **Wi-Fi** connectivity
- **LPWA** networks for IoT devices



Environment

- **Air quality** monitoring
- **Water quality** monitoring

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a digital customer management & commerce platform,
to rapidly & securely monetize any product or service.

Innovative
communications
challengers

1

MVNx

2

Beyond
telco

3

Smaller cable/
PayTV

4



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Thank you

