Intelligent transportation: compelling reasons and responses



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2 ways to deal with transportation challenges

(non mutually exclusive)



Analog, Physical: v1.0



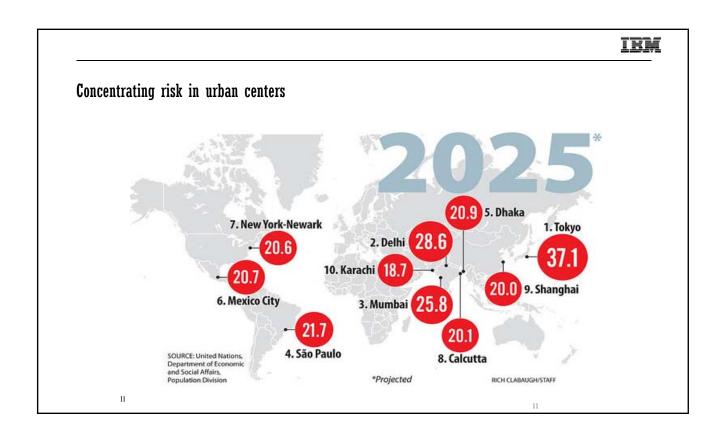




Other drivers for rapid adoption of intelligent transportation









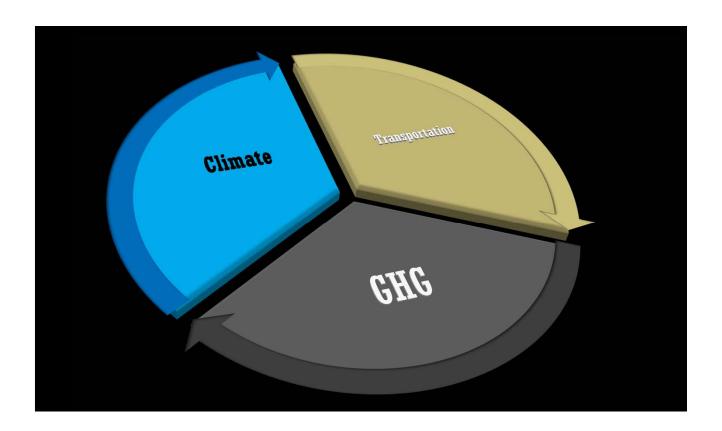


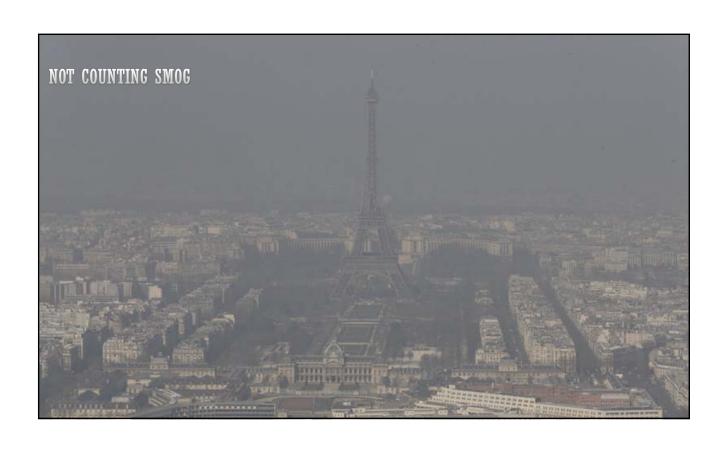


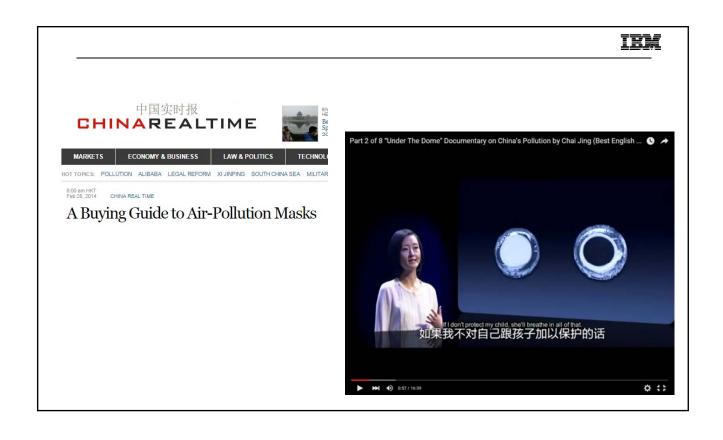




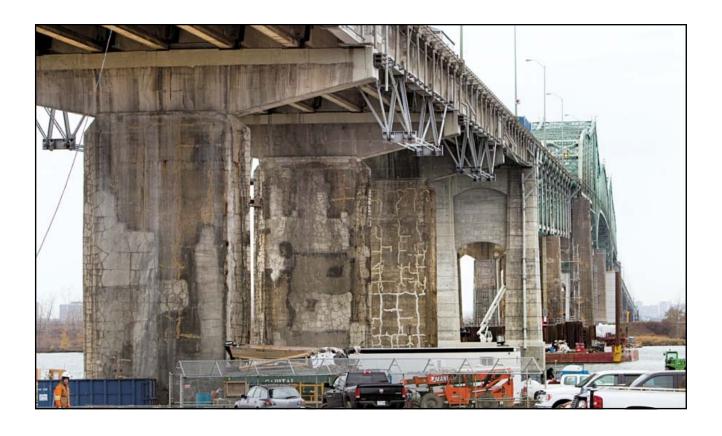














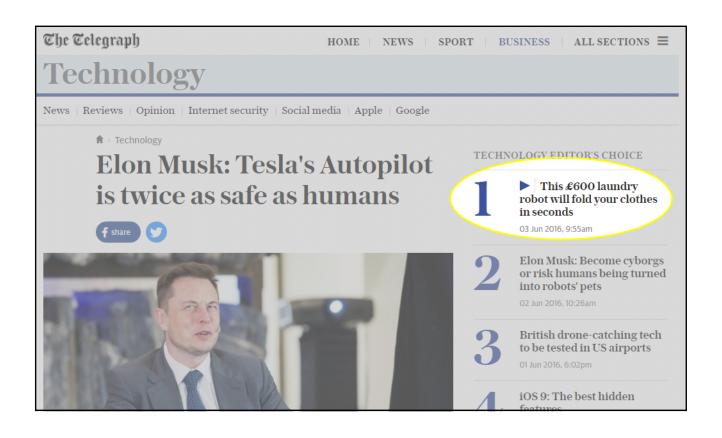




Annual Global Road Crash Statistics

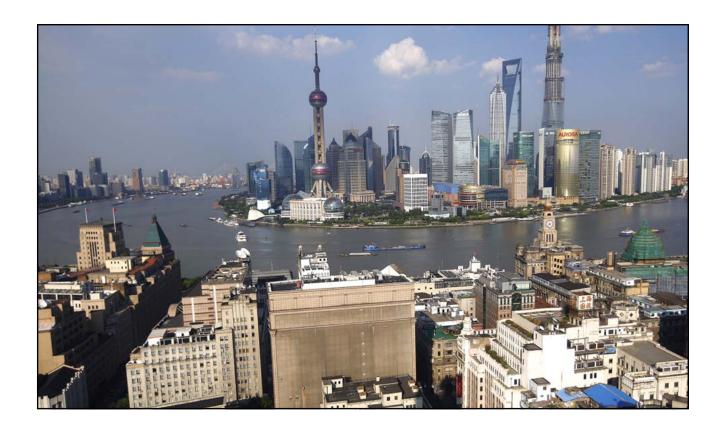
- 1.3 million people die in road crashes each year
 - 3,287 deaths a day (1,000 under 25)
 - 20-50 million injured / disabled
- 2.2% of all deaths globally
 - 5th leading cause of death by 2030
 - 9th currently
 - 1st for ages 15-29
 - 2nd for ages 5-14
- Cost USD \$518 billion globally, (1-2% of annual GDP)

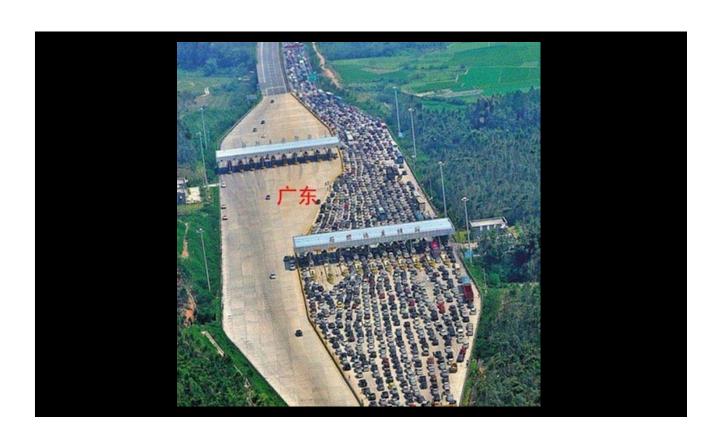


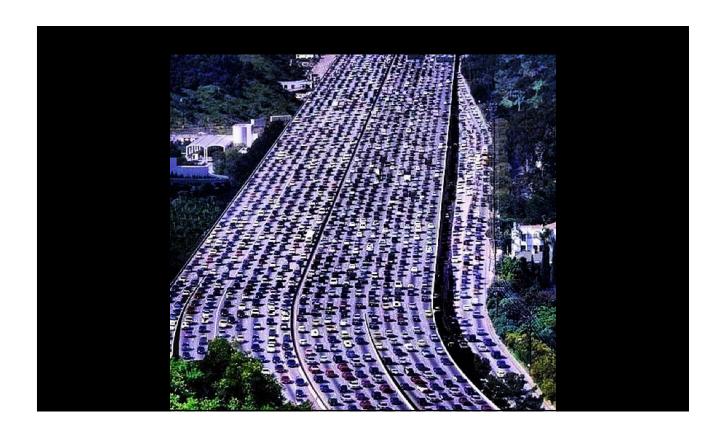










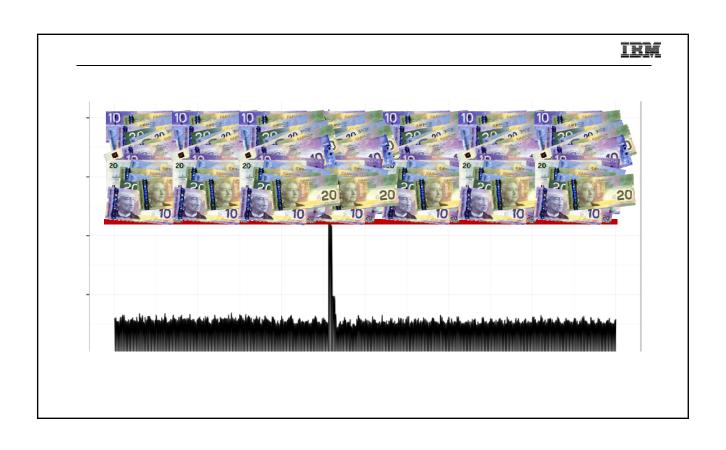


Downs-Thomson Paradox,
Induced demand









Reducing peak demand v1.0 (analog)













Banning cars



The Car-Free City

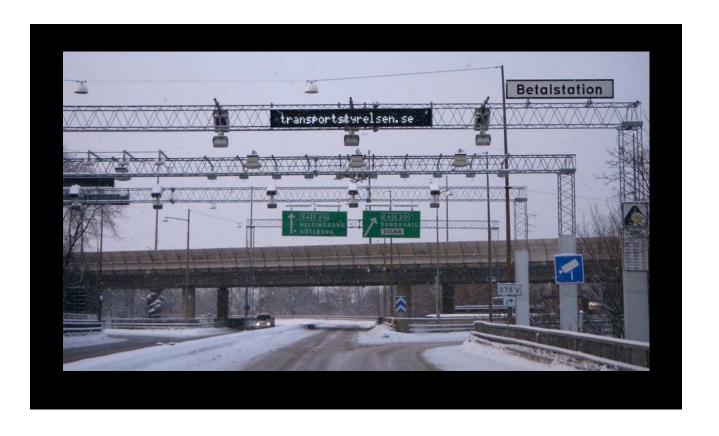
Oslo officials pledge to ban cars from the city's downtown area by 2019.

Smog-choked Paris forces half city's cars off the road and makes public transport free to fight air pollution

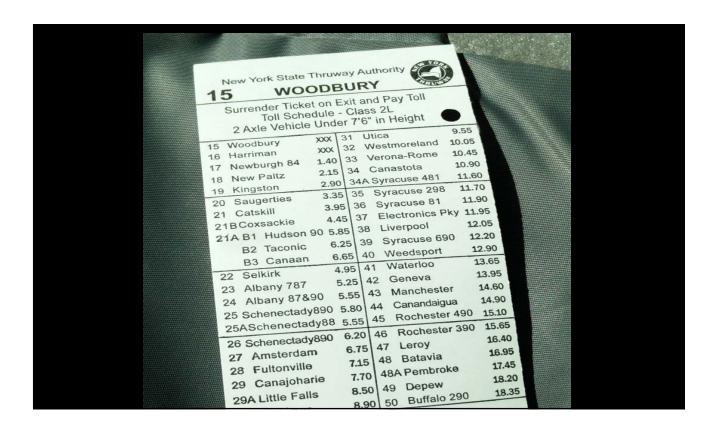
· Only vehicles with number plates ending in an odd number were allowed

Reducing peak demand v2.0 (digital: ITS)



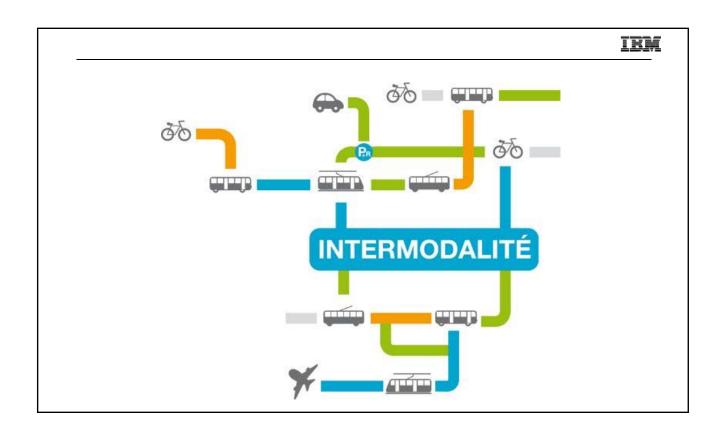










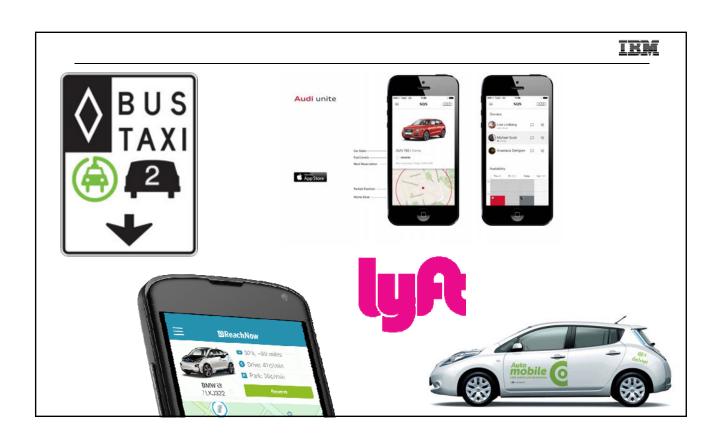


Mobility as a Service

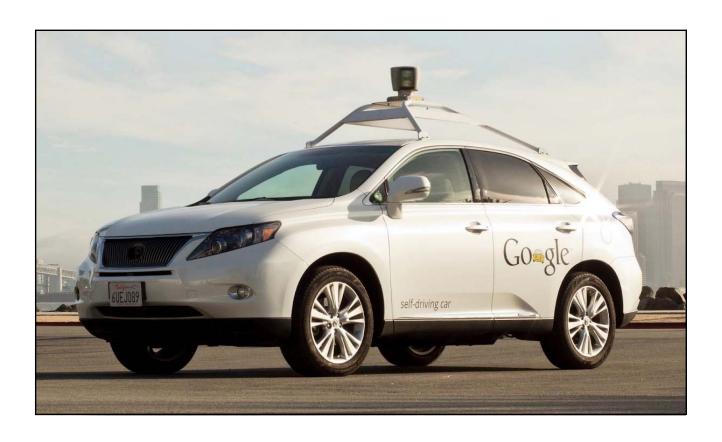
Death of the car: The tech behind Helsinki's ambitious plan to kill off private vehicles

By 2025, the Finnish capital will have transformed its public transport network – with the help from some clever analytics and more.









Huge impact of autonomous cars on...

- Parking space necessity
- Parking revenue
- Infrastructure
- Car ownership and sharing
- Need for traffic enforcement
- Long distance commuting
- Taxi, truck drivers
- · Mobility for the disabled and aged

