Intelligent transportation: compelling reasons and responses

2 ways to deal with transportation challenges

(non mutually exclusive)
Other drivers for rapid adoption of intelligent transportation
Concentrating risk in urban centers

SOURCE: United Nations, Department of Economic and Social Affairs, Population Division

*Projected
Athènes, Grèce
22 février 2013
Thames Meadow, Angleterre
15 février 2014

Toronto, Canada
8 juillet 2013
NOT COUNTING SMOG
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)
Elon Musk: Tesla's Autopilot is twice as safe as humans

1. This £6000 laundry robot will fold your clothes in seconds
   01 Jan 2016, 9:55am

2. Elon Musk: Become cyborgs or risk humans being turned into robots' pets
   03 Jun 2016, 10:26am

3. British drone-catching tech to be tested in US airports
   01 Jun 2016, 6:03pm

4. iOS 9: The best hidden features
6/23/2016 Transdev + IBM: Plus loin que les SAEIV3
Downs-Thomson Paradox,

Induced demand

Answers?
Downs-Thomson paradox,

*Reduced demand*

Traffic evaporation
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)
Lucky driver
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.
All these car manufacturers own or plan a car sharing service
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
Thank you