

Hoe verkeersdata de logistiek en het verkeersmanagement drastisch efficienter en effectiever maakt

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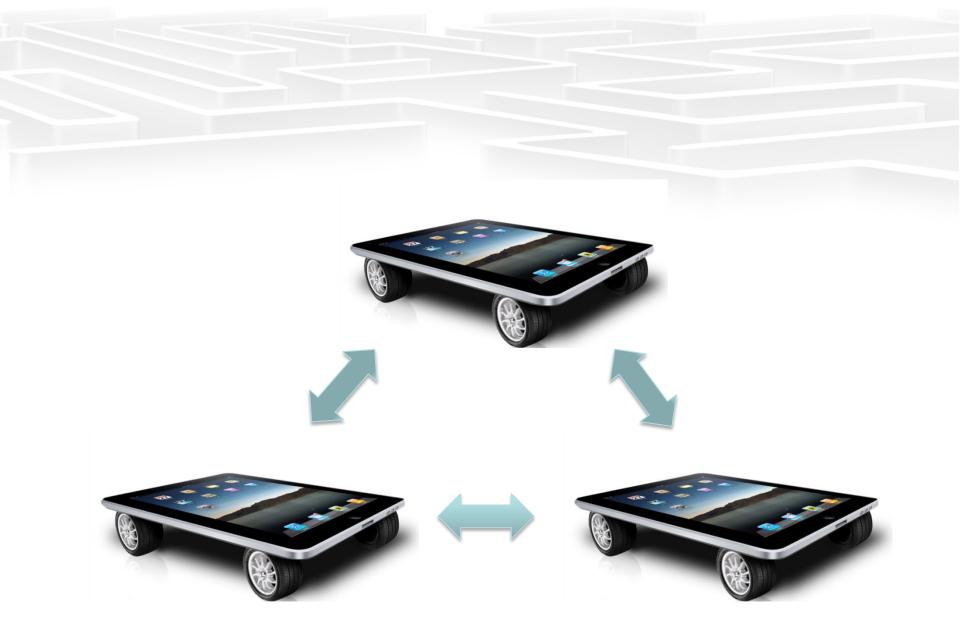
CWI in Bedrijf 2012; 5 oktober 2012, Amsterdam



Smart Mobility: Mobility with brains









TomTom

Founded 1991

Revenue:

- 2001: 2M,
- 2002: 8M
- 2003: 40M
- 2004: 192M
- 2005: 720M
- 2006: 1364M
- 2007: 1737M
- 2008: 1674M
- 2009: 1480M
- 2010: 1521M
- 2011: 1273M



Core activities:

- Customer support
- R&D
- Marketing

tomtom (de (m.); -s) autonavigator, m.n. van het merk TomTom® tomtommen (onoverg.; tomtomde, h. getomtomd) met een navigatieapparaat in de auto rijden, syn. navigeren Countries where we sell our PNDs



Portfolio









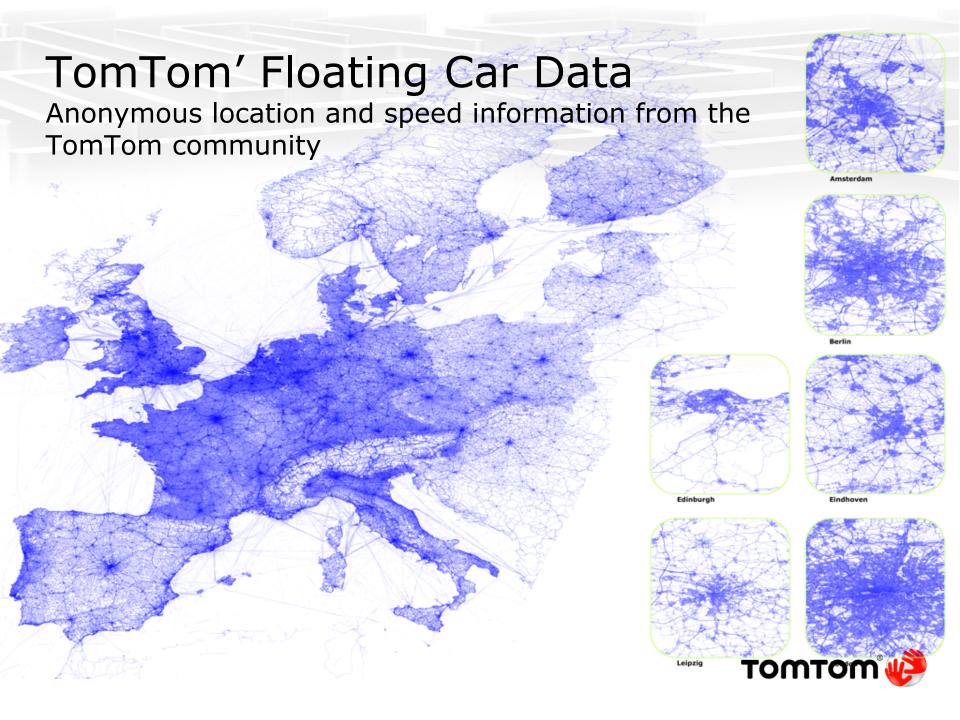
Using Community Feedback

- TomTom has more than 80 Million customers
- Most of them are willing to contribute to make TomTom's systems better (eg Mapshare)
- TomTom uses it's <u>connected navigation</u> strategy to establish this



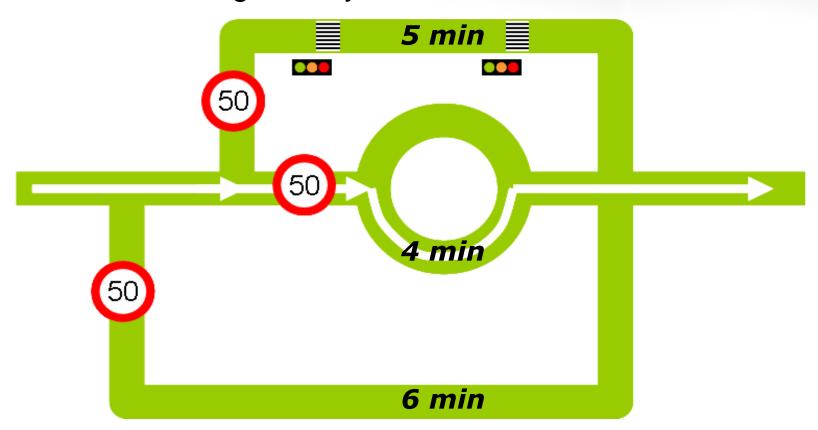






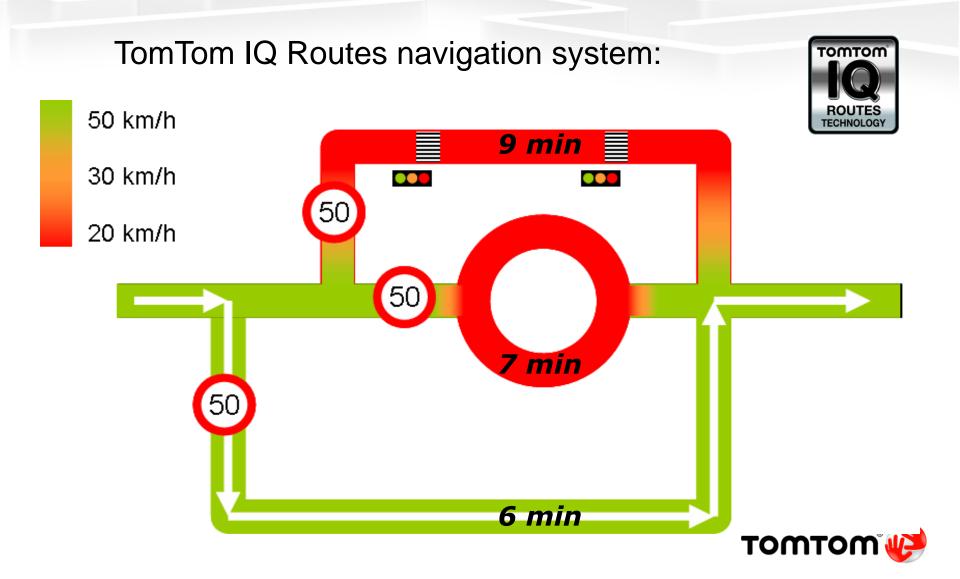
Using Community Feedback for Better Routing

Traditional navigation system:





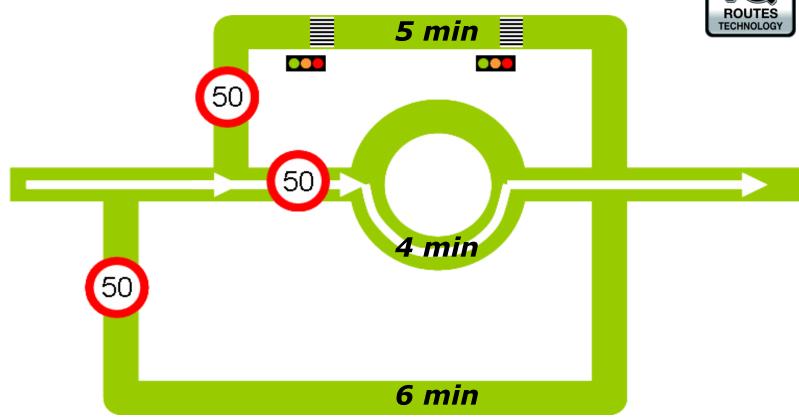
Using Community Feedback for Better Routing



Using Community Feedback for Better Routing

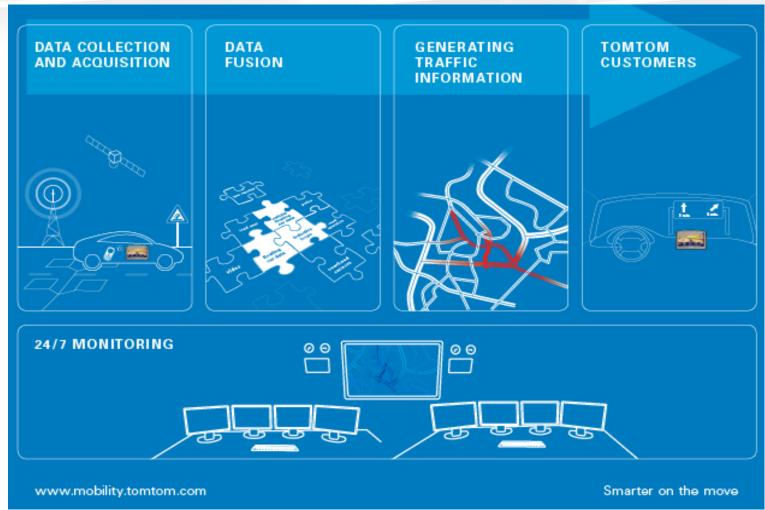
TomTom IQ Routes navigation system during night:







Most accurate FCD based real-time traffic



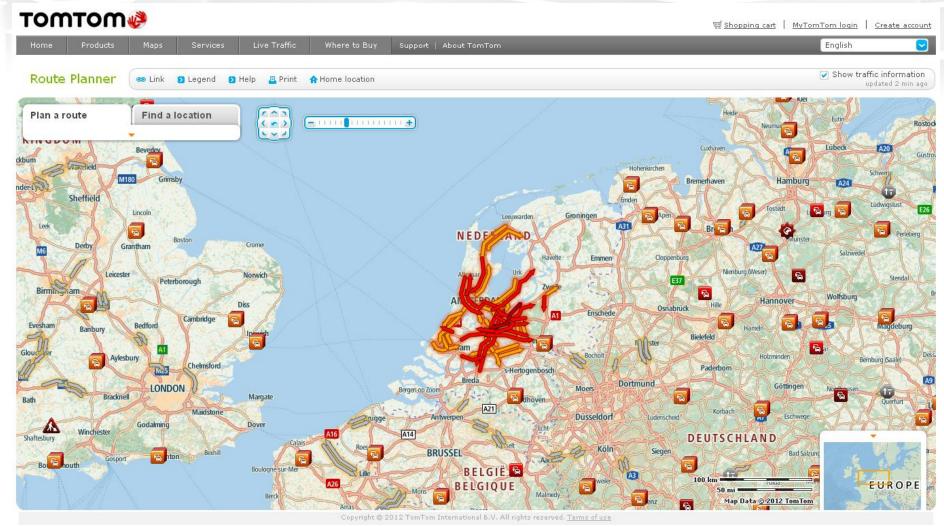


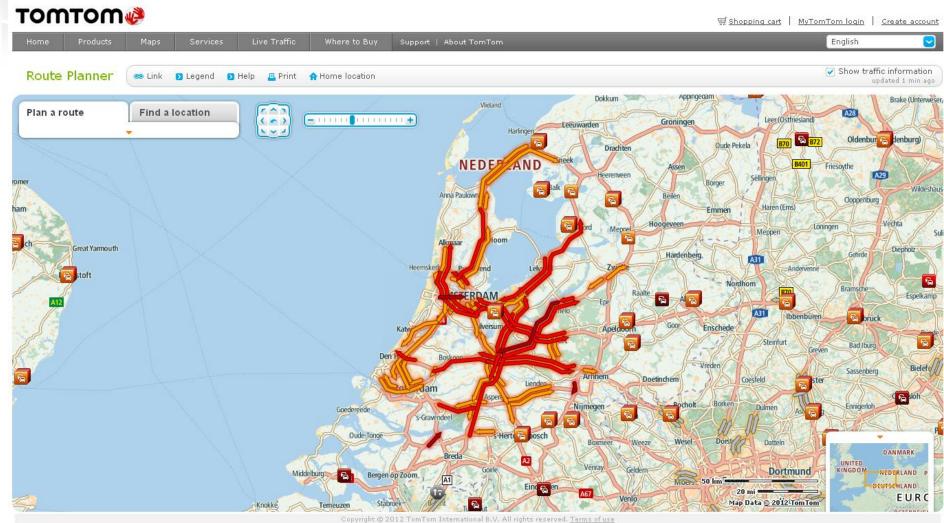


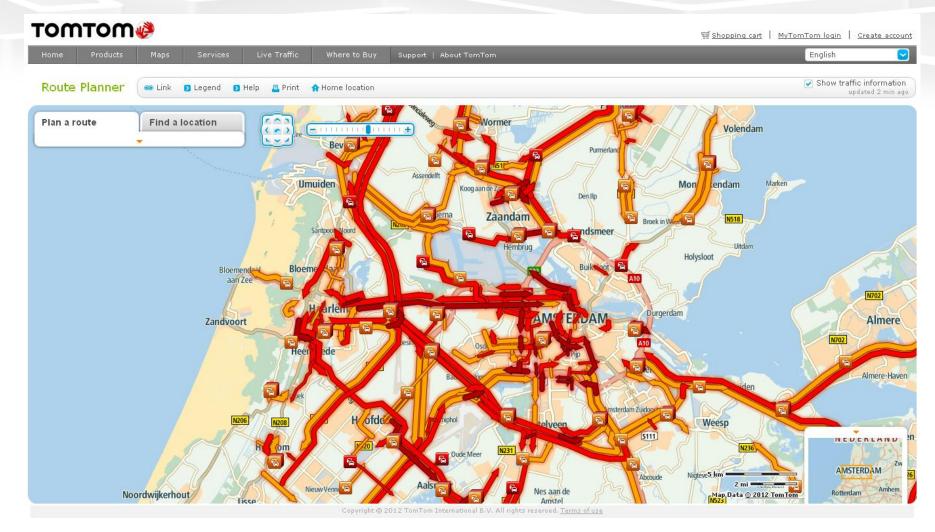
February 3rd, 2012. 11.45; Snow in the Netherlands



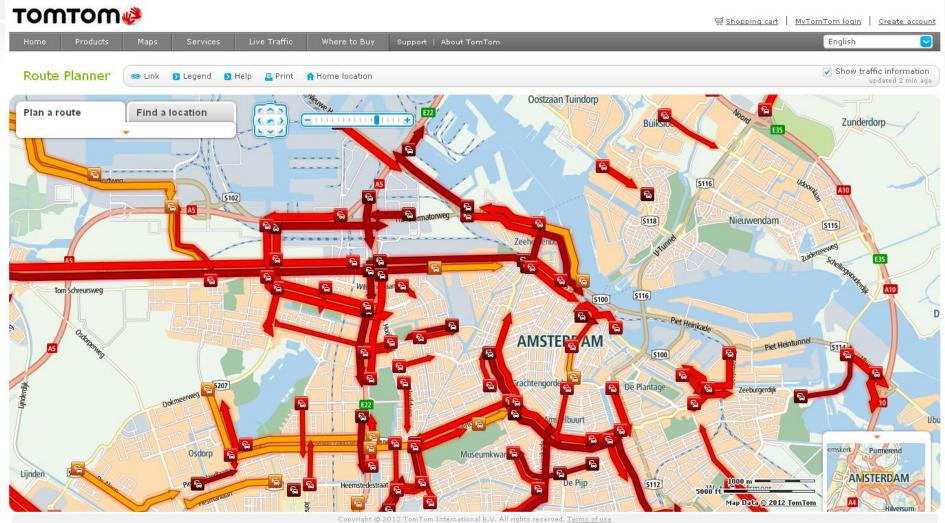


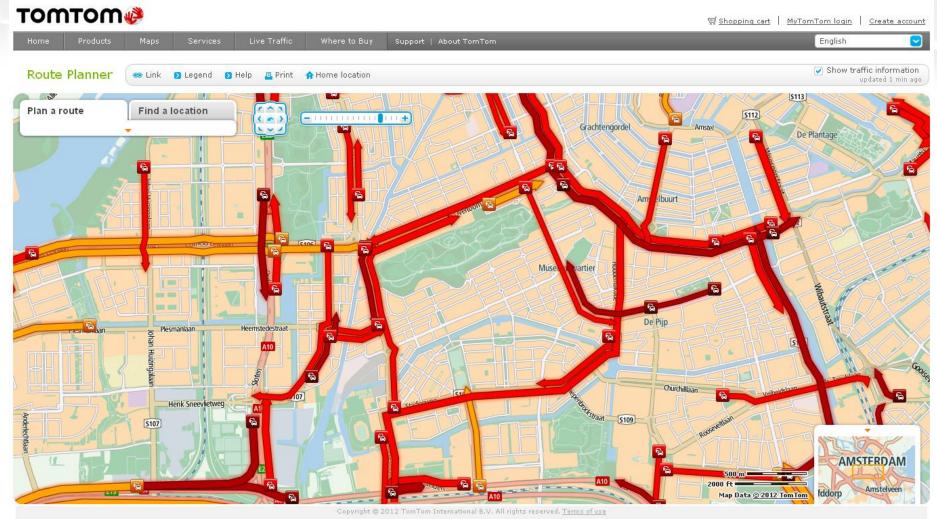












Value proposition for B2B and B2G

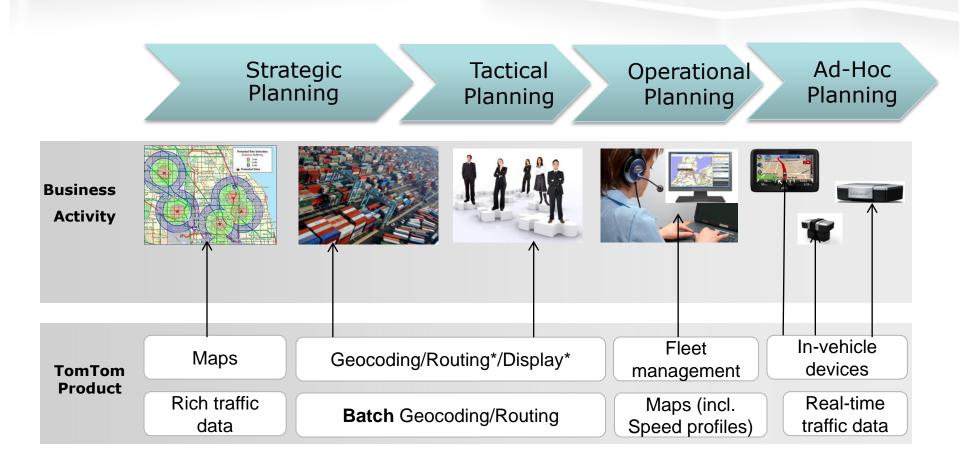
TomTom extends the value of its

- 1. Dynamic Traffic feed and
- 2. Historical Database

...to business and governments and jointly make traffic management drastically more efficient as well as effective...



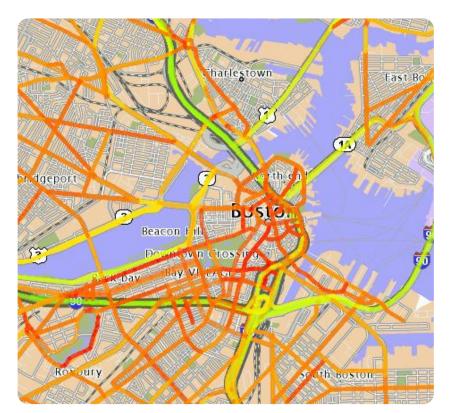
Conclusions: TomTom for smarter logistics





Example: HD Flow

- Real-time speeds for the entire road network
- Updated every minute with either TMC or OpenLR location referencing
- XML feed in Datex2 for server to server communications
- Uses real-time probe measurements with historical data in the background







Traffic Management process





The current Traffic Management process

Traffic Management Centers

Low degree of automation, high human capital cost, inflexible, only feasible for big cities or regions

2. Decide

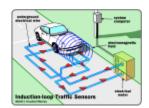
& Control



1. Measure

Data-acquisition erpret

Infrastructure based, high cost, high maintenance, non-scalable equipment





3. Communicate

Top-down traffic control

Influence drivers behavior via top-down traffic management using public signing



Traffic Management 2.0

Traffic Management Centers

More data leads to increased automation

PUBLIC >>



Decide & Control





<< PRIVATE



Measure

& interpret

& Inter

Communicate

& influence





Buy data

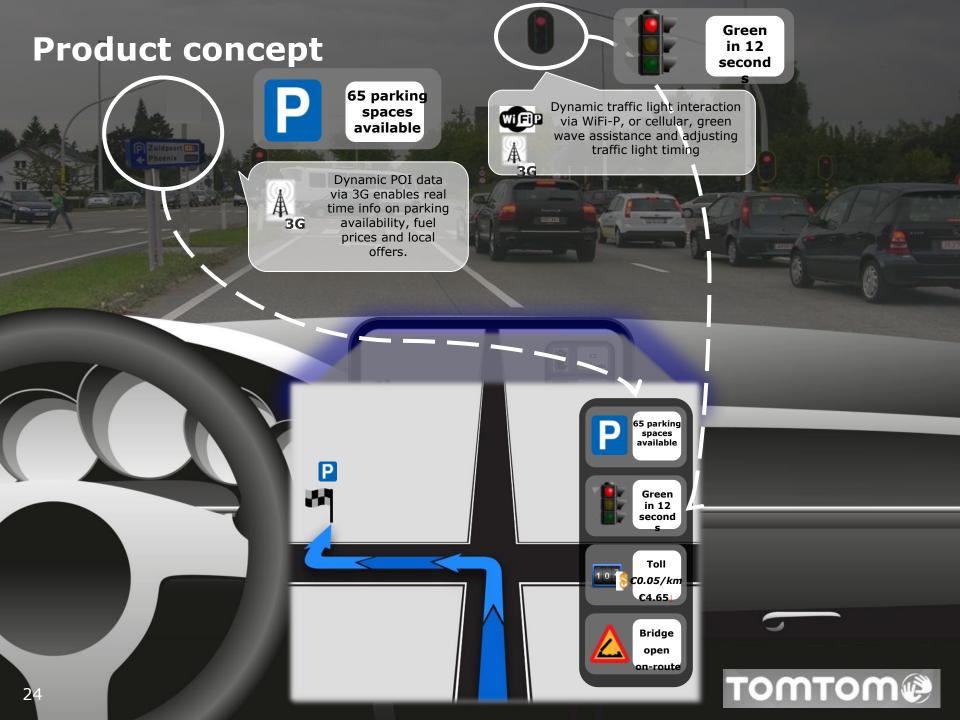
Data offered by market

Source: Team analysis

Communicate in-car

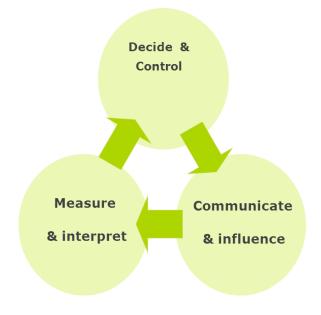
In Public Private Partnerships





In-car Centric Traffic Management's win-winwinners:

- Government: Save money, receive more and better data, better traffic management
- 2. Consumer: Better routing experience, better information, cleaner, safer and more efficient driving
- Industry: Revenue from road authorities (data) and consumer market (new in-car solutions)





A vision into the future:

- ICT and traffic data will significantly raise efficiency in transport and logistics
- In the future, nobody can outsmart the car. Neither the driver, nor the road authorities. Let's make use of that
- In the future cars will have no pollution and will be inherently safe, and being in a traffic jam will be a predictable and voluntary happening
- To stimulate the innovation in traffic management, Road Authorities should withdraw from traffic information as well as data acquisition. Roads will be twodimensional again



Thank you

Any questions?

