Examples of the use of GNSS in transport



Robust satellite positioning and ITS in practice Conference, Prague, 23.1.2012



Opening of the session

- Vision of Transport
- Digital world
- GNSS in ITS
- Session topics and participants

Roman Srp ITS&S - Sdruzení pro dopravní telematiku r.srp@sdt.cz, www.sdt.cz, www.telematika.cz









Vision of transport

Year 2913?

IRE (Institute of Radio Engineers) in 1962 on traffic in 2012:

Cars do not run on gasoline but on electricity, because there is more oil on the planet.

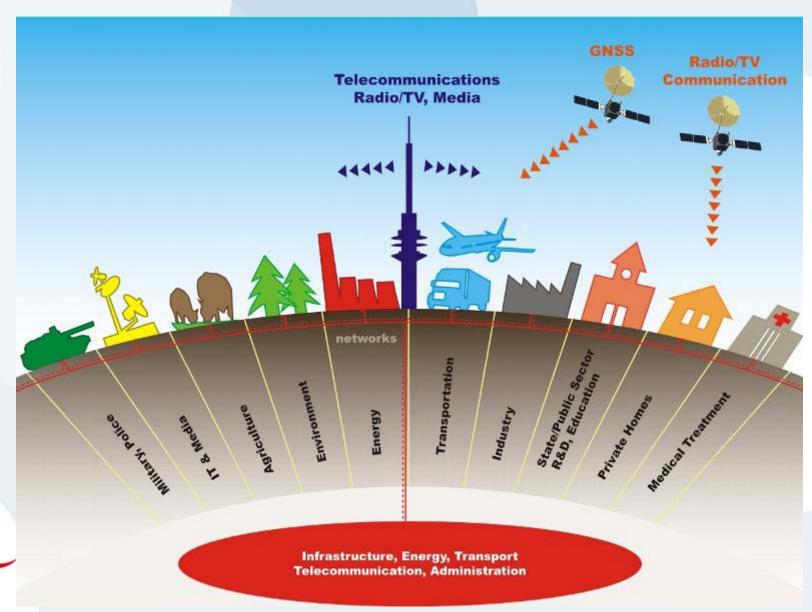
Cars have their own communication system, so they do not need such as brake lights.

Drivers do not need to drive:

precision satellite navigation system leads cars in streets.

Aktualne.cz, 01/05/2012, Zuzana Kleknerová

We live in a digital world





We more and more depend on digital world





We live in a digital world





Let's improve its functions to achieve higher safety and better quality of people's life and cleaner environment.





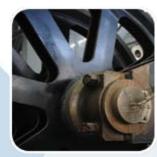






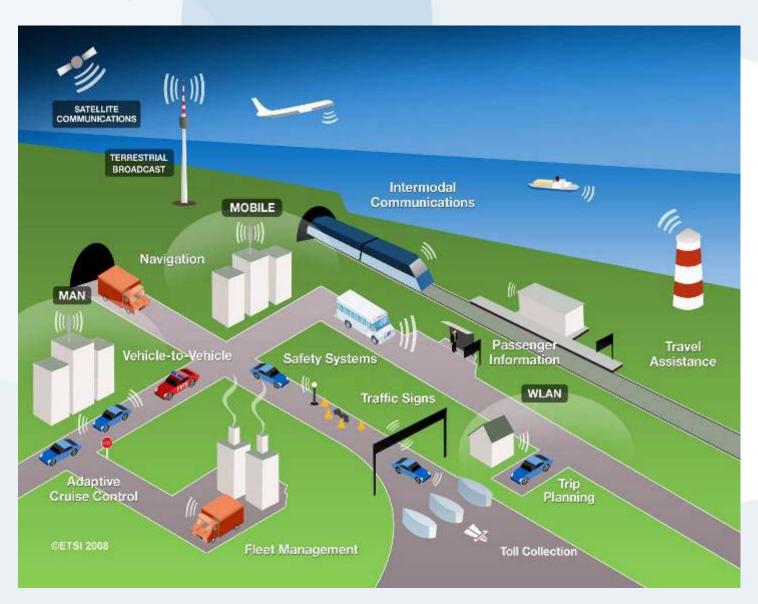








Intelligent Transport Systems & Services





Transport telematics (ITS) acc. ITS&S

- ITS integrates electronic communications and information technologies (ICT) with transport engineering in order to optimize transport and forwarding processes.
- It is an instrument of a sustainable transport helping to better economy, ecology and safety (= smart, safe & clean).

Macro functions

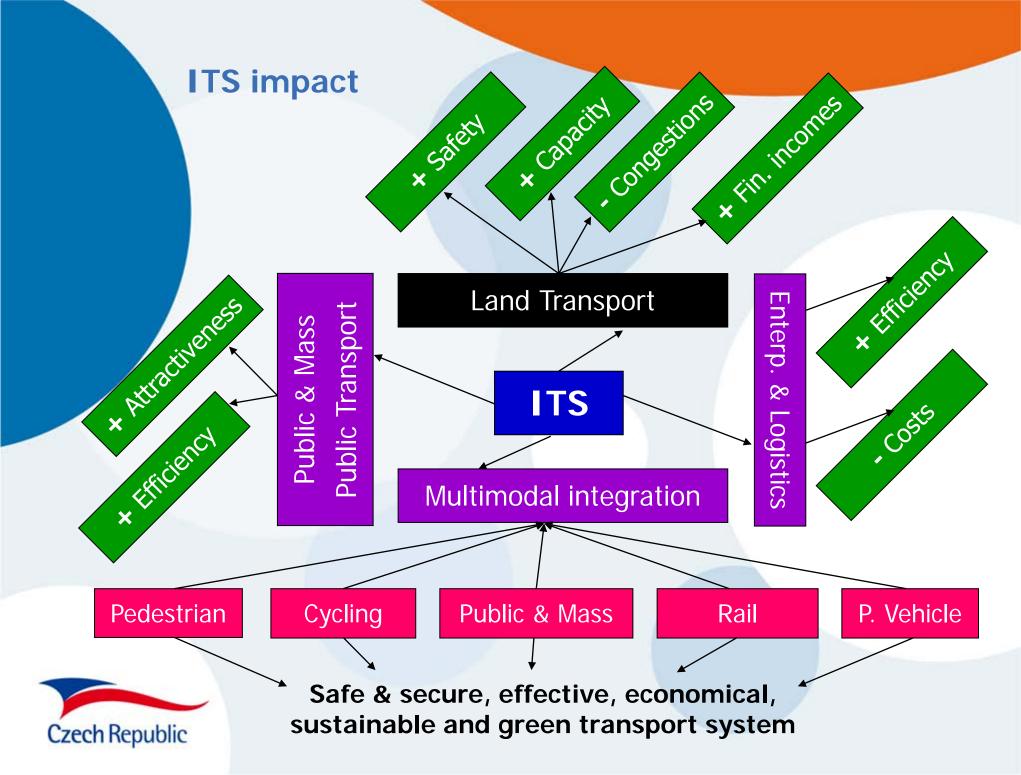
- Electronic payments
- Rescue services
- Traffic management
- Public transport management
 - Intelligent vehicle
- Journey planning & information provision
- Fleet and freightmanagement
- Enforcement











GNSS Apps. Examples to be introduced

CAR NAVIGATION (T1)

SECURITY AND FLEET MANAGEMENT (T2)

ITS

Galileo

EGNOS, DGPS

GNSS today

TRAFFIC MANAGEMENT & INFLUENCE ON TRAFFIC (T3)

PUBLIC MASS TRANSPORT (T4)

