

# **Efficient network operation through the use of ITS**

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# CONTENT

- SRA in brief
- The Swedish approach to Network operations
- A national ITS strategy for 2008-2012
- Some examples
- Summary and conclusion

# SRA in short

- Sectoral responsibilities (for the whole road transport system)
- Role as a public authority (within road transport sector)
- National road management (for state roads, 98 200 km)
- Contracted works (net turn over SEK 6,0 billion)
  
- 6 500 employees
- Volume of works SEK 23,3 billion

# The Swedish approach to Network Operations

- The traditional role of SRA has changed
- A concrete vision
- Increase customer-orientation in management
- Increase co-operations with other stakeholders for better services to our customers
- Organisational changes
- More productive and efficient work processes
- New measures (ITS for example)

# We make the good journey possible

Focusing on people, the Swedish Road Administration creates opportunities for efficient, safe and environmentally-sound transport for individuals and the business community.



# Pressure is increasing



- **More vehicles**
- **More frequently travelling**
- **Alternative to building new roads**
- **Use of 4-step planning model**

# The Swedish Transport Policy

- A sustainable transport system
- Multimodal transports are to be promoted
- New technique should be used
- Improvement of traffic safety, traffic flow and traffic information
- Sweden shall provide unique test sites for the use of innovative ITS solutions

# Intelligent transport- systems (ITS)



- **Safer and more efficient mobility of people and goods**
- **Increases accessibility**
- **Decreases environmental impact**
- **Cost efficient**





# Overall focus up to 2012 – 5 main areas

1. Improve road safety
2. Facilitate efficient commuting
3. Support more efficient commercial transports
4. Provide quality-assured road and traffic data
5. Develop efficiency and reliability in the work on ITS



# Traffic Information Services

- **Mobility services which make transport of people and goods safer, more secure, efficient, comfortable and environment-friendly**
- **Inform about roads and traffic to facilitate pre-trip planning and on-trip planning (radio, VMS, Internet, SMS etc)**
- **Standardised information services (24-7)**
  - Incidents and accidents
  - Road work
  - Road weather information
  - Travel time
- **Performance measures**
  - Congestion index (on specific road segments)
  - Customer satisfaction index



# The use of ITS for improved traffic safety and accident prevention

- **Intelligent Speed Adaption**
- **Alcohol Ignition Interlocks**
- **Seat Belt Reminders**
  
- **Trials with variable speed limits**
- **Speed Surveillance with cameras**
- **Traffic Management Systems on roads with heavy traffic**
- **In Vehicle Safety Systems (IVSS)**
- **eCall**
- **Improved Traffic Information Services**



# Traffic Management Systems

- Highway control systems and queue warning systems are used on multi lane highways that are heavily trafficked.
- The aim is to improve traffic safety and to achieve more efficient use of the roads.
- All regulations towards road users occurs through lane-signals which are mounted on portals above the road



# Moving towards Co-operative systems

*System that allows communication between vehicles and with infrastructure to improve the systems and services available to drivers and other road users.*

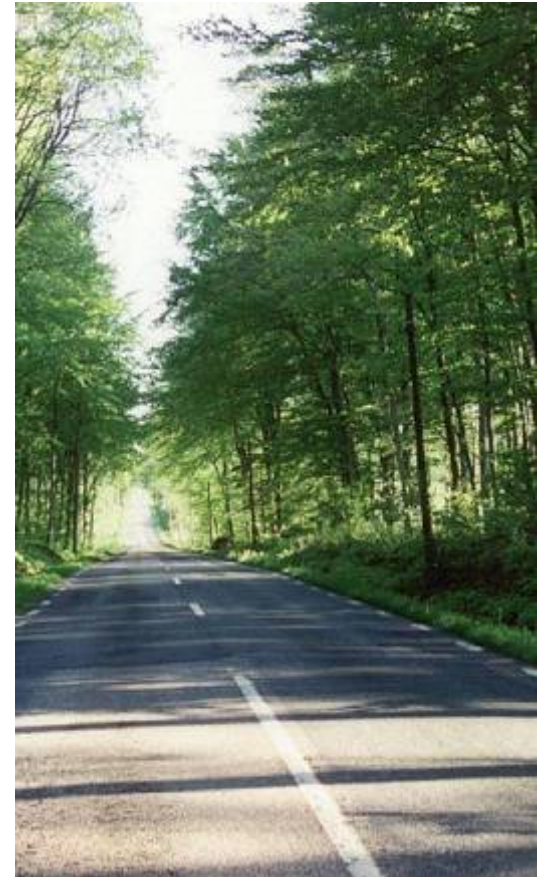
They will provide for significant improvements:

- Greater transport **efficiency**
  - Making better use of the capacity of the available infrastructure
  - Managing varying demands
- Increased **safety and comfort**
  - Improving the quality and reliability of information used by advanced driver assistance systems
  - Allowing the implementation of advanced safety applications



# More stakeholders must co-operate

- *Research*
- *Industry*
- *Public authorities/road operators*
- *Drivers*
- *The public*
- *Politicians*
  
- *National and international*



**Thank you for your attention!**

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