



# UIC Asset Management Global Conference 2015

## Differences and Similarities Between Road and Railway Asset Management

**Mrs Vivianne Karlsson – Senior Advisor, Swedish Transport  
Administration**

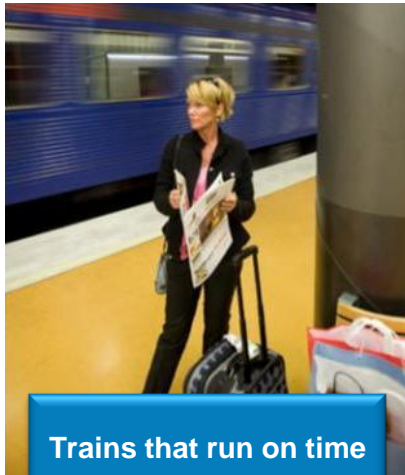
**Session I -12.10.2015**

*Putting your assets  
on the right track*

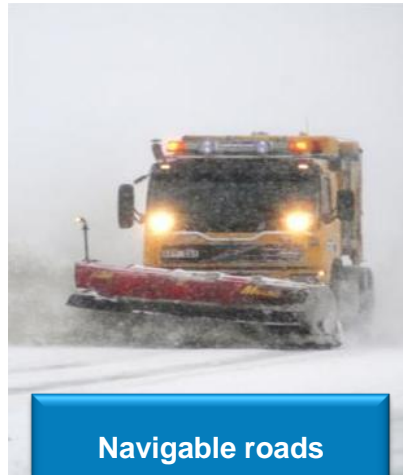


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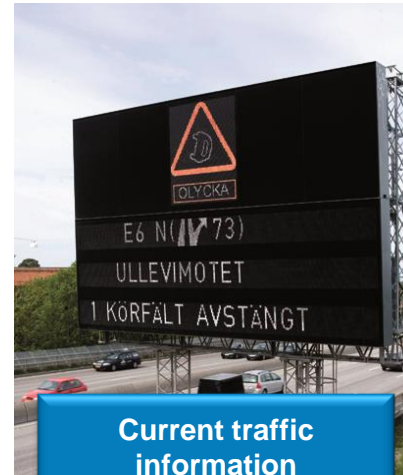
**We deliver public service – every single day ...**



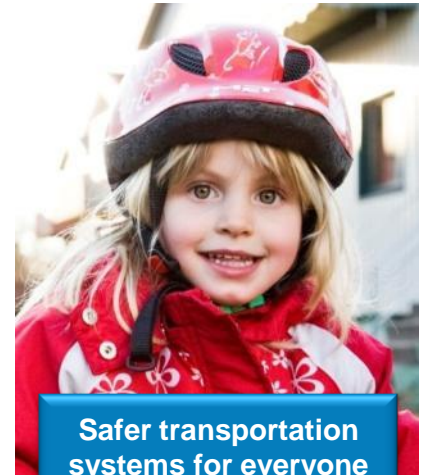
**Trains that run on time**



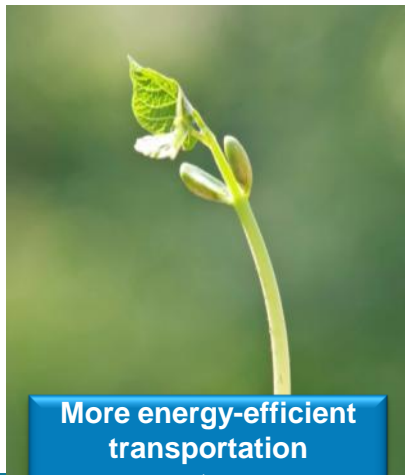
**Navigable roads**



**Current traffic  
information**



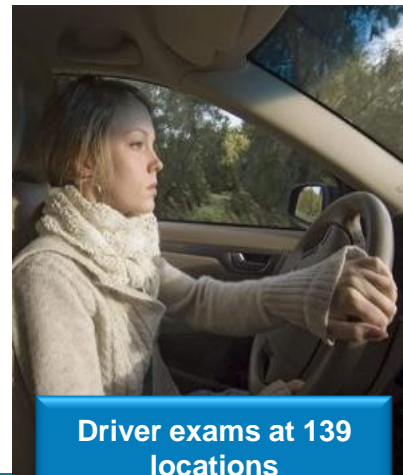
**Safer transportation  
systems for everyone**



**More energy-efficient  
transportation  
systems**



**Infrastructure for  
people and nature**



**Driver exams at 139  
locations**



**38 ferry routes on sea  
and inland waterways**

## Agenda

- The Swedish Transport Administration
- Differences and similarities
- Challenge and absolute necessity



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## Brief data about the Swedish Transport Administration

The Board  Director General  
**Lena Erixon**

 **6 300** employees, **150** occupations

Business volume in 2014

**SEK 50 000 000 000**

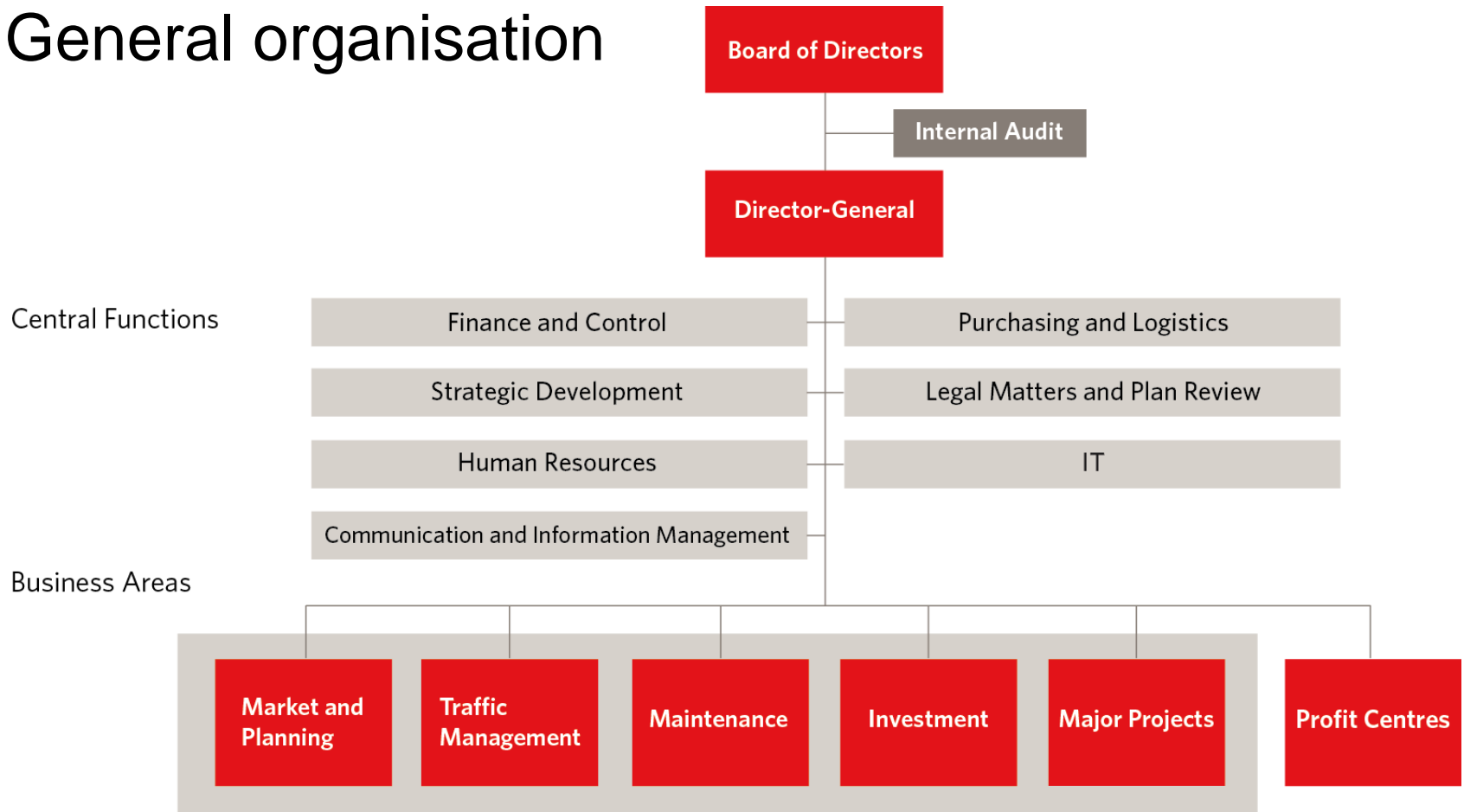
*Of which*

Investments	SEK 21,5 billion
O&M and traffic control	SEK 19,5 billion
Miscellaneous	SEK 9,0 billion



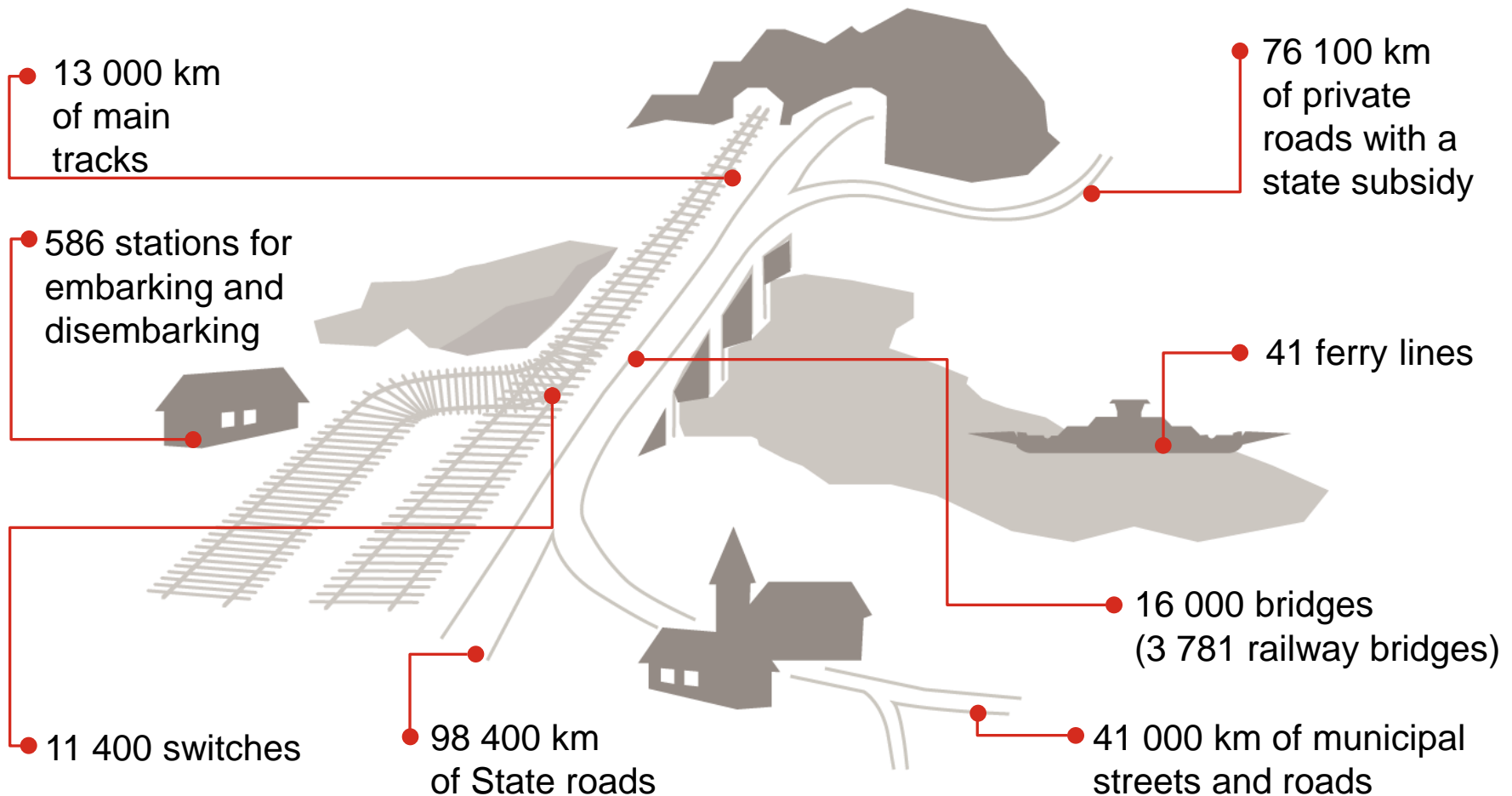


## General organisation



## Sweden's roads and railways

Total= 400 000 km  
roads including  
private roads etc.





# UIC Asset Management Global Conference 2015

From infrastructure authority  
to social developer

Infrastructure



Transportation



Community development



Social development



## Agenda

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## The delivery qualities for the Transport system – Relevant for Railways and Roads



Punctuality

- The transport systems ability to fulfil and deliver the planned travel and transport times and the ability to instantly provide correct and useful information during disturbed traffic.



Capacity

- The transport systems ability to handle the requested volume of travel and transport.



Robustness

- The transport systems ability to prevent and handle incidents that causes disturbed traffic.



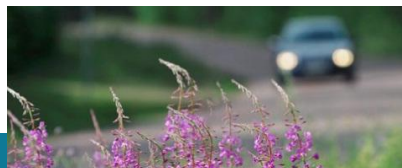
Usefulness

- The transport systems ability to satisfy the different customer needs and requests for transport and travel.



Safety

- The transport systems ability to minimize the number of fatalities and seriously injured.

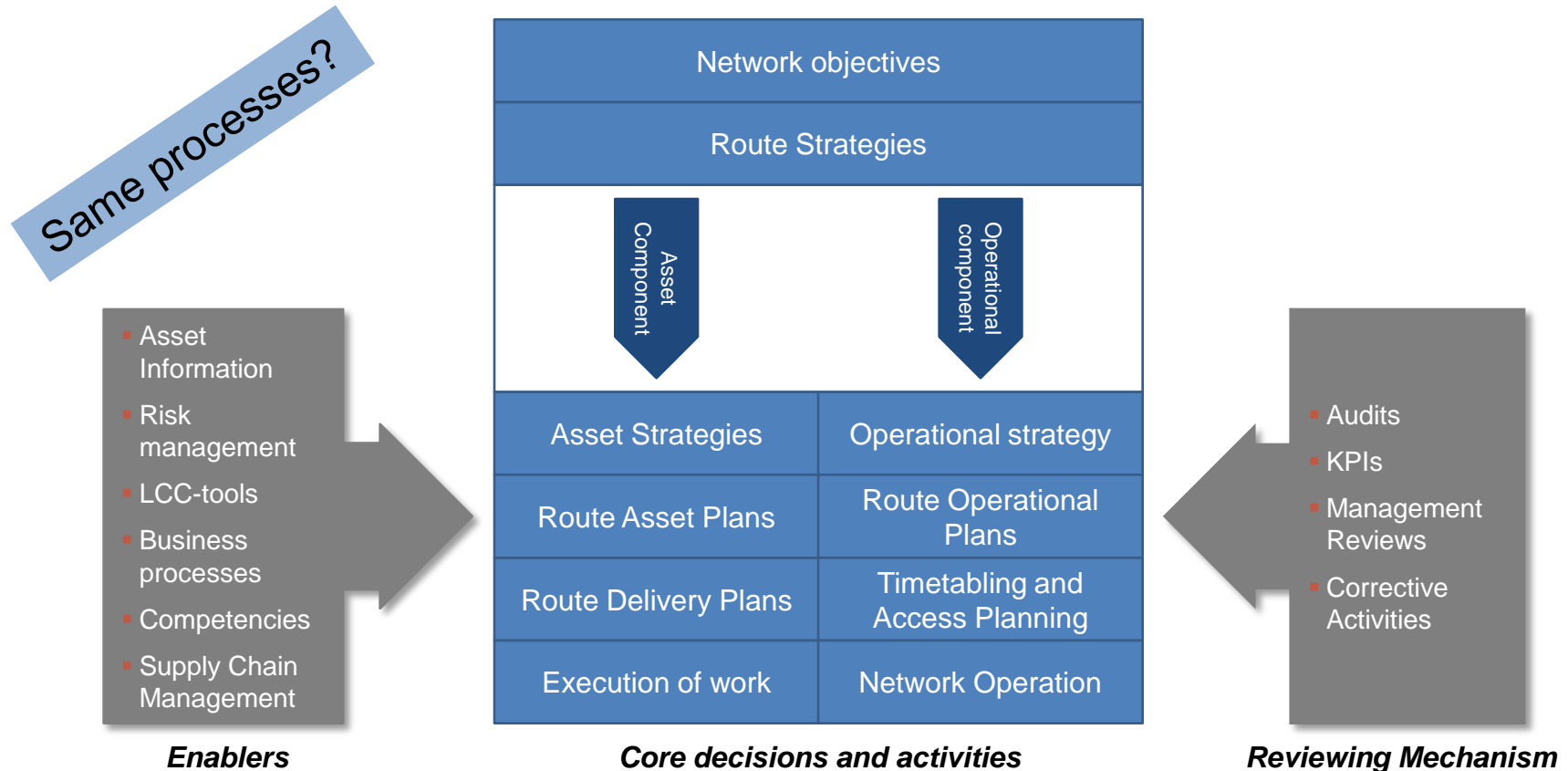


Environment and health

- The transport systems ability to minimize the negative impact on and support the positive development of climate, landscape and health.

Same objectives

## Asset management Framework



What is Applicable on Road Asset Management?

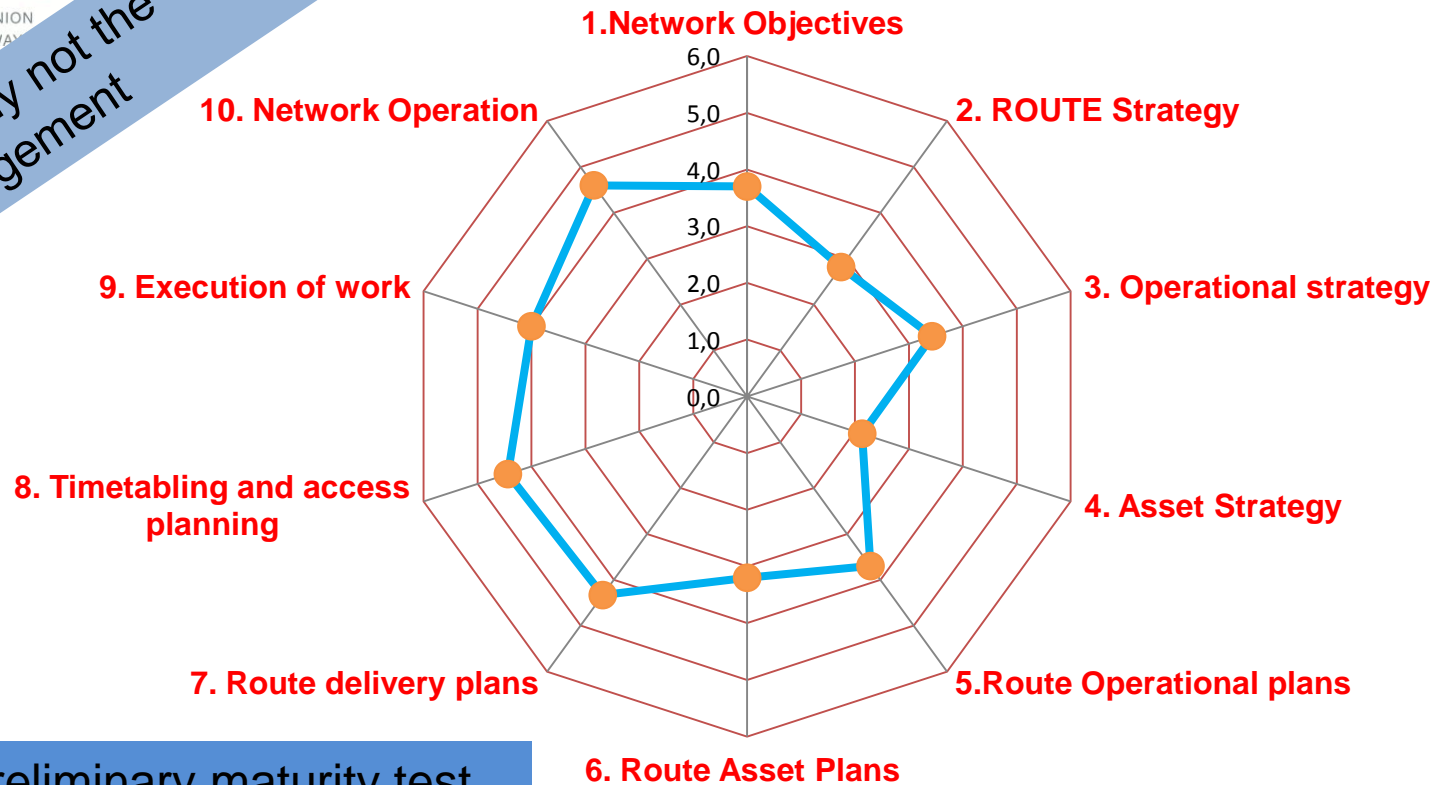
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INTERNATIONAL UNION  
OF RAILWAYS

Probably not the same maturity for road  
management

## Network L -



A preliminary maturity test  
for the Swedish Railway

## Diagnose for Road Management Capability, oct-dec

Some reflections:

- **Timetabling** (mostly for buses) is a bit different – Higher flexibility, easier to chose another road, but loss of travelling time has the same importance on roads.
- **Capacity** – Most roads doesn't have capacity problem, exceptions are peak hours in City's, some tunnels – Important, but not the same focus.
- **Asset Structure** – Hierarchies with components, not the same need and therefore not established in the same way as for railways.
- **Possession times** for maintenance and renewal aren't a big issue today – But it ought to be, loss of travelling time is important.

BUT ALMOST ALL PROCESSES DESCRIBED FOR RAILWAYS IN THE MATURITY TEST ARE RELEVANT FOR ROADS.



## Some differences in present Asset Management

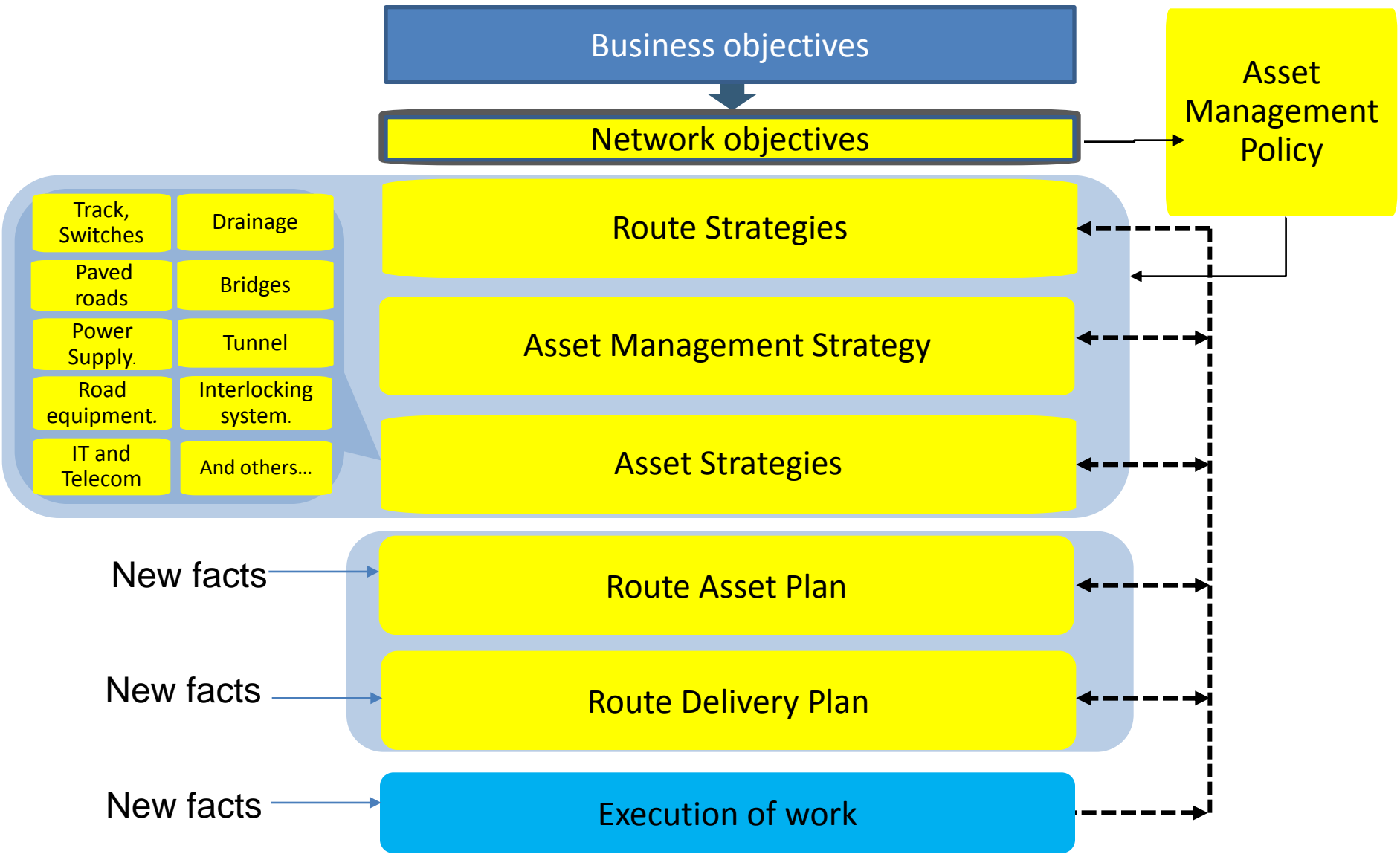
### Roads

- Travellers have greater acceptance of “delays” (deviations in expected travel time)
- Common route strategies isn’t in place
- Lack of systemic view
- Well established asset strategies and asset management information systems but separated for paved roads, bridges, equipment etc., (with tools for historic analyses and forecasting)
- Rarely prioritisation between asset categories. If costs for snow clearance increase it always comes with less pavement activities.

### Railways

- Passengers and operators have high expectations on punctuality
- Common route strategies partly in place
- Systemic view is a necessity
- Combined asset management information systems to handle failures, inspections, asset register etc. but a need for more tools for historic analyses and forecasting and established asset strategies
- Prioritisation between asset categories.

# Decisions makers need alignment and transparency



## Agenda

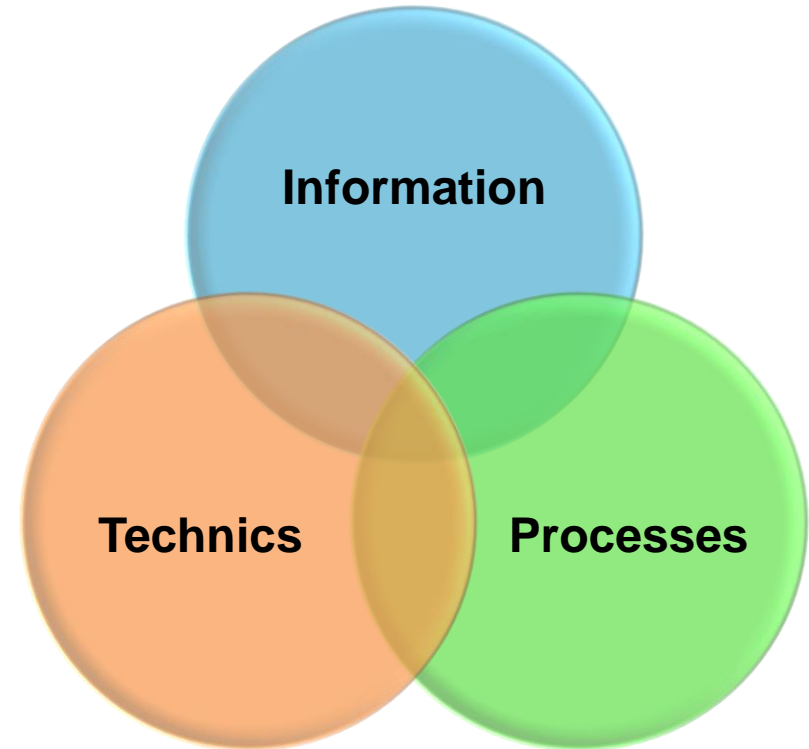
- The Swedish Transport Administration
- Differences and similarities
- Challenge and absolute necessity

## One of the biggest challenges is:

- a uniform, reliable and efficient information management of the road and railway network, including transport network data, with a durable structure throughout the lifecycle

## Today:

- Different and not always compatible information structures
- Different definitions, languages
- Information demands that aren't aligned
- Lack of history
- Discussions about responsibilities
- Problem with data availability



*The executives need this to be transparent decision makers*



**Thanks for your attention**

