

Pre-study:

Real Based Data in Real Time

- The key enabler of a paradigm shift in transportation and traffic planning and operation

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TRAFIKVERKET
SWEDISH TRANSPORT ADMINISTRATION

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The transport policy goals in Sweden

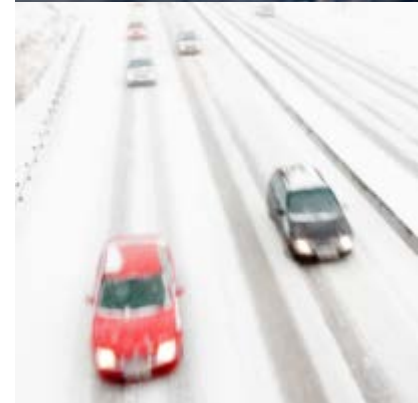
The overall transport policy goal is to guarantee a socioeconomically effective transport supply system for citizens and the business community that is sustainable in the long term throughout the whole country

- Transport policy functional goal:
Availability
- Transport policy consideration goal:
Safety, environment and health



Our tasks

- Responsible for the long-term planning of the traffic system for road, rail, air and sea
- Responsible for the construction, operation and maintenance of State roads and railways



Brief data on the Swedish Transport Administration

The Board  Director-General
Lena Erixon

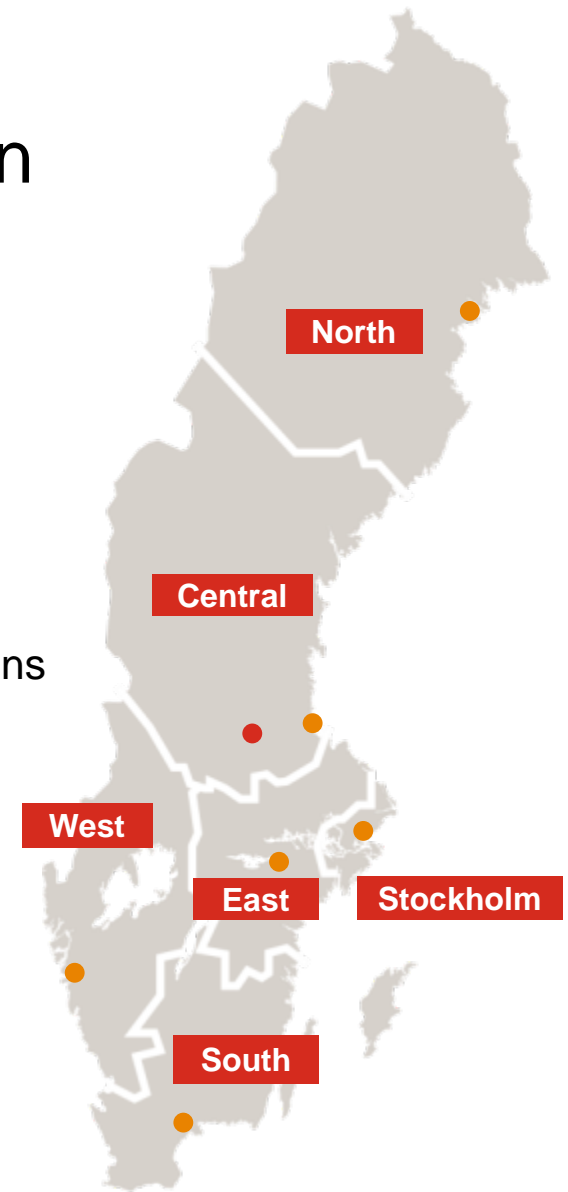
 **6 600** employees, **150** occupations

Business volume in 2016

USD 6 000 000 000

Of which

Investments	USD 2.6 billion
O&M and traffic control	USD 2,2 billion
Miscellaneous	USD 1,2 billion

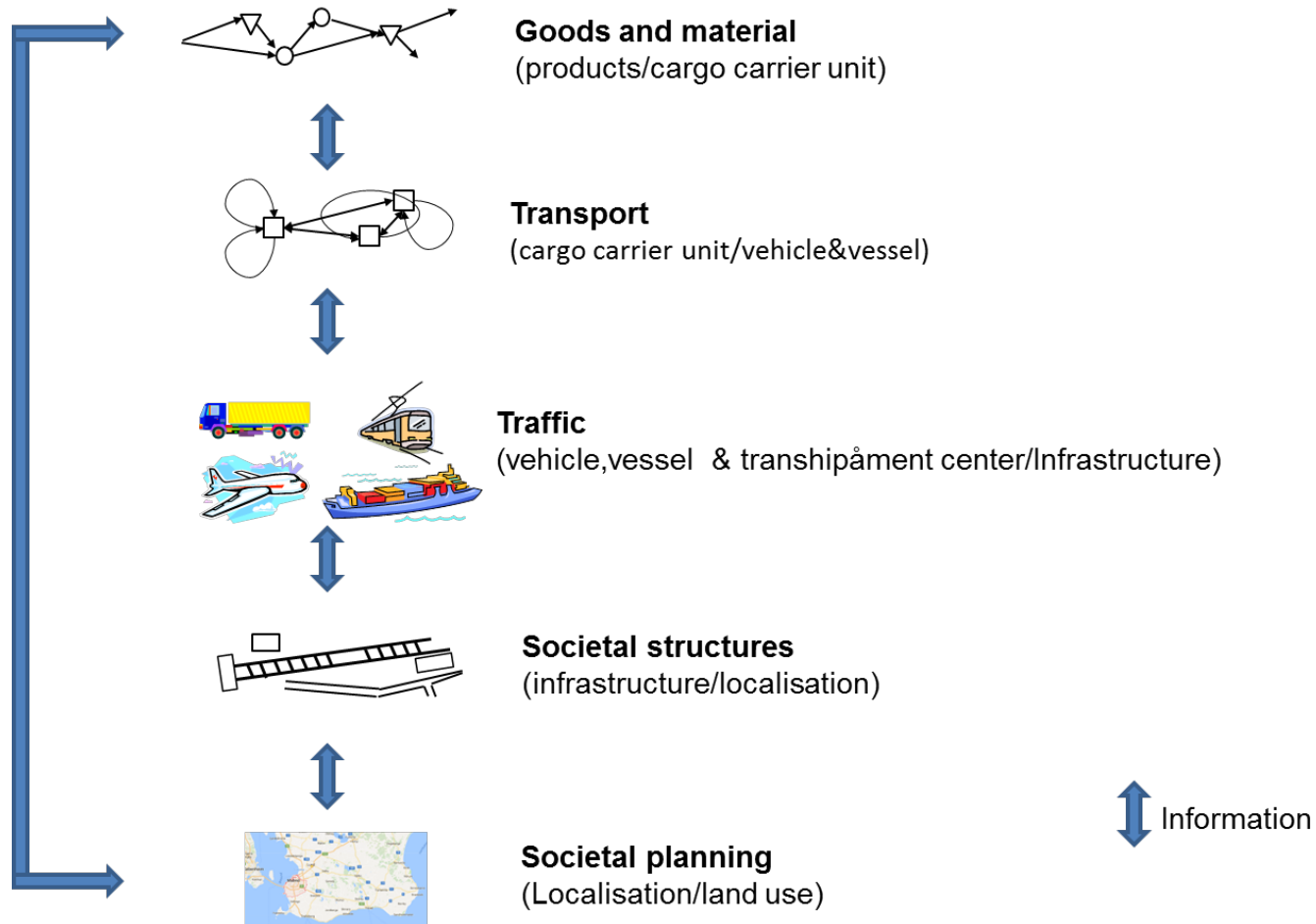


Background of the pre-study

- There is a need to increase knowledge about present traffic and freight flows
- Better knowledge of traffic and transport flows enables a more efficient and adaptive operation
- Digitalization in general, and connected vehicles and cargo will enable access to real based data providing new opportunities
- Shippers and carriers will experience possibilities for more efficient transport logistics.



The transport system

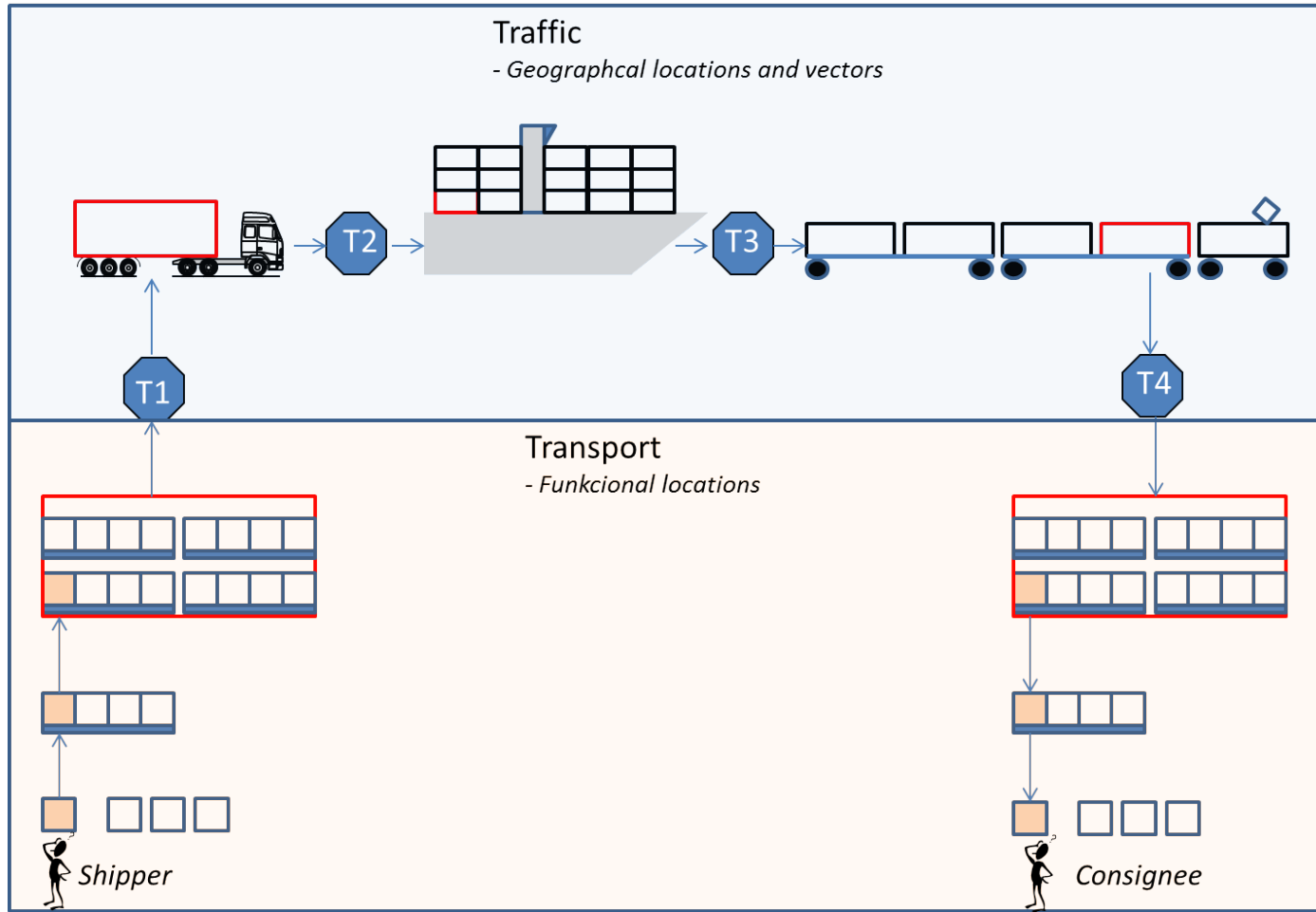


Present available traffic and transport data

Mode	Traffic data [vkm]	Situation	Transport data [tkm]	Situation
Rail	Train movements	✓	Rail cargo	✓ -
Sea	Ship movements	✓	Sea cargo	✓ -
Air	Aircraft movement	✓	Air cargo	✓
Road	Truck movement	✓	Road cargo	-

✓	Public available
✓	Exists but is not public available
✓	Partly available but fragmented and not publicly available
-	Missing data

Capturing data





Load factor [%]



Public authority applications

Market based measures Commercial applications

Infrastructure planning

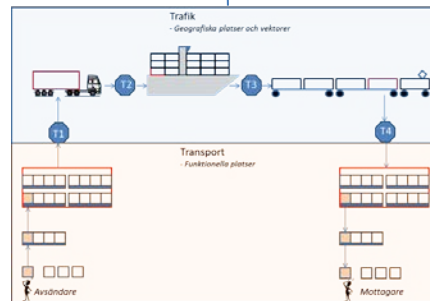
Infrastructure management

Traffic management

Horizontal collaboration

Traffic and transport databases

Data storage



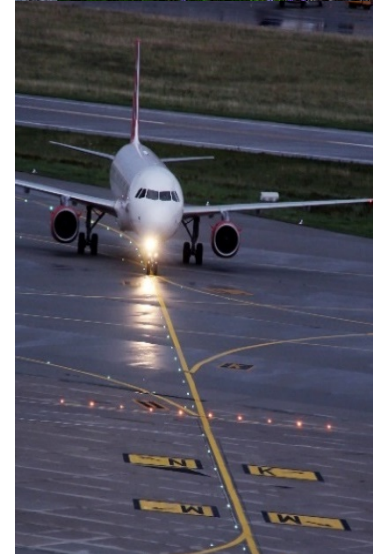
Data capture



Data issues that needs further analysis

- Integrity
- Secrecy
- Quality (validity and reliability)
- Accessibility
- Costs and resources (capture, store and use)

Overall this development requires trust



Thank you!

- We are here to listen and look for future co-operation and mutual learning in order to better adapt to tomorrows possibilities.

