

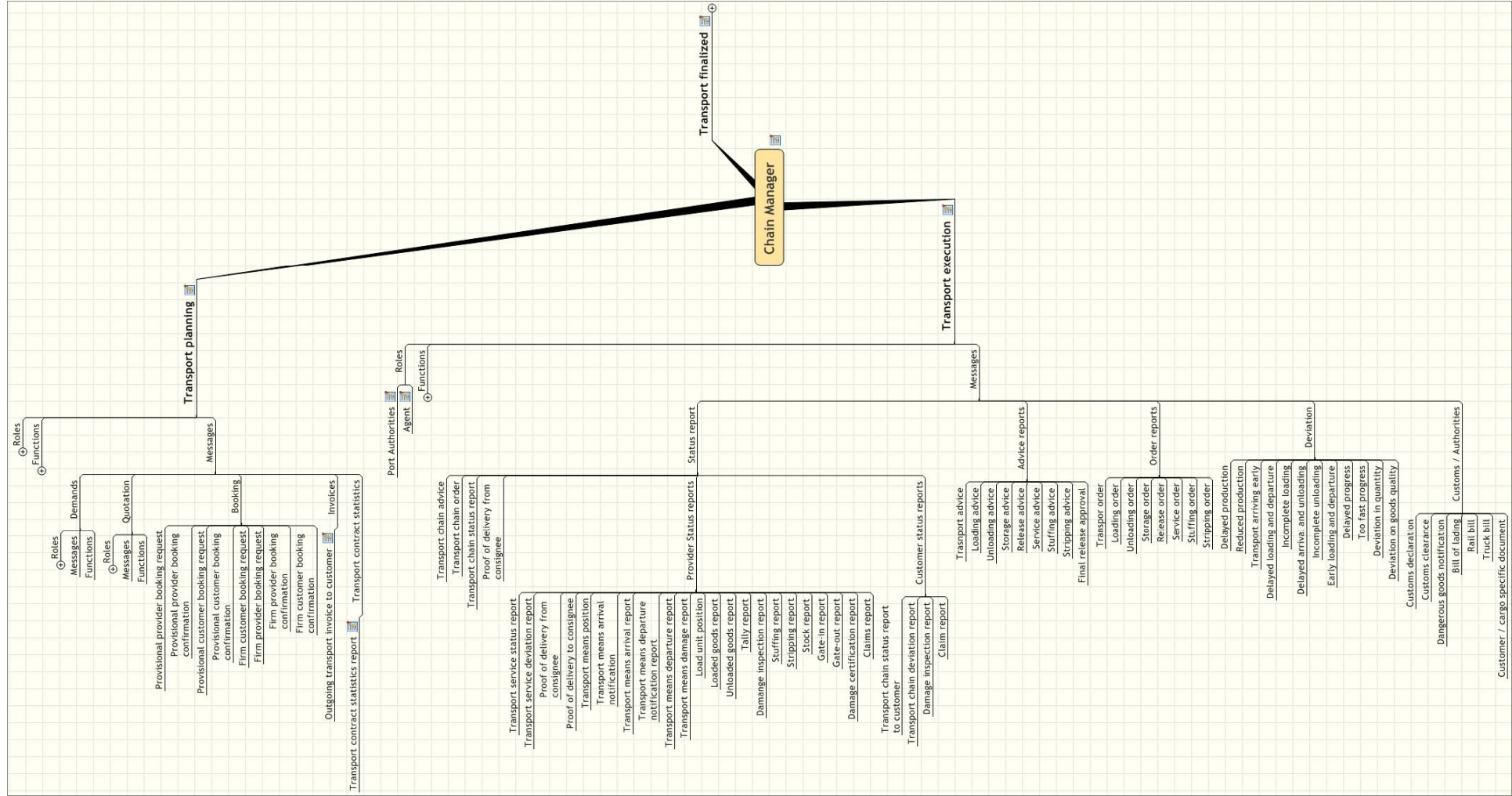
Intermodal Logistics (should be) Made Simple

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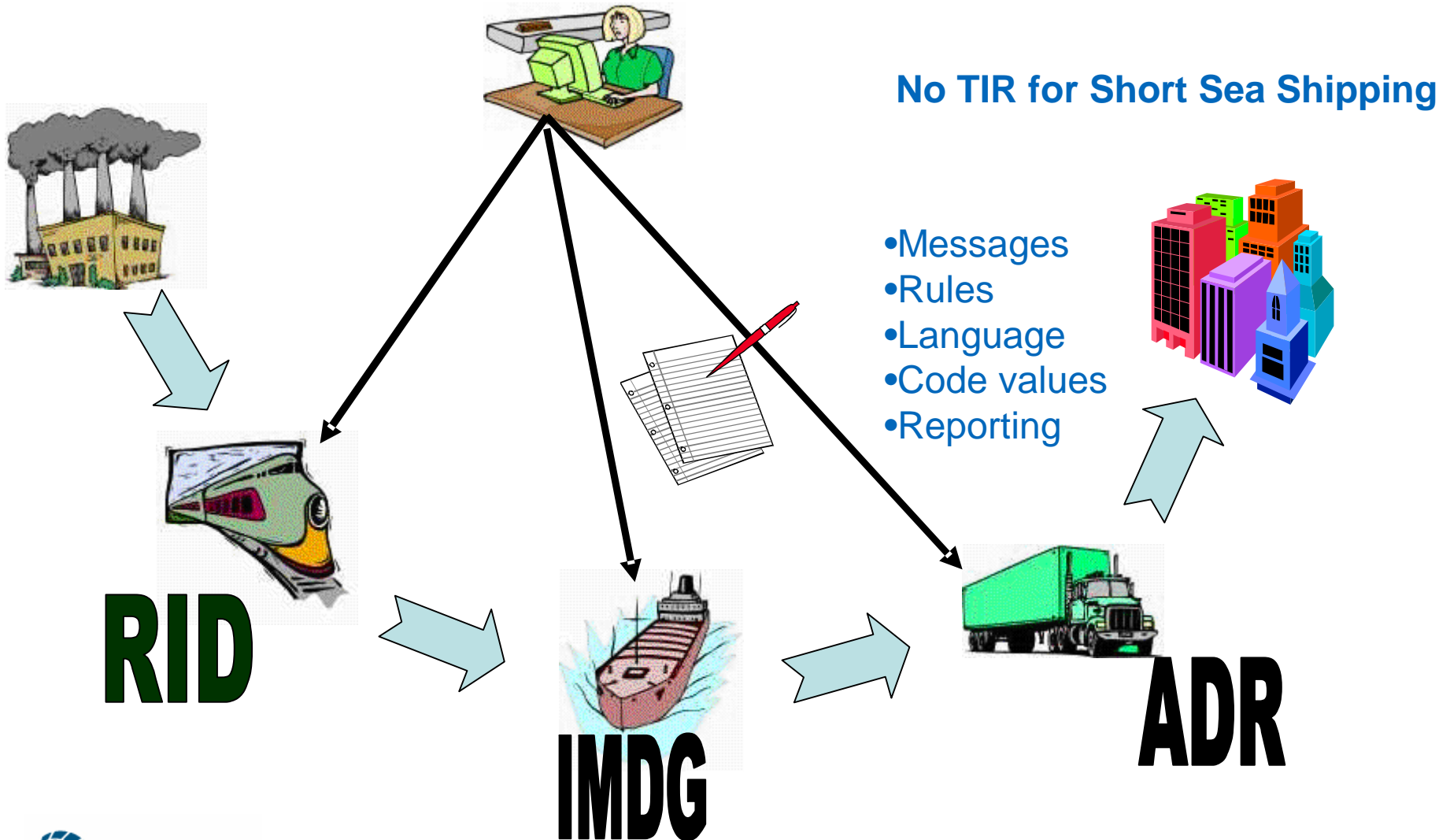
Dealing with Multimodal Complexity

- 1995-2005: The learning period
 - Understanding the complexity of multimodal transport
 - Aiming to live with it

Messages in Use



Different Rules and Regulations



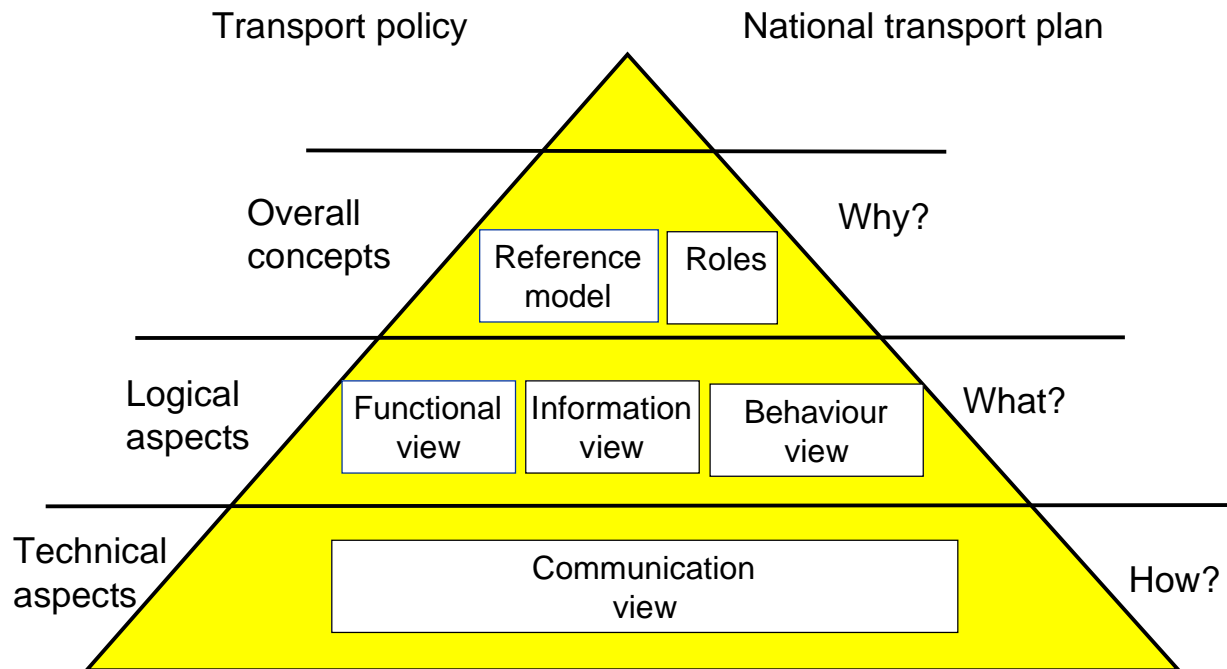
Dealing with Multimodal Complexity

- 1995-2005: The learning period
 - Understanding the complexity of multimodal transport
 - Aiming to live with it
- 2006- : Making use of what we know
 - Realising that much of the complexity of intermodal transport is “man made”
 - Aiming to simplify it

Mode Independence: Arktrans

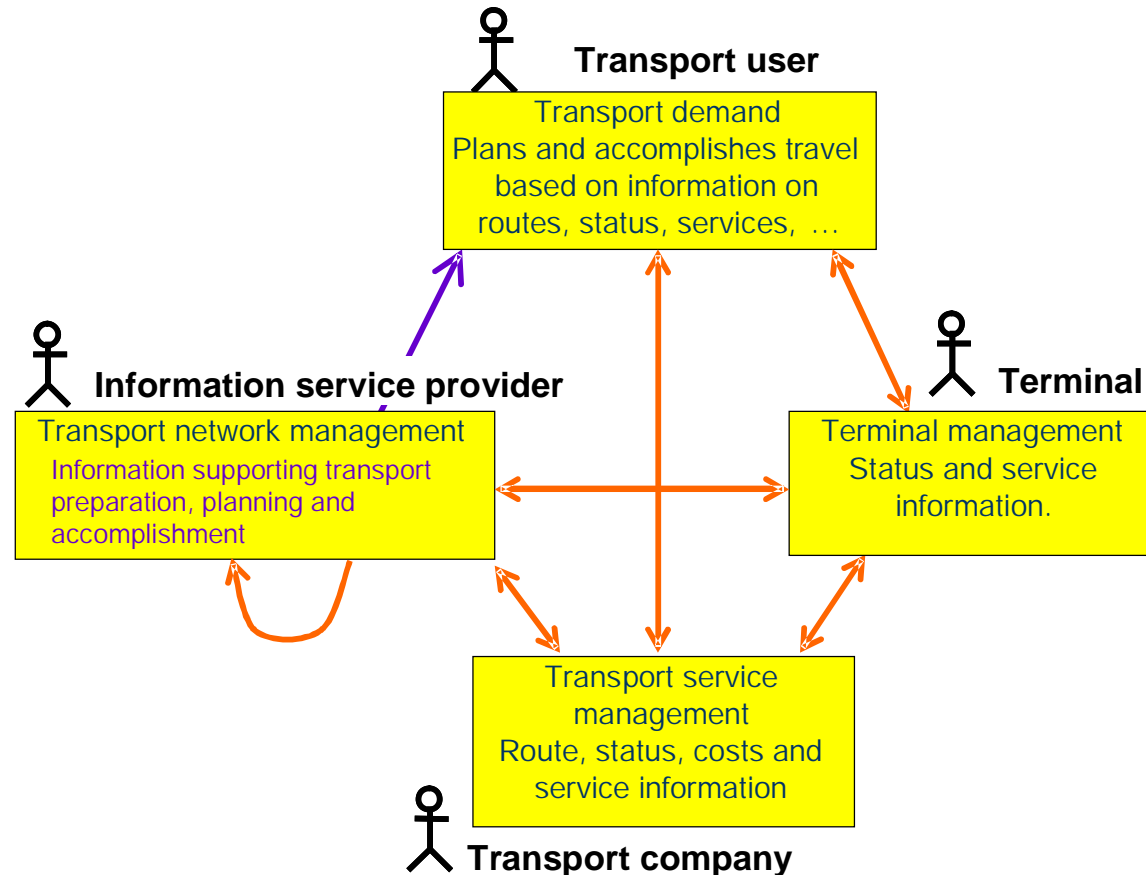
- Utilises levels of *abstractions*
- Mode independence through roles (a *Role* represents a unique set of responsibilities)
- Is independent of managerial and legal concepts and, as such, facilitates change when required

- Role examples
 - Transport user
 - Transporter

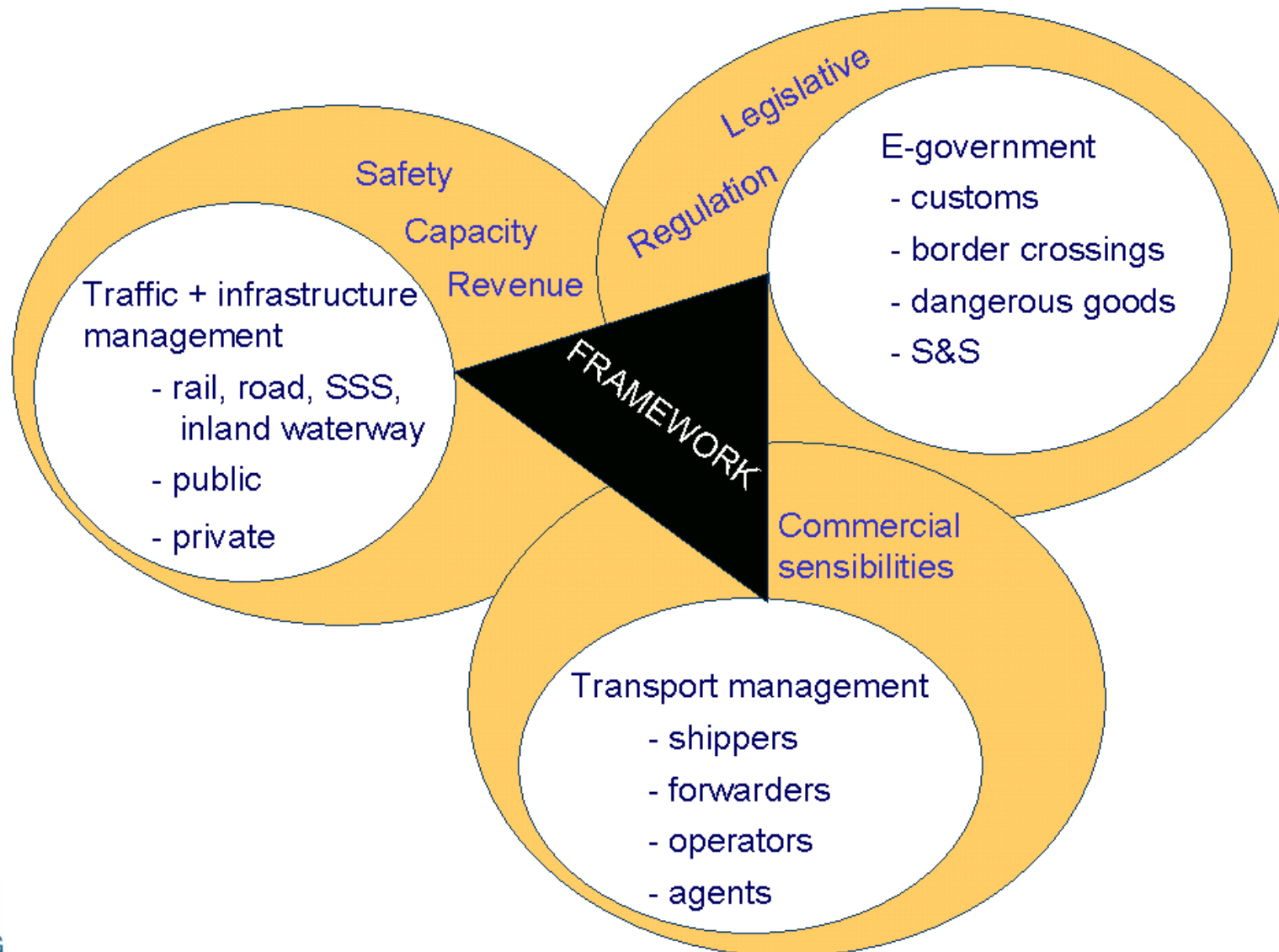


Intermodal transport

- Efficient cooperation between a small number of well-defined roles



Arktrans Coverage

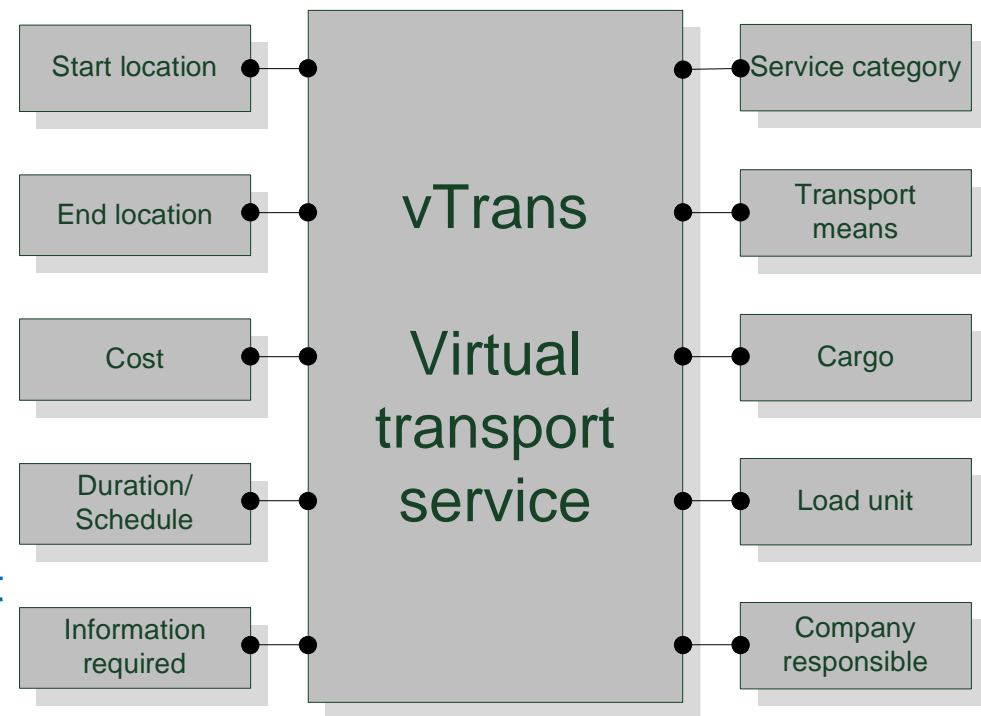


Mode Independent Information Exchange

- One set of "messages" for all modes covering:
 - Transport planning
 - Transport execution
 - Transport completion
 - ShortSea XML
 - Transport XML
- Booking/Confirmation
- Transport instruction
- Schedule information
- Status
 - Arrival/Departure notification (ATA/ATD)
 - Updated estimate (ETA/ETD)
 - Loaded/Unloaded goods report
- Invoice
- Payment
- Acknowledgement

Virtual Transport Service

- Inspired by Amadeus for air transport
- **Available on the Internet** maintained by the service provider
 - Suited for all types of service providers (also administrative)
- Network of virtual transport network changes with the market
- Enhancing visibility of available services
- Simplifying the development and use of systems for intermodal freight transport management
- Level of abstraction suited to user type – i.e. c.f. public vs travel agent views in case of Amadeus



Logistic Action Plan Suggestions

- Continue the development of Arktrans and make it European
 - Freightwise is not enough
- Strengthen the development of a standard, mode independent mechanism for information exchange (no dialects!) (using XML Schemas?)
- Follow the development of the Freightwise vTrans concept.
 - If successful, push deployment

