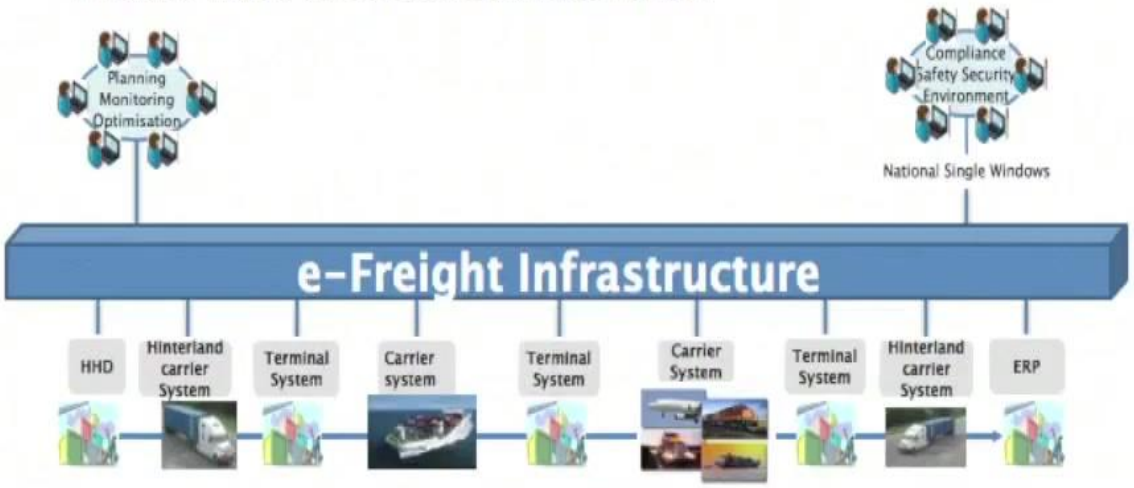

GS1
FREIGHT
Optimizing intermodal transport
by combining GS1 Standards and the e-Freight Framework

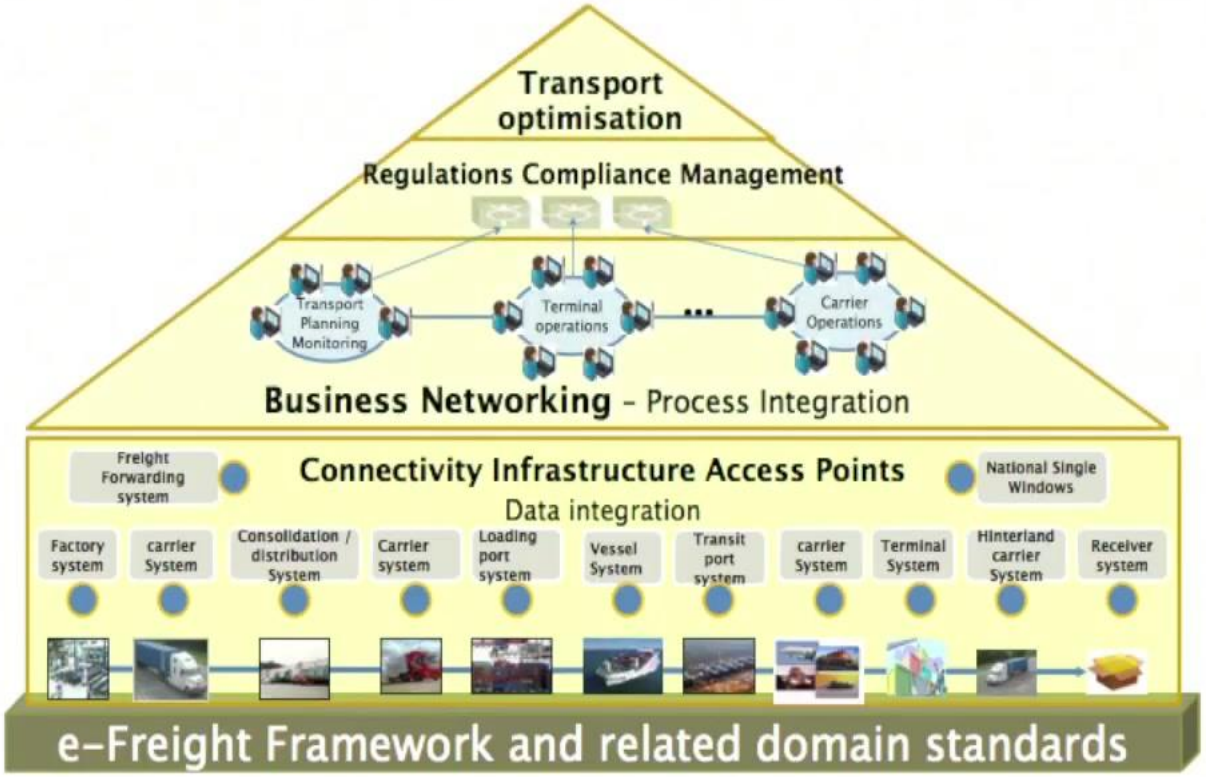
Optimizing Intermodal Transport

e-Freight

e-Freight denotes the electronic flow of information, associating the **physical flow of goods to regulatory or commercial decision support systems.** It includes the ability to **track and trace** freight along its journey across transport modes and to **automate the exchange of cargo-related data between stakeholders.**

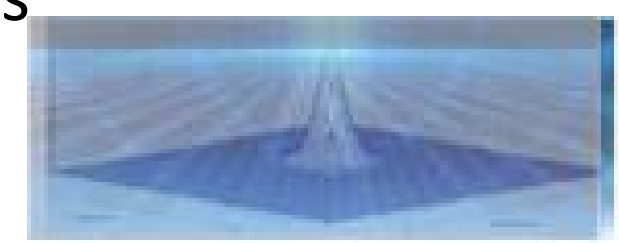


Value Proposition



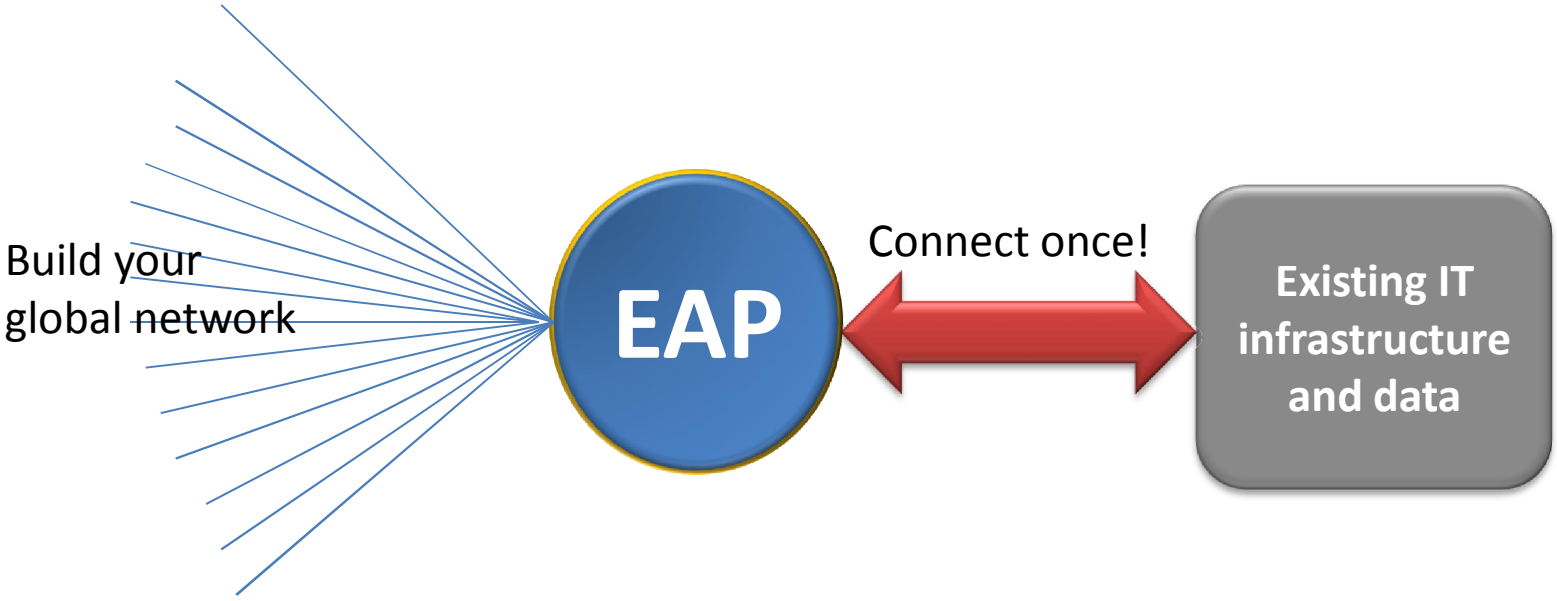
Unique Value Propositions

- **Connectivity Infrastructure** offering *for the first time ever* the possibility to transport stakeholder to connect together without use of centralised platforms
- **Process integration** based on e-Freight reference processes
- **Automated compliance** for shippers, freight forwarders, port and terminal operators and carriers
- **Solution Building Blocks** so that end users can *choose what they need* from simple connectivity to full optimisation of their operations

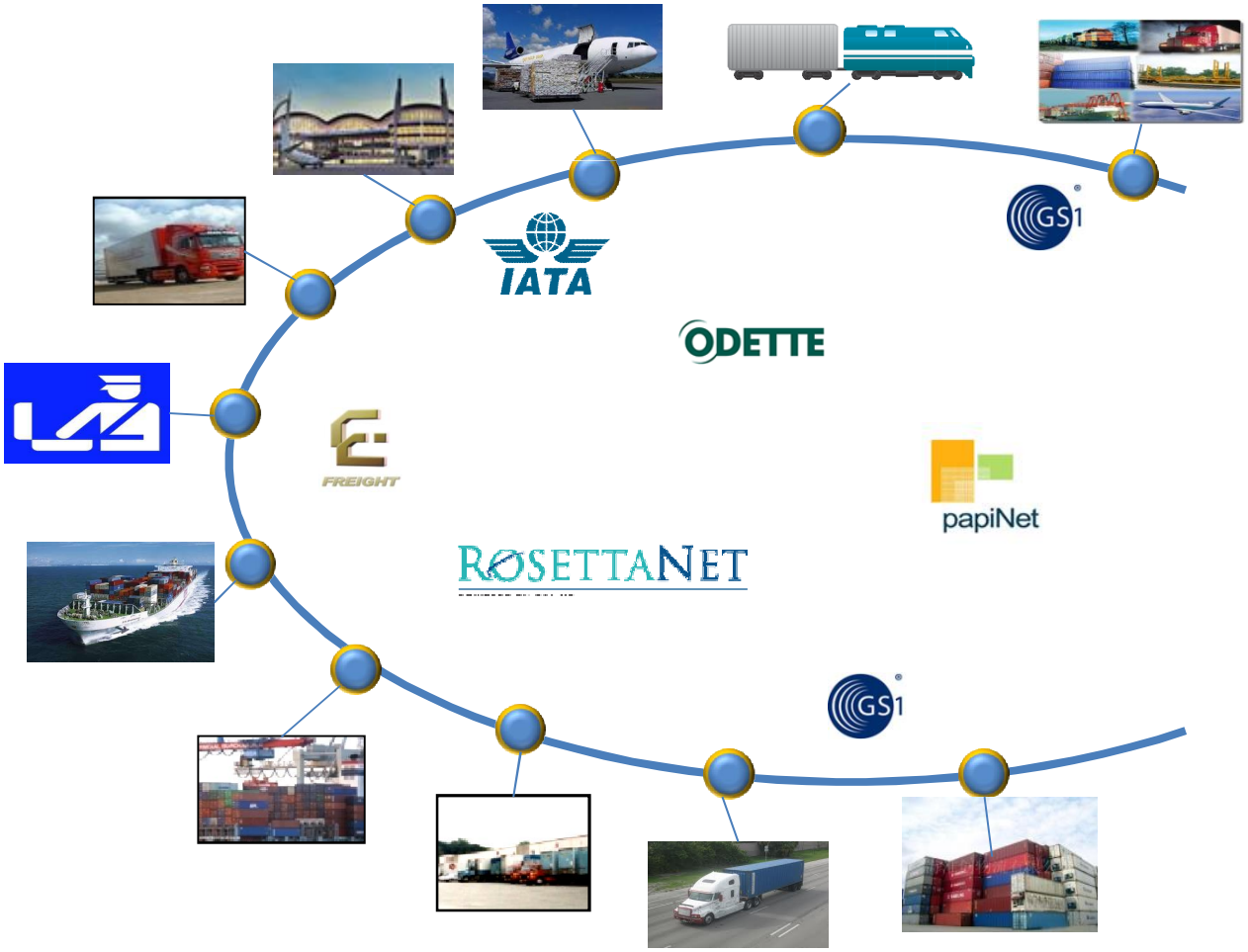


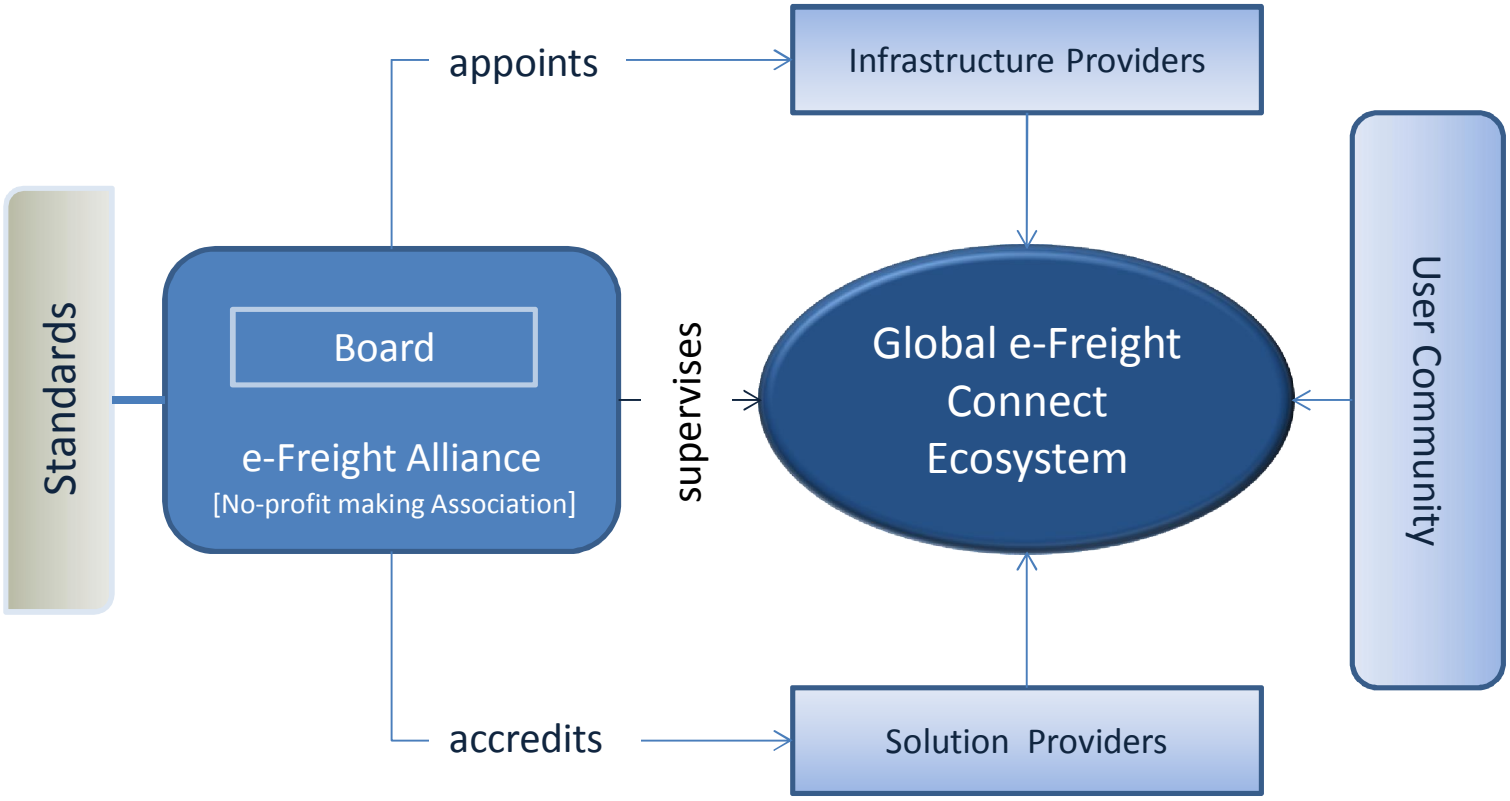
Connectivity Infrastructure
e-Freight Assess Points (EAPs)

- Analogous to email between actors using standard messages defined in the e-Freight Framework or other standard and enhanced security



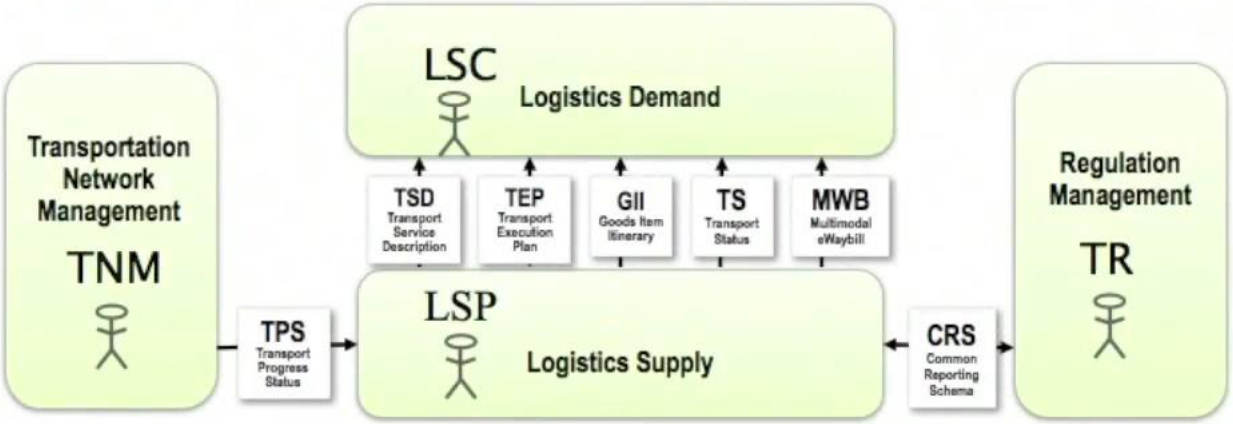
Connectivity through the main standards

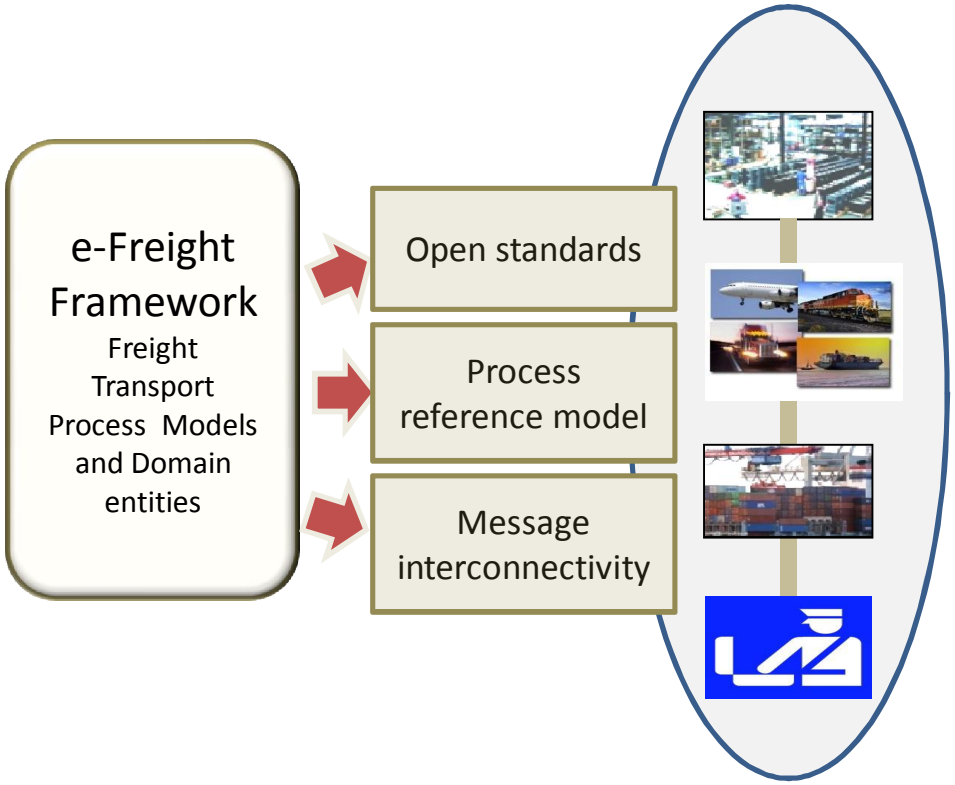



appoints
Infrastructure Providers
Standards
Board
e-Freight Alliance
[No-profit making Association]
supervises
Global e-Freight Connect Ecosystem
User Community
accredits
Solution Providers

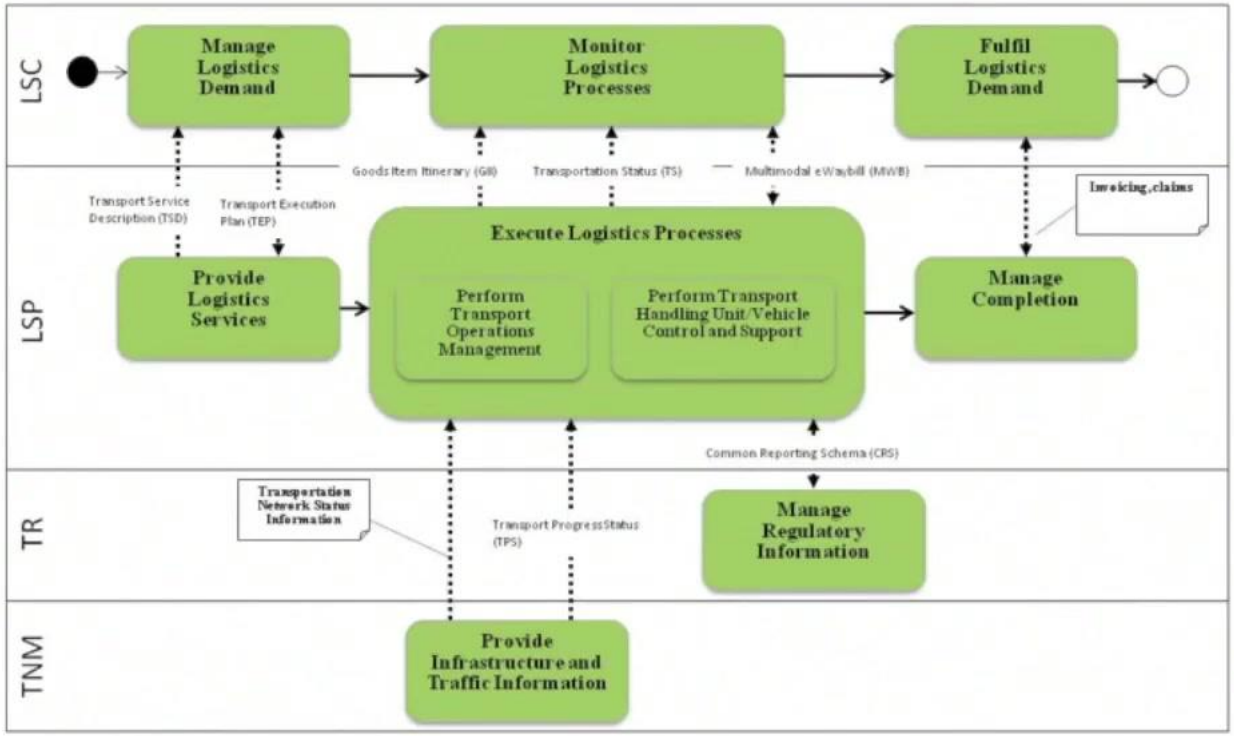
The Blueprint for e-Freight Solutions is the e-Freight Framework

- **A Reference Model** de-composing the transport and logistics domain into manageable subdomains
- **Functions** performed by roles pertinent to each sub-domain
- **Processes** of the key functions in the transport and logistics domain
- **Information models** structuring the information being exchanged into standardised messages

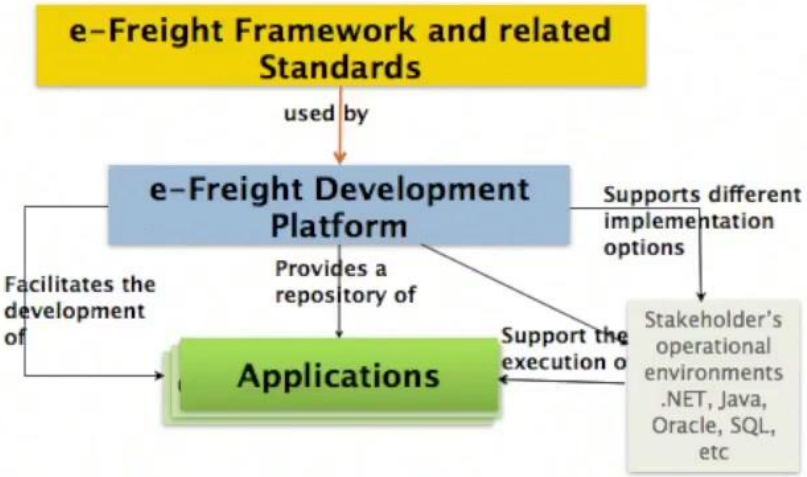



e-Freight Framework
Freight Transport Process Models and Domain entities
Open standards
Process reference model
Message interconnectivity

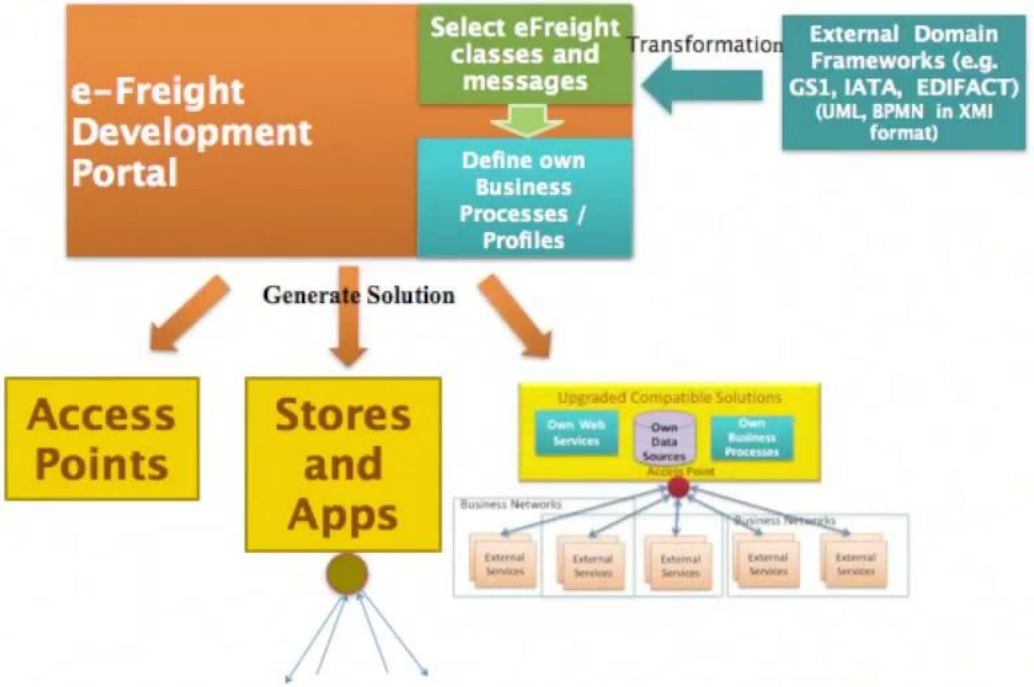
e-Freight Framework



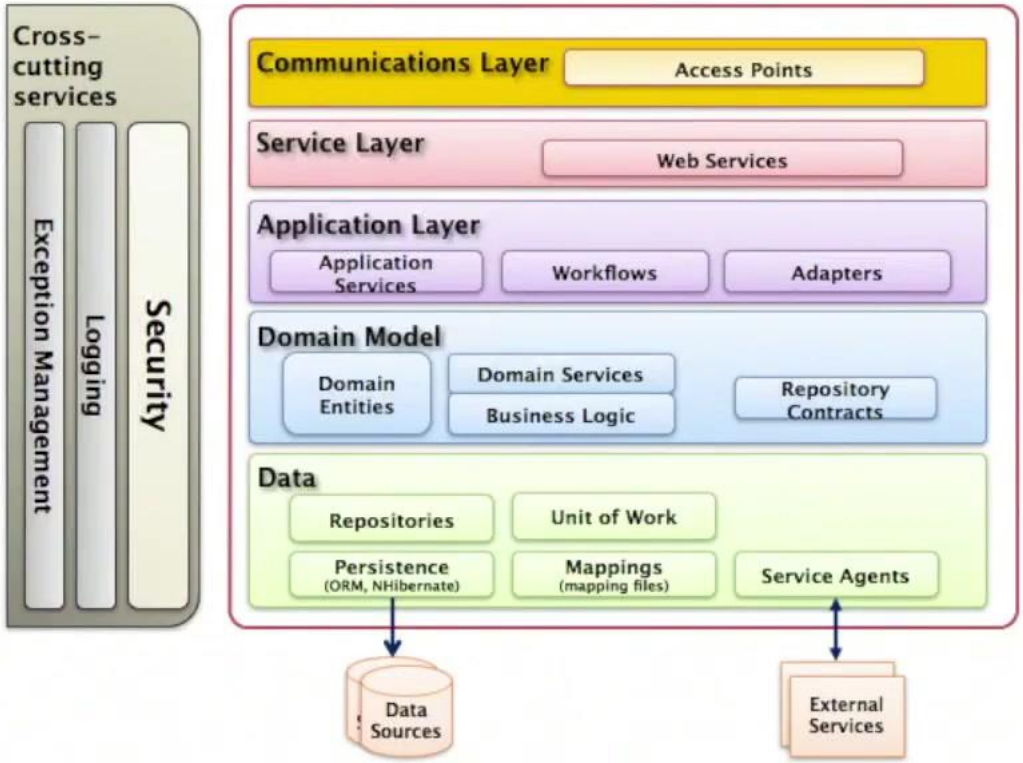
A method for developing e-Freight Solutions



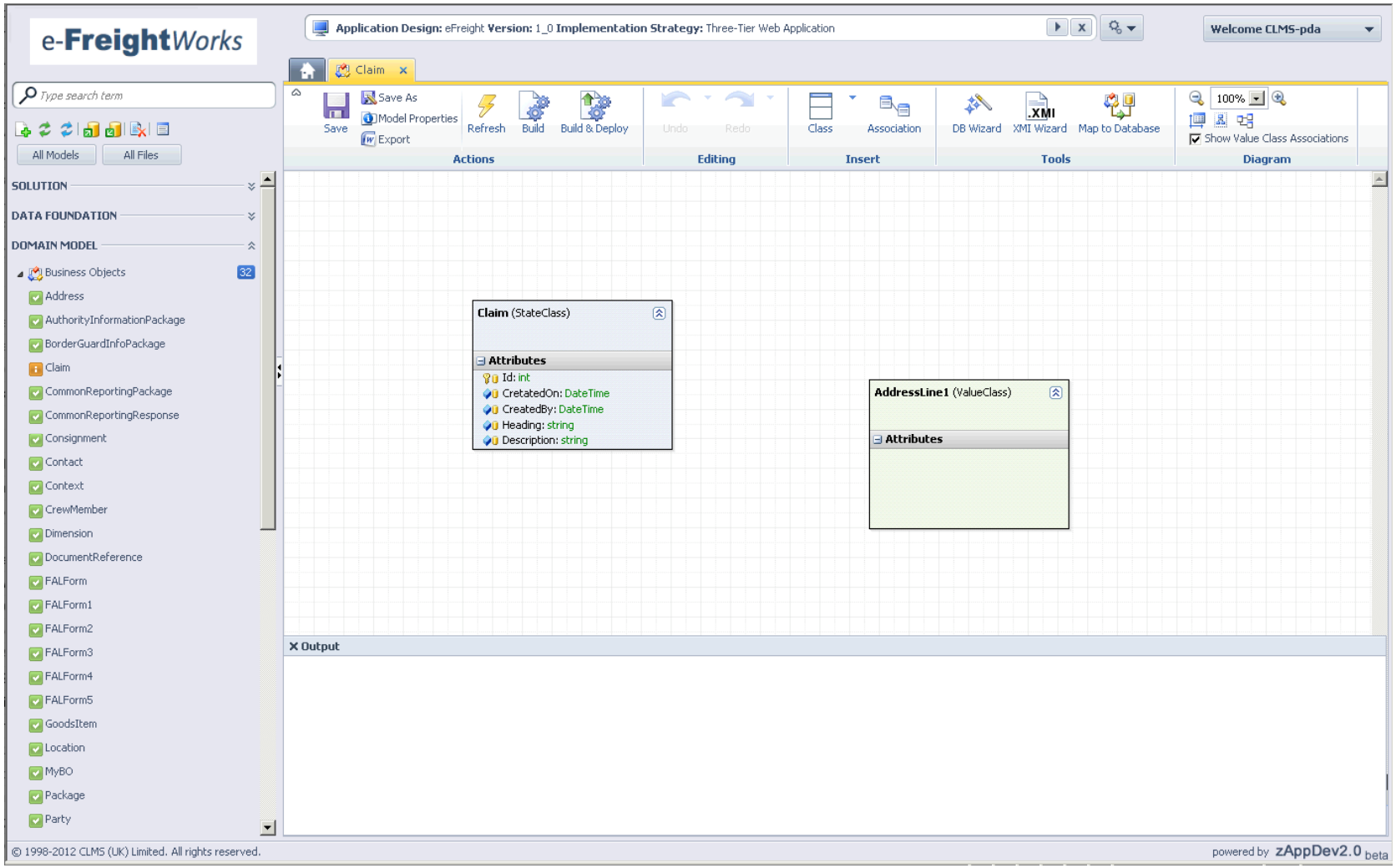
Solutions Development



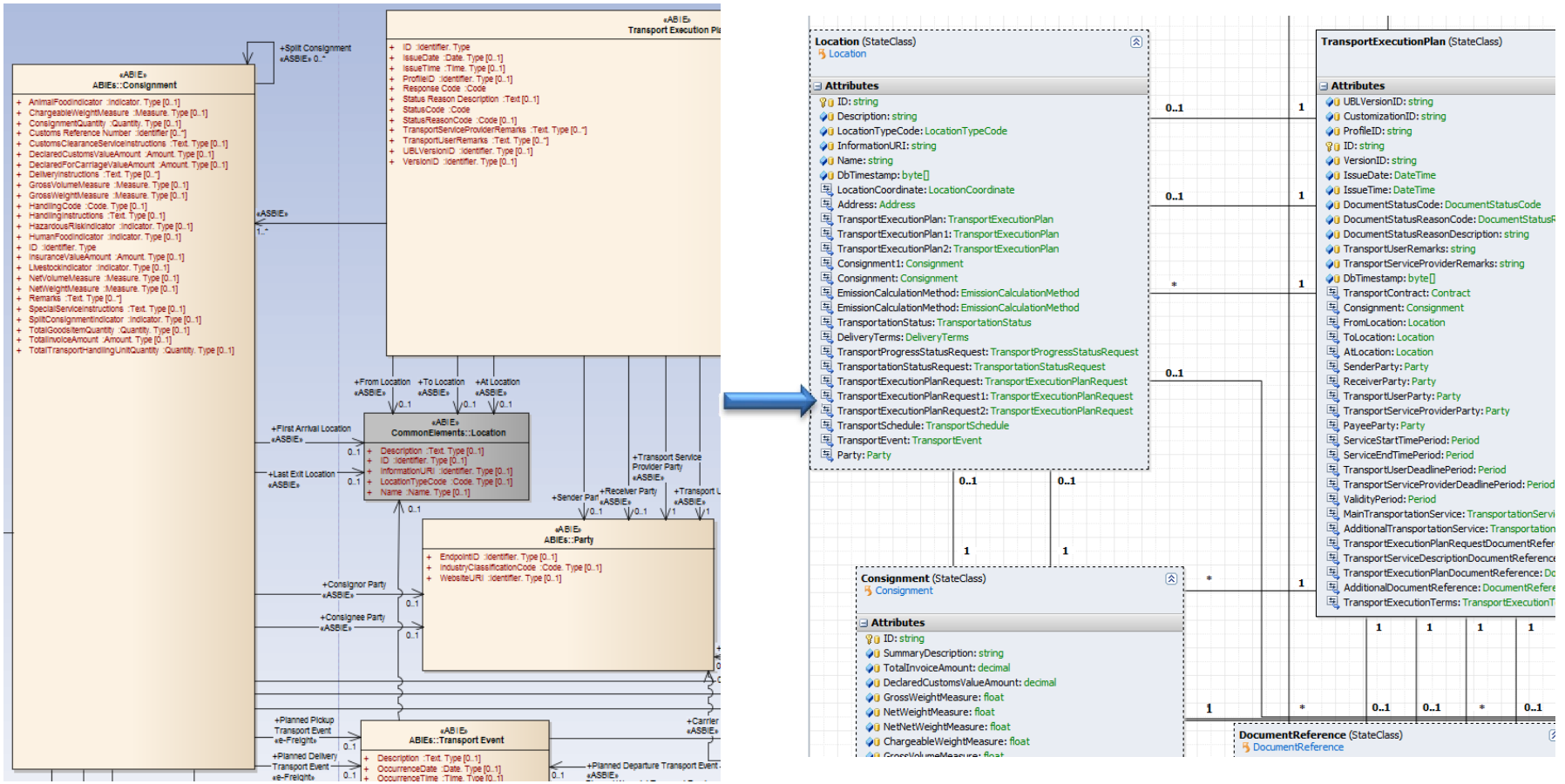
Solutions Development:
e-Freight Applications Architecture



e-Freight Development Portal



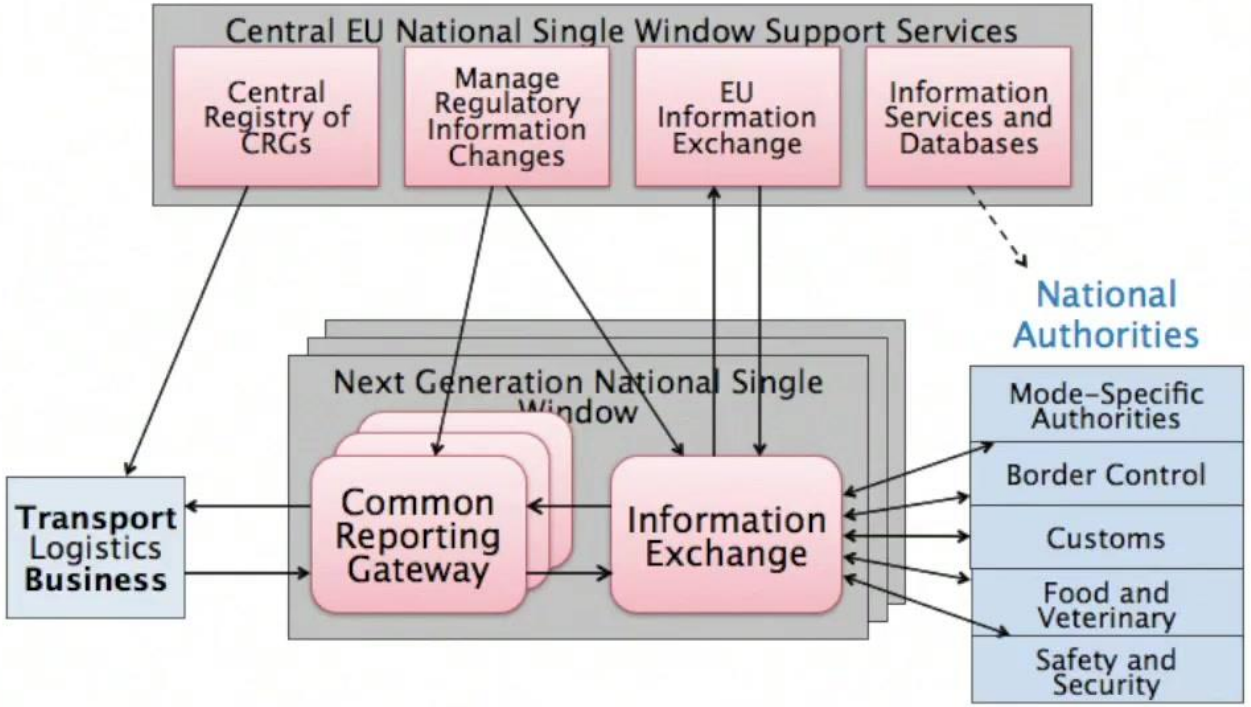
Importing Domain Frameworks (e.g. GS1)



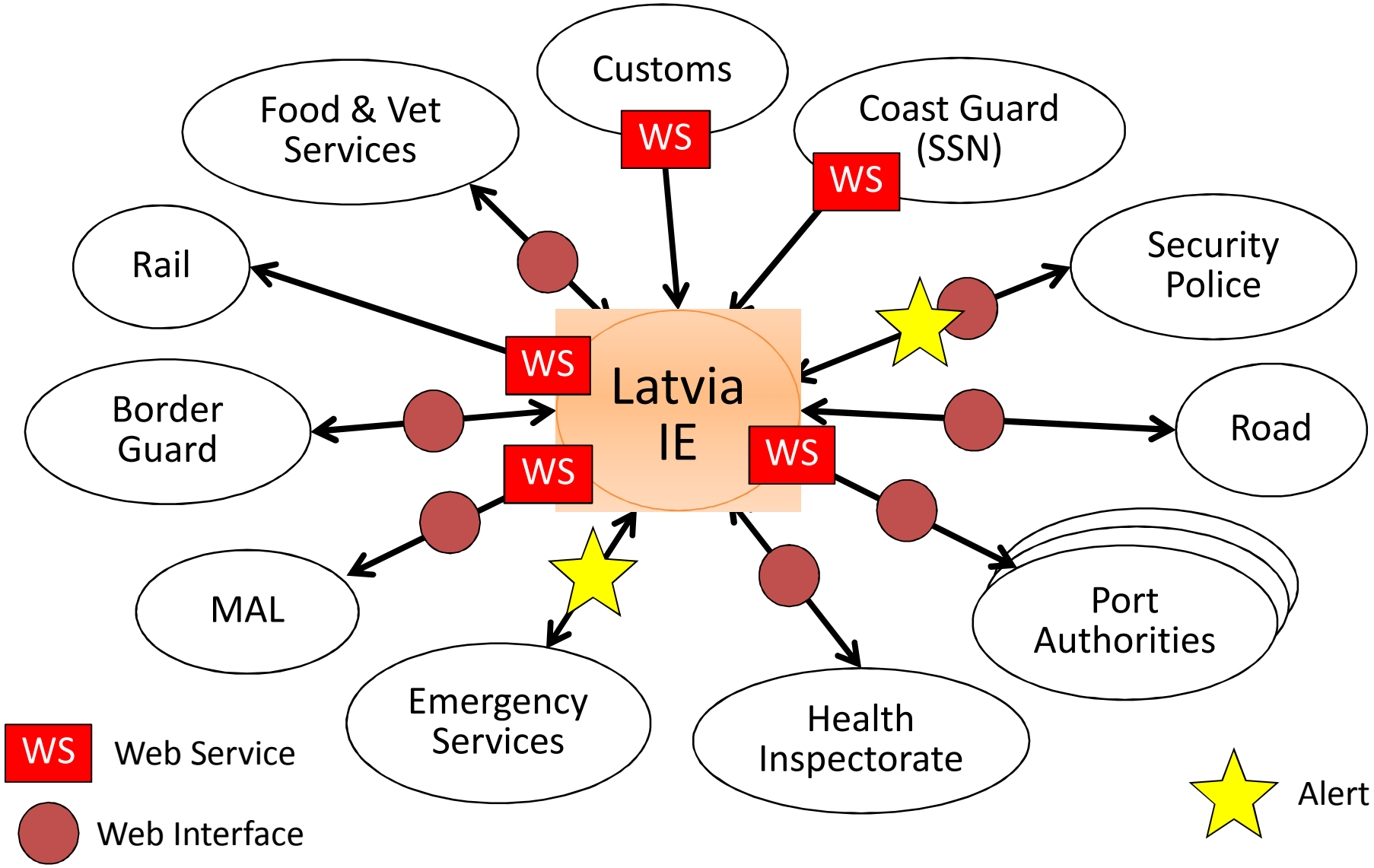
'Next Generation Single Window'

- Unified solution for regulatory information management at both National and EU levels
- Allowing:
  - Business to report using the **same form** to **all** authorities, independent of mode and transportation route, and
  - authorities to share information
    - ✓ policy implementation
    - ✓ co-operation in security, safety and environmental risk management.

‘Next Generation Single Window’



Latvia Reference Solution



‘Next Generation Single Window’ Benefits

- Integrate and harmonise existing ‘Single Window’ systems and initiatives
- Multimodal “one-stop shopping” for all
- “Hard coded” policies, directives and standards
  - change management support
- Support for Authorities
  - communication, co-operation and information exchange
  - safety, security and environmental risk management

Where we are today

- We have a robust mature methodology for developing e-Freight solutions with:
  - Enhanced interoperability features
  - Flexibility to extend and change
  - Security
- We have core solutions and object inheritance enabling fast and efficient implementation of customised solutions
  - NSW
  - Multimodal eWaybill
  - Transport planning

The near Future – An operational network of representative stakeholders