

UBL Conference Stockholm 2014

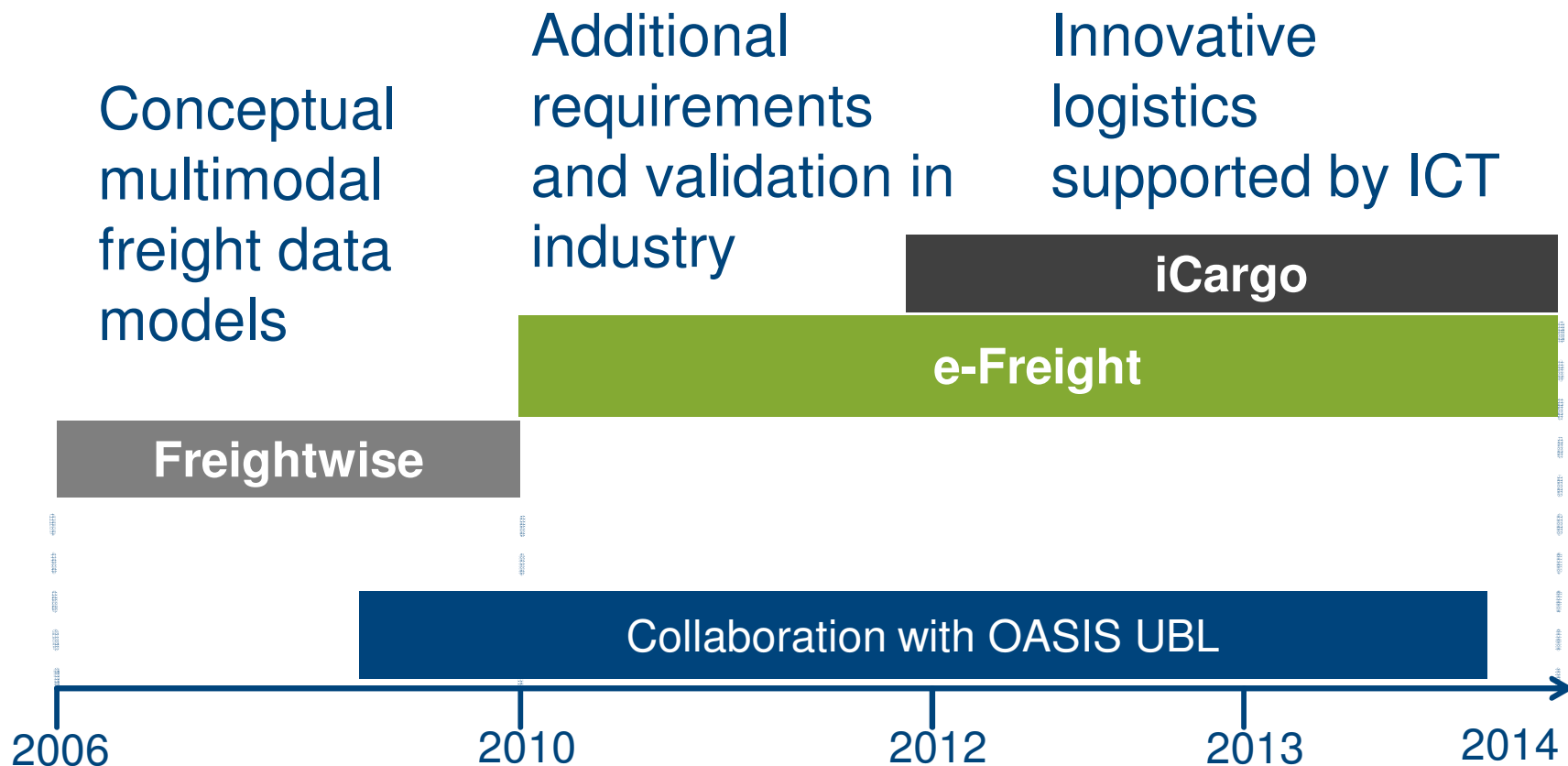
Making intermodal freight transport more efficient using UBL

Audun Vennesland
SINTEF ICT

Outline

- A Common Framework for Freight Logistics using UBL
 - Historical backdrop
 - UBL and innovation in EU research
 - A brief introduction to the Common Framework
- The iCargo EU project
 - Business Level Innovations defined in iCargo
 - How the UBL and the Common Framework impacts on iCargo

Historical backdrop



UBL and Innovation in EU research

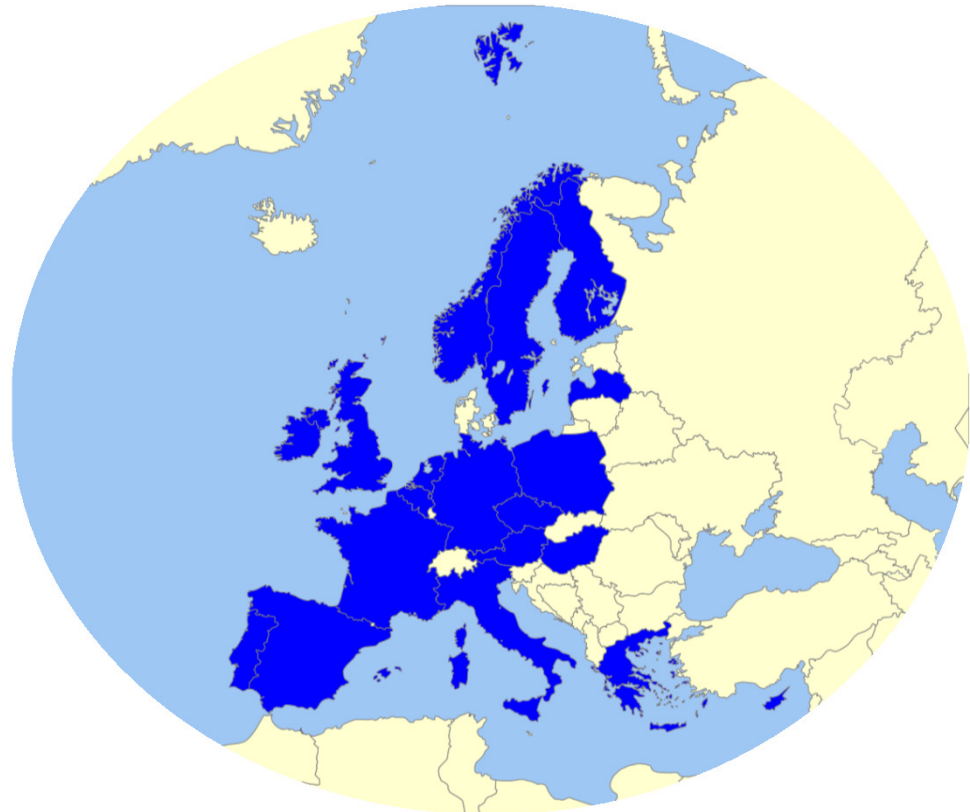
- UBL has played an important role in driving innovative research for freight logistics



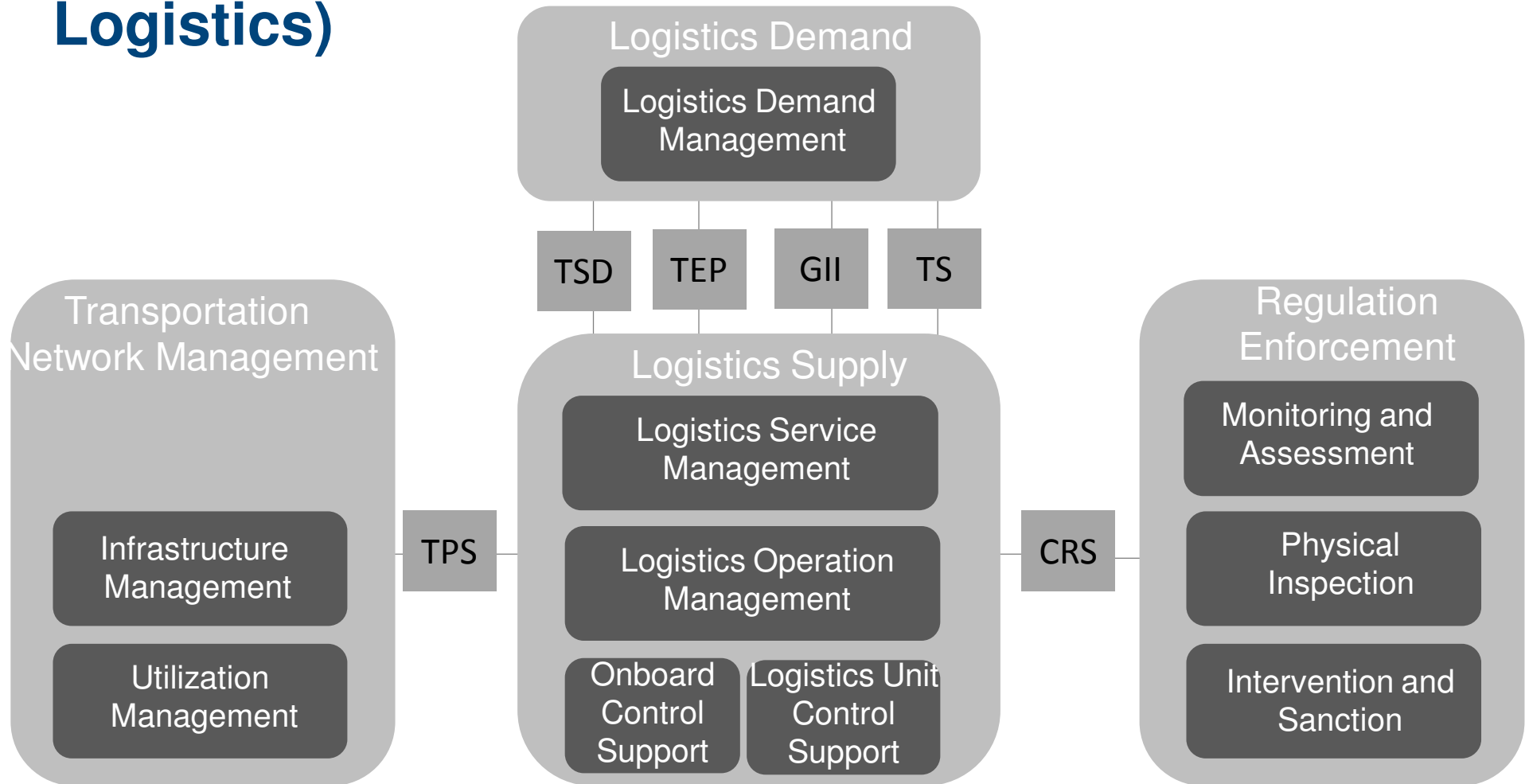
Project geographical coverage

20 European countries + 1 US partner in core projects

■ Austria	■ Italy
■ Belgium	■ Latvia
■ Cyprus	■ Netherlands
■ Czech Republic	■ Norway
■ Estonia	■ Poland
■ Finland	■ Portugal
■ France	■ Spain
■ Germany	■ Sweden
■ Greece	■ United Kingdom
■ Hungary	■ United States
■ Ireland	

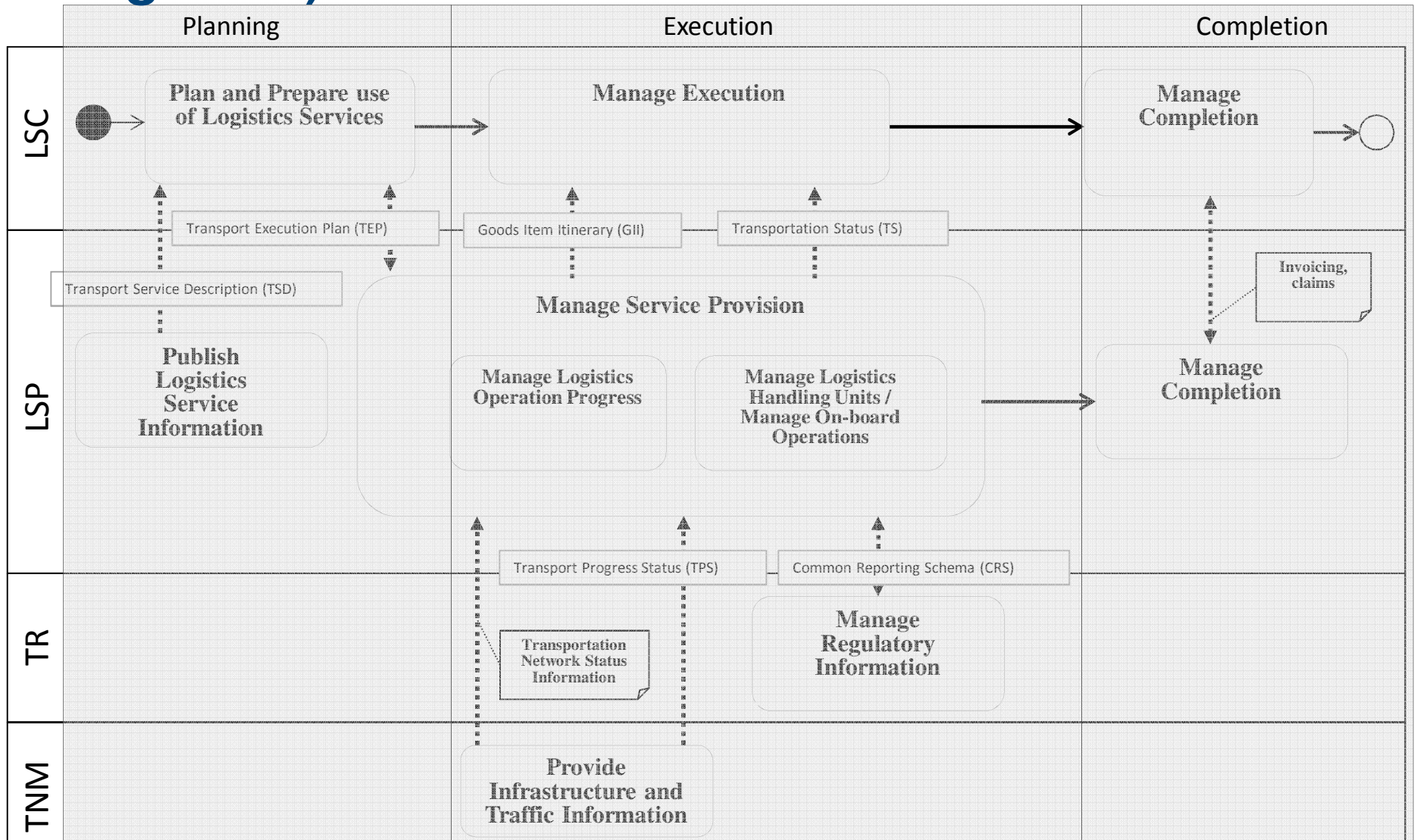


A Common Framework (for ICT in Freight Logistics)



See <http://www.its.sintef9013.com/CF/v1/> for the complete version of Common Framework

A Common Framework (for ICT in Freight Logistics)



Information Models / Documents



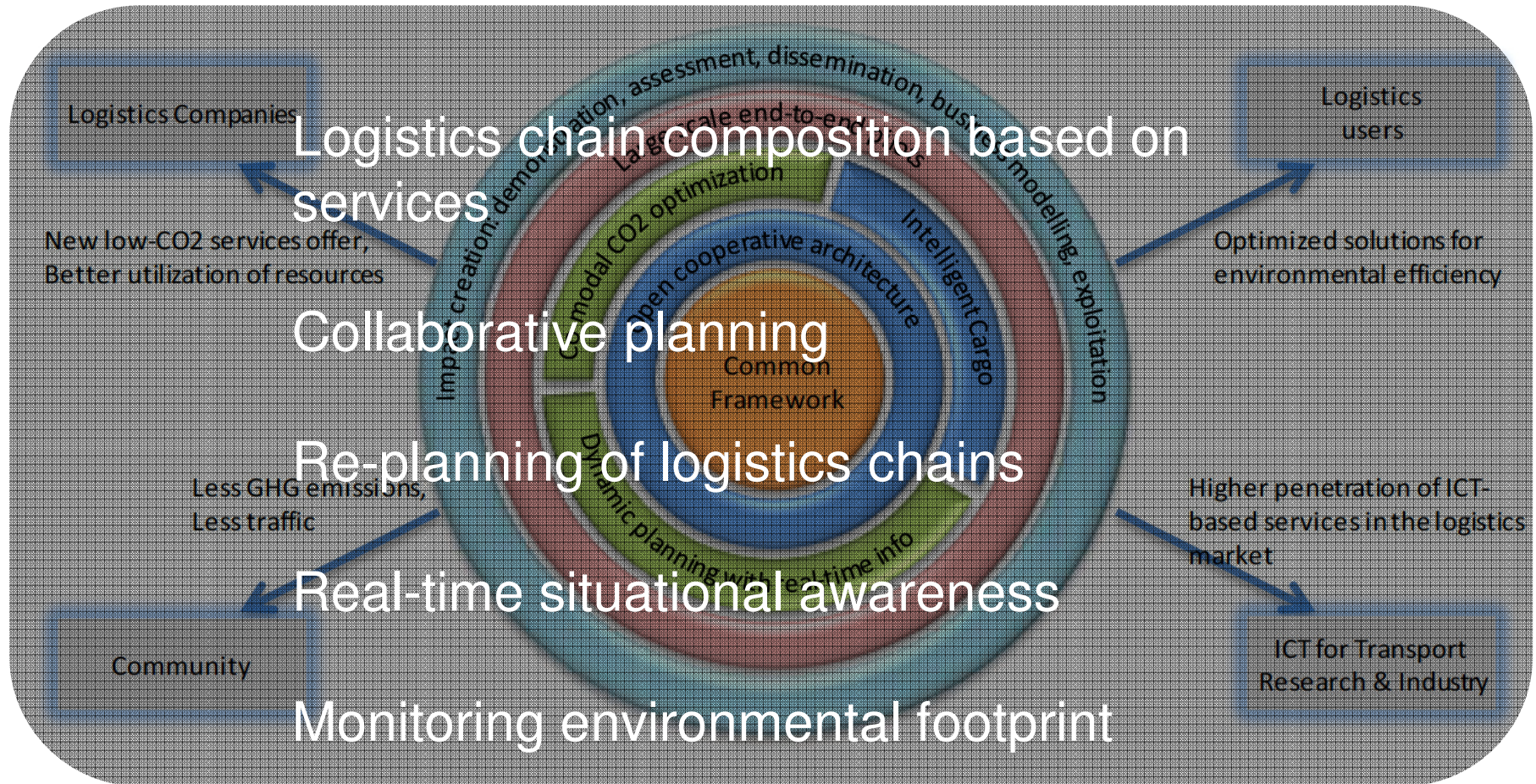
Transport Service Description (TSD)
Transport Execution Plan (TEP)

Transport Execution Plan (TEP)
Goods Item Itinerary (GII)
Transport Progress Status (TPS)
Transportation Status (TS)

Common Reporting Schema (CRS)

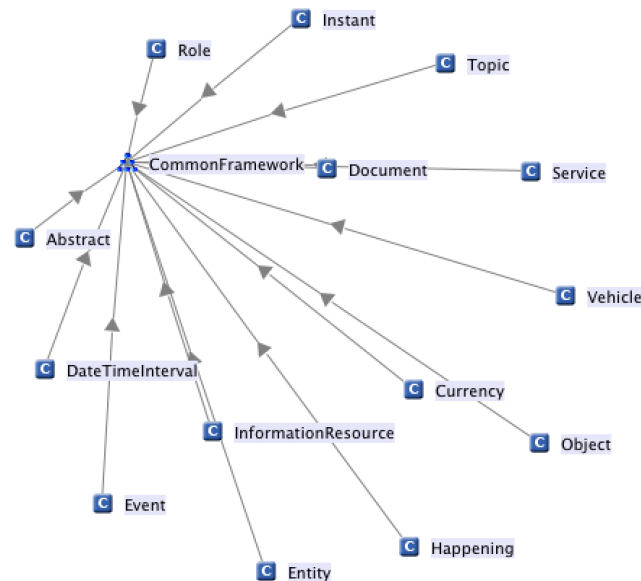
Transport Execution Plan (TEP)
Freight Invoice

The iCargo Project – CF supports business level innovations



The iCargo Project – CF supports application of semantic technologies

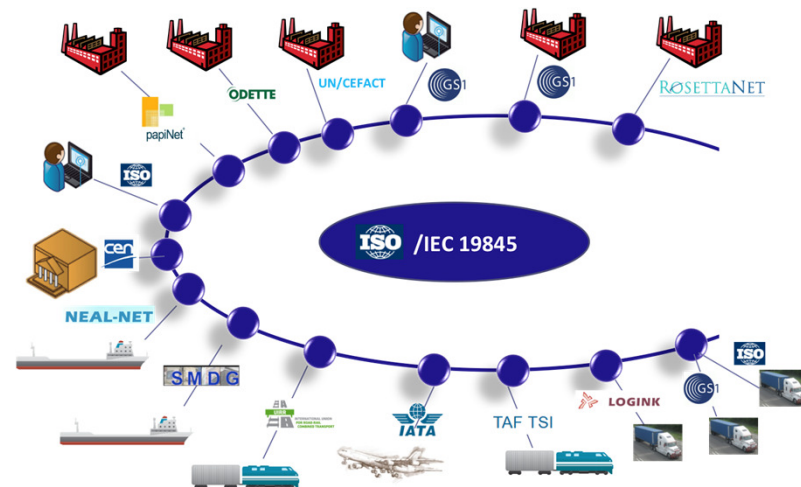
- Common Framework is a basis for iCargo semantic technologies
- Ontologies and semantic tooling for semantic gateways and inference using description logic



The iCargo Project – CF supports industry information exchange in pilots

- Pilots and how they communicate using UBL/CF
- Access points infrastructure

Green Corridor Pilot STORAENSO TRAFIKVERKET IntelliTrans PORT OF ZEEBRUGGE GTS INTERPORTO BOLOGNA	Sea-City-Air-Rail Pilot Interporto Servizi Cargo INTERPORTO BOLOGNA FAST FREIGHT MARCONI GTS INTERPORTO BOLOGNA	LSP – Shipper Cooperation Pilot DHL Unilever
----------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------



Summary

- The Common Framework has been developed in collaboration between UBL TC and EC research projects.
- UBL has made a significant contribution to freight and ICT research and development
- ...but there's still work to do!
- i-Cargo is an ICT project in FP7, visit the project web site at <http://i-cargo.eu/>