



SMART-CM Workshop

Project Achievements

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Contents



- The project promises
- The project achievements
- Lessons learned for solutions adoption

The Project promises



Achieve/Support a paradigm shift in global container chain efficiency & security:

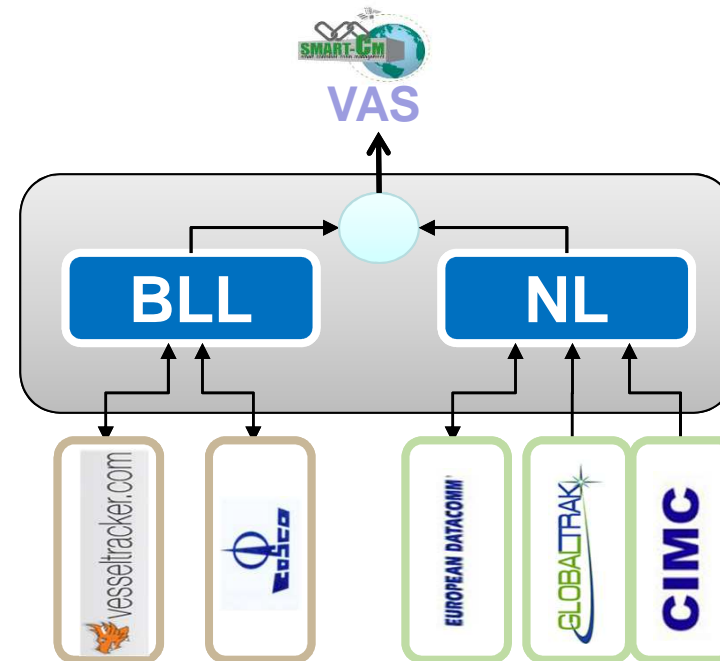
- **Container security status provision** : from post event to real time notification
- **Secured Trade Lanes Operation:**
 - from AEO & inspection based model to technology enabled non AEO & trusted parties based model
 - from regional security solutions to global solution
- **SC management efficiency:**
 - from efficient actors to efficiently interrelated through information sharing community of actors (overall chain efficiency for the cargo owner).
 - From operations execution notification to operations pre-announcement
- **Container Security technology** :
 - From technology for reregulation compliance to technology for cargo & chain visibility
 - From proprietary solutions with low market penetration to standardized Technology, offering global solutions & competing through excellence

Project achievements (1)



Single Window for container security

- 1 Smart-CM platform connector
 - Retrieve CSD status info through Neutral Layer (NL)
 - Standardized security statuses (SDMF)
 - Route any 3th party information through Business Logistics Layer (BLL)
- 1 Neutral Layer GUI
 - Track and trace security status info
 - Container ID is linked to MRN
- 1 Customs added value service
 - Containers authorized opening procedure
 - Interactive communication with CSD
 - Control via NL Layer GUI or handheld



☺ Easy to incorporate other technologies that provide data services

☺ Stakeholders connect through one interface

Project achievements (2)



A Neutral Layer concept

Neutral interoperability

- No bias towards specific CSD technology providers
- No bias towards customs or businesses
- Well defined syntax/semantics of provided information

Neutral implementation

- Testing **data integrity** along the whole process of security related container info gathering
- Independent of **technology**
- Not infringing on ownership of **data**

Neutral information administering organization

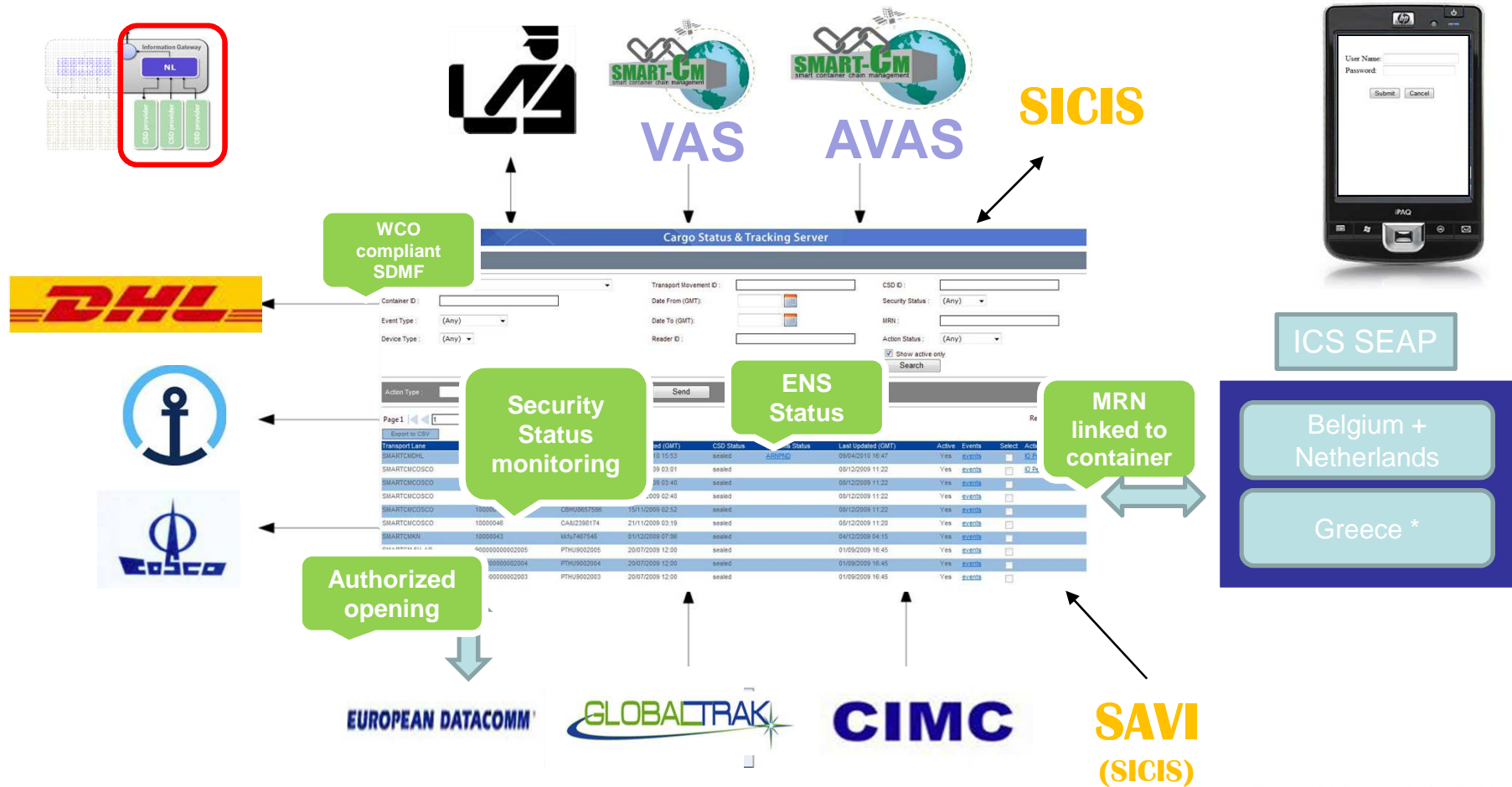
- Managing the platform and provisioning information from the neutral layer to the stakeholders
- Not influencing competition
- No exclusion of members
- No commercial interests or objectives

Neutrality for customs / trusted environment for business

Project achievements (3)



Standards compliance & interoperability achievement



Project Achievements (4) ICS SEAP

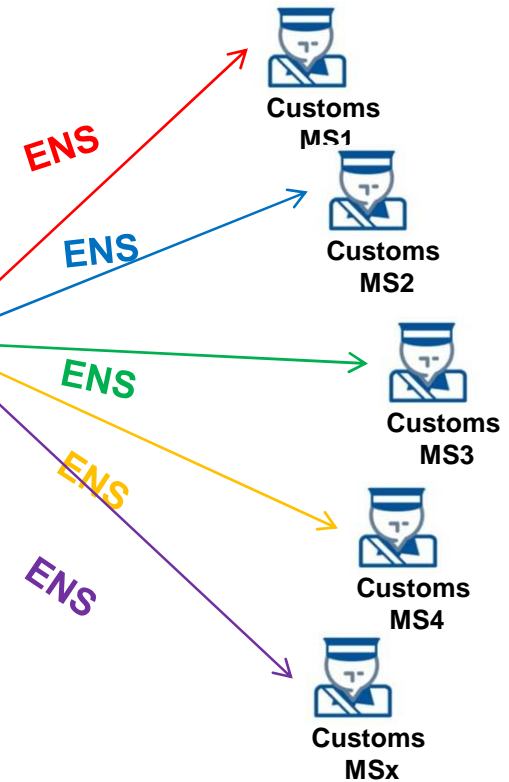
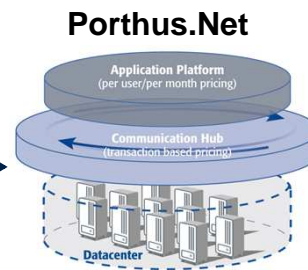


Single window for B2C interface

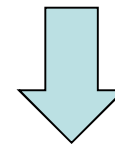
SEAP as a single window for B2C



**1 ENS
format**



- 1 single message format to reach a broad range of EU Member States for ENS declarations
- Integrating MRN with security status
- Linking ENS status to container

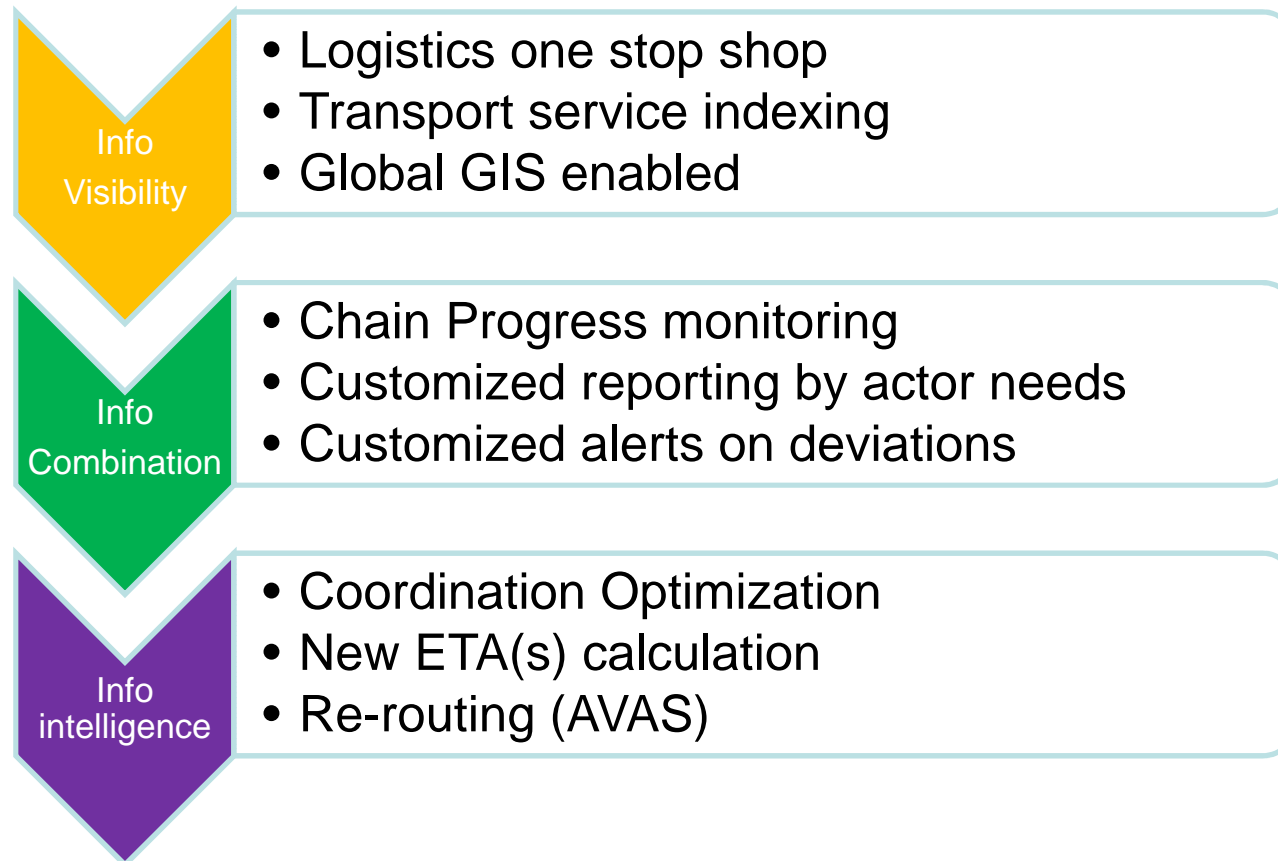


Smart-CM platform

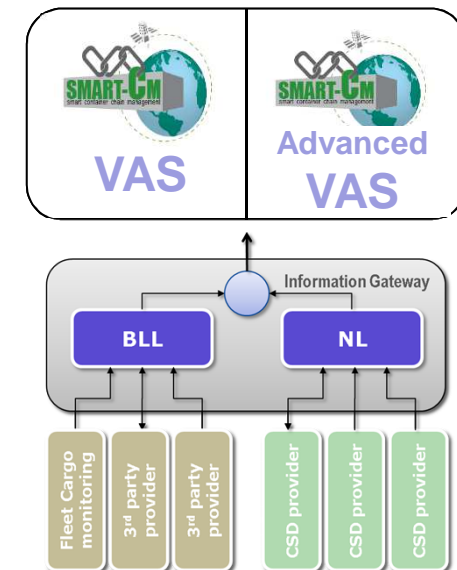
Project Achievements (5)



Business Added Value Services Platform



•Increased Efficiency



Project Achievements (6)



Implementation of a “global” CEN WCA process

1. CSDs Standardization for meeting industrial requirements for security

1. Standardisation of **CSDs** operational & technical characteristics

2. Message standardisation between CSDs platforms & **neutral platform (s)**

3. Middleware platform communication standard: adaptation of GS1 standard.

2. Large involvement of **CSDs providers** : 95% EU Industry, 75% of USA industry, key Chinese participants.

Lessons learned for Solutions adoption (1)



- **Secured Trade Lanes Implementation :**
 - Non EU Customs are seeking to trusted parties based models
 - Technology is accepted as a “partner” in security achievement in all continents.
 - A global solution for all modes of transport is imperative & should be achieved through customs agreement & International cooperation agreement .
- **SC management efficiency:**
 - Real time information provision is feasible & highly appreciated
 - Sharing of business information only in trusted platforms
- **Container Security technology :**
 - Technological improvements in accordance to the CEN WCA
 - Decrease of CSDs prices expected

Lessons learned for Solutions adoption (2)



- **Platforms role & interoperability :**
 - Big investment by industry actors on IT platforms.
 - Only specialized platforms bringing added value are accepted
 - Real time information provision is a winning factor for acceptance
 - Interoperability achievement is a community agreement challenge and should be supported as such by open low cost technology
 - Global logistics is a complicated environment which can afford only Simple solutions
 - Ports Community Systems are recognized as trusted environments by the industrial actors and should constitute pillars for future VAS and customs compliance services .



THANK YOU !!!

10/13/2011

Diafaneia apon humbert final review





Back up slides

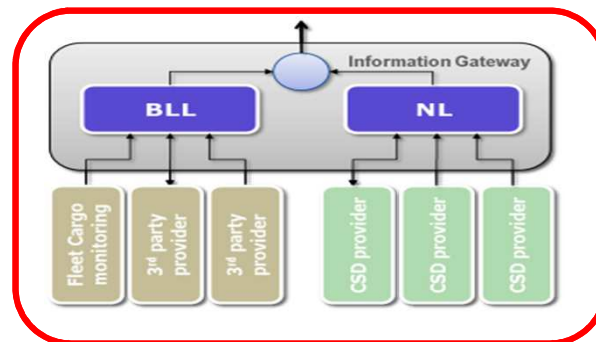
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The Project achievements



Development of a state of the art platform which offers:

- Implementation of technology enabled secured trade lanes at global level
- Cross sectors requirements fulfillment for SC security and efficiency
- Exchange of trusted information among the public and private stakeholders of the SC in order to facilitate customs clearance procedures & transactions related to security.
- Sharing of information among the transport & logistics industry actors of the chain in the attempt of added value return due to better chain management and events reaction.

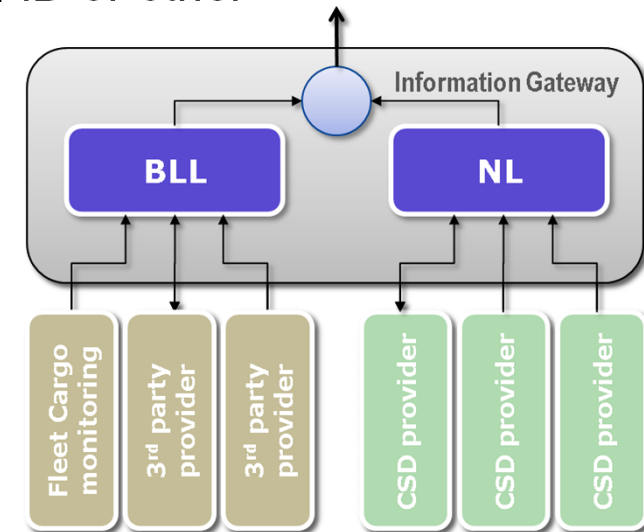


The Project achievements



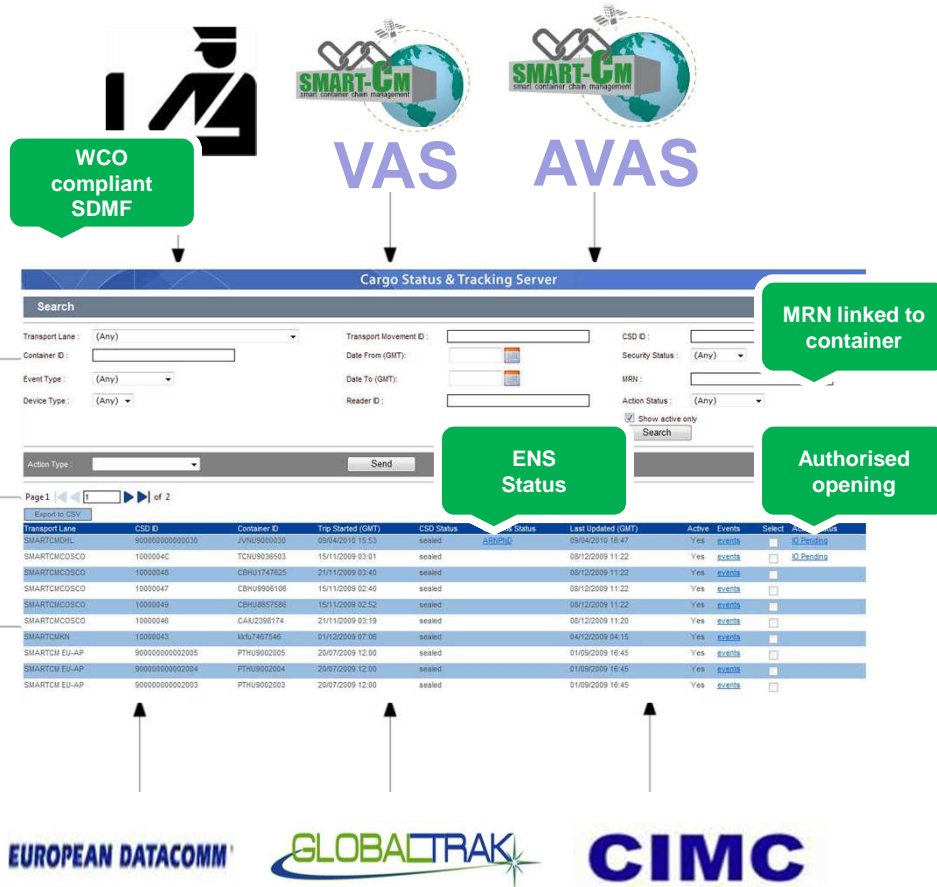
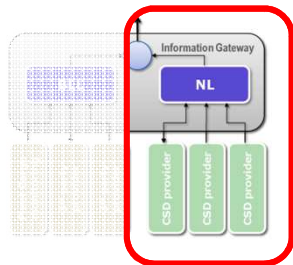
Single Window for container security

- Open platform to route any type of information or source
- 2 types of information sources identified
 - **Security Status information**
 - through a neutral layer (NL)
 - Typically about container security via CSD, RfID or other
 - Statuses mapped to standard SDMF
 - **Transport status information**
 - Through business logistics layer (BLL)
 - Typically AIS, container tracking
 - Transport services provided within VAS

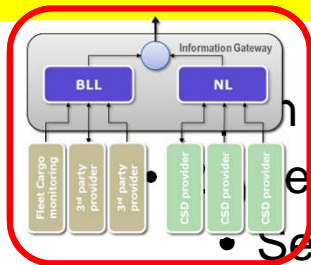


- Easy to incorporate other technologies that provide data services
- Stakeholders connect through one interface
- BLL and NL as different entities using same platform services

Neutral Layer scenario



Information gateway



Information Gateway platform to route any type of information or source
 of information sources identified

- Security Status information

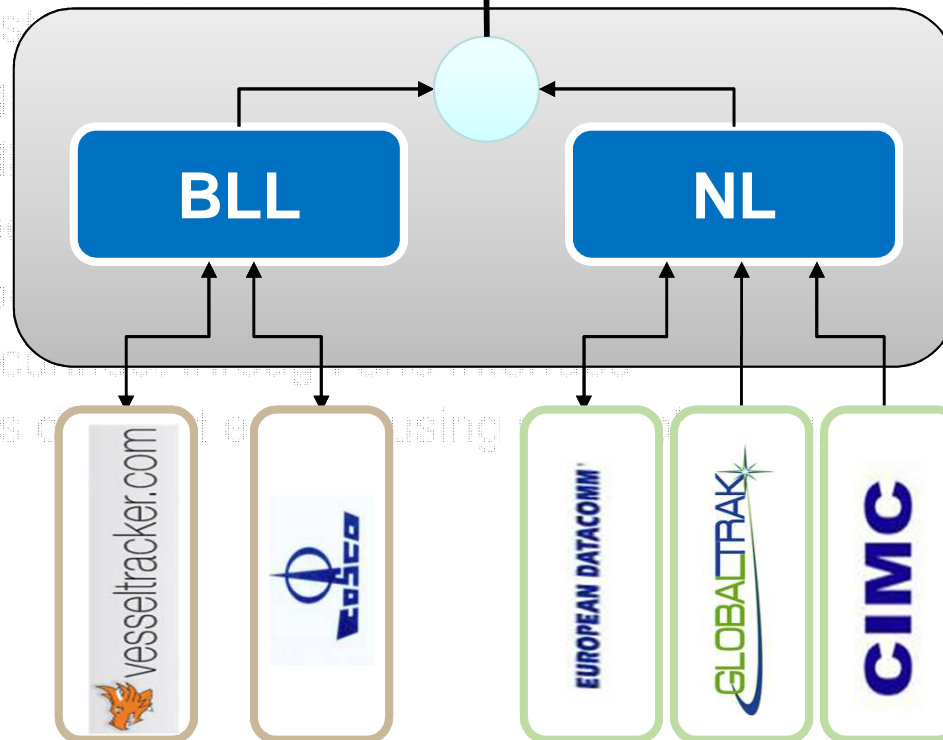
- through neutral layer
- Typically about container VAS via CSD, RFID or other
- Statuses mapped to standard SDMF



VAS

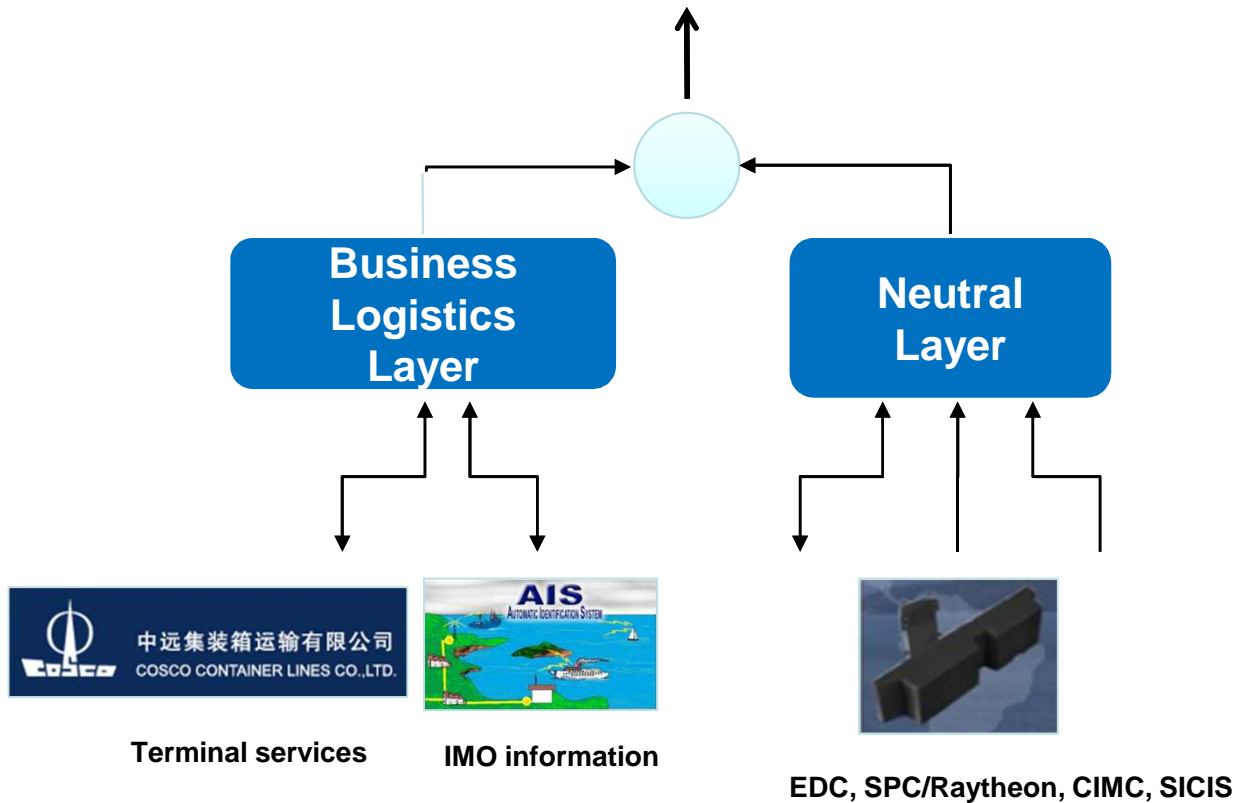
- Transport services

- Through
- Typical
- Transport

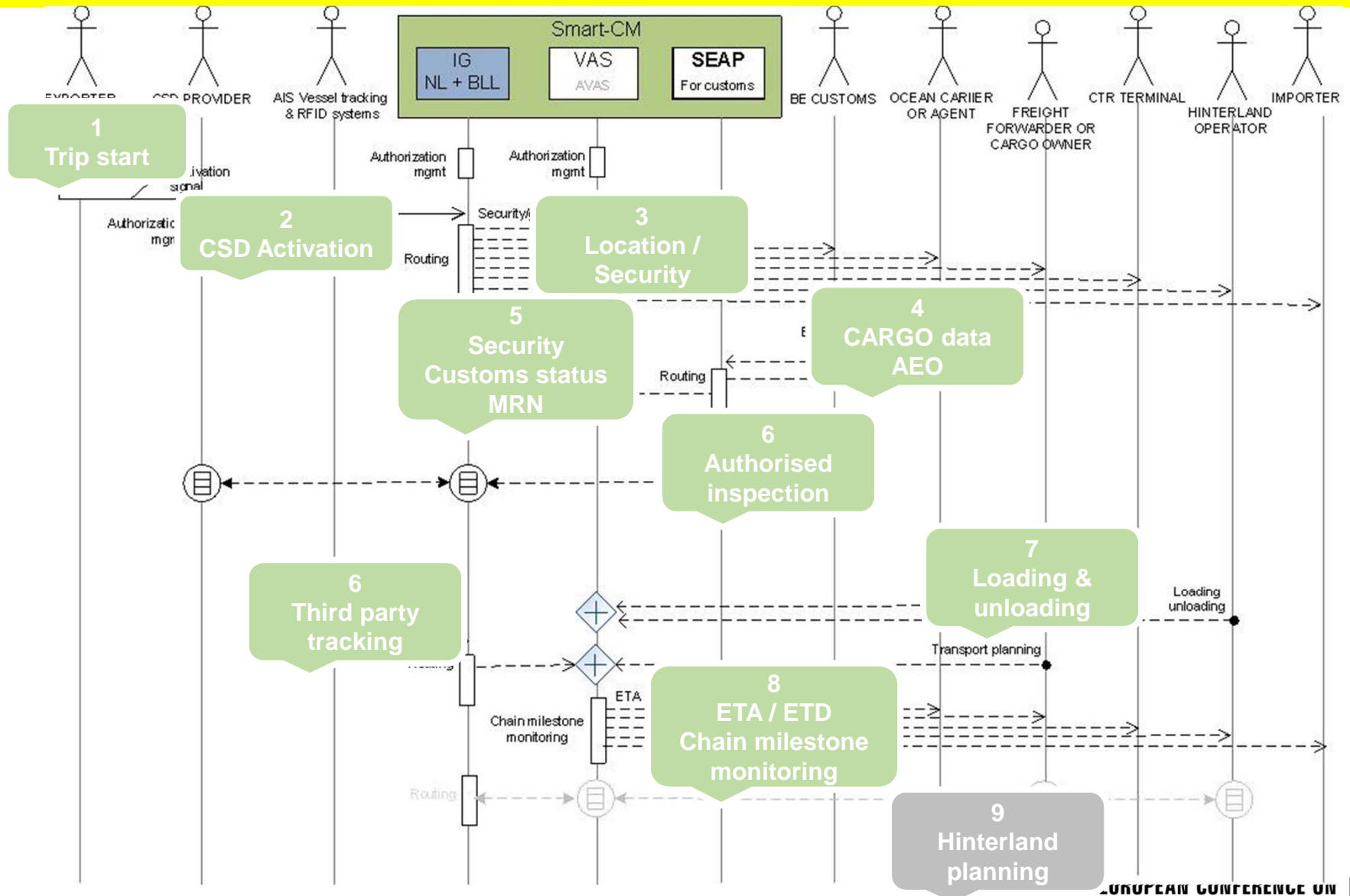


- Easy to incorporate services
- Stakeholders
- BLL and NL as central entities

Smart-CM platform



Operational Scenario





WHAT VISION ? (2/3)

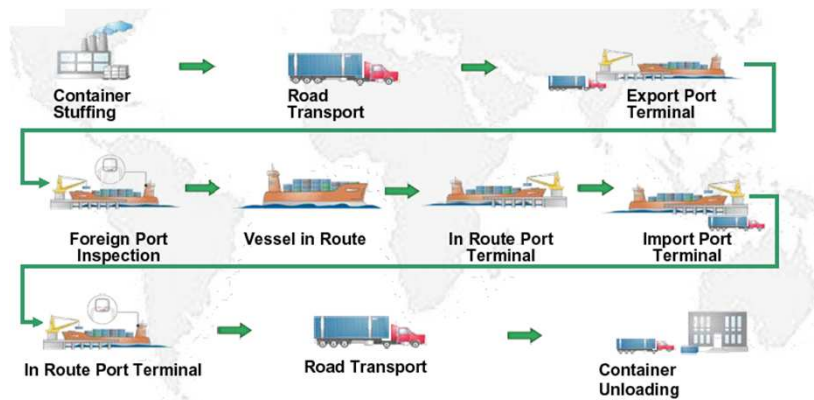
Support implementation of “Green Lane concept” in order to setup and operate Global Secured Trade Lanes

WHY

- For logistics regions: Differentiation by logistics and technological innovation
- For industry: Lead time reduction, visibility, efficiency, reliability
- For government: Security, implementation of control measures

HOW

- Authorized Economic Operators
- Container stuffed, closed and secured with CSD's (container security devices) against unauthorized access en route
- Data transfer of cargo information for advance risk based assessment of inbound containers
- Accelerated customs clearance (green lane) of 'safe' containers on arrival
- Door-to-door monitoring and exception reporting on cargo flow and logistics activities



Project Achievements



- A Single Access point for container status information provision independently of the CSD
- A neutral Organisatio