

# VOLVO

*Logistic Services*

*by*

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**Volvo Technology Corporation**

EUROPEAN CONFERENCE ON  
4<sup>TH</sup> 4 TRANSPORT LOGISTICS

ICT  
←←



# Volvo Technology – a business unit within the Volvo Group



Volvo Trucks



Renault Trucks



Mack Trucks



UD Trucks



Buses



Construction Equipment



Volvo Penta



Volvo Aero



Financial Services

Volvo 3P

Volvo Powertrain

Volvo Parts

Volvo Logistics

Volvo Technology

Volvo Information Technology

Volvo Group Real Estate – Volvo Business Services

# Agenda

- SITS
  - Background
  - Aim and Objectives
- SITS Intermodal ITS concepts
  - Driver , Cargo and Goods Verification
  - Deviation detection
  - Accurate information and statistics



Secure Intermodal Transport System

*for a secure, efficient and  
harmonized transport chain*

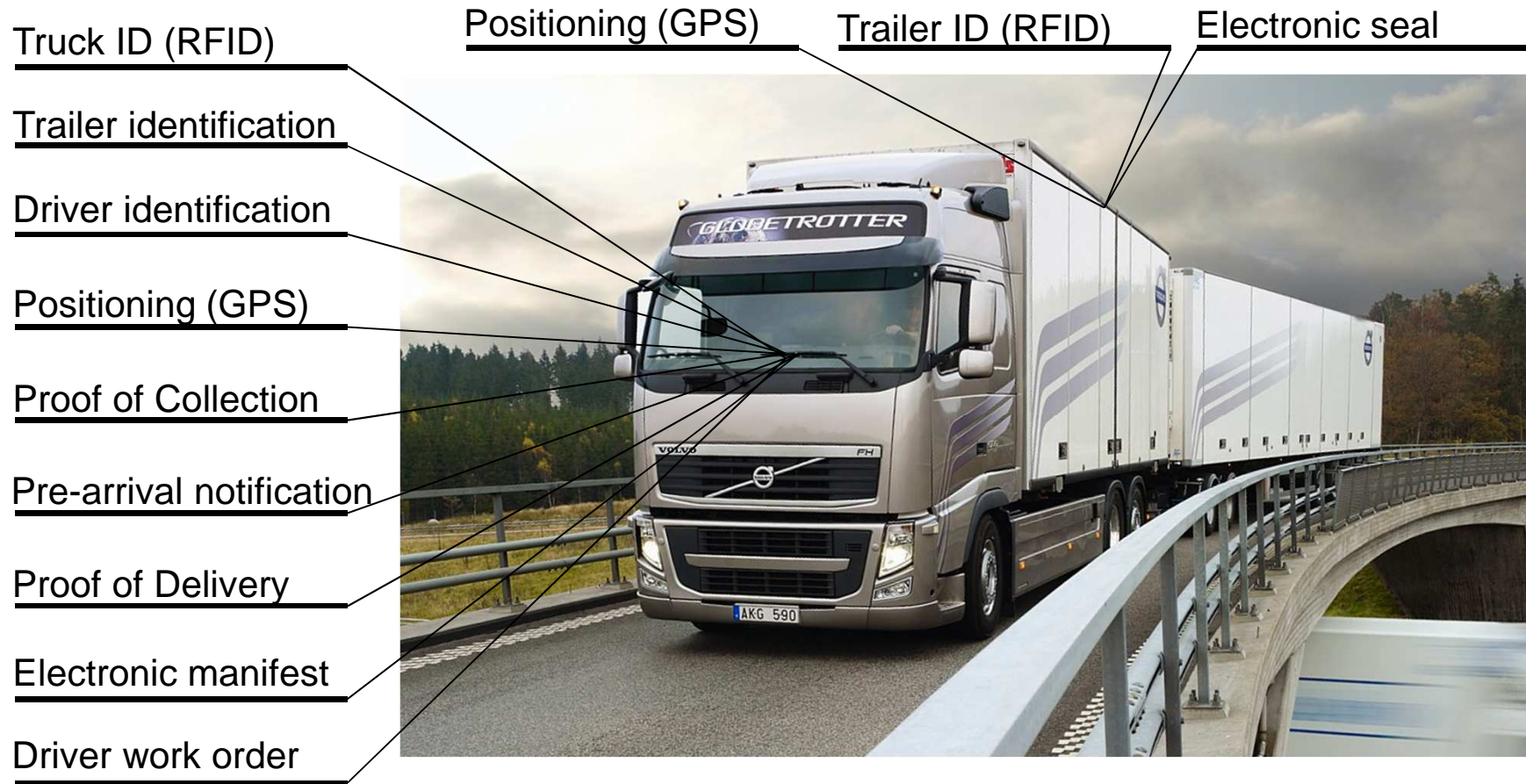
# Background

## *The Port Pilot from 2008*

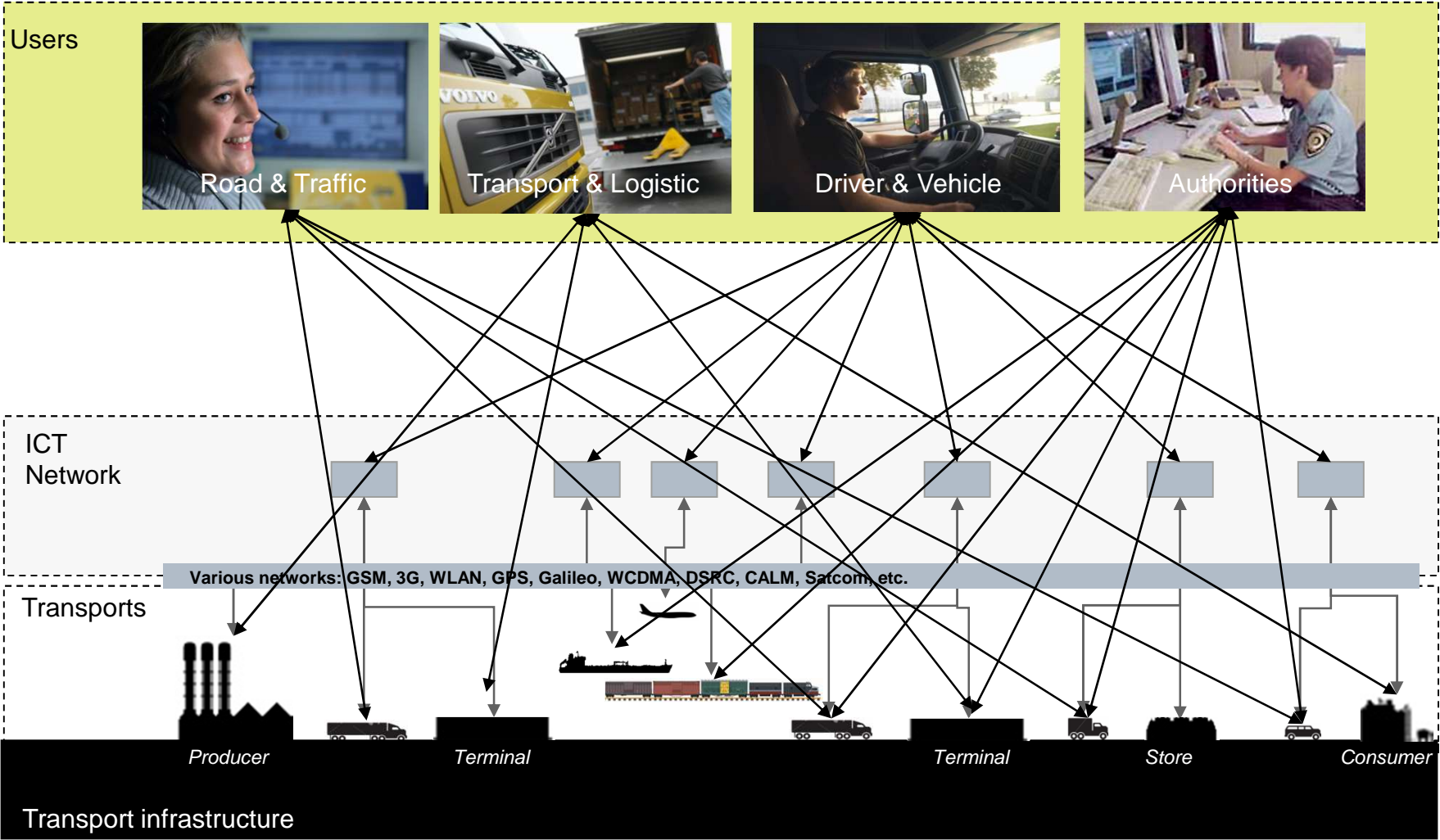


# Background

## *The Port Pilot from 2008 - Truck Concepts*



# Communication today



# Aim and objectives

The aim and objectives of the project:

- Ensure that public security, safety and privacy are properly considered in the emerging transport solutions and standards developed
- Enhance cooperation between public and private stakeholders in the area of critical transport systems to enable supply chain visibility for deviation management and security threat identification
- Develop and propose harmonization suggestions to national and international initiatives such as standardization, projects and work in the area of Intelligent transport systems
- Implement and promote a communications framework for increased and harmonized communication between stakeholders
  - Demonstrate security and efficiency enhancing services using the suggested framework.

# SITS partners



CHALMERS

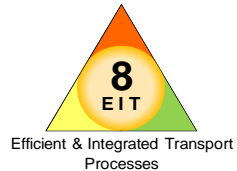


*Information and communication is the key to an enhanced efficiency and security*

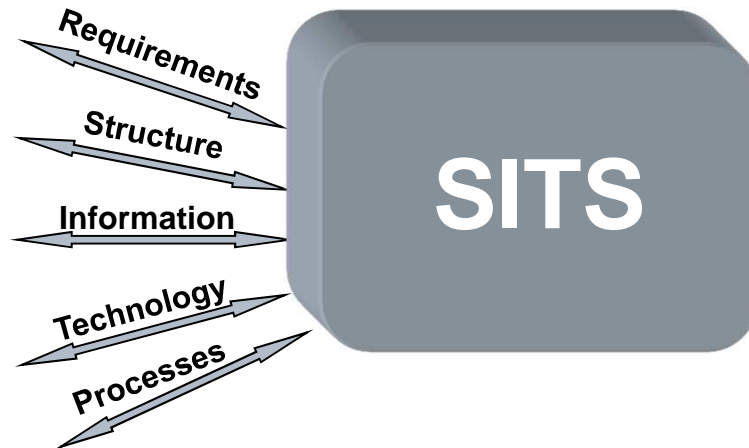
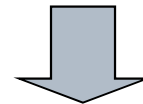


# Approach

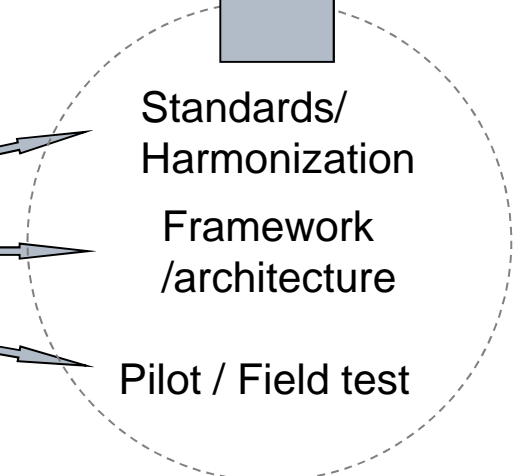
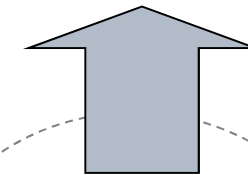
Input from partners/projects



Workshops with partners  
Requirements  
Concept development



**Harmonized communication will facilitate security, visibility and efficiency**



# Aspects of transport performance



***The need for better and increased information flow is a common driver for all aspects***

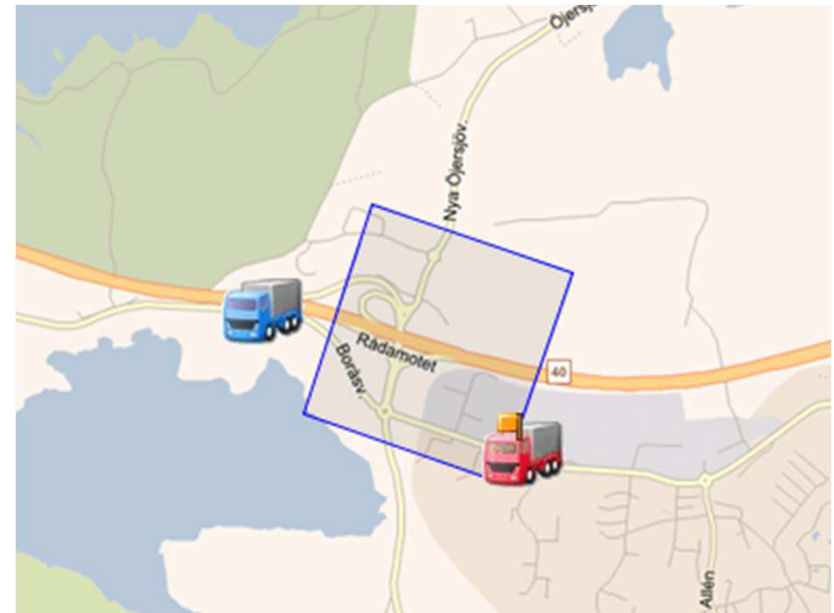
# Potential ITS services for improved security and efficiency

- Driver, goods and cargo identification for access control



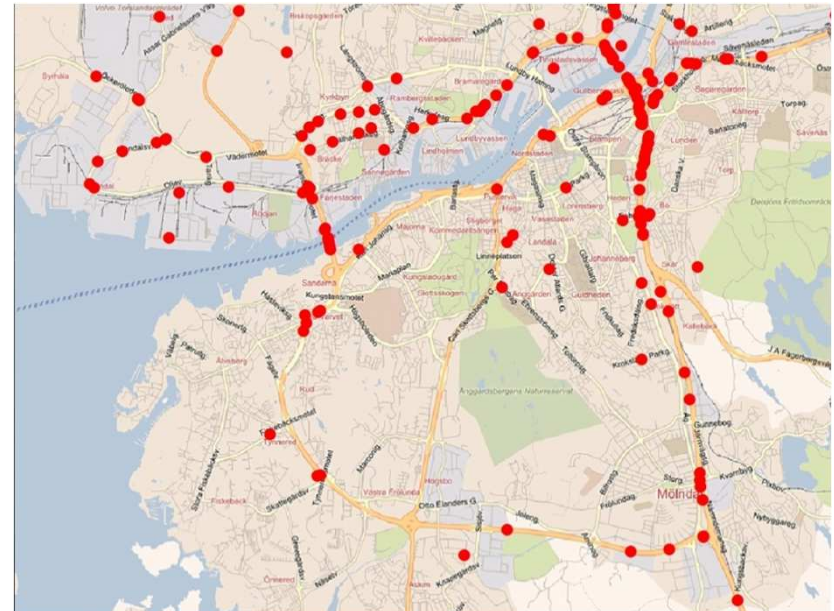
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- Driver, goods and cargo identification for access control
- Geofencing or RSU:s for deviation detection and targeted communication



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- Geofencing or RSU:s for deviation detection and targeted communication
- Reliable statistics to various authorities

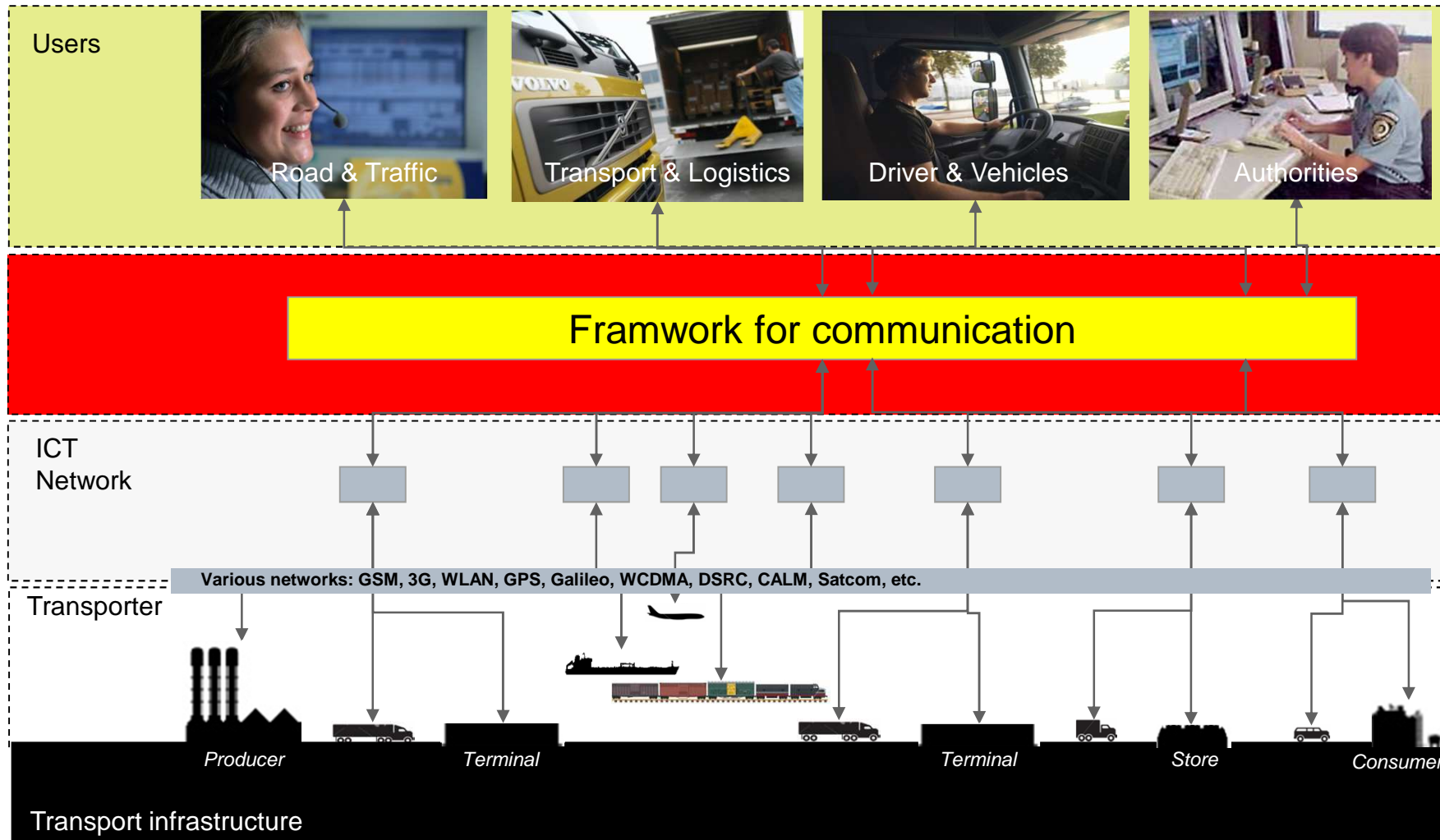


# Potential ITS services for improved security and efficiency

- Driver, goods and cargo identification for access control
- Geofencing or RSU:s for deviation detection and targeted communication
- Reliable statistics to various authorities
- Ensure that the rescue service has access to accurate information in case of accidents



# Preferred Communication



# Challenges

- Ensure issues before implementation:
  - Do all transport chain actors want Intelligent Goods/Cargo and more efficient transports?
  - Investment cost vs ROI
    - Efficiency -> Security/Safety and Environmental
- Cooperation among business partners
  - Various objectives
  - Various businesses



# Challenges - *continuation*

- Implementation challenge
  - Ensure robustness and reliability
    - The information exchange must be robust and totally secure
  - Brand independent
  - The solution should get high enough market penetration
- Concept evaluation
- Harmonization / Standards

# Summary – where do we go from here...

