

## CORE Work Package 10 – introduction

CORE WP10 covers two related demonstrators to validate the applicability and benefits of supply chain management, security and visibility and specifically show the way towards a Global Secure Supply Chain.

The Felixstowe centric Work Package 10 will explore, develop and demonstrate five commercial seamless, web based, data pipelines that link buyers and sellers with accurate commercial data providing supply chain visibility.

The data pipelines built by Descartes to service Sainsbury imports to the UK and the data pipeline built by Metro Shipping to service JCB exports from the UK and other demonstrators have followed the same development and delivery path. The development and learning process has been approached by the Work Package 10 team together.

### The aim of CORE Work Package 10 is to:

- Safeguard and improve supply chains whilst expanding transport and logistics networks to enable industry throughout the European Union to have effective access to the Single Market and the international market.
- Improve misunderstandings and a lack of common approaches to supply chain management.
- Create a closer alignment of institutional capabilities with operational requirements to minimise transaction costs of supply chain operators and delays at borders due to freight screening and physical inspections.
- Provide the data, services and visibility to assist freight forwarders to manage security in a much more dynamic trader and trade lane environment allowing them to adapt to both market changes and their clients' urgent shipments and changing demands.
- Improve co-operation between different groups of stakeholders in Supply Chain Security.
- Provide effective information sharing amongst supply chain stakeholders through interoperable systems and international data standards.

### CORE Work Package 10 will deliver the following activities in order to achieve the above aim:

- Successful development and operations of each of the five pipelines
- Participating customers identified
- Commercial viability and attractiveness of the pipelines to customers
- Formulation of a data carrier structure to international standards
- Pipelines putting data into the data carrier structure format
- Pipelines capturing the right data at the right time
- Pipelines sending the right data at the right time to the UK port community system, Destin8
- Destin8 receiving the right data at the right time in the right format
- Destin8 sending the right data at the right time to the participating UK border agencies

- UK border agencies receiving the right data at the right time
- Pipelines sending the right data at the right time to other port community systems
- Data pipelines sending the right data at the right time to a range of other customs and border agencies in countries other than the UK

CORE WP10 will be set up as a Living Lab to validate the applicability and benefits of supply chain management, security and visibility and specifically show the way towards a Global Secure Supply Chain.

## Progress to date

By the end of the first year Work Package 10 included five different commercial, sustainable data pipelines, has produced a new data carrier structure to international standards and conformity and has transferred the first pilot data files from the pipelines to the Port Community System. In the first six months of the second year we are refining the pipelines, their dashboards, the data carrier structure, waypoints and messages in preparation for a more operational approach.

In the first six months of this second year (May 2015 to October 2015), Work Package 10 has completed all necessary preparations to make the Living Lab operational. We have analysed and established the data and IT requirements from the use cases, developed some functionality of the data pipelines, developed UML diagrams and XML schemas and piloted initial data transfer between pipelines and a central data repository and between pipelines and a Port Community System. We have continued to educate border agencies in the pipeline concept and embarked on behavioural change for the Freight Forwarder / pipeline providers to extend their business role and data capture capability upstream to the Consignment Completion Point – a domain previously held by the export Customs Broker and export Freight Forwarder. Having established the technical capability of the data pipelines and their ability to capture and transmit data, operational preparation has also included encouraging a more robust contribution by the buyer / importer / shipper to demand better data upstream to assist them in compliance, risk management and supply chain security / visibility.