

CORE Work Package 11.11 – progress summary

Main objectives of the demonstrator

The main objective of this living lab based research is to create Safe and Secure Trade lanes. In this demonstrator, a safe and secure tradelane is considered a synonym for the Trusted Trade Lane (TTL) concept. To realize a safe and secure trade lane we have to research and demonstrate several objectives. These objectives are in random order:

- Increasing data re-use, data exchange and data security between parties which are involved in the transport e.g. Client, transporter, customs.
- Door-to door track & trace
- Mitigation of risk of the transport for the customs by transparency of the transport
- Mitigation of compliance risks regarding parties, products, country, and end-use
- Aligned/common risk assessment for the total trade lane
- Automated data gathering, where possible from the original data source
- Integrated IT systems between involved trusted parties in a supply chain to create seamless information sharing

We want to accomplish these objectives through a demonstration with our clients and partners. The base for this demonstration is a new self-build IT system based on the knowledge we gathered in the Cassandra project. The Cassandra tool cannot be re-used due to technical difficulties in the connections.

The new tool is to be connected with the directly involved parties in the trade lane. The strength of the tool is supported by agreed and aligned procedures with our screened partners. To make the concept work we need to collaborate with several customs authorities, and our partners. This also means that it is connected to the Customs dashboard, which creates view possibilities for the customs authorities.

When keeping all these perspectives in mind the main objective is to create a working and accepted trusted trade lane framework with our partners that is flexible enough to grow in the future and can be implemented at other partners to create more Trusted trade lanes.

Partners in the demonstrator

Each partner has a different task in the demonstrator:

- Seacon Logistics b.v. – task and demonstrator leader, including specification of the as is and to be situation, specification of use cases for evaluation, and development of the demonstrator solution;
- Dutch Custom Authority – description of policy measures and supervision, expected benefits for Customs, and implementation of the use cases for data sharing, visibility and supervision concepts;
- KLPD - description of security measures, risk assessment, policy measures and supervision, expected benefits for KLPD, configuration of CORE's services to deliver Supply Chain decision support in the Supply Chain design phase, and implementation of the use cases for data sharing, visibility and supervision concepts;

- Intrasoft – description, development, integration and implementation of visibility solutions, configuration of CORE’s services to deliver Supply Chain Visibility and data collection during piloting;
- TNO –work package leader, including review of the deliverable and a role in the description of processes, parties and roles.

Living Lab Ambition

On our living lab agenda there are two action points which we want to realize within the three years of the project as support for the TTL: IT tool for efficient exchange of quality/trusted data, and a new certification idea to check parties for trustworthy.

Both action points are elaborated in next paragraph.

Modular tooling to support Trusted trade lane

The ambition of the living lab ‘Design for Security’ is to realize modular tooling, safe and secured trade lanes with mitigation of risk, and improved systems and processes to make customs processes more efficient and effective. In brief, we want to realize a trusted trade lane with our trusted partners within the next three years. This solution includes the IT, procedures and security implementation, and cooperation with our partners. The approach of the project will be as modular as possible to keep it flexible and future proof. Therefore, the IT-tooling, which will be developed by Seacon to support the trusted trade lane, is modular as well and made directly applicable for the operation at all involved supply chain parties within this demo.

To support the trusted trade lane, multiple IT systems should be integrated or linked to the modular tool. The trusted trade lane should lead to reduced risk of non-compliance and delays, also to reduce administrative burden. Two cases are introduced and therefor the Living Lab solution need to be designed in such a way it is universal and various supply chains are/can be supported. The design is visualized in the figure beneath. The IT modules are: Compliance check, Booking portal, T&T, customs dashboard, and the data pipeline.

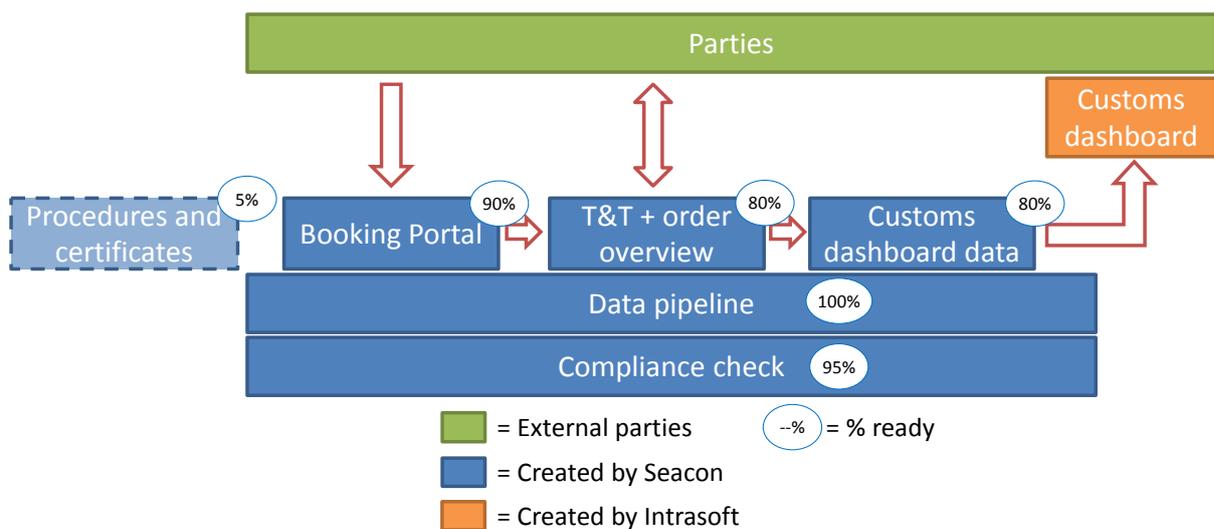


Figure: Desired modular IT tool to support the trusted trade lane within the Living lab ambition

The benefits of this modular IT tool for this living lab partners will be the availability of trusted data in an early stage of the supply chain. Which will be innovative due to the direct connection with supply chain partners which eliminates the risk of miscommunication and creates early insight in the transport for the customs. This is a crucial aspect in achieving the aim of the CORE project: a Trusted Trade Lane.

This ambition is will be realized by Seacon with the help of our own build modular IT Tool which will be implemented after a pilot at minimal two clients at the start and more when these proof to be successful.

Procedures and certificates

The idea of this module is to create insight into the trustworthy, next to the compliance screening of the transports, of our partners based on their achieved certification and all procedures which they have in control. This is an extra method for screening our supply chain partners that are operating in the trusted trade lane. This module will not be elaborated in the first two cases due to the fact that the TTL is able without this module.

Literature and Case study

This deliverable is a research regarding the possibilities and effects of disruption in the trade lane between EU and Asia. The outcome will be a cause and effect diagram for a certain case study which is matched with the literature. This outcome is putted into a cause and effect tool which indicated where disruptions in the supply chain are possible. This can not be demoed but is crucial for the insight in risk in a TTL.

Scope of the demonstrator

For this Living Lab different clients are selected which are used for the TTL. The lanes of client A and client B are elaborated. Client C is investigated in the literature.

Next steps

The next steps for M18 are to finalize the design of the tool and realize the first module of the IT tool: Bookingportal. Before M18 the cause and effect analysis in the literature will be finalized.

