

PROJECT

CITRIMACC

Circulation Pilot with Continuous Control of Multi-Modal Air Cargo Containers

Funding: European (Horizon 2020)

Duration: Aug 2015 - Jul 2017

Status: Complete

Total project cost: €3,412,665

EU contribution: €2,388,865



Call for proposal: H2020-SMEINST-2-2014

[CORDIS RCN : 197910](#)

Objectives:

Air cargo transportation systems are designed to provide fast and efficient shipment of goods, two features that make them highly vulnerable to potential security threats.

The main objective of the project is to implement and validate in real-life environments a system that addresses these security risks and is aligned with the time and cost realities of the air cargo industry so it does not interfere with the trade flow.

The project concept is a smart and secure cargo container and information exchange platform that can reduce screening costs and eliminate tampering risks by combining advanced composite materials, secure PIN-code lock, electronic shipping documents (e-freight), web-based software for data storage and a 24/7 fully redundant communication systems based on GPS, GPRS and RFID technology for continuous real-time visibility.

The project will select participants across the entire value chain (shippers, logistics services providers, handling agents, airlines, customs, forwarders and consignees), and select two closed-loop transport lanes to execute the pilot. The consortium assembles 4 research performing SMEs with unique and complementary expertise, who will produce together a pre-series of 250 containers, obtain the relevant approvals from FAA/EASA, and deploy the solution with the pilot customers.

The project results, as compared with the current packaging, transport and security management methods, will be widely disseminated via industry associations such as IATA, TSA and TIACA. A full industrialisation and commercialisation plan will be developed in the course of the project.

Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Lead Organisation:

Leap Development Bv

Address:

ZWEEDSESTRAAT 8 A 26
7418 BG DEVENTER
Netherlands

EU Contribution: €339,274

Partner Organisations:**Eyedpro Ltd****Address:**

SPA ORCHARD WITHERSLACK
GRANGE OVER SANDS
LA11 6RS
United Kingdom

EU Contribution: €294,000

Interbox Holding Bv**Address:**

ARENT JANSZOOM ERNSTSTRAAT 215
1083 JN AMSTERDAM
Netherlands

EU Contribution: €1,062,994

De Richard Sarl**Address:**

AVENUE GD CHARLOTTE 126
4531 DIFFERDANGE
Luxembourg

EU Contribution: €692,597

Technologies:

Freight transport technologies
Smart secure cargo container to eliminate screening and tampering

Development phase: Research/Invention

STRIA Roadmaps: Network and traffic management systems

Transport mode: Multimodal transport

Transport sectors: Freight transport

Transport policies: Safety/Security, Digitalisation

Geo-spatial type: Other