



PROJECT CORE

Airbus Demonstrator

DHL Supply Chain Spain
Valencia, 10/03/2016 UN/CEFACT



AGENDA

1 CORE GENERAL OVERVIEW / OBJECTIVES

2 CURRENT DHL- AIRBUS PROCES

3 CONNECTIVITY INFRASTRUCTURE

4 VISIBILITY TOOL PROCESS

5 BENEFITS OF VISIBILITY TOOL

6 Q&A



1

CORE GRAL OVERVIEW & OBJECTIVES



DHL PROJECT OBJECTIVES



- Arrange **more secure transportation** or a combination of services that will not impact on **time-sensitive shipment** needs

- Adapt **security controls** for AoG real-time shipment tracking **from pickup to delivery**

- Conducting a **review of the risks** of all security incidents on a route

- Designing **hardware** components to be embedded along the supply chain containers

- Developing **software** interfaces providing real-time transportation and cargo tracking.

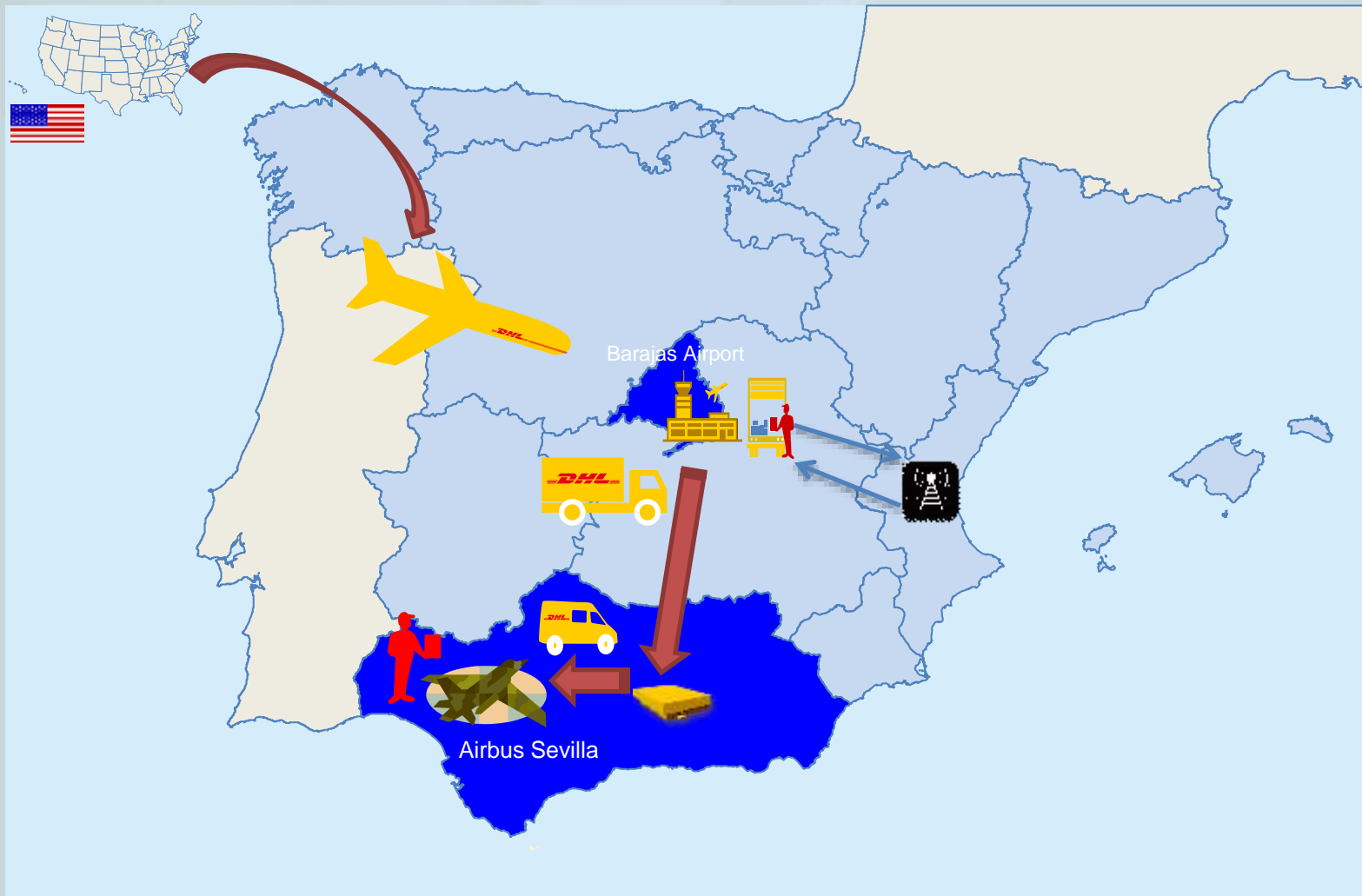
- Creating a specific design for a **Security Control Tower**



2 CURRENT DHL AIRBUS PROCES

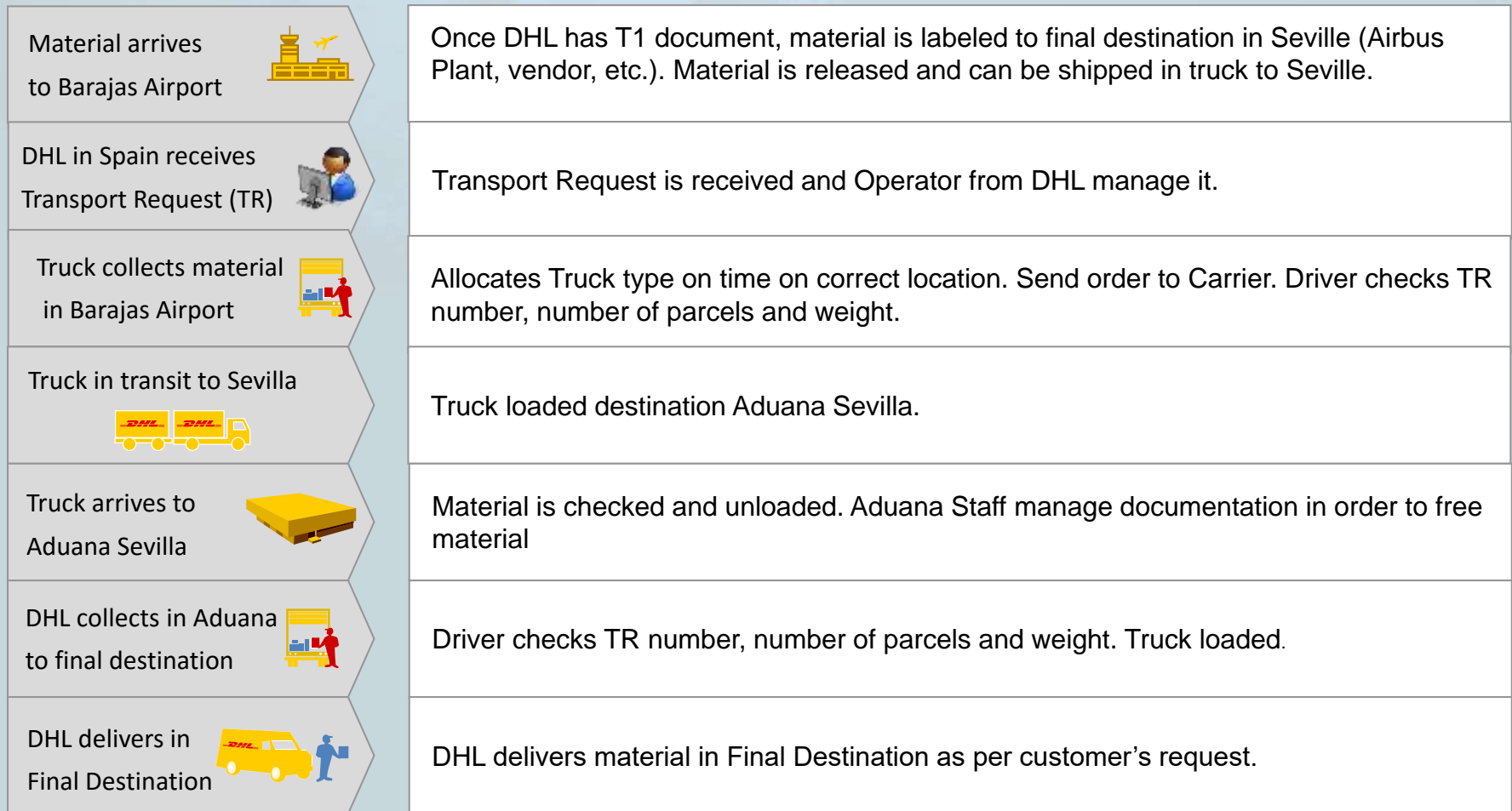


CURRENT OPERATIONS FLOW





Current Operation Process





3

CONNECTIVITY INFRASTRUCTURE



DHL System (AM+)

Vendor-specific Order message



Adapter

Adapter

Adapter

Connectivity Infrastructure

Data Exchange Services

Registration Services

Pub/Sub Services

Security Services

Transaction Services



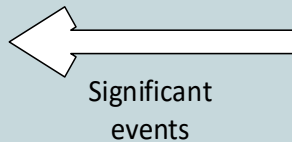
Order information in SCSRF



SC Visibility Tool

MTVA

Multi-method Threat and Vulnerability Analysis



Significant events



Security Transport Solution

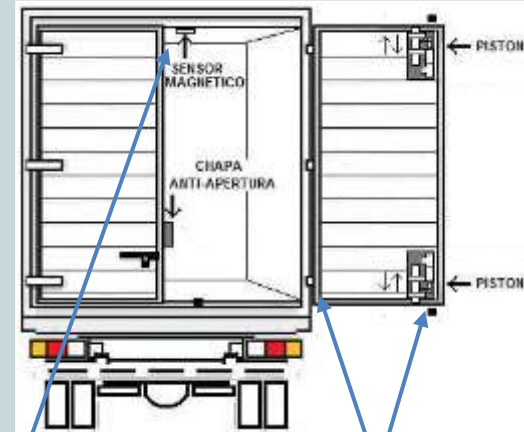
Security CCTV
Camera

Positioning Through
GPS

Independent
Security System
(truck/trailer)

Trailer Detachment
Detection

«Geo Fence» Off-
route Alarm Trigger



Electronic Engine
Immobilizer

Panic Button in the
Cockpit and Sleeper
Cab

Self-powered Alarm
Siren

Doors with sensors
for Opening
Detection

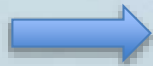
Automatic Piston
Locks y Burglar-
proof Hinges



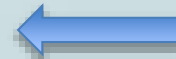
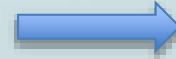
SECURITY SYSTEM



ALARMS



WEMOB



USERS



CRA



VISIBILITY TOOL

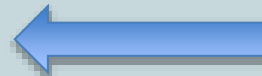
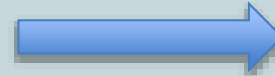
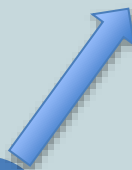
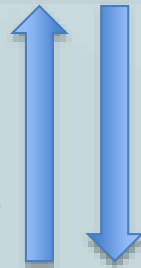


OPERATION

OPERATIONAL SYSTEM



AM+





4

VISIBILITY TOOL PROCESS



GSCVT Registration Page


GSCVT

Create a new account

Email

Password

Confirm password

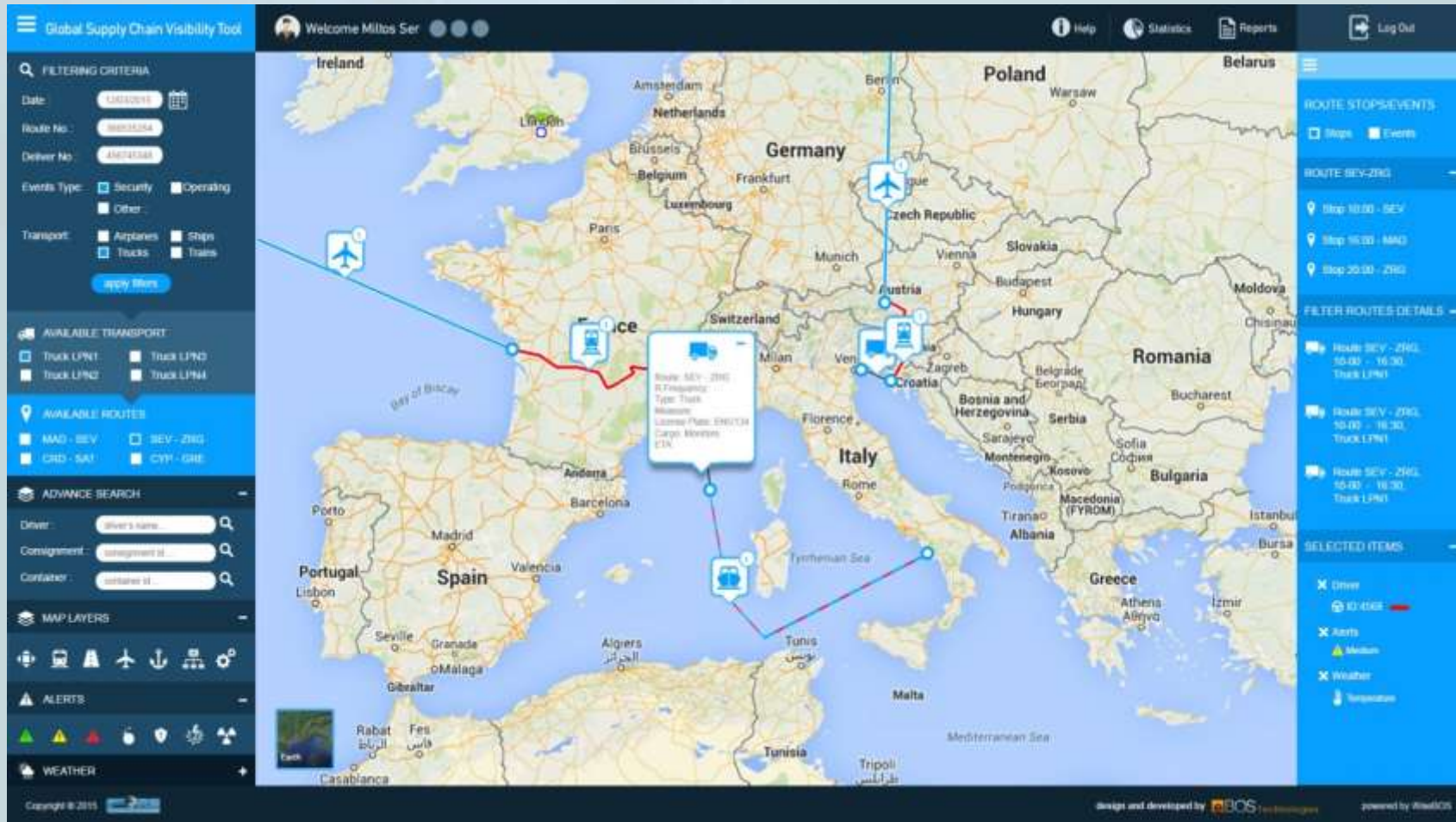
A 3D-style illustration of a yellow notepad with a white sheet of paper and a yellow pencil with a pink eraser, positioned diagonally on the right side of the registration form.

developed by eBOS Technologies

powered by eBOS Platform



SC GIS Maps



Global Supply Chain Visibility Tool

Welcome Milos Ser

Help Statistics Reports Log Out

FILTERING CRITERIA

Date: 1/26/2017

Route No.: 9893254

Driver No.: 45674388

Events Type: Security Operating Other

Transport: Airplanes Ships Trucks Trains

Apply Filters

AVAILABLE TRANSPORT

Truck LPN1 Truck LPN2 Truck LPN3 Truck LPN4

AVAILABLE ROUTES

MAD - BEV BEV - ZNG CRD - SAT CYP - GRE

ADVANCE SEARCH

Driver:

Consignment:

Container:

MAP LAYERS

Alerts Weather Temperature

ROUTE STOP/EVENTS

Stops Events

ROUTE BEV-ZNG

- Stop 10:00 - BEV
- Stop 16:30 - MAD
- Stop 20:00 - ZNG

FILTER ROUTES DETAILS

- Route BEV - ZNG, 10:00 - 16:30, Truck LPN1
- Route BEV - ZNG, 10:00 - 16:30, Truck LPN1
- Route BEV - ZNG, 10:00 - 16:30, Truck LPN1

SELECTED ITEMS

- Driver: 80-0168
- Alerts: Medium
- Weather: Temperature

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Design and developed by BOS Technologies

Advanced Search Filters

The screenshot displays a complex software interface for logistics management. Key components include:

- Calendar:** A calendar for November 2015 with the 10th highlighted.
- Filtering Criteria:** A panel with fields for Date (12/03/2015), Route No (368535254), and Deliver No (455745348). It also includes checkboxes for Events Type (Security, Operating, Other) and Transport (Airplanes, Ships, Trucks, Trains).
- Available Transport:** A section with checkboxes for Truck LPN1, LPN2, LPN3, and LPN4.
- Available Routes:** A section with checkboxes for routes: MAD - SEV, SEV - ZRG, CRD - SAT, and CYP - GRE.
- Route Stops/Events:** A dropdown menu showing stops for route SEV-ZRG: Stop 10:00 - SEV, Stop 16:00 - MAD, and Stop 20:00 - ZRG.
- Advance Search:** A search panel with input fields for Driver (driver's name...), Consignment (consignment id...), and Container (container id...).
- Main Table:** A table with columns for From, To, and other details. Visible rows include:

From	To
Madrid	Woolahra
Manly	Woolahra
Brussels	Camperdown
Paris	Seville
Pyrmont	Portsmouth
Camperdown	Portsmouth
- Map:** A map showing a route between Madrid and Seville.
- Left Sidebar:** Contains navigation and control elements like 'Global', 'Filtering', 'Pickup T', 'Delivery', 'Route No', 'Transport Request', 'Urgent T', 'Events Type', 'MAP LAYERS', 'ALERTS', and 'WEATHER'.



Global Supply Chain Visibility Tool
Register Log in
Help Statistics Reports

Filtering Criteria

Pickup Time:

Delivery Time:

Route No:

Transport Request No:

Urgent Transport:

Events Type: Security
 Operating
 Other

MAP LAYERS

ALERTS

WEATHER

Date/Time:

Address:

Type:

Criticality Level:

Resolution

FILTER TRANSPORT

Search:

Select	Transport No	From
<input type="checkbox"/>	15235BP	Madrid
<input type="checkbox"/>	45872MP	Manly
<input checked="" type="checkbox"/>	124588C	Brussels
<input type="checkbox"/>	45122PB	Paris
<input type="checkbox"/>	55123PC	Pyrmont
<input type="checkbox"/>	77458CU	Camperdown
<input type="checkbox"/>	71142UW	Ultimo
<input type="checkbox"/>	44530CU	Ultimo
<input type="checkbox"/>	21215UW	Ultimo
<input type="checkbox"/>	45227MS	Madrid
<input type="checkbox"/>	45789PP	Paris
<input type="checkbox"/>	11478US	LosAngeles
<input type="checkbox"/>	20459BM	New York
<input type="checkbox"/>	22856MB	Seville
<input type="checkbox"/>	58967SC	Madrid

AVAILABLE TRANSPORT

Search:

Select	No of Parcels	Content	ADR Materials
<input type="checkbox"/>	124588C	2811	Paul Ankoud
<input type="checkbox"/>	124588C	2811	Paul Ankoud
<input type="checkbox"/>	124588C	2811	Paul Ankoud
<input type="checkbox"/>	124588C	2811	Paul Ankoud

ROUTES EVENTS

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Adding Multi Layers

Global Supply Chain Visibility Tool Hello, aaron@ebos.com.cy ! Log off

No:


Events Security
 Type: Operating
 Other

Transport: Airplanes
 Ships
 Trucks
 Trains

DEMO Apply Filters

ADVANCE SEARCH +
 MAP LAYERS -

ALERTS -
 WEATHER -
 Temperature



The map displays a geographical view of Spain and Portugal. Major cities like Madrid, Barcelona, and Seville are labeled. Red dots are placed at several locations, including A Coruña, Vigo, Badajoz, Seville, Murcia, and Zaragoza. Weather icons (clouds, sun, rain) are overlaid on the map, and a network of orange lines represents transport routes. The interface includes a sidebar with filter options for events, transport, and weather, along with a search and map layer control panel.



Overlapping Layers

Global Supply Chain Visibility Tool
Hello, aaron@ebos.com.cy !
Log off

No:

Events: Security

Type: Operating
 Other

Transport: Airplanes
 Ships
 Trucks
 Trains

DEMO Apply Filters


ADVANCE SEARCH +




MAP LAYERS -

ALERTS -

WEATHER -

Temperature



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designed and devel



SC Route Mapping





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BENEFITS OF VISIBILITY TOOL



BENEFITS OF VISIBILITY TOOL



TECHNICAL DATA

- Truck position (GPS monitoring)
- Estimated Time Departure and Arrival
- Delay in loading/unloading
- Accidents during loading/unloading



PACKAGING & DOCS

- Customs Clearance Check List
- Material not packed properly
- ADR material not declared
- Documentation Not Ready
- Incorrect Documentation



EN ROUTE ISSUES

- Material damaged during transport
- Material missed during transport
- Material stolen
(Cargo theft / hijacking)
- Accidents during transport



SECURITY PLANNING

- Critical point for Accidents in planned route
- Parking in black points
- Unauthorized route
- Unauthorized driver

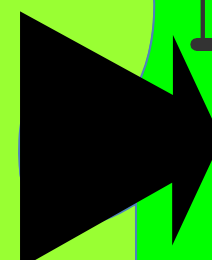


EXTERNAL FACTORS

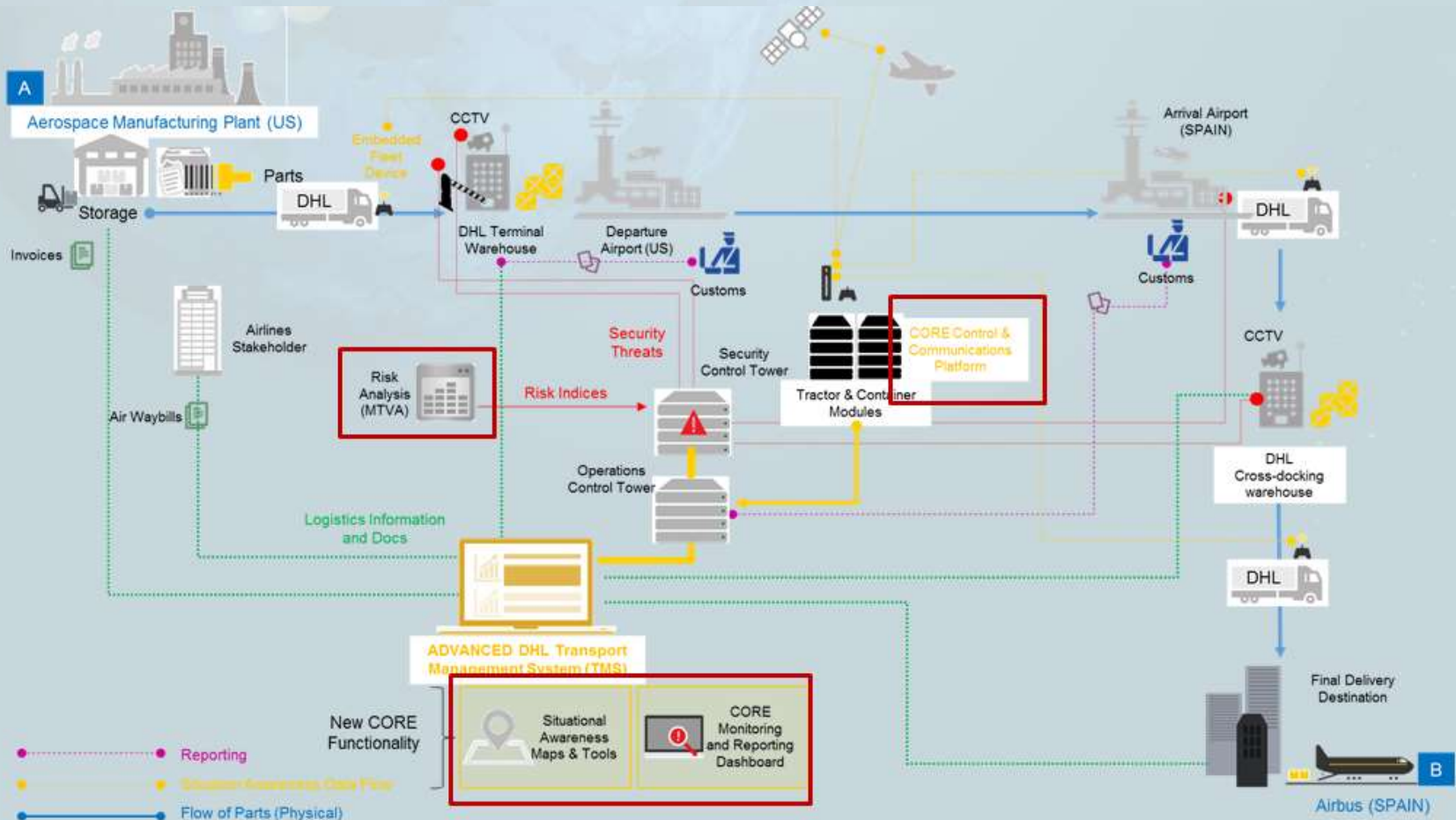
- Traffic conditions
- Weather conditions



**Complete Visibility and
Track & Trace
of the Supply Chain Process**



Security Control Tower with VT



Questions & Answers





THANK YOU !