The Global Language of Business

MixMoveMatch.com Connecting Hinterland Logistics to Maritime

GS1 Standards providing Interoperability across Pan-European network for 3M

Nuno Bento, CTO, MixMoveMatch.com
2017-10-10

The Global Language of Business

One in four trucks is driving around Europe **completely empty**. And those that are actually carrying something are **only a third to half full**.

MIX MOVE MATCH
Transform your Supply Chain

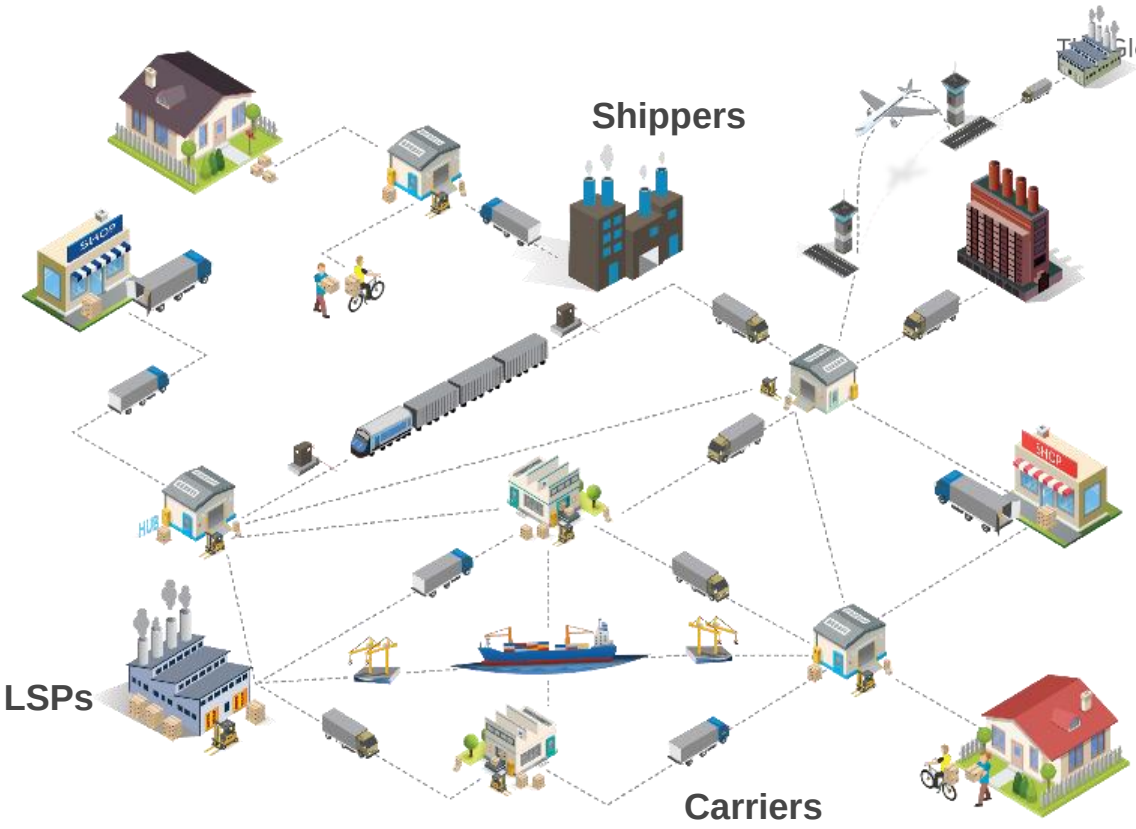
The Global Language of Business

52%

average load factor

The average truck looks like this.
It's a huge **waste of space and money**

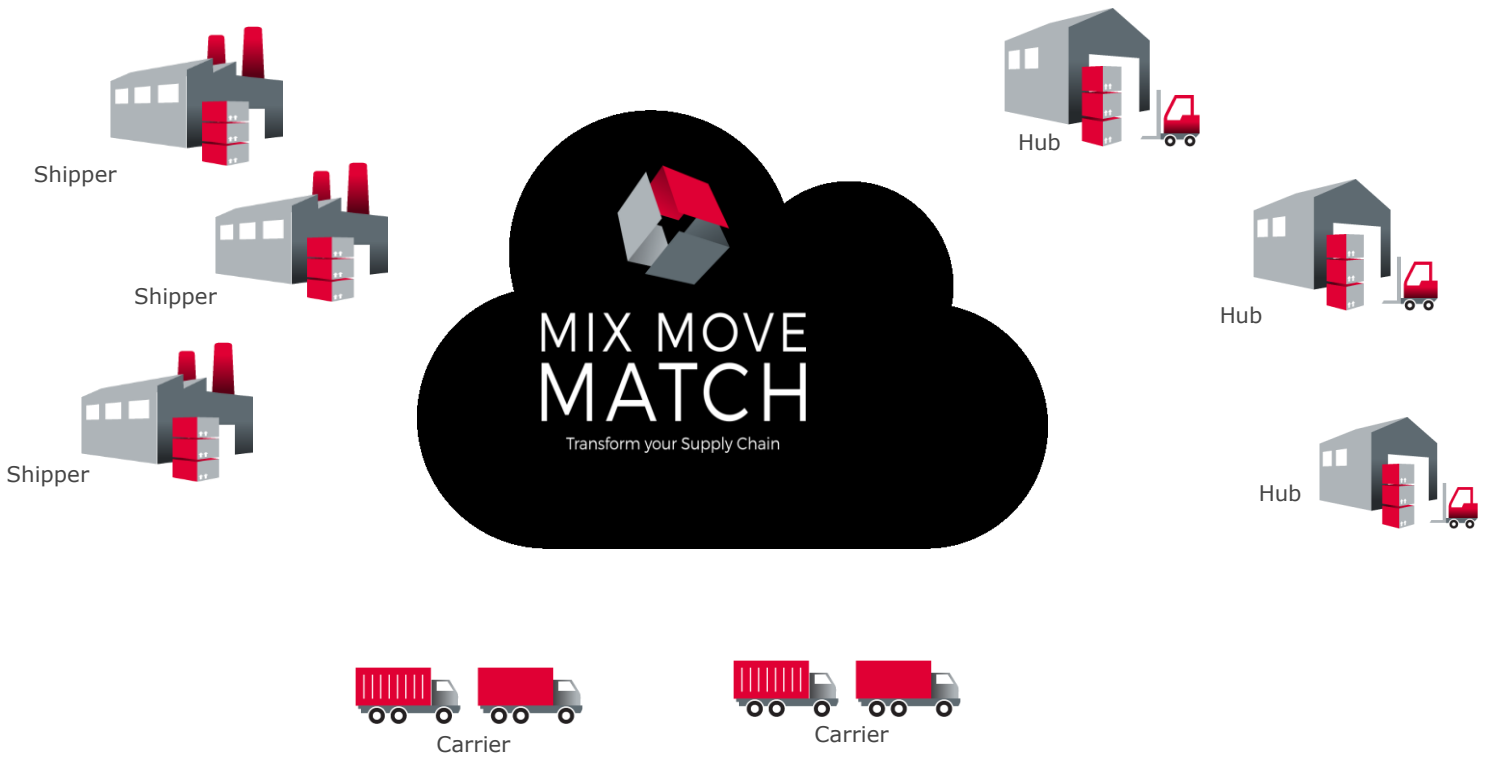
MIX MOVE MATCH
Transform your Supply Chain



Co-operative networks are a powerful way to
tackle these efficiency and sustainability challenges

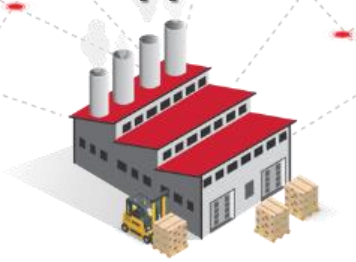
MIX MOVE MATCH
Transform your Supply Chain

The Global Language of Business



The Global Language of Business

Shippers

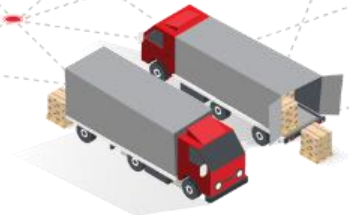


- Supply chain control and visibility
- Stock visibility across locations
- Loading Unit Optimization
- Performance Monitorization

Hubs

- Transport management
- Contract Logistics
- Cross-Docking
- Receiving Planning and scheduling

Carriers



- Booking
- Customer service
- Operations Control
- Mobility
- Claims, Linehauls and much more

Providing a comprehensive set of tools, enabling shippers, hubs and carriers to operate in the physical internet

MIX MOVE MATCH
Transform your Supply Chain

The Global Language of Business

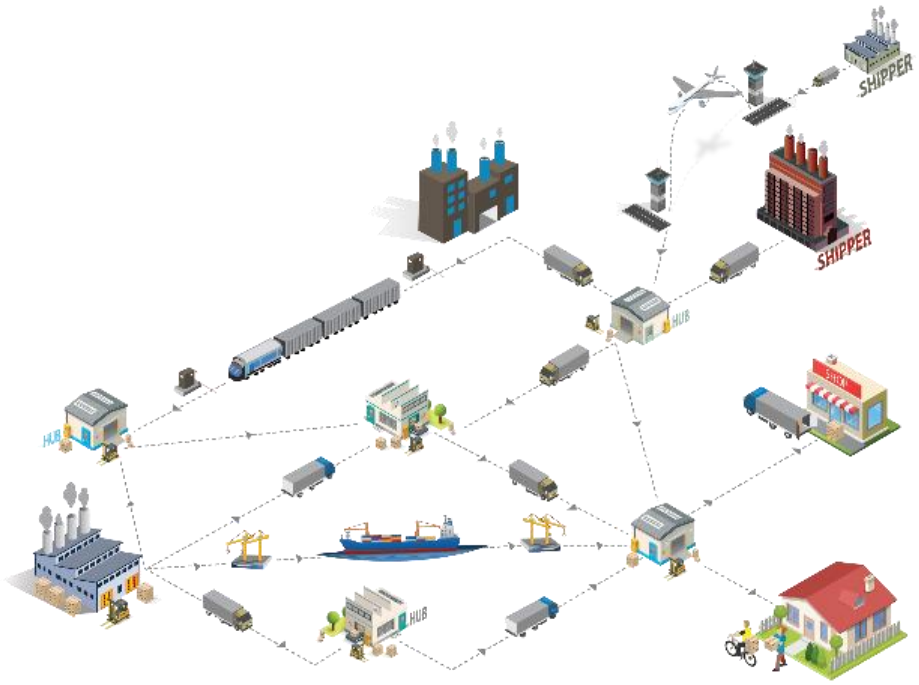
MIX MOVE MATCH

Transform your Supply Chain

The physical **internet**

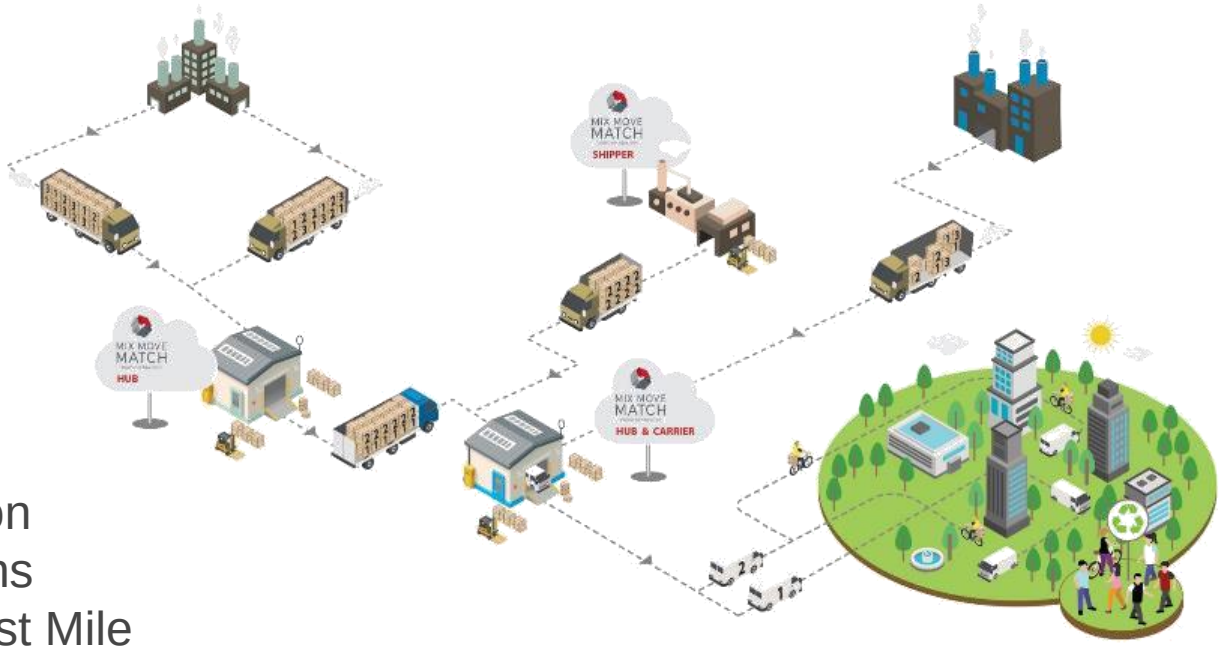
The Global Language of Business

The biggest retailer in Portugal
Now has full visibility over their distribution process to stores



MIX MOVE MATCH
Transform your Supply Chain

Goederen Hubs

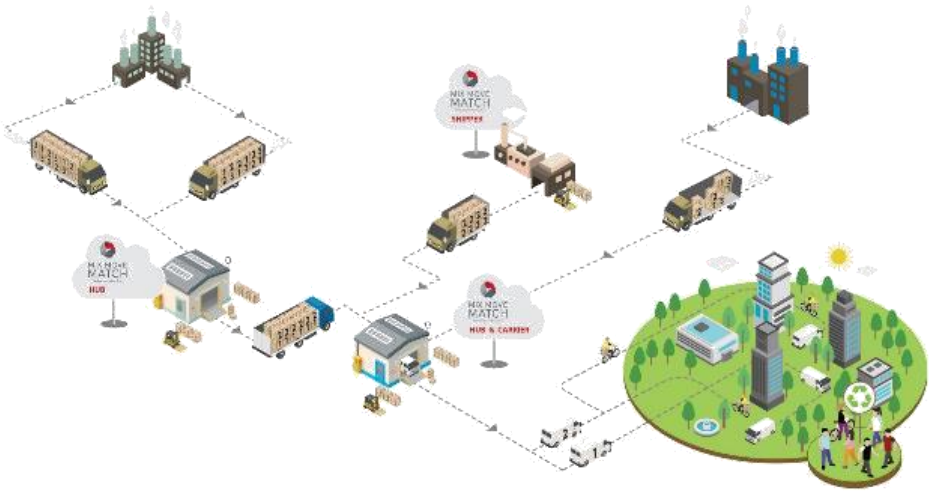


- Deploying Zero Emission Smart City Hub Solutions
- Providing Optimized Last Mile Bundled Freight Flows

Smart City distribution

- More than 100 organisations have joined (carriers, parcel/express operators, shippers, retailers, suppliers)

- Benefits
  - Cost savings:
    - Range: 8%-15%
  - CO2 emissions
    - Range: 6%-13%
  - Distances travelled
    - Range: 6%-15%



Smart City distribution

The Global Language of Business

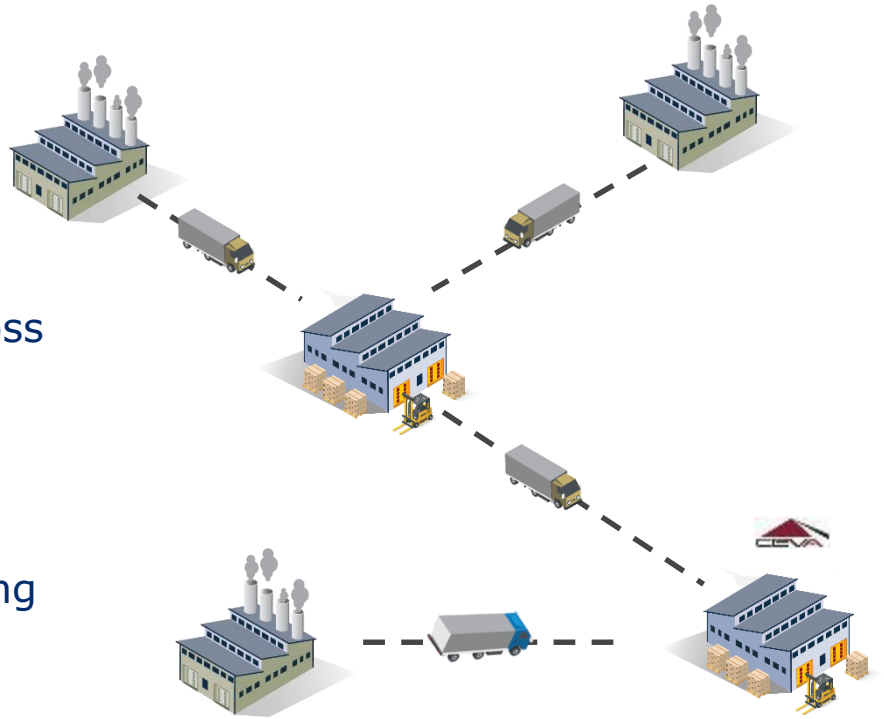
”3M reduced transport costs by 35% and CO2 emissions by 50% since the MixMoveMatch.com system was launched”

Patrick Van De Vyver
3M’s EMEA logistics operations

3M Exports from Europe to Asia

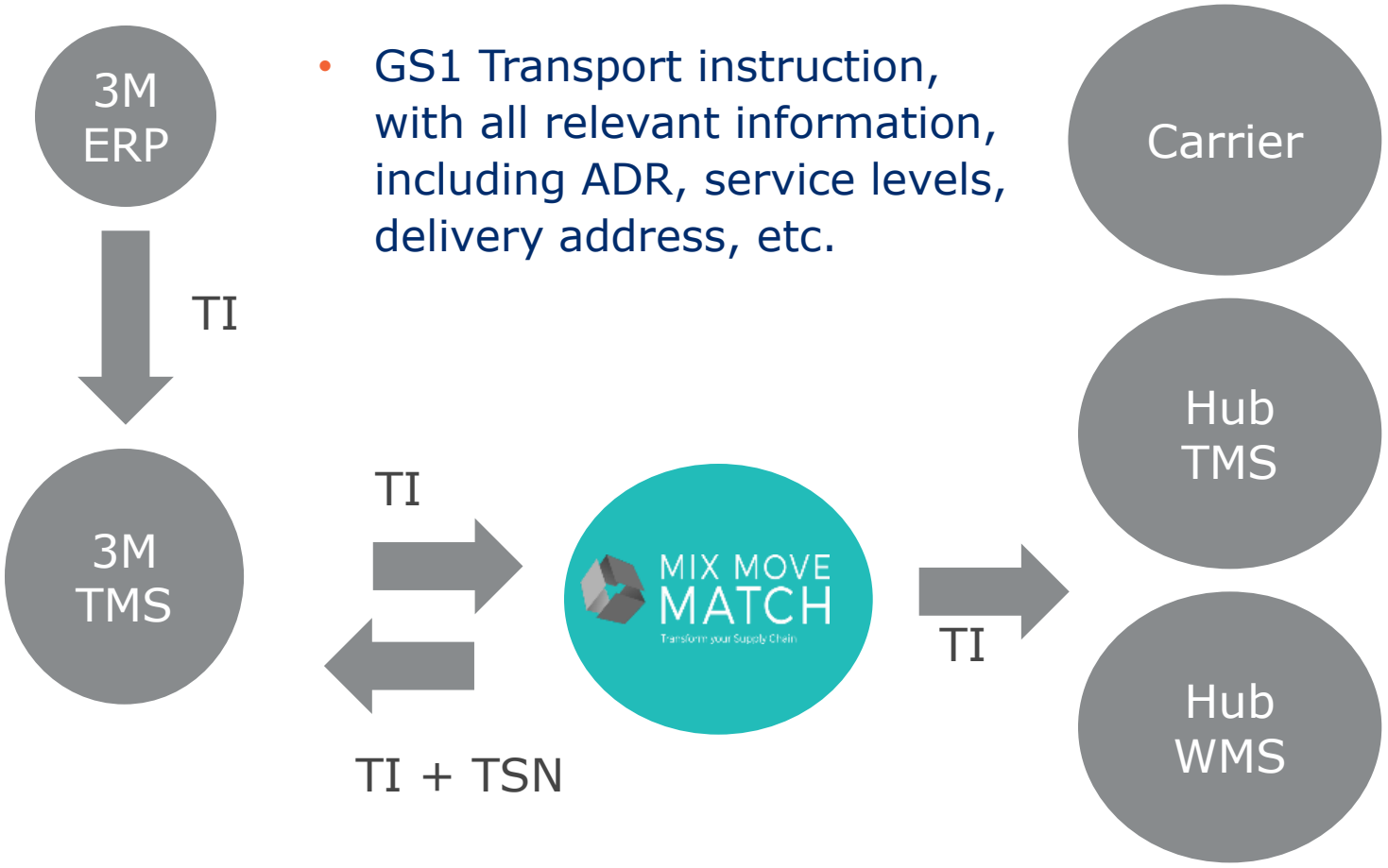
Overview

- Several **3M** facilities Across Europe ship goods having it's final destinations in Asia via **CEVA** in port of Antwerp
- These goods are cross-docked across 3M's multi provider hub and spoke network, combined with inland-bound goods.
- Across each Hub, because all loading units are identified with an SSCC, consolidation is preformed, by rebuilding optimized loading units according to the next transportation leg.



© GS1 2015

Information Flow



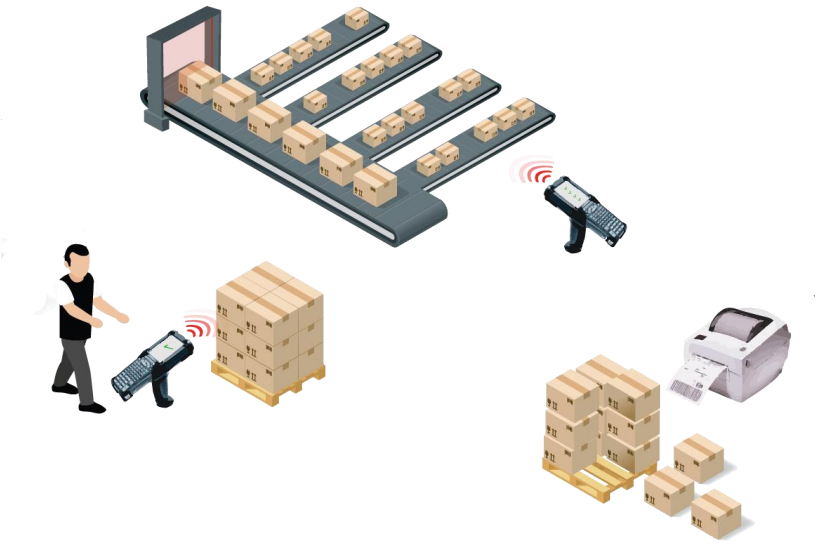
- GS1 Transport instruction, with all relevant information, including ADR, service levels, delivery address, etc.

© GS1 2015

Hub Operation

Optimized Cross-Docking

- Incoming transports are transmitted to each MixMoveMatch.com hub from 3M's TMS containing detailed information on the box level.
- Using MixMoveMatch.com, hubs combine information from multiple inbound transports into handling waves, maximizing the potential consolidation
- Reconstruction may be manual using portable devices, or using sorting equipment's
- The new consignments resulting from the cross-docking are also reported back to TMS as a TI



Decision on the handling of each Loading Unit taken at the hub, identifying the unit by it's SSCC and using the information received in the transport instruction, including, ADR, service levels, delivery address, etc.

© GS1 2015

Outbound Loading

Stuffing is performed with PDA support, ensuring that all loading units are confirmed to the correct container

Loading Units are scanned into the container

- At the final hub before the maritime leg, cross docking is performed by final receiver, commercial invoices are also taken into account, so that custom documents remain valid.
- Upon completion of container stuffing, accurate information is immediately available regarding the goods, enabling CEVA handle all formalities.

© GS1 2015

Conclusions

Main Benefits

- Increased Efficiency
  - *Process of stuffing containers, is streamlined and the use of GS1 Identifiers ensures all information required to manifest a container is accurate and available.*

- Cost Savings
  - *Consolidation of Extra-EU loading units with EU, results in a better utilization of transport costs*

- increased transparency
  - *from shipment to packing hierarchy.* ***Know what is expedited, how it is packed, where it is now, when it will arrive***

© GS1 2015

Conclusions

Challenges

- The manifest of the containers, still needs to be translated to specific port community / customs mostly (IFCSUM) formats. This is an expensive process, that could be avoided if logistic standards were widely adopted across ports.

- Tracking of the container once it leaves the logistic facilities, is also far from perfect, to a great extent due to the lack of Port/terminal interfaces to logistics

© GS1 2015

Nuno Bento

CTO

+351 968516741

nuno.bento@marlo.pt

www.mixmovematch.com

© GS1 2015