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RUI BARROS

e-IMPACT | e-Freight Implementation Action

JUL | Portuguese Logistics Single Window

PORT DIGITALISATION CONFERENCE
DANUBE PORTS IN THE DIGITAL AGE: CHALLENGES & OPPORTUNITIES

www.mitmynid.com

info@mitmynid.com

+351 225 322 072

+351 935 500 220

Rua de Salazares, 842 – Edifício UPTEC – 4149-002 Porto - Portugal



reusing CEF e-Delivery in

transports and logistics

e-Delivery is a CEF Building Block for supporting electronic registered delivery of data and documents

Agenda

- e-IMPACT project
 - e-Freight
 - e-Delivery
 - Conclusions
- JUL Project
 - Ecosystem
 - Hinterland and Foreland
 - Interoperability
 - Conclusions

e-IMPACT

e-IMPACT | project



e-IMPACT website

www.eimpactproject.eu



Project details

agreement: INEA/CEF/TRAN/M2014/1026063

action name: e-Freight Implementation Action (e-IMPACT)

ref: 2014-EU-TM-0686-S

budget: 3.900.000,00 €

EU Support: 50%

timeframe: 2016 - 2018



e-IMPACT | summary

4 pilot actions in the Core Network and the e-Freight was used in 3 TEN-T corridors: Atlantic, Mediterranean and Baltic/Adriatic

Italian pilot - port of Trieste

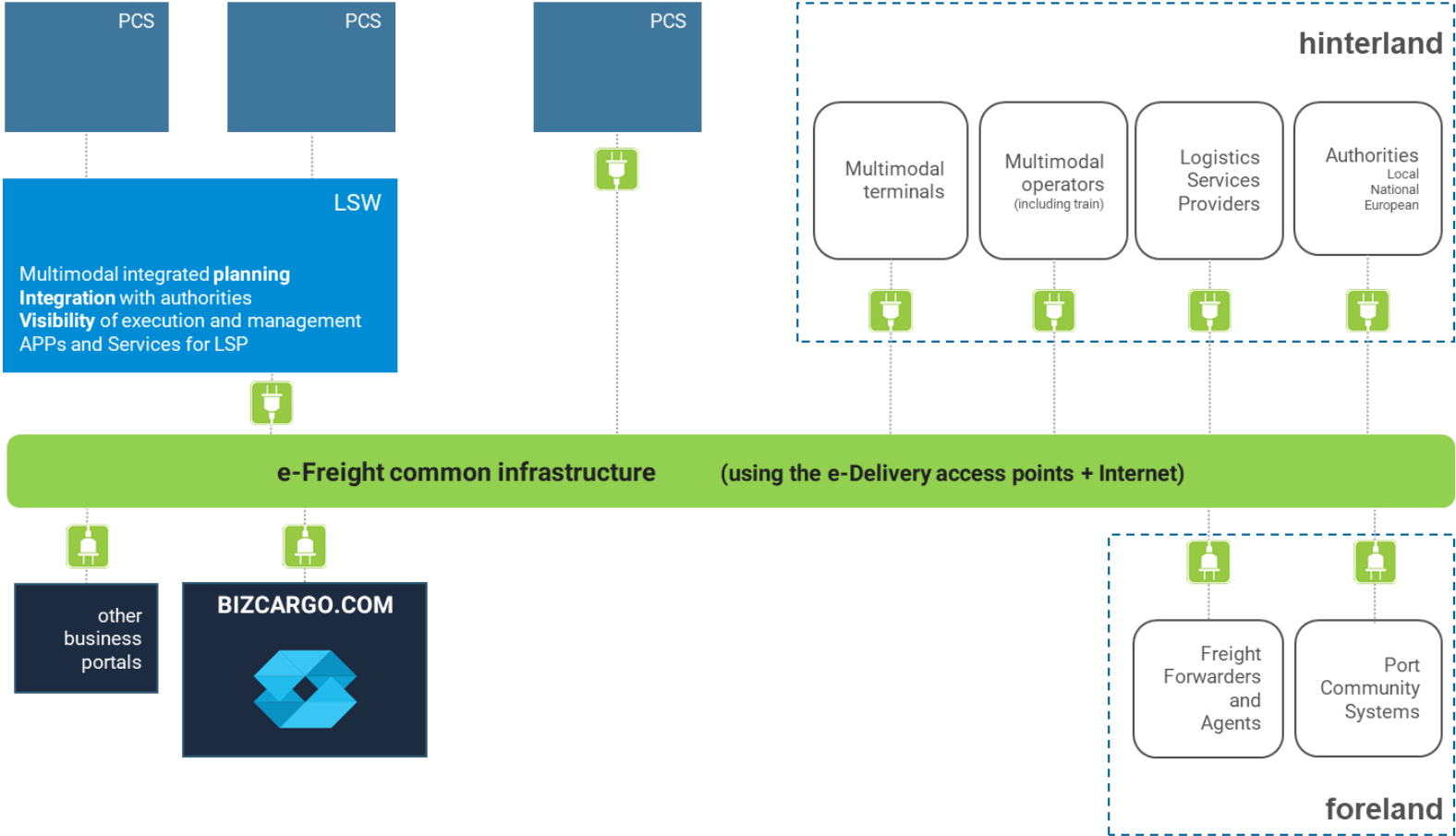
Polish pilot - ports of Gdynia, Gdansk, Szczecin e Swinoujscie


Portuguese pilots – ports of Leixões and Lisboa

Pilots included:

- Information systems to improve planning of transport and logistics of goods and its integration with traffic management systems in an European and multimodal perspectives
- Tools for track and trace
- IT infrastructure to support exchange of information, authorization and authentication (using eDelivery)
- Interoperability between stakeholders using different standards (languages and technologies)

e-IMPACT | concept



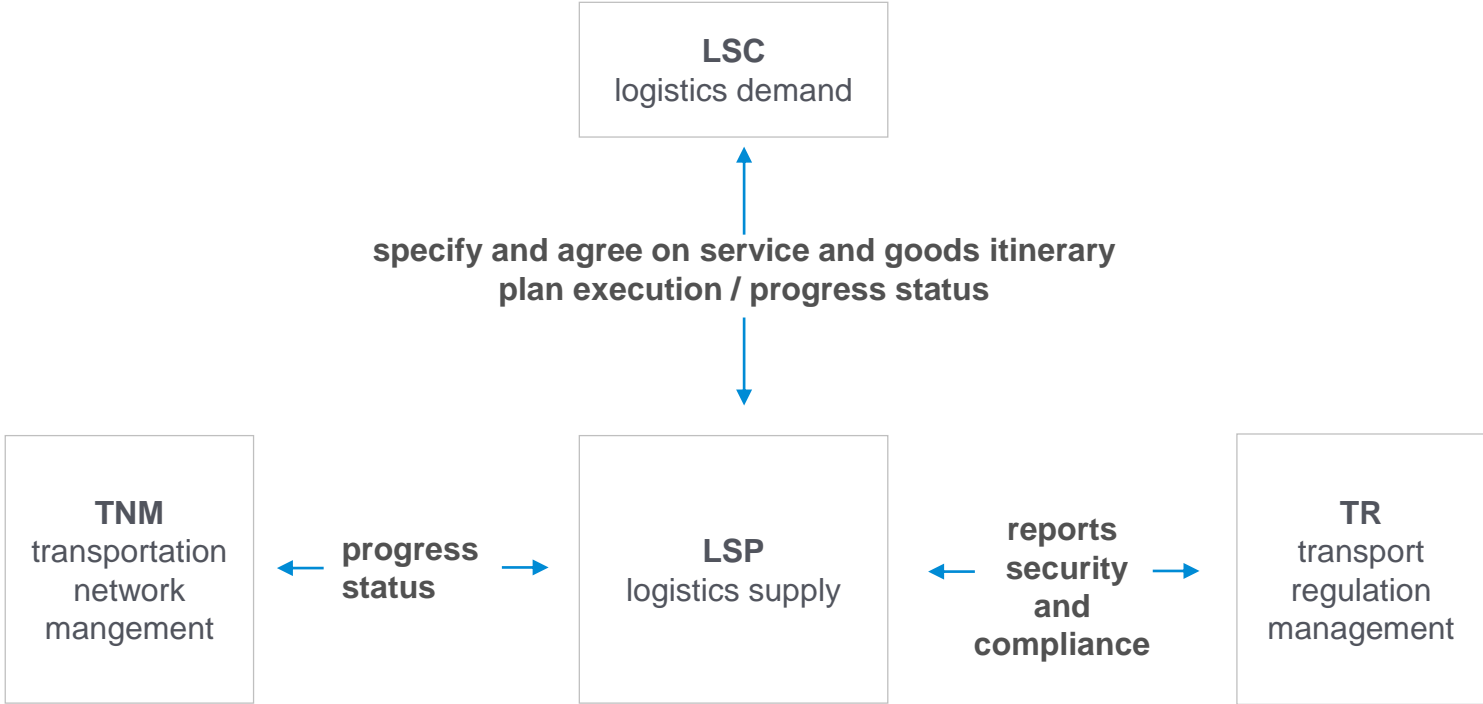
 Access Points (connection, authentication, validation) and Domain specific Connectors (message conversion, processing)

e-Freight | **framework**

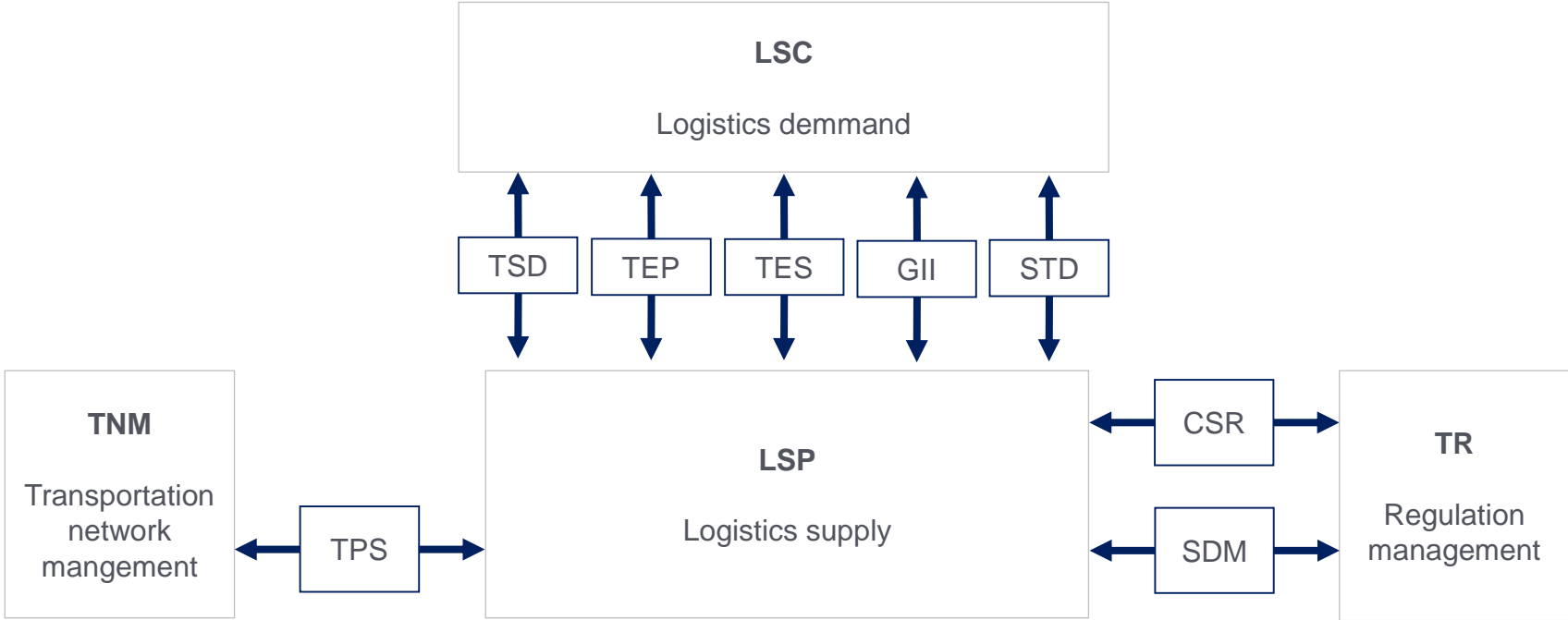
- Provides definitions for **several messages** intended to **allow electronic document interchange, in bidirectional** relations regarding:
 - Transport service description, execution plan, status and progress
 - Interaction with traffic management systems
 - Communication of security information
 - Reporting to authorities for clearance and compliance
- Part of the ISO19845 standard (UBL v2.1)

- **Designed for interoperability**
 - Process and information level
 - only necessary information is exchanged
 - the number of messages and their complexity is kept to a minimum
 - messages are unambiguous
 - Architecture level
 - Builds on open services platforms and self-configuring logistics networks and devices

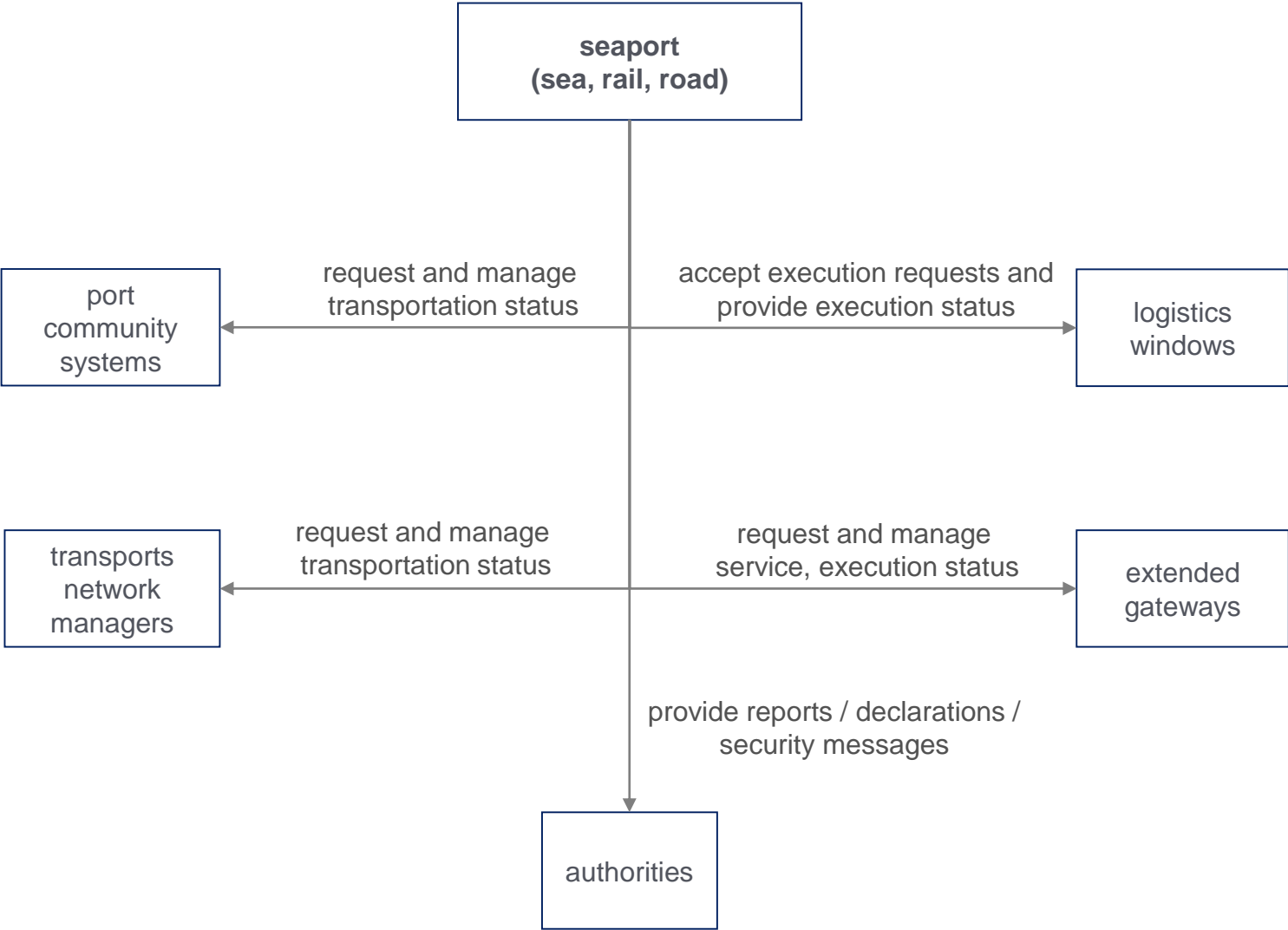
e-Freight | general goals



e-Freight | domains and messages



e-Freight | seaport perspective



e-Delivery | **why?**

- **Interoperable:** standardised messaging protocols
- **Secure:** trust among all participants in the message exchange network
- **Scalable:** grow the number of participants as well as the number of exchanged messages

e-Delivery | why?

▪ Access Points

- Agnostic message exchange
- Trust establishment
- Backend Integration
- Domibus (EU reference implementation)
 - CEF e-Delivery Access Point (AP)
 - European Commission AS4 AP implementation
 - (our) adopted version: 3.2.4

e-IMPACT | **benefits for Clients + Providers**

- Standardization of processes / messages / technologies
- Scalable, low-cost adoption
- Good representation of the business
 - contract, planning, execution, status
- Interoperability
 - transparency, safety, reliability, authentication

e-IMPACT | **benefits for authorities**

- Standardization of processes / messages / technologies
- Scalable, low-cost adoption
- Interoperability
 - transparency, safety, reliability, authentication
- Timely retrieval of security information.
- Communication standardization
 - with operators, other national and European authorities

e-IMPACT | **conclusions**

the best of both worlds...

e-Freight: to represent process and information

e-Delivery: to securely and reliably exchange data

JUL



JUL | Portuguese Logistics Single Window

JUL website

www.projeto-jul.pt



Project details

budget: 5.100.000,00 €

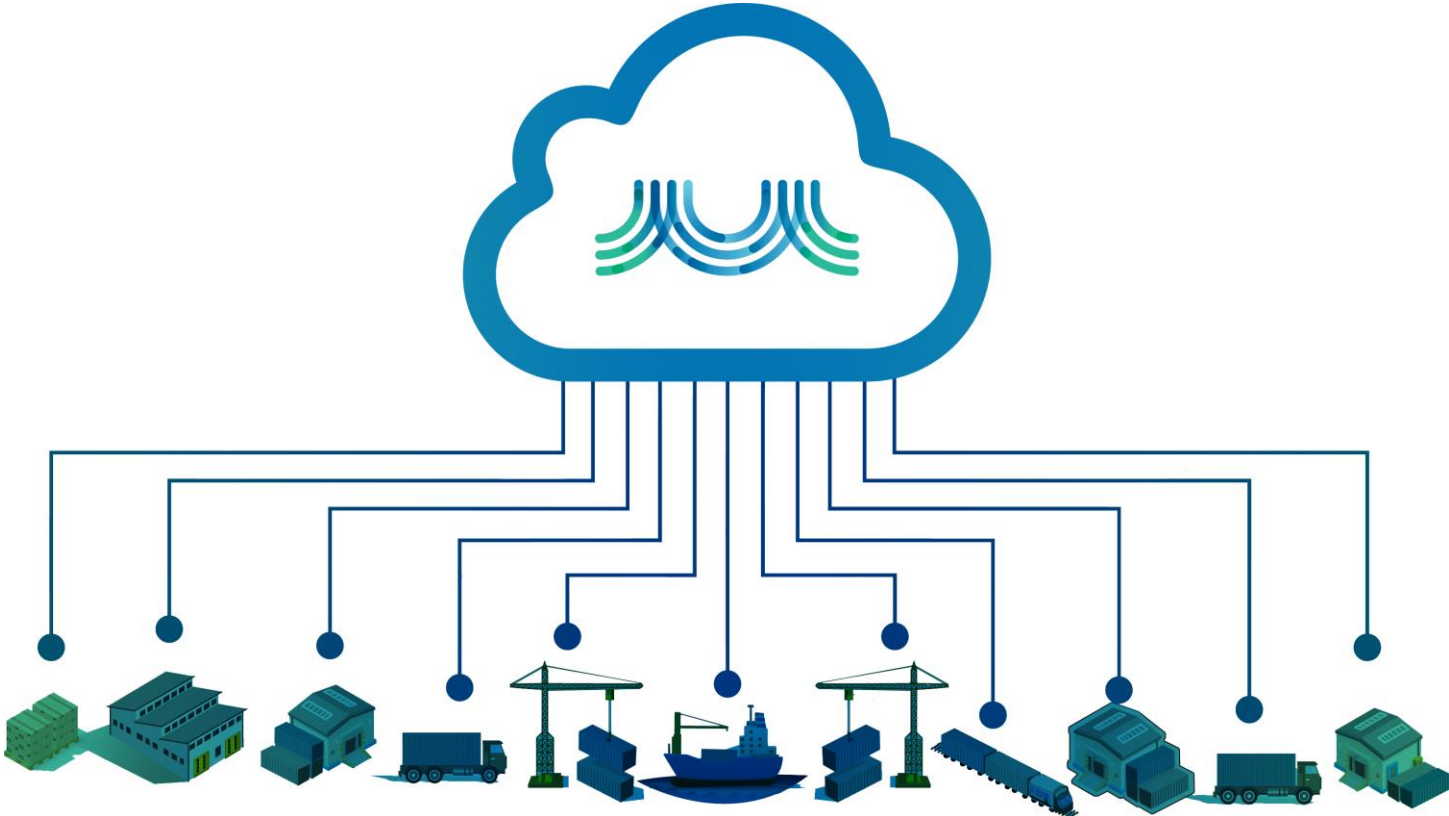
co-financing: 85%

timeframe: 2 years

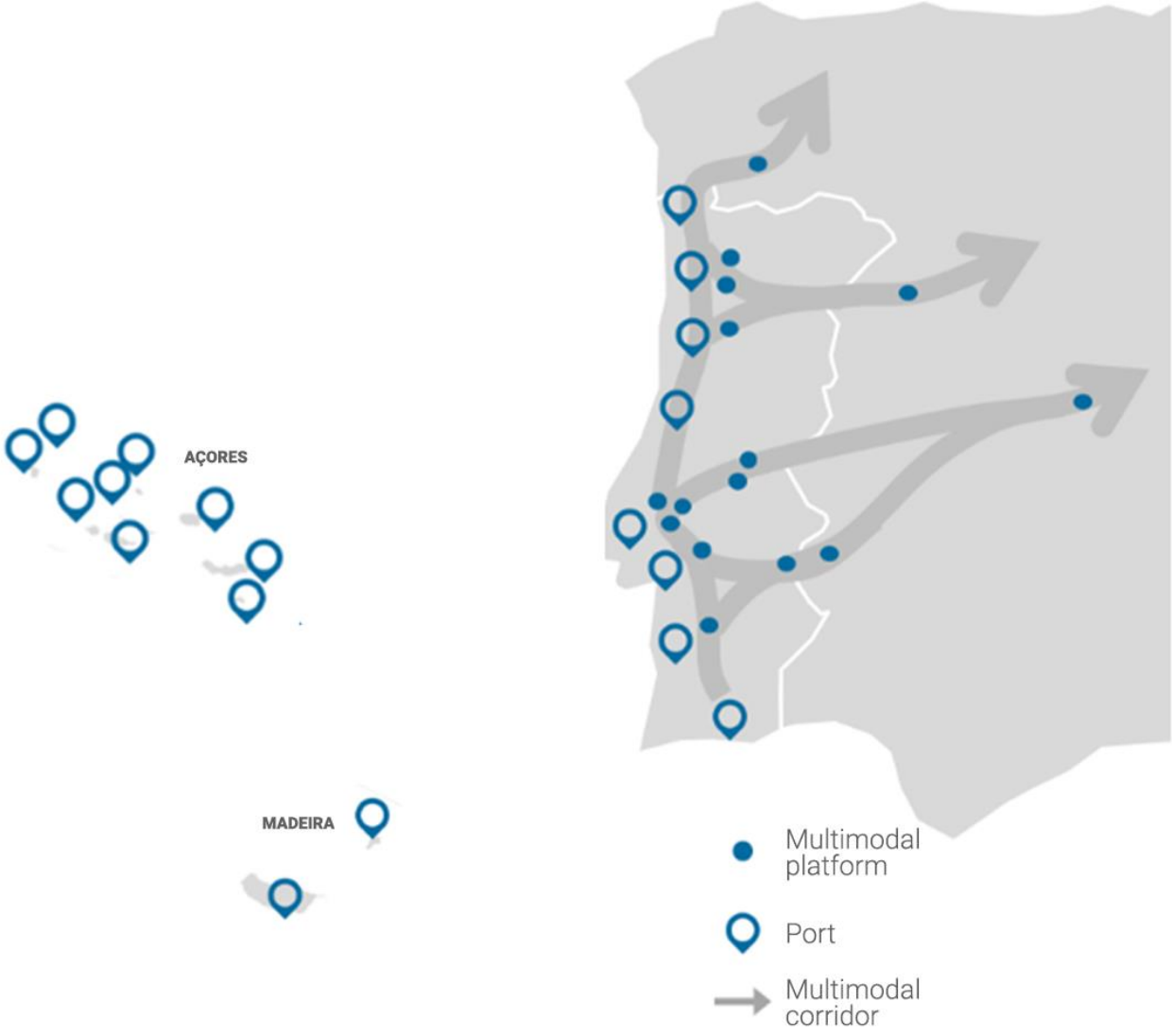
Cofinanciado por:



JUL | ecosystem



JUL | the hinterland of Portuguese ports



JUL | hinterland and foreland

Hinterland:

- Harmonised business processes across all ports and multimodal networks
- Synchro modal cross-border corridors (Portugal and Spain)
- Streamlined digital processes with the authorities
- Last mile operations coverage

Foreland:

- The LSW consolidates tracking events and information over the foreland, to support the global experience and visibility of all users.
- Information sharing with Port Community Systems in other countries and business electronic platforms, such as cargo marketplaces.

JUL | interoperability



JUL | conclusions



Port
Community
System

Ports
and
Carriers

Logistics
Single
Window

Authorities
and
Extended
Gateways

Business
Portals

Providers
and
Clients

collaborative logistics



MITMYNID

Rui Barros

rui.barros@mitmynid.com



BIZCARGO

GLOBAL COLLABORATIVE LOGISTICS

www.bizcargo.com

www.mitmynid.com

info@mitmynid.com

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