

PROJECT

ICONET

New ICT infrastructure and reference architecture to support Operations in future PI Logistics NETWORKS

Funding: European (Horizon 2020)

Duration: Sep 2018 - Feb 2021

Status: Complete

Total project cost: €3,078,699

EU contribution: €3,078,698



[CORDIS RCN : 214637](#)

Objectives:

ICONET will significantly extend state of the art research and development around the PI concept in pursuit of a new networked architecture for interconnected logistics hubs that combine with IoT capabilities and aiming towards commercial exploitation of results. ICONET strives to achieve the end commercial goal of allowing shipments to be routed towards final destinations automatically, by using collaborative decisions inspired by the information centric networking paradigm, and optimizing efficiency and customer service levels across the whole network. According to this vision, cargo regarded as smart physical packets will flow between hubs based on 'content' of the cargo influencing key commercial imperatives such as cost, optimisation, routing, efficiency and advancing EU's Green agenda. Consequently, the consortium are discernibly aimed at three (3) avenues of commercialisation and exploitation from the ICONET innovation, specifically targeted in the areas of:

1. Warehousing as a service,
2. E-commerce fulfillment as a service, and
3. Sychromodality as a service.

Methodology:

PI based logistic configurations will be simulated, prototyped and validated in the project . Modelling and analysis techniques will be combined with serious game type simulation, physical and digital prototyping, using living lab (LL) requirements scenarios and data. With analyses and simulations, optimal topologies and distribution policies for PI will be determined. The project implementation will be based on a succession of phases of modelling and design/prototyping, learning and experimentation and feedback and interaction with the wider business community, including the ALICE logistics platform as well as members of the partner Associations ESC, UIRR and ELUPEG. Through its Living Labs, the project will address under the PI paradigm both Supply Network Collaboration and Supply Network Coordination.

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)

Other programmes: MG-5-4-2017 Potential of the Physical Internet

Lead Organisation:

Inlecom Group

Address:

SQUARE DE MEEUS 38
1050 BRUXELLES

Belgium

EU Contribution: €537,250

Partner Organisations:

Havenbedrijf Antwerpen

Address:

Entrepotkaai 1
2000 Antwerpen
Belgium

EU Contribution: €158,750

Sonae Center Servicos Ii S.a.

Address:

LUGAR DO ESPIDO, VIA NORTE
4470-177 MAIA
Portugal

EU Contribution: €150,625

Ibm Ireland Limited

Address:

Ibm House, Shelbourne Road
Dublin 4
Ballsbridge
Ireland

EU Contribution: €313,031

Instituto Tecnologico De Aragon

Address:

Maria De Luna
50018 Zaragoza
Spain

Organisation Website:

<http://www.ita.es>

EU Contribution: €200,563

Electronic German Link Gmbh

Address:

ZUR GRUNEN BRUCKE 18
23843 BAD OLDESLOE
Germany

EU Contribution: €104,375

New Generation Sensors Srl

Address:

VIA GIOACCHINO VOLPE 12
56121 PISA
Italy

EU Contribution: €165,313

Ebos Technologies Limited**Address:**

ARCH. MAKARIOU III AND MESAORIAS 1 OFFICE 101
2322 NICOSIA
Cyprus

Organisation Website:

<http://www.ebos.com.cy>

EU Contribution: €238,750

Elupeg Bv**Address:**

OVERSCHIESTRAAT 184
1062 XK AMSTERDAM
Netherlands

EU Contribution: €162,500

European Council For Maritime Applied R&d**Address:**

MARIE DE BOURGOGNESTRAAT 52-54 3DE VERDIEP
1000 BRUSSEL
Belgium

Organisation Website:

<http://www.ecmar.eu>

EU Contribution: €102,500

Stockbooking**Address:**

1 PLACE DE LA PORTE BLANCHE
67000 STRASBOURG
France

EU Contribution: €166,563

Vltn Gcv**Address:**

Welvaartstraat 33B
2000 Antwerpen
Belgium

EU Contribution: €119,750

Consorzio Nazionale Interuniversitario Per Le Telecomunicazioni**Address:**

Viale G. P. Usberti 181A
43124 Parma
Italy

Organisation Website:

<http://www.cnit.it>

EU Contribution: €141,250

Union Internationale Des Sociétés De Transport Combiné Rail-Route**Address:**

rue Montoyer 31 bte 11
1000 BRUXELLES
Belgium

Organisation Website:

<http://www.uirr.com>

EU Contribution: €121,875

Zorgios Ioannis**Address:**

MAKEDONIAS 24 A KIFISIA
14561 ATHENS
Greece

EU Contribution: €220,250

Procter & Gamble Services Company Nv**Address:**

Temselaan 100
1853 Strombeek Bever
Belgium

EU Contribution: €175,355

Technologies:

Freight transport technologies
Integrative logistics strategies

Development phase: Validation

STRIA Roadmaps: Network and traffic management systems

Transport mode: Multimodal transport

Transport sectors: Freight transport

Transport policies: Other specified

Geo-spatial type: Other