

PROJECT

SYNCHRO-NET

Synchro-modal Supply Chain Eco-Net

Funding: European (Horizon 2020)

Duration: May 2015 - Oct 2018

Status: Complete

Total project cost: €7,569,195

EU contribution: €7,301,195



Call for proposal: H2020-MG-2014_TwoStages

[CORDIS RCN : 193399](#)

Objectives:

SYNCHRO-NET will demonstrate how a powerful and innovative SYNCHRO-modal supply chain eco-NET can catalyse the uptake of the slow steaming concept and synchro-modality, guaranteeing cost-effective robust solutions that de-stress the supply chain to reduce emissions and costs for logistics operations while simultaneously increasing reliability and service levels for logistics users.

The core of the SYNCHRO-NET solution will be an integrated optimisation and simulation eco-net, incorporating: real-time synchro-modal logistics optimisation (e-Freight-enabled); slow steaming ship simulation & control systems; synchro-modal risk/benefit analysis statistical modelling; dynamic stakeholder impact assessment solution; and a synchro-operability communications and governance architecture.

Perhaps the most important output of SYNCHRO-NET will be the demonstration that slow steaming, coupled with synchro-modal logistics optimisation delivers amazing benefits to all stakeholders in the supply chain: massive reduction in emissions for shipping and land-based transport due to modal shift to greener modes AND optimised planning processes leading to reduced empty kms for trucks and fewer wasted repositioning movements.

This will lead to lower costs for ALL stakeholders - shipping companies and logistics operators will benefit from massive reduction in fuel usage, faster turnaround times in ports & terminals and increased resource utilisation/efficiency. Customers and end users will have greater control of their supply chain, leading to more reliable replenishment activity and therefore reduced safety stocks and expensive warehousing. Authorities and governmental organisations will benefit from a smoother, more controlled flow of goods through busy terminals, and reduction of congestion on major roads, thus maximising the utilisation of current infrastructure and making the resourcing of vital activities such as import/export control, policing and border security less costly.

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:

Dhl Exel Supply Chain Spain SI

Address:

Calle Rumania 1 C.t. Coslada
28821 Madrid
Spain

EU Contribution: €951,562

Partner Organisations:**Centre De Recherche Pour L'architecture Et L'industrie Nautiques****Address:**

Rue Senac De Meilhan 52
17000 La Rochelle
France

EU Contribution: €247,320

Mjc2 Limited**Address:**

Wellington Business Park, Dukes Ride
Crowthorne
RG45 6LS
United Kingdom

Organisation Website:

<http://www.mjc2.com>

EU Contribution: €803,750

Cross-Border Research Association**Address:**

Route De La Chocolatiere 26
1026 Echandens
Switzerland

EU Contribution: €0

Software Ag**Address:**

UHLANDSTRASSE 12
64297 DARMSTADT
Germany

EU Contribution: €399,125

Fraunhofer Gesellschaft Zur Foerderung Der Angewandten Forschung E.v.**Address:**

HANSASTRASSE 27C
80686 MUNCHEN
Germany

Organisation Website:

<http://www.fraunhofer.de>

EU Contribution: €587,500

Bureau Veritas

Address:

Boulevard du Château 67-71
92571 NEUILLY SUR SEINE
France

Organisation Website:

<http://www.bureauveritas.com>

EU Contribution: €280,000

Kongsberg Maritime As**Address:**

Strandpromenaden 50
3183 Horten
Norway

EU Contribution: €374,500

Rail Safety And Standards Board Limited**Address:**

Torrens Street 1 Block 2
London
EC1V 1NY
United Kingdom

EU Contribution: €116,250

Cork Institute Of Technology**Address:**

ROSSA AVENUE BISHOPSTOWN
T12
CORK
Ireland

Organisation Website:

<http://www.cit.ie>

EU Contribution: €398,500

London Economics Ltd**Address:**

SOMERSET HOUSE NEW WING STRAND
LONDON
WC2R 1LA
United Kingdom

EU Contribution: €362,375

Syco Di Menga Giuseppe & C. -Sas**Address:**

STRADA TRUC CARLEVE 29
10090 VILLARBASSE
Italy

EU Contribution: €120,625

Kuehne+Nagel Societe Anonyme For Transports & Logistics

Address:

El. Venizelou Ave. 330
176 75 Kallithea
Greece

EU Contribution: €0

Politecnico Di Torino**Address:**

Corso Duca Degli Abruzzi
10129 Torino
Italy

Organisation Website:

<http://www.polito.it>

EU Contribution: €691,875

Circle Spa**Address:**

VIA MONCENISIO 75
20089 ROZZANO MI
Italy

EU Contribution: €430,313

Emc Information Systems International**Address:**

IDA INDUSTRIAL SITE
P31
Ovens
Ireland

Organisation Website:

<http://www.emc.com>

EU Contribution: €146,250

Sam Electronics Gmbh**Address:**

Behringstrasse
22763 Hamburg
Germany

Organisation Website:

<http://www.sam-electronics.de>

EU Contribution: €334,750

Hydrocean**Address:**

8 BOULEVARD ALBERT EINSTEIN
44323 NANTES CEDEX 3
France

EU Contribution: €219,000

Kuehne & Nagel (Ireland) Limited

Address:

UNIT 5 HORIZON LOGISTICS PARK HARRISTOWN
K67Y 954
DUBLIN
Ireland

EU Contribution: €184,946

China Shipping (Spain) Agency SI**Address:**

Avenida Drassanes Floor 8 6-8
8001 Barcelona
Spain

EU Contribution: €652,554

Technologies:

Freight transport technologies
Collaborative logistics ecosystem

Development phase: Research/Invention

STRIA Roadmaps: Network and traffic management systems

Transport mode: Multimodal transport

Transport sectors: Freight transport

Transport policies: Other specified

Geo-spatial type: Other