



Implementing CEF CYPRUS

► 2014-2017



REPUBLIC OF CYPRUS

MINISTRY OF TRANSPORT,
COMMUNICATIONS AND WORKS

MINISTRY OF ENERGY,
COMMERCE, INDUSTRY & TOURISM

DEPUTY MINISTRY
OF SHIPPING



Co-financed by the Connecting Europe
Facility of the European Union

IMPLEMENTING CEF CYPRUS

2014-2017





Recognizing that transport is a key facilitator for economic growth and trade, nationally, on European level and internationally, the efforts of the Ministry of Transport, Communications and Works are focused on developing transport infrastructure and services to be safer and more sustainable in order to meet rising demands, by making key investments in civil aviation and air transport, maritime transport and ports, as well as land transport.

Since the accession of Cyprus to the European Union in 2004, the Ministry of Transport, Communications and Works has been following closely the Trans-European Networks in the areas of transport and telecommunications ensuring that the specificities of isolated, peripheral member states are addressed. My Ministry's priorities emphasized in completing and upgrading its Trans-European Transport Network (TEN-T) as this is the main road network, leading to ports and airports, our gateway to the world. The completion of the TEN-T is a precondition for a sustainable and efficient transport system. Similarly, for the Trans-European networks, in the area of telecommunications infrastructure, priorities cover specific objectives for funding Digital Service Infrastructures (DSIs) by which they are formulating and implementing our national Digital Strategy on Information Society.

The Connecting Europe Facility (CEF) proved to be an effective tool for reaching EU goals in the sectors of transport, energy and telecommunications, supporting major cross-border projects, projects addressing bottlenecks and horizontal priorities on the EU Network. It is important to note that CEF has been successful in attracting proposals and the approved actions have absorbed almost all of the available budget well ahead of the end of the current programming period.

This booklet presents an overview of the TEN and CEF priorities, aims and objectives and key projects undertaken by the public and the private sector, supported by CEF to forward our vision in transport, energy and telecommunications.

Vassiliki Anastassiadou
Minister of Transport, Communications and Works

The vision of the Ministry of Energy, Commerce, Industry and Tourism is to make Cyprus a leader on energy issues in the Eastern Mediterranean region and to contribute to the sustainable economic development and the prosperity of all the citizens of Cyprus. The strategic objective is the optimum and sustainable development of the hydrocarbon resources of Cyprus in order to contribute towards maximizing the State revenues and boost the country's economy for the benefit of the Cypriot society and the future generations. Connecting Europe facility (CEF), the Europe's infrastructure facility for energy, transport and telecommunications is certainly an important financial tool for upgrading existing and developing new energy transmission infrastructure in the European networks.

All the Projects of Common Interest in the energy sector have received valuable funding from CEF Energy for their preliminary and prefeasibility studies in the period 2014-2020.

Giorgos Lakkotrypis
Minister of Energy, Commerce,
Industry and Tourism





Over the years, Cyprus has established itself as a world-class maritime cluster with a quality flag and a large resident shipping community with international operations. Cyprus is committed to the effective implementation of the relevant internationally applicable safety, security and environmental protection standards as well as appropriate national measures. The Cyprus Ship registry ranks among the top international fleets and has the third largest fleet within the European Union. Cyprus is considered as one of the largest third-party ship management centres worldwide.

The mission of the recently established Shipping Deputy Ministry is the reinforcement and development of the Cyprus maritime cluster and the consistent provision of excellent quality of service to our clients. The discovery of hydrocarbons in the Cyprus EEZ opens up new opportunities for the Cyprus shipping industry. Cyprus has the potential to develop into an important Energy Center in the Mediterranean. Offshore exploration and production of gas and oil, as well as their transportation ashore, require the operation of specialised ships and equipment and the supply of specialised supporting services. These new developments are very promising, as they are widening the role and importance of the Cyprus maritime cluster and at the same time multiplying the synergies and interaction between key sectors of the economy.

The Connecting Europe Facility provides financial instruments that could be explored for the funding of these developments.

Natasa Pilides
Deputy Minister of Shipping

INTRODUCTION

The Trans-European Networks (TEN) were envisioned as early as 1957 and were created by Articles 154-156 of the Treaty on the Functioning of the European Union (TFEU, Treaty of Rome), with the stated goals of the creation of an internal market and the reinforcement of economic and social cohesion. In 1992, the Treaty on European Union (TEU, Treaty of Maastricht) retained the trans-European networks (TENS) in the areas of transport, energy and telecommunications, in order to connect all the regions of the EU, intended to contribute to the growth of the internal market and to employment, while pursuing environmental and sustainable development goals.

Community guidelines setting the general parameters were established in 1996 for the Trans-European Transport Network (TEN-T) and the Trans-European Energy Networks (TEN-E) and in 1997 for the Trans-European Telecommunications Networks (TEN-Telecom). These guidelines were subsequently revised with the latest (and major) changes finalized in 2013.



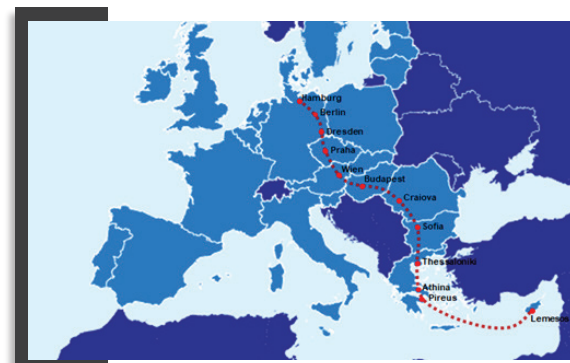


*The Comprehensive and Core
TEN-T of Cyprus*

The revised TEN-T infrastructure policy establishes a dual-layer structure for the EU transport routes, comprising a comprehensive network and a core network. The comprehensive network is a multimodal network for all EU regions with an accessibility that furthers their economic, social and territorial development and should be completed by 2050. The parts of the comprehensive network which are of the highest strategic importance for both European and global transport flows comprise the core network and should be completed by 2030.

On the core network, nine multimodal corridors have been identified to promote the coordinated implementation of projects with the support of European Coordinators. The revised TEN-T policy also focuses on the development of the Motorways of the Sea (MoS) and on the implementation of the European Railway Transport Management System (ERTMS), with the support of European Coordinators.

Orient-East/Med Corridor



The TEN-E

The Trans-European Networks - Energy (TEN-E) Regulation identifies nine priority corridors (one of which is thematic area on smart grids) and three thematic areas in the field of cross-border energy infrastructure.

Priority thematic areas:

Smart grids deployment
Electricity highways
Cross-border carbon dioxide network

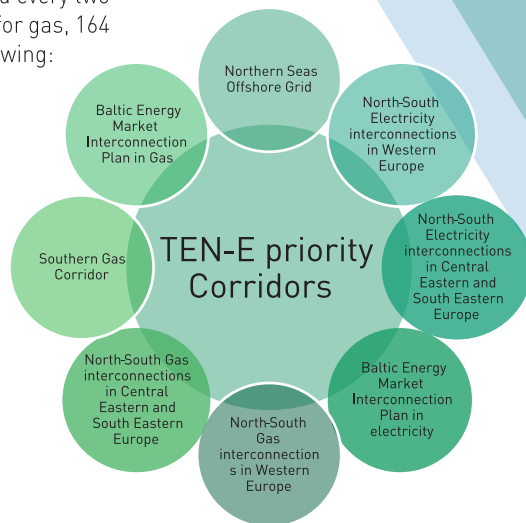
Energy infrastructure categories:

The energy infrastructure categories to be developed concern: electricity, gas, oil, carbon dioxide

The regulation establishes projects eligible for EU financing and categorised them in Projects of Common Interest (PCIs) for electricity and gas networks, Project Promoters (PPs) to be given priority when EU funding is granted and projects of European Interest (cross-border related PPs).

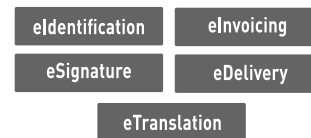
The regulation lists the PCIs, PPs and projects of European Interest. The list is revised every two years and it currently identifies 32 projects of European Interest for electricity and 10 for gas, 164 PCIs for electricity and 122 for gas. Cyprus included in the latest list of PCIs the following:

- ▶ EuroAsia Interconnector
- ▶ EastMed pipeline
- ▶ CyprusGas2EU (FSRU)



The revised TEN-Telecom guidelines are in line with the Europe 2020 Strategy and highlights the importance of digital infrastructure for improving services, expanding choice and creating employment. EU funding is provided for projects identified in two pillars, Digital Service Infrastructures (DSIs) and Broadband Networks. DSIs are categorised into:

- Five basic, reusable, facilitating cross-border and sector interaction between EU public administrations and



- Ten sector specific, providing more complex Trans-European on-line services for citizens, businesses and public administrations.

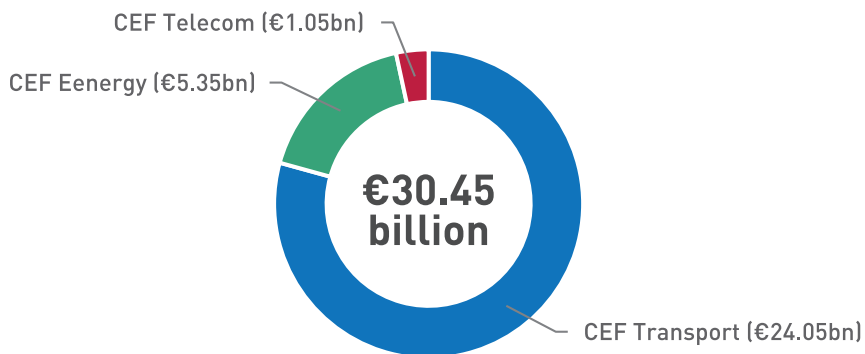


Broadband Networks provides support for the deployment and modernisation of EU broadband networks.

The Connecting Europe Facility (CEF)

The Connecting Europe Facility regulation entered into force in the end of 2013 as a unified tool for financing the implementation of the TEN, through the establishment of a competitive environment. It aims to promote the development of high-performing and environmentally sustainable interconnected transport, energy and communications networks across Europe, thereby contributing to economic growth and social and territorial cohesion within the EU.

The budget for CEF amounts to €30.4 billion for the period 2014-2020, of which €24.05 billion is allocated to the transport sector (of which €11.3 billion are earmarked in the Cohesion Fund for transport infrastructure), €5.35 billion to the energy sector and €1.05 billion to the telecom sector.



CEF Objectives for Transport, Energy and Telecommunications

CEF TRANSPORT

- Removing bottlenecks, Enhancing rail interoperability, Bridging missing links and Improving cross-border sections.
- Ensuring sustainable and efficient transport systems in the long run.
- Enabling the transition to innovative low technologies for all modes of transport.
- Optimising the integration and interconnection of transport modes and enhancing the interoperability of transport services

CEF ENERGY

- Enhancing the competitiveness of the internal energy market.
- Supporting the interoperability of electricity and gas networks throughout EU.
- Enhancing Union security of energy supply.
- Promoting sustainable development and environmental protection by integrating renewable energy sources and by developing smart energy networks and carbon dioxide networks.

CEF TELECOM

- Enhancing economic growth through the support of the completion and functioning of the internal market
- Contributing to the improvement of the quality of life and business development through the promotion of national, regional and local broadband networks.

CEF provides support for eligible projects through:

- ▶ **Grants** (non-reimbursable investments from the EU budget) which are implemented through the competitive process of 'calls for proposals'.
- ▶ **Innovative financial instruments**, developed together with entrusted financial institutions such as with the European Investment Bank (EIB) as an implementing partner of the Commission. They take the form of risk sharing arrangements and include guarantees, loans and project bonds and were introduced in an attempt to leverage private sector investment in TEN projects. The overall contribution from the EU budget to the CEF financial instruments has been set at max. 10% of the overall financial envelope of the CEF, over 2014-2020.
- ▶ **Programme Support Actions**, which are dedicated supporting measures to the administrations of the Member States, or bodies under their authority, to help them achieve overall TEN and CEF objectives, as well as studies and IT support to the CEF programme.
- ▶ **Blending** is the combination of CEF grants with finance from the European Investment Bank, notably the European fund for strategic investments (EFSI), or with finance from National Promotional Banks or private investors. It was introduced to expand the scope of private sector investment and the first Blending Call was announced in 2017.

CEF aims to accelerate **investments** in field of Trans-European Networks in **transport**, **energy** and **telecommunications**. Enabling and **strengthening** the synergies between the three CEF **sectors** is among its key priorities. A multi-sectorial call for proposals was launched in 2016 for the allocation of financial assistance to projects of common interest in the fields of energy and transport.

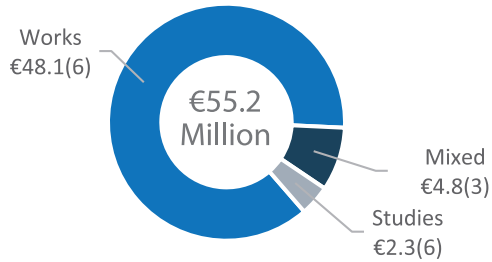
Sector	Total Cost (€)	CEF Funding (€)
Transport	93.1 M	55.2 M
Energy*	368.1 M	151.6 M
Telecom	7.2 M	5.0 M

*Cyprus participates with Greece in the EastMed Pipeline Action with a total cost of €69 M and CEF Funding of €34,5 M

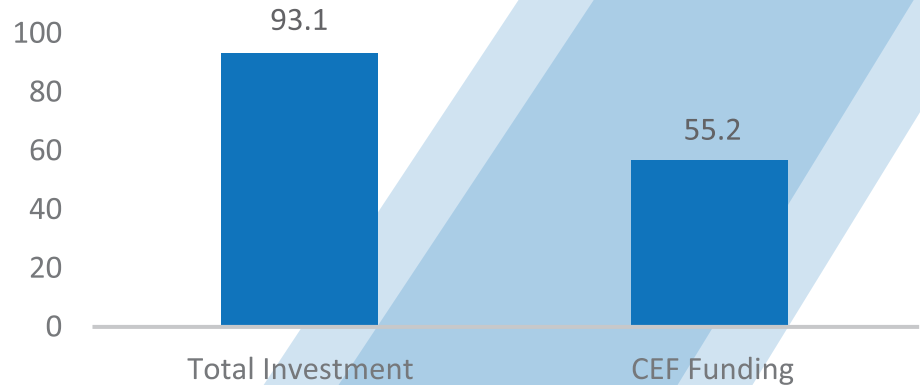
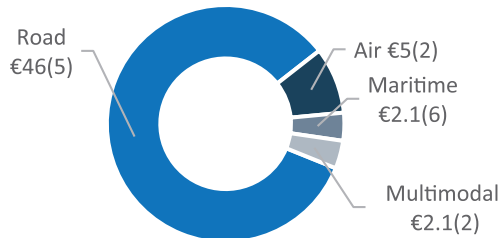
Between the period 2014 – 2017 Cyprus submitted 17 eligible proposals.

15 projects were selected, with beneficiaries from Cyprus receiving €55.2 million of CEF Transport funding.

Funding per type € million
(number of projects)



Funding per transport mode
€ million
(number of projects)





eCall (based on the European emergency number 112) is the emergency call system that automatically alerts rescue services in case of vehicle crashes. Fitting of the eCall device on all new models of cars and light vans will become obligatory as of the 31st of March 2018. I_HeERO is addressing the need for Member States to upgrade their PSAPs in compliance with the ITS Directive (2010/40/EU), thus enabling eCall to be correctly implemented across all EU Member States. This Action also utilizes studies on the possibility of extending the use of eCall for other vehicle types, not currently covered under the EU legislation on eCall, for example Heavy Goods Vehicles (trucks), dangerous goods carriers and powered two wheelers (motorcycles). The Action also examines the requirement for data integration and defines conformity assessment for all PSAPs as required by the legislation.

Call year: 2014

Member State(s): Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Finland, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Romania, Slovenia, Spain, United Kingdom

Implementation schedule: January 2015 to March 2018

Maximum EU contribution: €15,179,637

Estimated total cost: €30,359,274

Percentage of EU support: 50%

Coordinator: Niedersächsisches Ministerium für Wirtschaft Arbeit und Verkehr

Status: Ongoing

Transport mode: Road

Beneficiary (Cyprus): Cyprus University Of Technology / Department of Electrical and Mechanical Services

2014-EU-TM-0206-S (STM Validation Project)

This Action mainly aims at validating the concept of Sea Traffic Management (STM), having been defined through MONALISA and MONALISA 2.0 projects, previously supported by TEN-T, making it a part of a part of a global project, aiming at ensuring successful deployment of STM.

STM aims to eliminate and overcome the communication and information sharing challenges between stakeholders in the maritime transport industry. In the STM Validation Project, the theoretical definition work carried out in MONALISA 2.0 will be taken into practice by establishing large-scale test beds for Sea Traffic Management in the Nordic region and in the Mediterranean Sea. In these test beds, Voyage Management, Flow Management and Port Collaborative Decision Making (CDM) will be tested and validated in practice. An infrastructure for the information exchange in the test beds will also be set up.

The Action will also refine and develop the existing analyses on the effects on charter parties, the legal and liability aspects, operational aspects such as usability and cyber security, as well as provide a cost benefit analysis with compelling business cases for affected parties.

Call year: 2014

Member State(s): Austria, Cyprus, Denmark, Finland, Germany, Ireland, Italy, Netherlands, Norway (Non EU), Portugal, Spain, Sweden and United Kingdom.

Implementation schedule: January 2015 to December 2018

Maximum EU contribution: €21,488,717

Estimated total cost: €42,977,434

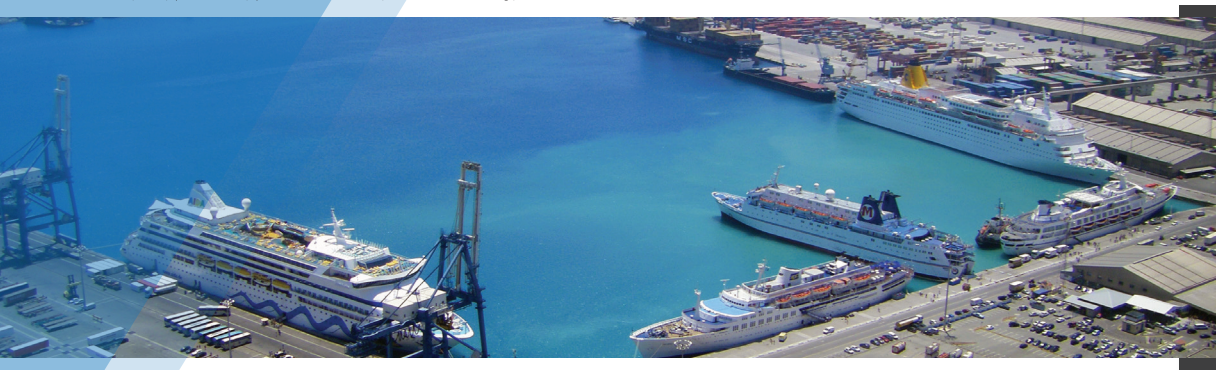
Percentage of EU support: 50%

Coordinator: Swedish Maritime Administration

Status: Ongoing

Transport mode: Maritime

Beneficiary (Cyprus): Cyprus University Of Technology



2014-EU-TM-0531-S (Fresh Food Corridors)

Transport mode is mainly determined by two factors, distance of transition and type of goods to be transported. These factors make transportation of fresh food, for example fresh fish, flowers and fruits (deteriorating goods), time sensitive and challenging. Because intermodal transport solutions (the movement of cargo/products using more than one mode of transport) rely on time-consuming transshipment, they are at a disadvantage compared with all-road transport. For this reason, perishable products were typically transported by road due to the flexibility of “door to door” deliveries.

With the improvement in cold transport (better enhance refrigeration technologies), time factor is less critical now as the use of a wider variety of transport modes within the same logistics chain (cold chain) has achieved this.

The Action is part of a Global Project whose main objective is to achieve a safe, sustainable and efficient fresh food transport system in the Euro-Mediterranean area through the long term effective and sustainable connection between the Trans-Mediterranean Transport Network (TMT-T) and the Trans-European Transport Network (TEN-T) of which MoS represent the maritime dimension.

The overall objective of the Action is to enhance a sustainable inter-modal transport and logistics system for freight movement between Mediterranean and Northern European destinations by rail. Dry and reefer containers will move from their origin by inland transportation modes to the gateway ports, then by vessels on a scheduled service between non-EU ports in the Mediterranean (Israel) to EU ports then by dedicated road services to Northern logistical centres and then by truck to the end client.



Call year: 2014

Member State(s): Cyprus, France, Israel, Italy, and Slovenia.

Implementation schedule: September 2014 to July 2018

Maximum EU contribution: €10,055,833

Estimated total cost: €20,111,666

Percentage of EU support: 50%

Coordinator: Luka Koper, Port and Logistic System, Public Limited Company

Transport corridor: Mediterranean, North Sea - Mediterranean, Rhine - Alpine

Transport mode: Maritime

Beneficiary (Cyprus): Cyprus Ports Authority

Call year: 2014

Member State(s): Austria, Cyprus, Czech Republic, Germany, Greece, Italy, Poland, Romania, Slovenia
Implementation schedule: January 2015 to December 2018

Maximum EU contribution: €8,257,000

Estimated total cost: €41,285,000

Percentage of EU support: 20%

Coordinator: Bundesministerium für Verkehr Innovation und Technologie

Transport corridor: Baltic - Adriatic, Mediterranean, North Sea - Baltic, Orient/East-Med, and Rhine - Danube

Transport mode: Road

Beneficiary (Cyprus): Public Works Department – Ministry of Communications and Works, Republic of Cyprus

CROCODILE 2, involves public authorities, road administrations and traffic information service providers to ensure coordinated traffic management and control resulting in high quality traveller information services. Partners from Austria, Bulgaria, Croatia, Cyprus, Czech Republic, Germany, Greece, Hungary, Italy, Poland, Romania, Slovakia and Slovenia are working together to improve cross-border traffic and transport through implementing harmonised and synchronised ITS applications.

The Action will directly contribute to Commission Delegated Regulation (EU) No 886/2013 on the provision of road safety-related minimum universal traffic information free of charge to users as well as the provision of information services for safe and secure parking places for trucks and commercial vehicles. In addition, CROCODILE 2 will contribute to the provision of EU-wide real-time traffic information services in line with EU regulation and policy.

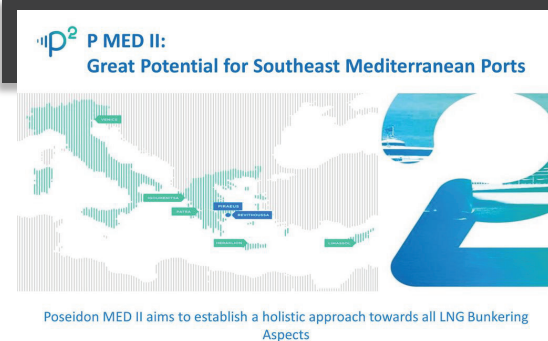


2014-EU-TM-0673-S (Poseidon Med II)

The Action is a continuation of the “COSTA II–East (Poseidon-Med)” - 2013-EU-21019-S and the “Archipelago-LNG” - 2013-EL- 92080-S projects which all together are part of the Global Project aiming to take all the necessary steps towards adoption of LNG as marine fuel in East Mediterranean Sea, while making Greece an international marine bunkering and distribution hub for LNG in South Eastern Europe. The Action will build on the achievements of the above mentioned projects as well as on the results of “COSTA” - 2011-EU-21007-S which delivered the Master Plan for LNG as marine fuel in the Mediterranean Region and has the following specific objectives:

- ▶ Facilitate the adoption of the regulatory framework for the LNG bunkering;
- ▶ Design the extension of Revithoussa LNG terminal;
- ▶ Design and construct an LNG fuelled specific feeder vessel;
- ▶ Implement technical designs and plan approvals for the retrofit/new building of LNG fuelled vessels and for additional ports' infrastructure for bunkering operations;
- ▶ Examine potential synergies with other uses of LNG;
- ▶ Develop a sustainable LNG trading and pricing pattern;
- ▶ Develop financial instruments to support the port and vessel installations.

Altogether the Action constitutes a wider benefit MoS project contributing to the development of LNG as alternative fuel in maritime transport. By implementing this comprehensive study and pilot activity, the project responds to the international and European requirements in reducing sulphur emissions to 0.5% in maritime transport globally.



Call year: 2014

Member State(s): Cyprus, Greece, Italy

Implementation schedule: June 2015 to December 2020

Maximum EU contribution: €26,639,703

Estimated total cost: €53,279,405

Percentage of EU support: 50%

Coordinator: Public Gas Corporation of Greece (DEPA) S.A.
(project coordinator)

Transport corridor: Orient/East-Med

Transport mode: Maritime

Beneficiary (Cyprus): Cyprus Ports Authority

2015-EU-TM-0108-S Preventing incident and accident by safer ships on the oceans - (PICASSO)

This Motorways of the Sea Action addresses wider benefits by studying and testing effective ICT solutions, formative solutions and therefore addressing the human element.

PICASSO is organized in the following core activities: On shore/on board safety and security, Emergency simulations, Training and human factor. Building upon the results of previous EU supported initiatives, such as Monalisa 2.0, the Action contributes to the global framework of the EU maritime transport policy and to Motorways of the Sea objectives by inter alia: improving safety of equipment, upgrading working practices for safer operations, developing new tools with a view to achieving more efficient evacuation procedures and smart and efficient response. It will therefore contribute the Global Project which aims at achieving a modern, safe and developed maritime sector.

Call year: 2015

Member State(s): Cyprus, Greece, Israel, Italy, Malta, Portugal, Spain, Sweden, United Kingdom

Implementation schedule: May 2016 to June 2018

Maximum EU contribution: €1,924,417

Estimated total cost: €3,848,834

Percentage of EU support: 50%

Coordinator: Sociedad de Salvamento y Seguridad Marítima

Transport mode: Maritime

Beneficiary (Cyprus): Cyprus Ports Authority



2015-EU-TM-0235-S (ELEMED - ELectrification of the Eastern MEDiterranean area through the extensive use of Cold Ironing and the introduction of electricity as a propulsion alternative)

This MoS wider benefit Action (twinned with 2015-EU-TM-0236-S) is focused on the assessment of the possibilities to introduce onshore power supply and electric propulsion alternative for ships in the Eastern Mediterranean. It includes four ports in three EU countries: Cyprus (Lemesos port), Greece (Port of Killini, Port of Piraeus) and under the twinned project - Slovenia (Port of Koper). The Action consists of background and preparatory studies aimed at providing a basis for preparation of a front end engineering design (FEED) for cold ironing installations in four ports with a pilot Action demonstrating cold ironing at the Port of Killini.

The ports are located on the Orient/East-Med as well as Baltic-Adriatic Corridors, and the Action is a part of a global project on implementing environmentally friendly maritime transportation in the Adriatic-Ionian Sea. The Action will promote onshore power supply solutions and electricity based propulsion systems for vessels leading to improved environmental performance of shipping and ports.

Percentage of EU support: 68.74% - 85% of the eligible costs for Cyprus 67.64% of the eligible costs for Greece



Call year: 2015

Member State(s): Cyprus, Greece

Implementation schedule: April 2016 to March 2018

Maximum EU contribution: €1,013,870

Estimated total cost: €1,475,000

Percentage of EU support: 69%

Coordinator: Hellenic Lloyd's SA

Transport corridor: Orient/East-Med

Transport mode: Maritime

Beneficiary (Cyprus): Cyprus Ports Authority

2015-EU-TM-0266-W (Synchronized Performance Based Navigation Implementation Cohesion Europe)

Call year: 2015

Member State(s): Cyprus, International Organisation, Portugal, Romania, Slovakia

Implementation schedule: February 2016 to December 2020

Maximum EU contribution: €32,600,707

Estimated total cost: €39,029,792

Percentage of EU support: 84%

Coordinator: European Organisation for the Safety of Air Navigation

Transport mode: Air

Beneficiary (Cyprus): Department of Civil Aviation of the Ministry of Transport, Communications and Works of the Republic of Cyprus

Performance Based Navigation (PBN) exploits the advanced Area Navigation (RNAV) capabilities of modern aircraft to enable efficient airspace design and the systemisation of air traffic routes.

The Action 'SPICE' concerns the deployment of PBN procedures in four Cohesion Fund Member States, providing aircraft equipment with PBN capabilities and the deployment of navigation infrastructure. The benefit of a consolidated and harmonised approach is not only to increase the overall impact of the project - such as increased efficiency, reduced costs and reduced environmental impact - but also to capitalise on mutual experience and enforce best practices.

Coordinator: EUROCONTROL



2016-CY-TA-0340-W

Improvement of the existing Interurban Road Axis Pafos – Polis Chrysochous (B7)

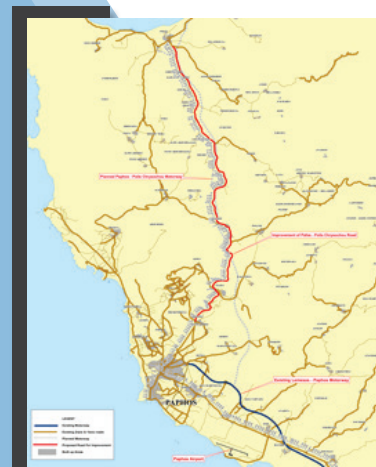
The Paphos-Polis Chrysochous interurban Cypriot road belongs to the comprehensive TEN-T road network and is approximately 30 km long.

The Action aims at improving road safety conditions and geometric standards in some sections of this road which suffers from serious operational and safety problems and does not provide a satisfactory level of service for the users.

The Action is organised in three activities:

(i) public procurement and project management, (ii) supervision and (iii) construction of climbing lanes, improvement of junctions and horizontal curves and road safety measures.

The implementation of these measures will result in reduction of travelling cost, times and casualties, increase of the capacity of the road network and also improve travel speeds.



Call year: 2016

Member State(s): Cyprus

Implementation schedule: June 2017 to December 2019

Maximum EU contribution: €1,149,000

Estimated total cost: €3,830,000

Percentage of EU support: 30%

Coordinator: Public Works Department

Ministry of Transport

Communications and Works

Republic of Cyprus

Transport mode: Road

Beneficiary (Cyprus): Public Works Department –
Ministry of Communications and Works, Republic of
Cyprus

Construction of the Lefkosia South Orbital Motorway (Phase A)

Call year: 2016

Member State(s): Cyprus

Implementation schedule: October 2017 to December 2022

Maximum EU contribution: €43,837,143

Estimated total cost: €51,573,109

Percentage of EU support: 85%

Coordinator: Public Works Department

Ministry of Transport

Communications and Works

Republic of Cyprus

Transport corridor: Orient/East-Med

Beneficiary (Cyprus): Public Works Department –
Ministry of Communications and Works, Republic of
Cyprus

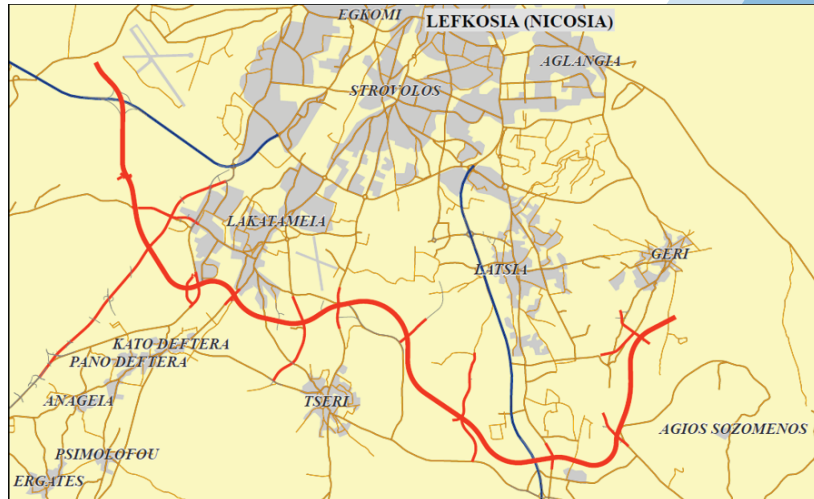
The Action is the first phase of the construction of the Lefkosia South Orbital Motorway (the Global Project) located along the Orient/East-Med Corridor.

It entails the construction of a four-lane motorway on the section between the Lemesos and Tseri junctions.

The Action also includes all necessary bridges, intersections and grade separated junctions.

The Lefkosia South Orbital Motorway will form a ring road around the southern part of Cyprus' capital and interconnect three motorways of the TEN-T network.

The Lefkosia South Orbital Motorway will ultimately contribute to divert road traffic from the urban area, thus contributing to the reduction of environmental pollution and noise as well as traffic congestion and associated delays in journeys.



2016-CY-TMC-0330-M

Improvement of Lemesos Port – Vasiliko Terminal

The Action is the study component of a global project aiming at the relocation of some activities from the port of Larnaca to the core port of Lemesos, located along the Orient/East-Med corridor in Cyprus.

The global project will consist in an upgrade of the infrastructure of the Vassiliko terminal (part of Lemesos port), and more specifically the:

- Extension of the main windward breakwater of Lemesos Port – Terminal 2 Vassiliko, by approx. 705 m and construction of a leeside breakwater of approx. 270 m in order to provide safe and secure maritime access to the Port, particularly to the eastern quay walls, and as a result enhancing the operations in the Port;

- Dredging of a navigation channel and new eastern basin in order to establish safe and secure maritime access to the Port;

- Construction of new quays of total length 810 m on the Port of Lemesos, Terminal 2 (Vassiliko) together with the necessary backfills.

More specifically, this Action concerns the studies, which will deliver the detailed design for the aforementioned infrastructure works and also provide an update of an EIA (Environment Impact Assessment) to obtain the required environmental authorisation.



Call year: 2016

Member State(s): Cyprus

Implementation schedule: June 2017 to March 2019

Maximum EU contribution: €441,920

Estimated total cost: €625,240

Percentage of EU support: 71%

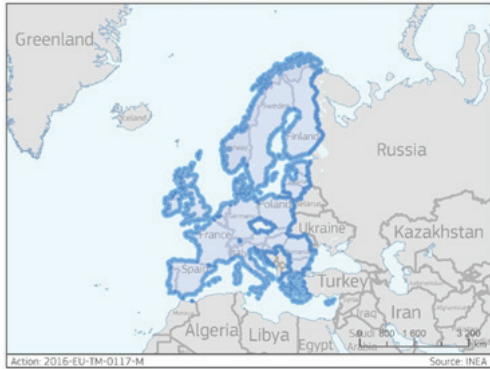
Coordinator: Cyprus Ports Authority

Transport corridor: Orient/East-Med

Transport mode: Maritime

Beneficiary (Cyprus): Cyprus Ports Authority

SESAR Deployment Programme implementation 2016-Cluster 1: General



The Action contributes to the deployment of SESAR and is aimed at facilitating the coordinated and synchronised deployment of a cluster of 69 Implementation Projects (IPs) in 27 EU Member States. These IPs are aligned with the Pilot Common Projects (PCP, Regulation (EU) No 716/2014) and will enhance ATM performance.

This Action's IPs cover all six ATM Functionalities (AFs):

- AF1 Extended Arrival Management and Performance Based Navigation in high density Terminal Manoeuvring Areas
- AF2 Airport Integration and Throughput
- AF3 Flexible Airspace Management and Free Route
- AF4 Network Collaborative Management
- AF5 Initial System Wide Information Management
- AF6 Initial Trajectory Information Sharing.

Call year: 2016

Member State(s): Austria, Belgium, Bulgaria, Croatia, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, International Organisation, Ireland, Italy, Latvia, Lithuania, Malta, Netherlands, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, United Kingdom

Implementation schedule: February 2017 to December 2020

Maximum EU contribution: €261,031,311

Estimated total cost: €634,599,805

Percentage of EU support: 41%

Coordinator: SESAR Deployment Manager (NATS (En-Route) Plc on behalf)

Transport mode: Air

Beneficiary (Cyprus): Department of Civil Aviation of the Ministry of Transport, Communications and Works of the Republic of Cyprus

2016-EU-TM-0163-W (CROCODILE 3)

CROCODILE 3 is the follow up of the previous EU co-funded projects CROCODILE and CROCODILE II, in which Member States worked together to improve cross-border road transport by implementing ITS applications.

The Action contributes to Commission Regulation 886/2013 with regard to the provision of road safety-related minimum universal traffic information free of charge to users, as well as Commission Regulation 885/2013 with regard to information services for safe and secure parking places for trucks and commercial vehicles.

Public authorities, road administrations and traffic information service providers of seven countries cooperate within CROCODILE 3 for the deployment of harmonised and synchronized ITS services.



Call year: 2016

Member State(s): Austria, Cyprus, Czech Republic, Italy, Slovenia

Implementation schedule: January 2018 to December 2020

Maximum EU contribution: €2,751,000

Estimated total cost: €13,755,000

Percentage of EU support: 20%

Coordinator: Bundesministerium für Verkehr Innovation und Technologie

Transport corridor: Baltic - Adriatic, Mediterranean, Orient/East-Med

Transport mode: Road

Beneficiary (Cyprus): Public Works Department – Ministry of Communications and Works, Republic of Cyprus

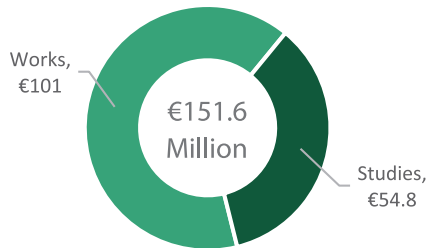


CEF ENERGY PROJECTS

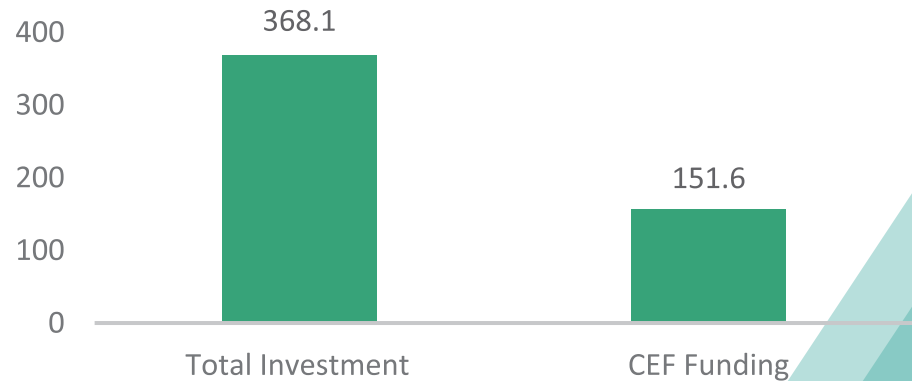
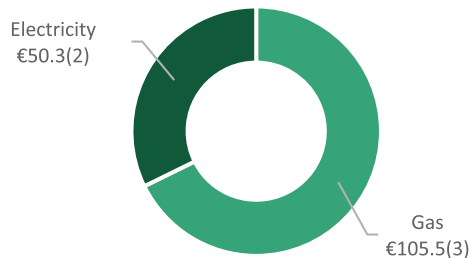
Cyprus participates in 5 CEF Energy projects:

- ▶ 2 projects in North-South electricity interconnections in Central Eastern and South Eastern Europe (NSI East Electricity).
- ▶ 1 project in North-South gas interconnections in Central Eastern and South Eastern Europe (NSI East Gas).
- ▶ 2 projects in Southern Gas Corridor (SGC).

Funding per type (€ million)



Funding per project € million
(number of projects)



3.10.1-0028-CY-S-M-14

EuroAsia Interconnector

Design, Implementation and Environmental Studies

The Action concerned the entire cluster 3.10. Israel – Cyprus – Greece between Hadera and Attica region (currently known as the EuroAsia Interconnector) which consists of an approximately 1518 km long 400 kV interconnector with a capacity of around 2000 MW. The Action defined the Technical and Technological Solution, selected the preferred route corridor among those already pre-defined including a Reconnaissance Survey, provided useful results for the cable engineering and produced the environmental study in Cyprus, Greece and Israel.

Call year: 2014

Member State(s): Cyprus

Implementation schedule: January 2015 to November 2016

Maximum EU contribution: €1,325,000

Estimated total cost: €2,650,000

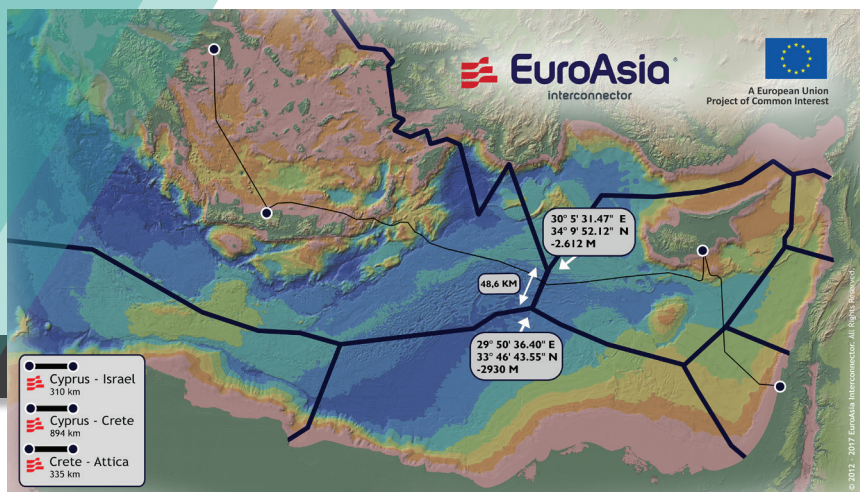
Percentage of EU support: 50%

Beneficiaries: DEH QUANTUM ENERGY LTD

Energy corridor: North-South electricity interconnections in Central Eastern and South Eastern Europe

Energy sector: Electricity

Project(s) of Common Interest: 3.10.1, 3.10.2, 3.10.3



Eastern Mediterranean Natural Gas Pipeline – Pre-FEED Studies

Programme: CEF Energy

Call year: 2015

Member State(s): Greece

Implementation schedule: May 2015 to March 2018

Maximum EU contribution: €2,000,000

Estimated total cost: €4,000,000

Percentage of EU support: 50%

Energy corridor: Southern Gas Corridor

Energy sector: Gas

Project(s) of Common Interest: 7.3.2001

The Action is part of the Project of Common Interest (PCI) 7.3.1 "Pipeline from offshore Cyprus to Greece mainland via Crete".

The Action included activities and studies in relation to the Pre-FEED (Front-End-Engineering Design) phase of the PCI Eastern Mediterranean Gas Pipeline (East Med), namely technical feasibility studies, reconnaissance marine survey, as well as economic, financial and competitiveness studies.

The Action contributed to enhancing the maturity of the project with a detailed and complete technical and economic assessment, enabling the project promoter to provide reliable data to the upstream producers and to downstream operators for the selection of the PCI as preferred export route.



3.10.1-0004-CYEL-S-M-16

EuroAsia Interconnector - Final Detailed Studies

The Action contributes to the implementation of the cluster of projects of common interest 3.10. The EuroAsia Interconnector consists of a 500 kV DC underwater electric cable and associated equipment for interconnecting the Cypriot, Israeli and Greek transmission networks. The first phase of the interconnector will have a capacity of 1,000 MW and a total length of around 1,518 km.

Building upon the preparatory studies financed under CEF Action 3.10.1-0028-CY-S-M-14, the objective of this Action is to finalise the design of the interconnector and to procure the associated works contracts. The scope entails the Detailed Geophysical and Geotechnical Route Study, the Submarine Power Cable Installation Study, the Territorial Civil Works Study, the Front End Engineering Design Study and procurement consultancy services.

Upon completion of the Action, the construction of the PCIs will be launched



Call year: 2016

Member State(s): Cyprus

Implementation schedule: June 2017 to December 2020

Maximum EU contribution: €14,500,000

Estimated total cost: €29,000,000

Percentage of EU support: 50%

Beneficiaries: EuroAsia Interconnector Limited

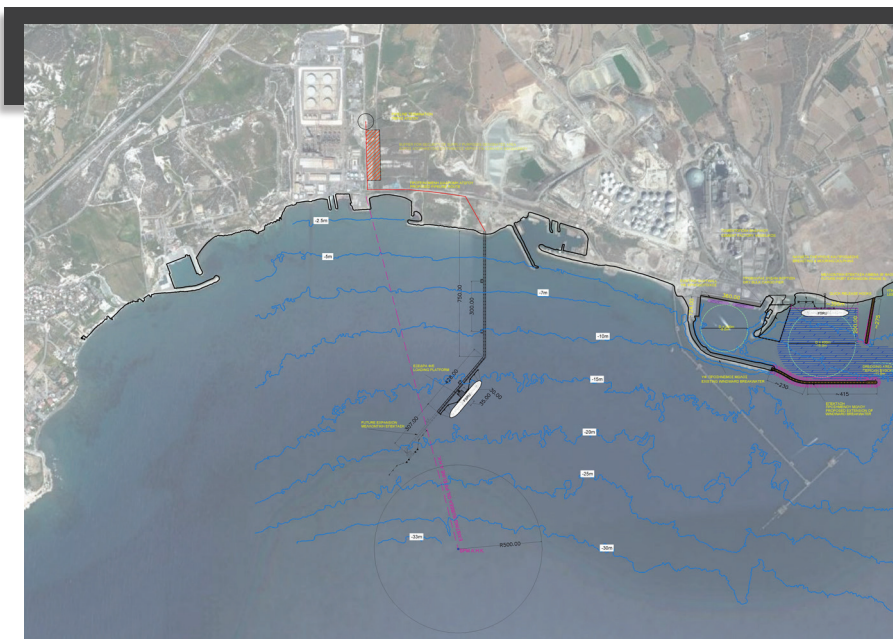
Energy corridor: North-South electricity interconnections in Central Eastern and South Eastern Europe

Energy sector: Electricity

Project(s) of Common Interest: 3.10.1, 3.10.2, 3.10.3

CyprusGas2EU project

The Action aims at introducing Natural Gas to Cyprus in order to end the current situation of the islands' energy isolation, by establishing the required infrastructure. The investment will consist of a Floating Storage and Regasification Unit (FSRU), a jetty intended for the unit's safe mooring, a jetty borne pipeline and an onshore gas pipeline, an onshore storage array and a metering station at the Lemesos Port, Terminal 2 (Vassiliko).



Programme: CEF Energy, CEF Transport

Call year: 2017

Member State(s): Cyprus, Greece

Implementation schedule: June 2018 to -----

Maximum EU contribution: €101,000,000

Estimated total cost: €253,000,000

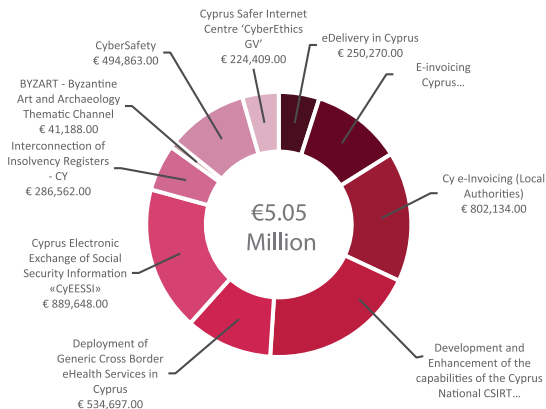
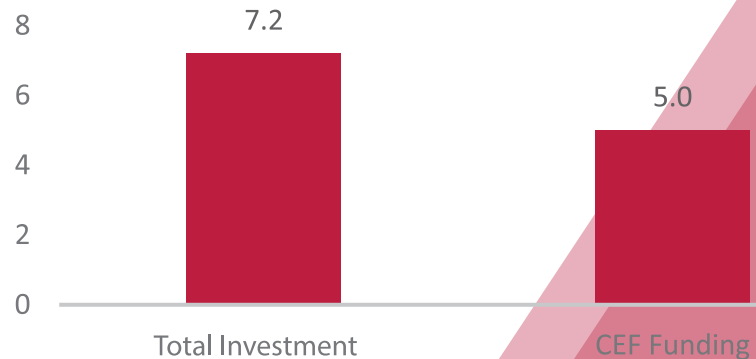
Status: Ongoing

Energy corridor: Southern Gas Corridor – LNG Trans-European Network/Transport



CEF Telecom Projects

10 agreements have been signed for projects including beneficiaries from Cyprus between the period 2014 -2017. €5 million of CEF Telecom funding is earmarked for Cyprus beneficiaries, corresponding to a total cost of €7.2 million. Cyprus participates in 2 DSI building blocks and 6 sector-specific DSIs.



Cyprus Safer Internet Centre “Cyber Ethics GV” (CEF-TC-2014-1 007)

CyberEthics is the Cyprus Safer Internet Centre, which promotes the safer use of the web as well as modern mobile phones, and is the main organization responsible for complaints and reports of any illegal or harmful content on the web. The CyberEthics consists of the following three services:

- ▶ Information Services
- ▶ Complaints Hotline
- ▶ Helpline



Coordinator: Cyprus Neuroscience and Technology Institute (CNTI)

Programme: CEF Telecom

Call year: 2014

Member State(s): Cyprus

Implementation schedule: January 2015 to June 2016

Maximum EU contribution: €224,409

Percentage of EU support: 50%

Coordinator: Ministry of Education and Culture

Programme: CEF Telecom

Call year: 2015

Member State(s): Cyprus

Implementation schedule: July 2016 to December 2018

Maximum EU contribution: €494,863

Percentage of EU support: 50%

The Internet has become the natural playground and place of encounter, learning and creativity for young people. Children are going online at an ever younger age on a diverse range of interconnected and mobile devices, often without adult supervision. As a group, children have specific needs and vulnerabilities: they need accessible and appropriate content and services; adequate protection and support from harmful content, contact and conduct; and the digital skills to use the Internet and other online technologies to their advantage, safely and responsibly.

The overall objective of this DSI is to deploy services that help make the Internet a trusted environment for children by providing a platform to share resources, services and practices between national Safer Internet Centres (SICs) and to provide services to their users, including industry. All services will be accessed and delivered either at EU level or via interoperable national SICs, which will form part of the initial platform and infrastructure.



Protecting kids online



1 in 3 Internet users is a **child**



Around **half of all 11 to 16 year-olds** have encountered one or more of 6 frequent **internet risks**.

eHealth (2015-CY-IA-0095)

The objective established by the eHealth Network is to facilitate the cooperation and the exchange of information among Member States, to work towards delivering sustainable European eHealth systems and services and interoperable applications. A further objective is to support Member States in developing common identification and authentication measures to facilitate transferability of data in cross-border healthcare. The eHealth Network endorsed four eHealth services to be part of the CEF. This Action caters for these services, which include Cross-border patient summary service and Cross-border ePrescription and eDispensation service.

Coordinator: Ministry of Health of the Republic of Cyprus

Programme: CEF Telecom

Call year: 2015

Member State(s): Cyprus

Implementation schedule: January 2017 to December 2020

Maximum EU contribution: €534,697

Percentage of EU support: 75%



Coordinator: Ministry of Interior - Nicosia District
Administration Office (Mol - NDAO)
Programme: CEF Telecom
Call year: 2016
Member State(s): Cyprus
Implementation schedule: January 2018 to December
2018
Maximum EU contribution: €802,134
Percentage of EU support: 75%



To promote the uptake and speed up the use of the eInvoicing DSI amongst both public and private entities established in the EU and EEA countries participating in the CEF Digital programme, generic services will be supported through grants under the 2015 budget with the purpose of putting solutions for the exchange of eInvoices in place. The appropriate technical solutions and organizational set-up will have to be put in place to make sure that in particular regional and local authorities can exchange eInvoices with economic operators at an affordable cost for them. To foster interoperability between Member States, preference will be given to solutions that are already on the market and which allow cross-border exchanges of eInvoices. The preferred solutions should be based on existing technical specifications developed within the framework of European standards organizations such as CEN (CWA 16356-CEN MUG and CWA 16562- CEN BII) and take into account the results of Large-Scale Pilot Projects implemented within the framework of the Policy Support Programme of the Competitiveness and Innovation Framework Programme (CIP). Moreover, other solutions which are based on European or international standards in the domain of eInvoicing can also be considered, provided that they envisage compliance with the above mentioned European standard (EN) on electronic invoicing.

eDelivery (2016-CY-IA-0054)

The Action will expand and operate a national eDelivery Access Point with AS4 profile. This Action complements Action 2015-CYIA0052, 'e-Invoicing Cyprus' that include the set-up of Access Point with AS2 profile and which is already adopted and implemented by the Ministry of Finance in Cyprus. In addition, this Action will deploy and operate a Service Metadata Publisher (SMP) in Cyprus and allow secure message and data exchange with other European organisations, moving towards an effective European Digital Single Market. The Action will also identify future activities required in order to achieve better integration of customer' applications with PEPPOL business processes. Furthermore, the Action supports the transition from AS2 to AS4 in the PEPPOL profile of CEF eDelivery as agreed between the European Commission and OpenPeppol in the context of eDelivery alignment.

A National eDelivery Access Point will serve regional entities at government level and local private sector companies. This Action will increase uptake and step up the use of the e-Delivery DSI amongst public and private entities (B2G) as well as between administrations and citizens (A2C).

Coordinator: Ministry of Transport, Communications and Works (Postal Services)]

Programme: CEF Telecom

Call year: 2016

Member State(s): Cyprus

Implementation schedule: September 2017 to August 2019

Maximum EU contribution: €250,270

Percentage of EU support: 75%



The Action's objective is to promote and accelerate the uptake of eInvoicing among communities and municipalities in Cyprus. This Action will build on the results of the first CEF eInvoicing project (Action 2015-CY-IA-0052) by piloting the eInvoicing platform (PEPPOL complaint) selected under the previous Action in the Municipality of Nicosia. The eInvoicing platform will be customized and tested to suit the needs of the Municipality of Nicosia.

In addition, the Action will undertake information gathering and analysis of existing ERPs (Enterprise Resource Planning) used by the Regional and Local Authorities (i.e. communities and municipalities) in Cyprus in order to streamline and ease the adoption of eInvoicing by the local and regional authorities e.g. by preparing the analysis document for a centralized ERP. It will further disseminate the results of the Action to the relevant stakeholders from the local and regional level and prepare a sustainability strategy setting out the activities to be implemented until 2020 to ensure the take-up of eInvoicing by the local and regional authorities.

Coordinator: Ministry of Interior - Nicosia District Administration Office

Programme: CEF Telecom

Call year: 2016

Member State(s): Cyprus

Implementation schedule: January 2018 to December 2018

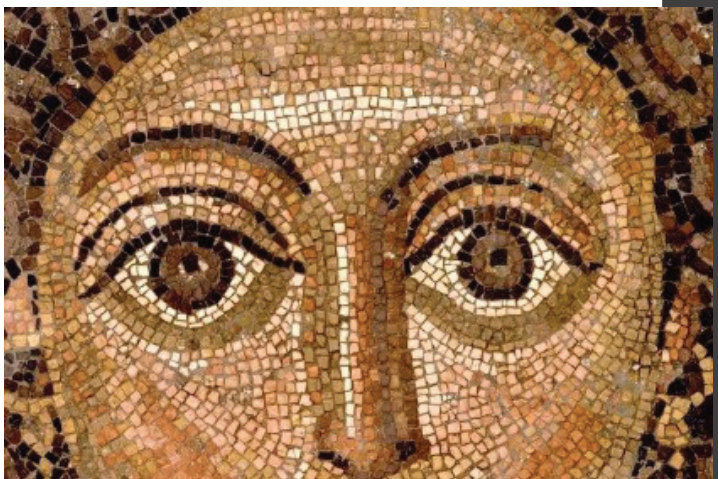
Maximum EU contribution: €802,134

Percentage of EU support: 75%



Europeana – BYZART, Byzantine Art and Archaeology Thematic Channel (2016-EU-IA-0094)

The Action aims to add 75000 new digital objects available and accessible online, through the Europeana collections, by gathering photos, video and audio content, 3D surveys and reconstructions about Byzantine History and culture. These will be digitized in order to be saved through the years. By the end of this Action, the digital items related to Byzantine Art and Archaeology will reach a number of about 115,000.



Coordinator: University of Bologna, Department of History and Cultures, Italy

Programme: CEF Telecom

Call year: 2016

Member State(s): Cyprus

Implementation schedule: October 2017 to April 2019

Maximum EU contribution: €41,188

Percentage of EU support: 50%



Coordinator: Office of the Commissioner of Electronic Communications and Postal Regulation (OCECPR)

Programme: CEF Telecom

Call year: 2016

Member State(s): Cyprus

Implementation schedule: September 2017 to September 2019

Maximum EU contribution: €962, 46

Percentage of EU support: 75%

The Action aims at preparing the National Cyprus Computer Security Incident Response Team (CSIRT)/Computer Emergency Response Team (CERT) for the requirements and tasks arising from the Directive on Security of Network and Information Systems (NIS Directive), and the General Data Protection Regulation (Regulation (EU) 2016/679 - GDPR). The Office of the Commissioner of Electronic Communications and Postal Regulation (OCECPR) has the mandate to operate the national CSIRT in Cyprus (CY CSIRT) operating under the supervision of the Commissioner.

Specifically, the Action will further develop and improve CY CSIRT capabilities to provide proactive and reactive services in response to security incidents to the consumers and various public and private constituents in the Republic of Cyprus (the governmental CSIRT, the academic CSIRT, the Cyprus Police Cybercrime unit, the Critical Information Infrastructure Administrators/Owners - CII, the Electronic Communications Operators and the Internet Service Providers - ISPs). The Action also aims at facilitating cross-border cooperation and information exchange with other European CSIRTs by using existing/under development infrastructures, tools, mechanisms (e.g. the Cyber Security Core Service Platform), and other key tools used by the CSIRT community (e.g. MISP threat sharing platform). The cross border cooperation will also be facilitated by participation in the Computer Security Information Response Teams (CSIRT) network according to Art. 12 of the NIS Directive and in the meetings of the Task Force on Computer Security Incident Response Teams (TFCSIRT).

European e-Justice Portal Interconnection of Insolvency Registers – CY (2017-CY-IA-0023)

The e-Justice Portal is conceived as a future electronic one-stop-shop in the area of justice. The Portal's objective is to contribute to the creation of a European judicial area by leveraging ICT to facilitate access to justice and enable electronic cross-border judicial proceedings and judicial cooperation.

This Action will develop a Webservice that will allow the Interconnection of the National Insolvency Registry of Cyprus with the European e-Justice Portal (CSP) in accordance with the defined interface specification of agreed web services for Interconnection of Insolvency Registers (IRI) relating to EU Regulation 2015/848.

The Action aims to improve the provision of relevant and timely information in a transparent way to the relevant creditors and courts and to prevent the opening of parallel insolvency proceedings. It will contribute to the development of a system of national electronically searchable databases linked together through the European e-Justice portal, accessible by every EU Member State. The Action will enable digital interaction between public authorities and citizens, public authorities, businesses and organisations, and between public authorities of different Member States. Furthermore, the Action will support economic growth, by ensuring the protection of creditors from “forum shopping” and facilitating a solid business environment for investments.



Coordinator: Ministry of Energy, Commerce, Industry and Tourism (MECIT)

Programme: CEF Telecom

Call year: 2017

Member State(s): Cyprus

Implementation schedule: February 2018 to July 2019

Maximum EU contribution: €286,562

Percentage of EU support: 75%

Electronic Exchange of Social Security Information (EESSI) Cyprus Electronic Exchange of Social Security Information «CyEESSI» (2017-CY-IA-0016)

Coordinator: University of Cyprus

Programme: CEF Telecom

Call year: 2017

Member State(s): Cyprus

Implementation schedule: March 2018 to February 2020

Maximum EU contribution: €889,648

Percentage of EU support: 75%



Electronic Exchange of Social Security Information (EESSI) is a digital service infrastructure (DSI) which aims at improving the cross-border communication between the social security institutions of EU Member States and European Economic Area (EEA) countries participating to the CEF programme.

The CyEESSI Action aims at enabling seamless exchange of health and social insurance related information in Cyprus over the same secure network as the exchange of financial information, thereby allowing provision of information to citizens in a timely way. Safety of information will be improved by reducing the frequency of errors and delays, as well as improving accessibility to benefits. Furthermore, the Action will provide health care, social insurance and family benefits personnel with information that will increase productivity and quality of the services to the public.

From a technical point of view, the Action includes installation and configuration of one EESSI Access Point (AP) and three Reference Implementation of National Application (RINA) installations.

Finally, the Action will ensure the connection of the Cypriot national system to the central EESSI Core platform.

CEF SYNERGY

In the Synergy call in 2016, €22.1 million of EU funding was invested in seven actions contributing to the deployment of sustainable and efficient transport and energy infrastructure.

Cyprus was successful in obtaining grants for the CYnergy project.

CEF BLENDING

In the Blending Call in 2017, €1.35 billion of EU funding was made available in the transport sector aiming at maximising the leverage of private involvement. Out of the 65 eligible proposal 35 were granted EU funding and Cyprus participates in one of them, the 2017-EL-TM-0048-W SuperGreen (SG)



CYNERGY®

Programme: CEF Transport, CEF Energy

Call year: 2016

Member State(s): Cyprus, Greece, United Kingdom

Implementation schedule: April 2017 to March 2020

Maximum EU contribution: €4,482,000

Estimated total cost: €7,470,000

Percentage of EU support: 60%

Coordinator: Ocean Finance Ltd

Energy corridor: Southern Gas Corridor

Energy sector: Gas

Project(s) of Common Interest: 7.3.2

The Action concerns any possible optimisation studies required for the efficient establishment of an Integrated Storage, Transmission and Distribution System of natural gas in Cyprus, with regards to the energy (industrial and commercial users) and transport sectors (marine and road transport), in the form of Compressed Natural Gas (CNG) and Liquefied Natural Gas (LNG).

The CYnergy project takes as a focal point a floating LNG Facility to be developed in Cyprus and aims at developing a comprehensive strategy for the introduction and use of natural gas by the sectors of transport and energy in Cyprus.

The project will concentrate on executing the entire necessary market-related, technical and financial, commercial and environmental studies for the introduction of LNG and CNG, as alternative fuels in the energy and transport sectors, the development of the respective supply chain, the financing of necessary investments and the market roll-out and optimisation.

The outcome of the Action will be the production of studies and reports which will be used for the examination of synergies that will occur within the energy and transport sectors and will contribute in achieving the smooth transition to the alternative fuel era, as well as to ensuring a sustainable energy and transport system in Cyprus.



2017-EL-TM-0048-W SuperGreen (SG)

The SuperGreen (SG) Action brings forward a holistic approach towards the electrification and utilization of alternative fuels of shipping in Greece, by implementing innovative technological systems, based on a market-oriented approach.

The specific objectives of the Action are:

1. To construct and put in operation 3 All-Electric Commuter Vessels;
2. To construct and put in operation a Hybrid (LNG/Electric) Catamaran Vessel;
3. To provide eventually three medium-sized type Electric Buses and one regular type Electric Bus for the users of the electric vessels and the Hybrid Catamaran Vessel;
4. To provide on Piraeus Port the means for LNG Bunkering & Battery Charging;
5. To create an IT platform providing services to the users of the transport means supported by the Action.

It is expected that the Action will support the: a) Minimization of the possible adverse effects that the operation of vessels and buses has on the natural and urban environment, via the use of LNG and electricity as a source of power, b) Exploitation of low-carbon electric and LNG energy for vessels, by using state-of-the-art technologies, c) Emphasis on sustainable shipping, utilising zero or minimum emission solutions with a focus on short and medium routes mobility and d) Utilization of ITS solutions to provide digital services.

Call year: 2017

Member State(s): Cyprus, Greece

Implementation schedule: January 2019 to April 2021

Maximum EU contribution: €3,938,981

Estimated total cost: €19,694,903

Percentage of EU support: 20%

Coordinator: Ocean Finance Ltd

Transport corridor: Orient/East-Med

Transport mode: Multimodal



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June 2018



