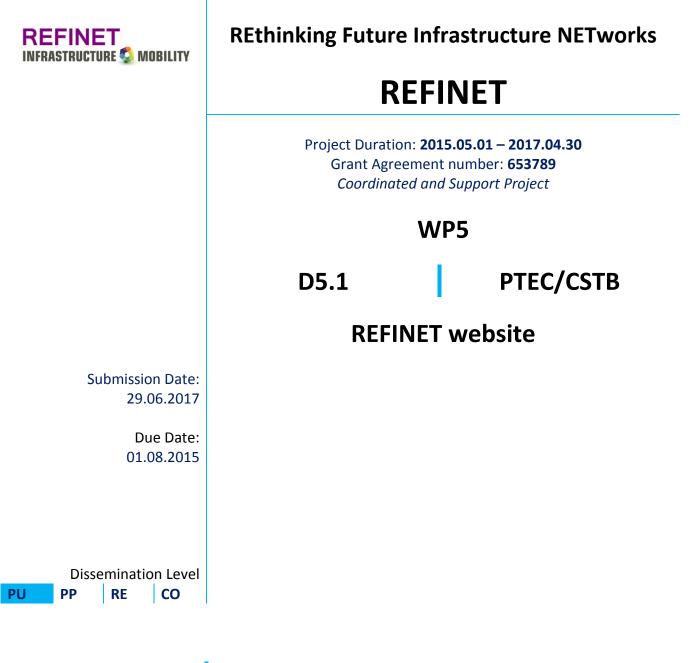


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*Coordinated and Support Project* (CSA) Call: H2020-MG-2014\_SingleStage\_B Topic: MG-8.1b-2014



Project Coordinator: Alain ZARLI (CSTB) Tel: +33 493 956 736 E mail: alain.zarli@cstb.fr Project website address: www.refinet.eu



# **REVISION HISTORY**

Date	Version	Author/Contributor <sup>1</sup>	Revision By <sup>2</sup>	Comments
08.10.2015	V01	PTEC, Elena GAYO	CSTB, Luc BOURDEAU	Draft - for review by Coordinator
20.11.2015	V02	CSTB, Luc BOURDEAU		Released version
27.04.2016	V03	PTEC, Elena GAYO		
28.06.2017	V04	PTEC, Elena Gayo		Final version submited to EC/INEA with changes linked to publication on CORDIS (EU emblem, disclaimer).

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#### **Acknowledgements**

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# **EXECUTIVE SUMMARY**

The REFINET website dealt with in this deliverable is the final website of the REFINET coordination and support action. It will be permanently updated during the life of the action.

This document contains a description of the content of this website which is linked with the Infrastructure and Mobility Committee of the European Construction Technology Platform (ECTP).

# **1. INTRODUCTION**

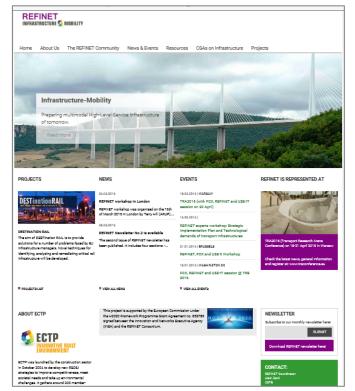
The REFINET website dealt with in this deliverable is the website of the REFINET coordination and support action. It will be permanently updated during the life of the action.

The REFINET website is linked with ECTP website through the European Platform Infrastructures and mobility Committee.

Also, interaction between three European CSAs in Transports (REFINET, FOX and USE-iT) in communication and dissemination is planned and information about those CSAs has been also included in the REFINET website.

The REFINET website was successfully made available on Internet on this date.

The following sections give a brief overview of the website.



**Figure 1** REFINET website homepage

# **2.** GENERAL DESCRIPTION OF THE HOMEPAGE OF THE WEBSITE

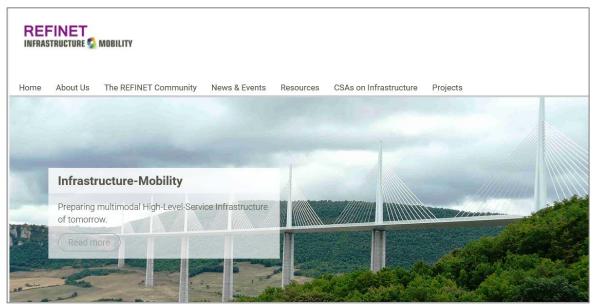


Figure 2 Main menu REFINET website

# 2.1. Menu

The menu is:

Home – About us – The REFINET community – News & Events– Resources – CSAs on infrastructures – Projects

The specificities of each component of the Menu are detailed below.

### 2.1.1. Home

It leads to the homepage of REFINET website.

# 2.1.2. About Us

The main information about REFINET CSA is summarized here. The information is organized in five chapters with next contents:

#### **INTRODUCTION**

REFINET (REthinking Future Infrastructure NETworks) is a Coordination Support Action (CSA) funded by the European Commission, started on May 1, 2015 for a 2-years duration. Its objective is to create a sustainable network integrating relevant stakeholders' representatives of all transport modes (road, railway, maritime, fluvial...) and transport infrastructure sectors in order to develop a shared European vision on how should be specified, designed, built or renovated, and maintained the multimodal European transport infrastructure network of the future (including, but not only, cross-modal aspects), in order to enhance the effectiveness of the sector, and to elaborate a Strategic Implementation Plan (SIP) that will define the innovation activities that are required to make this vision a reality.

REFINET fosters a systematic exchange of information, seeks for sharing results across Europe and delivers elements needed to create a platform for common understanding and responding to common problems in a systematic and agreed way. As such, the REFINET coordinated activities lead to increased dissemination of know-how and emerging innovation, to cross-fertilisation between communities' members and their various disciplines (transport mode operators, infrastructures managers, contractors, etc.), while at the same time provide inceptive elements to build future knowledge spaces that will cross the boundaries between organisations and communities involved in future transport infrastructures: the REFINET network gathers together various stakeholders from quite different profiles and expertise involved in increasing complex infrastructures and services (and therefore processes) – sustaining the improvement and effectiveness of the sector.

The REFINET Network is open not only to European stakeholders, but also to non-European stakeholders.

In order to maximize synergies, a close interaction between three European CSAs in Transport Infrastructure (REFINET, <u>FOX</u> and <u>USE-iT</u>) is taking place. Publications and public joint events will be hosted during the two years of the project duration.

MAIN FEATURES							
Starting date	2015-05-01						
Ending date	2017-05-01						
Total cost	EUR 998 235,51						
EU contribution	EUR 998 235,51						
Funding scheme	CSA - Coordination and support actions						
Topic(s):	MG-8.1b-2014 - Smarter design, construction and maintenance (Transport programme, H2020)						

REFINET CSA Coordinator: <u>Alain Zarli (</u>CSTB)

The REFINET consortium	
<b>CSTB</b> le futur en construction	<u>CSTB - Centre Scientifique et Technique du Bâtiment</u>
	TECNALIA – Fundación TECNALIA Research & Innovation
DAPPOLONIA	D`appolonia SpA
DRAGADOS	DRAGADOS
FEHRL	FERHL - Forum Des Laboratoires Nationaux Europeens De Recherche Routiere
uíc/	UIC UNION INTERNATIONALE DES CHEMINS DE FER
Patatorea Percelapta Percelapta Percelapta Seconda de Construcción	PTEC- Fundación Plataforma Tecnológica Española de Construccion
ARUP	Ove Arup & Partners

# OUR AIMS

As a CSA (Coordinated and Support Action), the overarching aim of the REFINET project is creating a sustainable network that integrates relevant stakeholders' representatives of all transport modes (road, railway, maritime, fluvial...) and transport infrastructure sectors in order to create a shared European vision of how should be specified, designed, built or renovated, and maintained the multimodal European transport infrastructure network of the future (including, but not only, cross-modal aspects) in order to enhance the effectiveness of the sector, and elaborating the Strategic Implementation Plan (SIP) that will define the innovation activities that are required to made this vision a reality. In order to address the different levels of development of the transport infrastructures in the European countries, REFINET will consider two complementary scenarios:

Maintenance and upgrading of already exiting transport infrastructures, Development of new transport infrastructures (multimodal infrastructure).

This CSA will contribute to create European-wide consensus on where to focus in terms of research and innovation in order to further increase the performance of multimodal transport infrastructure through improving the productivity of the assets (reducing maintenance costs, extending the life span...) and reduce drastically traffic disruptions of transport flows from inspection, construction and maintenance activities to accommodate increasing/changing traffic demand. REFINET will kickstart a long-term ambition and initiative, paving the way to enhanced technology transfer and mass-market development for innovative materials, components, systems and processes supporting the pan-European generalisation of advanced multimodal infrastructures. It will, thus, handle the demand within various industrial sectors and help match the EU Grand Challenges and the EU-2020 Strategy, and achieve goals of main stakeholders.

#### List of REFINET Objectives

*O.1 – Creating the REFINET Network; this will involve the key European and international stakeholders and infrastructures operators in multimodal transport.* 

*O.2* – Defining the REFINET Vision about the multimodal European transport infrastructure network of the future.

*O.3* – Deploying the REFINET Vision – through a well-founded SIP (Strategic Implementation Plan) providing a comprehensive set of prioritised actions and activities – as well as providing private and public decision makers a set of up-to-date recommendations and guidelines (including good practices and lessons learnt) for strategic research and required levels of cooperation between all (transport modes and infrastructures) stakeholders.

*O.4 – Communication and dissemination of the REFINET activities and achievements in order to aware the sector about the REFINET resources and SIP and create synergies with other initiatives.* 

### WHAT WE DO

*In order to achieve the project objectives, the following activities are implemented:* 

Creating and boosting the REFINET Network (Coordination activity) Defining the REFINET vision (Support activity) Supporting the deployment of the Strategic Implementation Plan (SIP) (Support activity) Communicating REFINET achievements (Coordination activity)

Overall structure of the work plan

To implement the REFINET activities, the work plan is structured in 5 Work Packages.

WP1 – MANAGEMENT is devoted to the management of the consortium. It deals with the governance structure for an effective project direction and management. This WP runs during all the life of the project, from month 1 to month 24.

WP2 – COMMUNITY NETWORK BUILDING focuses on creating the community of transport infrastructures stakeholders that will collaborate with the REFINET partners in the development of the REFINET Vision (WP3) and its SIP deployment strategy (WP4). This WP starts in month 1 and finishes in month 24.

WP3 – DEFINING VISION AND SIP focuses on elaborating the vision of the European transport infrastructure sector about how should be the multimodal European transport infrastructure network of the future and the Strategic Implementation Plan to achieve it. This WP starts in month 3 and finishes in month 15.

WP4 – DEPLOYING SIP focuses on creating the framework that will make easier the future development of the REFINET SIP that will be developed in WP3. This WP starts in month 10, once the REFINET multi-modal transport infrastructure (RMMTI) model is available, and finishes in month 24. The overlapping between WP3 and WP4 will allow taking advantage of the monitoring of R&I projects that will be done in WP4 to create the catalogue of technologies in WP3.

WP5 - COMMUNICATION AND DISSEMINATION deals with the dissemination and the exploitation of the results. An awareness campaign towards stakeholders throughout the whole supply and value chain across Europe will be launched. A dissemination plan will be defined and deployed. An exploitation plan that identifies possible actions to exploit the REFINET outcomes will be outlined. This WP runs during all the life of the project, from month 1 to month 24.

### CONTACT US

If you want to contact us, send an e-mail to alain.zarli@cstb.fr

### 2.1.3. The REFINET community

There are three sections:

Why join the REFINET Community Join the REFINET community Download the REFINET Community Directory

#### with next information:

#### WHY JOIN THE REFINET COMMUNITY

Several activities such as desk studies, surveys and workshops have been scheduled in the coming two years by REFINET and 2 other related Coordinated and Support Actions (FOX and USE-iT) to collect information and reflect together so that a tangible European vision for cross-modal transport infrastructure with specific technology characteristics can be built in two years' time.

To consolidate this work, REFINET would like to consult your expertise. We would also like to give you the opportunity to contribute to the development of this European Commission-sponsored initiative.

In this respect, we would like to invite you to sign up to be part of the Community for Cross-Modal Transport Infrastructure. This community aims to form a long-lasting group of stakeholders who have stakes or interest in cross-modal transport infrastructure issues. As a member of this network, you will foster your cooperation with relevant stakeholders in Europe and globally, and be able to contribute to the output of these three abovementioned European Commission projects, as well as follow up on their outcome beyond their lifetime. The open database, accessible by every member of the Community, will be shortly hosted by the REFINET website and be entitled the "REFINET Community".

Further information about FOX and USE-iT can be found at <u>www.useitandfoxprojects.eu</u>

#### JOIN THE REFINET COMMUNITY

If you want to join the REFINET Community, please contact Isabelle.Lucchini@fehrl.org

#### DOWNLOAD THE REFINET COMMUNITY DIRECTORY

You can download the REFINET Community Directory here

#### 2.1.4. News & events

This entry leads to the list of news and the list of events, which will have been entered into the website database as relevant to Infrastructure & Mobility / REFINET.



NEWS REFINET > NEWS & EVENTS > NEWS 27.04.2016 | Declaration at end of TRA2016 - Looking Forward to TRA2018 NEWS & EVENTS The participants in TRA2016 themed "Moving Forward - Innovative Solutions for Tomorrow's Mobility" recognise that transport research and innovation, especially when geared towards application, play a... NEWS 04.04.2016 | REFINET workshop in London EVENTS REFINET workshop was organised on the 16th of March 2016 in London by Terry Hill (ARUP). Morning session started by Terry Hill speech, who welcomed participants coming to the REFINET workshop. Organisers briefly presented the... < April - 2016 > 08.03.2016 | REFINET Newsletter No.2 is available The second issue of REFINET newsletter has been published. It includes four sections: - REFINET progress with a summary of the recent work achieved in the project. Innovation activities on transport infrastructures within. 01 02 22.02.2016 | H2020 WP 2017 Transport Calls – Brokerage Event @ TRA2016 03 04 05 06 07 08 09 Within the Framework of the Transport Research Arena (TRA) conference, the Transport NCP network ETNA2020, supported by Enterprise Europe Network, is organizing a networking and brokerage event focusing on the Horizon 2020... 11 12 13 14 15 16 10 17 18 19 20 21 22 23 19.02.2016 | Nearly €2 billion requested for H2020 transport research projects 24 25 26 28 29 30 INEA has received 383 project proposals by the 20 and 26 January deadlines for four calls in the fields of Mobility for Growth, Green Vehicles and

NET > NEWS & EVENTS > <b>EVENTS</b>		
4.2016   Warsaw	NEWS & EVENTS	
A2016 (with FOX, REFINET and USE-IT session on 20 April)		
2016 (Transport Research Arena) takes place on 18-21 April 2016 in Warsaw. The TRA is the most important European conference on tra rarch, focusing on all of the research fields of the transport system. The	nsport NEWS	>
3.2016	EVENTS	>
FINET experts workshop: Strategic Implementation Plan and Technological demands of trans rastructures	sport	
objectives of the workshop are the identification of R&D and Innovation challenges and technological priority areas for the European mult sport as well as the Identification of barriers and definition of scope,	imodal	
1.2016   Brussels		
FINET, FOX and USE-it Workshop		
vorkshop on Technology demand and transfer in cross-modal transport infrastructures is being organized by REFINET, FOX and rdination Support Actions on 21 January 2016 in Brussels, from 10:00 until 17:00. More	USE-it	

### Figure 3 News and events site

### 2.1.5. Resources

It leads to a specific page the content of which will be showing documents and links stored in the common database and relevant to the Infrastructure and Mobility / REFINET topic.

The content of this page is following:

#### **REFINET DOCUMENTS**

REFINET Leaflet REFINET Network of Stakeholders REFINET Newsletter Issue 1 REFINET Newsletter Issue 2

#### PUBLIC DELIVERABLES

D2.1 – Online Directory of Stakeholders D5.2 - REFINET Communication and Dissemination Report

#### **OTHER DOCUMENTS**

European Commission Mobility and Transport Strategic Transport Technology Plan (STTP) Transport White Paper ECTP reFINE Roadmap (May 2013) ECTP reFINE Strategic targets and Expected Impacts (October 2012)

#### LINKS

ECTP - European Construction Technology Platform ENCORD - European Network of Construction Companies for Research and Development INEA - Innovation and Networks Executive Agency TRIP - Transport Research & Innovation Portal ERTRAC - European Road Transport Research Advisory Council ERRAC - The European Rail Research Advisory Council WATERBORNE Digital Agenda of Europe. Mobility Mobility and transport Transport R&I on Europe.eu TEN-T - Connecting Europe

FOX - Forever Open infrastructure across all transport modes USE-iT - Users, safety, security and energy in transport infrastructure

### 2.1.6. CSAs on infrastructure

This includes information about the three Coordination and Support Actions (CSAs) on the topic of Infrastructure that have agreed to coordinate their activities and outputs on the period 2015-201

### 2.1.7. Projects database list

It leads to the list of Projects, which will have been entered into the common database of the ECP websites as relevant to the Infrastructure & Mobility / REFINET topic.

A first list of Projects is following:

Acronym	nym Title		
ACEM_RAIL	AUTOMATED AND COST EFFECTIVE RAILWAY INFRASTRUCTURE MAINTENANCE	FP7	
ALTERPAVE	USE OF END-OF-LIFE MATERIALS, WASTE AND ALTERNATIVE BINDERS AS USEFUL RAW MATERIALS FOR PAVEMENTS CONSTRUCTION AND REHABILITATION	INFRAVATION	
BENEFIT	BUSINESS MODELS FOR ENHANCING FUNDING AND ENABLING FINANCING OF INFRASTRUCTURE IN TRANSPORT	H2020	
BIOREPAVATION	INNOVATION IN BIO-RECYCLING OF OLD ASPHALT PAVEMENTS	INFRAVATION	
CAPACITY4RAIL	INCREASING CAPACITY 4 RAIL NETWORKS THROUGH ENHANCED INFRASTRUCTURE AND OPTIMISED OPERATIONS	FP7	
CLOSER	CONNECTING LONG AND SHORT-DISTANCE NETWORKS FOR EFFICIENT TRANSPORT	FP7	
DESTinationRAIL	DECISION SUPPORT TOOL FOR RAIL INFRASTRUCTURE MANAGERS	H2020	
ECLIPS	ENHANCING CONCRETE LIFE IN INFRASTRUCTURE THROUGH PHASE- CHANGE SYSTEMS	INFRAVATION	
ECOROADS	EFFECTIVE AND COORDINATED ROAD INFRASTRUCTURE SAFETY OPERATIONS	H2020	
FASSTBRIDGE	FAST AND EFFECTIVE - SOLUTION FOR STEEL BRIDGES LIFE- TIME EXTENSION	INFRAVATION	
Greenrail	GREENRAIL: SUSTAINABILITY, SAFETY AND SAVING IN THE RAILROAD SLEEPER OF TOMORROW		
HEALROAD	EALROAD INDUCTION HEATING ASPHALT MIXES TO INCREASE ROAD DURABILITY AND REDUCE MAINTENANCE COSTS AND DISRUPTIONS		
IN2RAIL	INNOVATIVE INTELLIGENT RAIL	H2020	
INFRALERT	LINEAR INFRASTRUCTURE EFFICIENCY IMPROVEMENT BY AUTOMATED LEARNING AND OPTIMISED PREDICTIVE MAINTENANCE TECHNIQUES		
LCE4ROADS	LIFE CYCLE ENGINEERING APPROACH TO DEVELOP A NOVEL EU- HARMONIZED SUSTAINABILITY CERTIFICATION SYSTEM FOR COST- EFFECTIVE, SAFER AND GREENER ROAD INFRASTRUCTURES	FP7	
NeTIRail-INFRA	NEEDS TAILORED INTEROPERABLE RAILWAY	H2020	
NETTUN	NEW TECHNOLOGIES FOR TUNNELLING AND UNDERGROUND WORKS	FP7	

REFINET INFRASTRUCTURE S MOBILITY 1 6

OPTIRAIL	DEVELOPMENT OF A SMART FRAMEWORK BASED ON KNOWLEDGE TO SUPPORT INFRASTRUCTURE MAINTENANCE DECISIONS IN RAILWAY CORRIDORS				
PANTURA	INTURA FLEXIBLE PROCESSES AND IMPROVED TECHNOLOGIES FOR URBAN INFRASTRUCTURE CONSTRUCTION SITES				
SEACON	SUSTAINABLE CONCRETE USING SEAWATER, SALT-CONTAMINATED AGGREGATES, AND NON-CORROSIVE REINFORCEMENT				
SEEBRIDGE	AUTOMATED COMPILATION OF SEMANTICALLY RICH BIM MODELS				
SENSKIN	'SENSING SKIN' FOR MONITORING-BASED MAINTENANCE OF THE TRANSPORT INFRASTRUCTURE (SENSKIN)	H2020			
SHAPE	PREDICTING STRENGTH CHANGES IN BRIDGES FROM FREQUENCY DATA SAFETY, HAZARD, AND POLY-HARMONIC EVALUATION				
SmaRMS COM	SMART ROAD MODULAR SENSOR (SMARMS) PROTOTYPE TESTING AND COMMERCIALIZATION VIABILITY				
SMARTRAIL	SMART MAINTENANCE AND ANALYSIS OF TRANSPORT				
SMARTSITE	OPTIMISATION, DEMONSTRATION AND IMPLEMENTATION OF AN ALL-ENCOMPASSING SMART SITE MANAGEMENT SYSTEM FOR INFRASTRUCTURE CONSTRUCTION AND MAINTENANCE				
SUREBridge	SUSTAINABLE REFURBISHMENT OF EXISTING BRIDGES				
APSE	USE OF ECO-FRIENDLY MATERIALS FOR A NEW CONCEPT OF ASPHALT PAVEMENTS FOR A SUSTAINABLE ENVIRONMENT				
RAIN	N RISK ANALYSIS OF INFRASTRUCTURE NETWORKS IN RESPONSE TO EXTREME WEATHER				
INFRARISK	IFRARISK NOVEL INDICATORS FOR IDENTIFYING CRITICAL INFRASTRUCTURE AT RISK FROM NATURAL HAZARDS				
ROBO-SPECT	OBO-SPECT ROBOTIC SYSTEM WITH INTELLIGENT VISION AND CONTROL FOR TUNNEL STRUCTURAL INSPECTION AND EVALUATION				
LIFESURE	SELFSUSTAINING URBAN ROADS: A WAY TO IMPROVE ENVIRONMENTAL PERFORMANCE OF URBAN AREAS				
NEW JERSEY	NEW GENERATION OF NEW-JERSEY SAFE-BARRIERS USING RECYCLED MATERIALS AND RUBBER FORM END-OF-LIFE TYRES				
LIFE HUELLAS	LCA, ENVIRONMENTAL FOOTPRINTS AND INTELLIGENT ANALYSIS FOR THE RAIL INFRASTRUCTURE CONSTRUCTION SECTOR				
LIFE- SOUNDLESS	SOUNDLESS NEW GENERATION OF ECO-FRIENDLY ASPHALTS WITH RECYCLED MATERIALS AND HIGH DURABILITY AND ACOUSTIC PERFORMANCE				

LIFE Solar Highways	SOLAR PANELS AS INTEGRATED CONSTRUCTIVE ELEMENTS IN HIGHWAY NOISE BARRIERS		
LIFE-PHOTOSCALING	SUSTAINABILITY OF PHOTOCATALYTIC TECHNOLOGIES ON URBAN PAVEMENTS: FROM LABORATORY TESTS TO IN FIELD COMPLIANCE CRITERIA	life	
LIFE SustainEuroRoad	DEMONSTRATION OF AN ICT SYSTEM TO OPTIMIZE THE ROAD CONSTRUCTION WORKS AND REDUCE THEIR ENVIRONMENTAL IMPACT	life	
LIFE EQUINOX	SURFACE TREATMENT FOR ASPHALT PAVEMENTS TO NITROGEN OXIDES REMOVAL IN URBAN ENVIRONMENTS	life	
Life+ LE2AP	LOW EMISSION ASPHALT PAVEMENT	life	
ROADTIRE	INTEGRATION OF END-OF-LIFE TIRES IN THE LIFE CYCLE OF ROAD CONSTRUCTION	life	

Table 1 Projects database included in REFINET website

By clicking in each title, information about the project is available

HORIZON 2020	BENEFIT BUSINESS ENHANCING ENABLING INFRASTRUCT http://www.benef	MODELS FUNDING FINANCING URE IN TRANS fit4transport.eu/	FOR AND OF PORT	Start date: 01.12.20 Duration: 21 months Coordinator: AIGAIOU, Greece		Budget: 1.67 M€	
Details							
BBNBFIT takes an innovative approach by analysing funding schemes within an inter-related system. Funding schemes are successful (or not) depending on the Business Model is affected by the implementation context and the transport model. It is matched successfully (or not) by a financing scheme. Relations between actors are described by a governance model (contracting arrangements). These are key elements in Transport Infrastructure Provision, Operation and Malterance. Success is a measure of the appropriate matching of elements. Within BBNBFIT funding and financing schemes are analysed in this respect. Describing these key elements through their characteristics and attributes and clustering each of them is the basis of, first, developing a genric framework. This allows for the transferability of findings with respect to 'tessons' learned', 'limitations' and 'the impact of the financial and economic crists''. Isentifying best matches in their inter- relations and where to intervene, leads to move from a generic framework to a power down of the down on both construction with an expect and the envelocity of the down on a power down on the down of the financial and economic crists''. Isentifying best matches in their inter- relations and where to intervene, leads to move them a generic framework to a power down on both constructions with an art pricing and funding in view of 2000 challenges and needs. The BBNBFIT partnership bases stock over twentry years of BC funde, national and international research. It receives direct input (evidence study cases) from the CMBBA Centre and CDST Action TUDOL. It is set-up to share the sine and exchange in the view approach. It is achieve to share its innovative approach, harmely: 1)Thronsport Infrastructure business models and their project rating by which further value propositions may be included to lead to funding schemes with enhanced creditworthiness enabling viable financing 2)Thransport Infrastructure business models and their project rating by which further value prop							
List of achievements							
Lessons learnt							
Contact							
Contact person: Dr. Athena R Address: University of the Ad Tel: email: benefit@aegean.gr		ipping, Trade and '	Transpor	π			
GO BACK							

Figure 4 Example of project information included in project section



# **3. MAIN BOXES OF THE HOMEPAGE**

Figure 5 Main boxes of the REFINET homepage

# 3.1. PROJECTS

One of the Projects is exhibited here.

### 3.2. NEWS

Two News are exhibited here.

### **3.3. EVENTS**

Four Events are exhibited here.

#### 3.4. About ECTP

The same info as for the ECTP Umbrella website is exhibited here.

### **3.5. REFINET NEWSLETTER**

The last issue of the REFINET Newsletter is downloadable from a button, with the possibility to subscribe to the **REFINET Newsletter.** 

8

# 4. CONCLUSIONS

This document has presented the content of the initial version of the REFINET website, which will be regularly updated along the project

The REFINET website has a close connection with ECTP website through the Infrastructures & Mobility Committee of the European Platform

REFINET has an active collaboration with FOX and USE IT CSAs in communication and dissemination and information about those projects has been included in the website