



## MAINLINE

MAINTenance, renewal and Improvement of rail transport iNfrastructure  
to reduce Economic and environmental impacts

Collaborative project (Small or medium-scale focused research project)

Theme SST.2011.5.2-6.: Cost-effective improvement of rail transport infrastructure

### Deliverable 6.2: Set up of a dissemination platform for MAINLINE

Grant Agreement number: 285121

SST.2011.5.2-6.

Start date of project: 1 October 2011

Duration: 36 months

Lead beneficiary of this deliverable: ARTTIC

Participant short name: ARTTIC

Due date of deliverable: 31/12/2011

Actual submission date: 31/01/2012

Resubmission date: 20/06/2013

Release: Final Version updated at mid-term of the project including comments from the review

Project co-funded by the European Commission within the 7th Framework Programme		
Dissemination Level		
<b>PU</b>	Public	X
<b>PP</b>	Restricted to other programme participants (including the Commission Services)	
<b>RE</b>	Restricted to a group specified by the consortium (including the Commission Services)	
<b>CO</b>	Confidential, only for members of the consortium (including the Commission Services)	

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## Glossary

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<b>Abbreviation / acronym</b>	<b>Description</b>
CEN	European Committee for Standardisation
CER	The Community of European Railways
CIRP	Collège International pour la Recherche en Productique – the International Academy for Production Engineering
CRR	Centre for Risk Analysis and Risk Management at LTU
EC	European Commission
EFRTC	European Federation of Railway Trackworks Contractors
EIM	European Rail Infrastructure Managers
ERA	European Railway Agency
ETC	European Transport Conference
EU	European Union
IABMAS	International Conference on Bridge Maintenance, Safety and Management
IALCCE	International Symposium on Life-Cycle Civil engineering
JRC	Joint Rail Conference
JVTC	Luleå Railway Research Centre at LTU
LCA	Life Cycle Analysis
LTU	Luleå Tekniska Universitet (Luleå University of Technology)
PoSE	UIC Panel of Structural Experts
SISE	Swedish Institute of Structural Engineers, a part of the cooperation within the Swedish University of Building Technology
TEG	UIC Track Expert Group
TRA	Transport Research Arena
UNIFE	The Association of the European Rail Industry
UIC	Union International des Chemins de Fer (International Railways Union)

# 1. Executive summary

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MAINLINE's Work Package 6 (WP6) covers the dissemination, training and exploitation activities of the project. They will be coordinated by UIC with logistics supports from ARTTIC. A total of 9 partners will contribute to these work-package activities. All dissemination will be subject to approval by partners to ensure that confidential information is protected (see section 2 for more details).

D6.2 is the second deliverable of WP6. A first version was submitted on 31/01/2012 at the start of the project. This second version corresponds to an update of June 2013, which was planned for the mid-term of the project, and followed the recommendations from the review meeting with the Project Officer on 10 June.

Dissemination will be a driven process. Workshops and training will be implemented and standardisation bodies will be targeted through groups existing under the UIC umbrella such as TEG (Track Expert Group) and PoSE (Panel of Structural Experts). Some deliverables will be transformed into practical guidelines.

Dissemination intends to ensure effective communication at all levels by providing appropriately targeted information to all identified audiences, and to ensure liaison with stakeholders. Aims include visibility of the obtained results and the availability of relevant information for take-up, as well as knowledge exchange with the scientific community for cross-seeding. The dissemination objectives of the MAINLINE project are clearly defined in section 3 and will be focussed as follows: 2/3rds for implementation of results through established groups, 1/3rd for information towards the general public.

The target groups are well defined, and they include the general public, rail sector stakeholders, the scientific community, standardisation bodies and the EC FP7 RTD community.

The approach to be used to target each of the above groups is clearly defined (see section 3). It includes:

1. Exchange and follow-up with stakeholders/experts/infrastructure managers etc. in order to gain support and ensure future implementation of MAINLINE project results. This will include interaction with EIM (European Rail Infrastructure Managers) and CER (The Community of European Railway and Infrastructure Companies) as well as UIC groups TEG and PoSE as mentioned above.
2. Broadcasting information about the project towards the public at large.
3. Feed information into CEN, especially their work on assessment of existing structures as a part of revised Euro Codes. This will be done through TEG and PoSE since they have established cooperation with CEN.

For each of the partners active within the dissemination WP, the roles are clearly defined with respect to their field of competence (see section 4).

An overview of the budget for both personnel costs and any additional costs is described in section 5. The project plans to produce booklets as practical guidelines as the needs become clearer.

Dissemination actions will be followed up using a tool developed by the project office, which uses a format similar to the EU SESAM tool (see section 6.1).

MAINLINE planned to have 22 out of the 32 deliverables foreseen in the project as public in order to reach the level of visibility desired. Four more deliverables have become public in Period 1. Furthermore, chosen deliverables will be transposed into practical guidelines in order to provide an adequate push of the findings of the project through their practical applications in the field (section 6.3). A couple of planned deliverables allow for the identification of those results from the project which should be turned into practical guidelines.

Workshops, conferences and scientific papers are already foreseen and a first overview of the planned events and their periodicity is presented in section 6.4.1. Also, participation within the Transport Research Area event in Athens in April 2012 was foreseen and performed, following the application submitted by UCD (University College Dublin), the coordinating partner of an associated project called SMARTRAIL. Both projects have presented information in the Athens event (see section 6.4.2).

Concerning workshops, the project will organise two general public project workshops. The first one was planned and held for the midterm of the project while the second one is planned towards the end. Additionally, a specific workshop targeting an audience from Eastern Europe and beyond will also be organised in the second half of the project. See more details of the plans in section 6.4.3.

Plans for the public website, leaflets, flyers and posters are included in table format in section 6.5. These plans include periodicity and the expected output for each particular dissemination media.

As a conclusion, WP6 objectives are therefore to ensure that the technical and scientific objectives of MAINLINE have a real impact in the railway world. Explicit plans are therefore needed, translated into a series of specific actions tied up into a common and coherent view, which is the main purpose of this deliverable D6.2.

## 2. Introduction

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The MAINLINE dissemination and communication activities (WP6) will be coordinated by the Project Coordinator UIC, with logistics support from ARTTIC. All partners will contribute to the dissemination activities but nine partners out of the 19 which constitute the consortium of the project will be more deeply involved in disseminating the project knowledge by:

- preparing dissemination material,
- implementing dissemination activities and,
- representing the MAINLINE project at scientific events.

INITIALLY the focus will be on disseminating information on the project goals, the programme, the expected results and participants.

INCREASINGLY there will be the need for presentation, discussion and evaluation on selected draft results of the project.

This will LEAD TO the promotion of final results of the project including validation.

All dissemination will be subject to approval by partners to ensure that confidential information is protected. Within the industry partner companies, programmes of technical seminars and training sessions will be held to disseminate the project results among the internal specialist communities and to personnel out in the field. The university partners will be invited to participate and support in this.

Some selected partners representing universities, infrastructure managers and industry have a special commitment to participate in workshops/training courses:

Part n°	Short Name	Country
1	UIC	FR
2	NR	UK
3	COWI	DK
5	UMinho	PT
8	LTU	SE
10	MAV	HU
12	TUGraz	AT
18	ARTTIC	FR
20	SKM	UK

**The dissemination of MAINLINE will be a driven process.** The result will be presented to established international working groups throughout and after the project. At suitable times the project will be presented through workshops and training. By working with established groups like TEG and PoSE MAINLINE will also reach standardisation bodies.

In order to support this high ambition several deliverables will be made as guidelines.

Additionally, the project results will also be broadcasted towards the general public in order to build-up acceptance about possible changes introduced by the project.

The efforts in dissemination will be dedicated in the following way:

- 1) 2/3 to facilitate implementation of project results through established groups, workshops and trainings;
- 2) 1/3 to announce and prepare for possible changes by targeting the general public through broadcasting.

The following chapters describe the different activities and tools that the MAINLINE partners plan to create in order to reach out to the different target groups. Updates to the communication plan and the budget allocations might well be required as the project progresses.

**Note:**

All publications and dissemination material produced by MAINLINE (constituting the foreground to the project) will include the following statement to indicate that it was generated with the assistance of financial support from the Community:

*“The research leading to these results has received funding from the European Community’s Seventh Framework Programme [FP7/2007-2013] under grant agreement n° 285121.”*

## 3. Dissemination objective and targets

### 3.1 Objective

The objectives of the MAINLINE dissemination and communication strategy are to:

- implement the dissemination plan by ensuring effective communication at all levels and by providing appropriately targeted information to all identified audiences;
- ensure liaison with stakeholders;
- ensure visibility of the results obtained and make available information relevant for further application;
- exchange the knowledge with the scientific community in order to obtain new insights to be integrated into the project research;
- foster synergies and complementarities with other relevant EC, national and international programmes and projects;
- ensure that rail sector stakeholders and the general public appreciate the added value of EC support and how it contributes to a cost effective, well maintained rail infrastructure.

### 3.2 Target groups

#### 3.2.1 Overview

An overview of the target groups identified for dissemination of the project results is given in the table below. The table also shows the specific dissemination channels that MAINLINE will use to address the different envisaged target groups. Two approaches are used in order to reach the different target groups:

- 1) Exchange and follow-up with stakeholders/experts/infrastructure managers etc. in order to gain support and ensure future implementation of MAINLINE project results.
- 2) Broadcasting information about the project towards a large public.

Target / Main objective	Dissemination channels
<i>The public</i>	
To inform the public about the benefits of MAINLINE results on transport and added value of EC support and the need for such programmes and projects.	<ul style="list-style-type: none"> <li>• Public website (<a href="http://mainline-project.eu/">http://mainline-project.eu/</a>),</li> <li>• Liaison with mass media, such as articles and press releases in journals available to the public, including electronic media. Target at least 4 press releases</li> </ul>
<i>Rail sector stakeholders (engineering, potential purchasers/users, managers)</i>	
Inform stakeholders about the targeted project results and their important socio-economic impact.	<ul style="list-style-type: none"> <li>• Participation in industrial fairs and conferences. Some major events have been identified by the partners: <ul style="list-style-type: none"> <li>○ International Conference on Bridge Maintenance, Safety and Management (IABMAS), Italy 2012 and Shanghai, 2014 - European Transport Conference (ETC), Scotland - Joint Rail Conference (JRC), US - Railway Engineering Conference (UK – annually) - Transport Research Arena, TRA 2012, Athens, Greece, April 23-26 2012 – 3<sup>rd</sup> Annual Bridges Asia Conference on sustainable Design, Construction and Maintenance, Hong Kong, February 28-29 2012.</li> <li>○ The partners will also take part in several conferences on metallic and concrete structures as well as conferences on monitoring, degradation models and whole life modelling.</li> </ul> </li> </ul>

Target / Main objective	Dissemination channels
	<ul style="list-style-type: none"> <li>• Produce articles in rail sector journals, e.g. Rail Technology Magazine, European Railway Review, Railway Gazette International, Modern Railways etc. and other journals as well as ICE and IStructE and IABSE Journals.</li> <li>• Invitation of stakeholders to the MAINLINE project public workshops. Target 2 workshops within the 3 year period.</li> <li>• Use of existing partner contacts, e.g. add MAINLINE to the agenda of existing UIC specialist group meetings.</li> <li>• Meet with key asset owners and see how the new technologies and systems developed in MAINLINE could be trialled or implemented on their infrastructure: Presentations to and discussions with stakeholder groups such as TEG and PoSE. Other organisations like EIM and CER will be informed. Standardisation bodies like CEN will be informed through TEG and PoSE.</li> </ul>
<i>The scientific and broader environmental community including national and European agencies</i>	
To inform about the project objectives, research areas and results.	<ul style="list-style-type: none"> <li>• Public website, project flyers, posters and "standard" PPT presentation presenting the project to be made widely available to relevant departments.</li> <li>• Papers/ conference papers in scientific journals with asset management and sustainable development focus (e. g. J. Environmental Management, J. Infrastructure Systems, Structure &amp; Infrastructure Eng.)</li> <li>• Present key findings in international conferences aimed at Life Cycle Engineering and Asset Management e.g. - Int. Conf. on Bridge Maintenance, Safety and Management, CIRP Conf. on Life-Cycle Eng., IALCCE etc.</li> <li>• Send relevant information to standards setting bodies for inclusion in design guides and standards as appropriate.</li> </ul>
<i>The FP7 SST programme and other projects involved in the programme</i>	
To exchange knowledge for use in MAINLINE and communicate results for greater effectiveness of EC R&D.	<ul style="list-style-type: none"> <li>• Invite to MAINLINE workshops.</li> <li>• Networking with experts and research initiatives working in related domains.</li> </ul>
<i>Standards setting bodies</i>	
To ensure that MAINLINE outputs such as guidelines are taken into account by standards-setting bodies.	<ul style="list-style-type: none"> <li>• Use TEG's and PoSE's already established contacts with CEN</li> <li>• Give direct input to CEN work on assessment of existing structures as a part of their work to revise the Euro Codes.</li> <li>• If suitable make leaflets of MAINLINE deliverables</li> </ul>

**Figure 1 Overview of target audience and related dissemination channels**

## 3.2.2 Specific audiences

### 3.2.2.1 Audiences within the railways

In the railways two target audiences can be identified:

- First there is the top management (both business and technical) who will be reached with high-level summary material produced at the end of the project.
- The second and most important audience is the managers (including high level engineers), who make decisions about what to use on the railway. This audience is the main target for MAINLINE, as they are the ones that need to be persuaded to utilise the outputs from MAINLINE.

### 3.2.2.2 UIC Track Expert Group (TEG) and Panel of Structural Experts (PoSE)

The objective is to inform the UIC experts about targeted project results to both receive their recommendations and push the implementation of the project results. These expert groups meet at least twice a year and MAINLINE representatives (UIC and MAV) will participate and launch an ongoing exchange with these experts in order to feed the project.

### 3.2.2.3 Consortium partners from the industry

Within the industry partner companies, programmes of technical seminars and training sessions will be held to disseminate the project results among the internal specialist communities and train personnel. The university partners will be invited to participate fully in this.

### 3.2.2.4 Related organisations

MAINLINE will also target the following related organisations:

- UIC will cooperate with UNIFE;
- ERA will be informed of results;
- EFRTC: Partner COMSA came through EFRTC to the consortium, and will be the link to EFRTC;
- Asset management through existing channels at UIC, CER and EIM.

### 3.2.2.5 Eastern Europe and beyond

The MAINLINE consortium was carefully selected to include MAV (the Hungarian railway) and TCCD (the Turkish railway) as active members in this project. They will bring not only their own expertise but also a view from the eastern part of Europe and will be well placed to promote dissemination and exploitation of the MAINLINE results in Eastern Europe and beyond. MAINLINE can benefit greatly from their contacts. For example, MAV have very good operational and research activities connected to the Russian Federation, Eastern European and Central Asian areas. Their solutions and strategies are very interesting and valuable for new research activities in the field of maintenance. On the one hand the project will benefit from this knowledge and on the other hand dissemination of project results will be very much easier having partners of known expertise to spread this knowledge and information through existing working groups.

Additionally, a dedicated workshop targeting Eastern Europe, Russia and Central Asia will be organized in Hungary, most likely in the second project period. This will allow to use key project deliverables for this workshop and to possibly translate them into Russian.<sup>1</sup>

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<sup>1</sup> The additional UIC budget as referred to in section 5.2 below could be used for that matter. Alternatively, the project could also benefit from additional funds from UIC.

## 4. Role of the partners

Part n°	Short Name	Country	Fields of competences brought to MAINLINE	Role regarding dissemination actions throughout the project
1	UIC	FR	Worldwide organisation for cooperation among railway companies, with an inherent role of preparing standards, regulations and recommendations. Provides numerous publications for the railways world.	UIC will be the central hub for the publication of results, and the facilitator of general information conveyance regarding the results of MAINLINE, either through their publications, or through specific events either it organises or attends.
2	NR	UK	NR is the UK's national rail infrastructure owner and operator. The NR participants in MAINLINE will bring specialist expertise in bridges, tunnels, earthworks and track. NR will also provide access to degradation data and management tools as necessary.	<ul style="list-style-type: none"> <li>• Lead the MAINLINE input to the joint MAINLINE/ SMARTRAIL session at TRA 2012, Athens.</li> <li>• Work with SKM (formerly Mouchel Rail) and Surrey University to produce papers for UK domestic conferences.</li> <li>• Arrange internal briefing/training sessions as appropriate.</li> <li>• Disseminate outputs to other European and UK domestic projects.</li> </ul>
3	COWI	DK	COWI is a leading firm of consulting engineers that has a vast experience in operation, management and maintenance of all types of transportation infrastructure elements.	COWI will facilitate dissemination of deliverables where it is task leader (D.2.1, D.5.4 and D.6.4) through e.g. publications, training, workshops and conferences. Furthermore, COWI will support dissemination in all tasks where it is an active partner.
5	UMinho	PT	UMINHO offers its expertise and assistance in developing and calibrating numerical models within the field of whole life environmental and economic asset management. Continuous support during the lifetime of the project will be given.	UMINHO will support dissemination in all tasks where it is an active partner.
8	LTU	SE	LTU with SISE and JVTC and CRR has a long time background and expertise in research on railway infrastructure with skills in assessment, modelling, strengthening, monitoring and LCA.	LTU will as S&T coordinator and leader of WP1 actively engage in the dissemination of the results of the project.
10	MAV	HU	MAV offers its expertise and assistance both in carrying out field tests for case studies and also in reviewing, disseminating and implementing the results of the project.	MAV will provide support to establish contact with Eastern European railway administrations that are not participating in the project, and help organize dissemination of the results of the

Part n°	Short Name	Country	Fields of competences brought to MAINLINE	Role regarding dissemination actions throughout the project
				project towards these organisations, either through printed or electronic material or through presentations given at workshops or specific events organised for this purpose. MAV representative in MAINLINE is also member of the UIC Panel of Structural Sxperts and will actively promote MAINLINE results through this channel.
12	TUGraz	AT	TUGraz is specialised in life cycle management for track and turnouts. In cooperation with railway infrastructure entities a LCC methodology was set up.	TUGraz will contribute to the deliverables of work packages 2 (tasks 2.1, 2.2, 2.3, 2.4, 2.5), 3 (task 3.3), 5 (task 5.5), and 6 (tasks 6.1, 6.2). TUGraz will contribute mainly in offering its expertise.
18	ARTTIC	FR	ARTTIC is specialised in the provision of advice and practical assistance in all aspects of international R&D collaborations. Services helping to successfully disseminate and exploit project results.	ARTTIC will provide support for coordination of information dissemination and event management, including logistics for workshops, seminars, public websites and preparation of dissemination material, etc.
20	SKM	UK	SKM is a leading projects firm, with global capability in strategic consulting, engineering and project delivery. It operates in three regions: Asia Pacific, the Americas and EMEA (Europe, Middle East & Africa), deploying more than 7,000 people while serving the road, rail, aviation, mining and maritime sectors. SKM acquired Mouchel, who was one of the leading consulting engineering firms in the world with extensive expertise and experience in the UK of multi-disciplinary design and strategic and operational asset management of rail and highway infrastructure.	<ul style="list-style-type: none"> <li>• Contribute to / Author of journal and conference Papers</li> <li>• Attend conferences in UK and overseas to present papers</li> <li>• Develop output LCAT tool and promote with UK , EU and worldwide rail infrastructure owners</li> <li>• Review output LCAT with other parts of global SKM for applications in Water / Waste / Mining / Power</li> <li>• Disseminate results of MAINLINE with existing and new clients and seek opportunities to trial and implement the outputs from real assets.</li> <li>• SKM will also support dissemination in all tasks where it is an active partner.</li> </ul>

## 5. Budget overview per partner and per dissemination actions

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### 5.1 Overview of partner effort

Part n°	Short Name	Country	PM
1	UIC	FR	9.00
2	NR	UK	1.00
3	COWI	DK	2.00
5	UMinho	PT	1.00
8	LTU	SE	1.00
10	MAV	HU	1.00
12	TUGraz	AT	1.00
18	ARTTIC	FR	4.00
20	SKM	UK	2.00
<b>Total</b>			22.00

Note: Partners contributing to the dissemination activities also have a dedicated travel budget in order to participate in the training seminars that will be organised within the project.

### 5.2 Additional budget

Partner	Type of action	Description	Budget
UIC	Production of a book and booklets	Similar to the approach in INNOTRACK, one central dissemination tool will be the production of a book presenting MAINLINE's project results at project end. The production of informational booklets is also planned.	20 000€
UIC	Project Training Workshops	Logistics and organization of the project training workshops	42 000€



update: 14/12/2011

### LIST OF APPLICATIONS FOR PATENTS

Please list hereafter if any knowledge resulting from the project has been subject IPR protection measures.

The applications for patents, trademarks, registered designs, etc. shall be listed according to the template provided hereafter.

The list should, specify at least one unique identifier e.g. European Patent application reference. For patent applications, only if applicable, contributions to standards should be specified.

List of applications for patents, trademarks, registered designs, etc.					
Type of Exploitable Foreground	Confidential	Foreseen embargo date	Application reference(s) (e.g. EP123456)	Subject or title of application	Applicant (s) (as on the application)
		dd/mm/yyyy			
-select-	-select-				
-select-					

Figure 4: Follow-up of patents

### LIST OF EXPLOITABLE FOREGROUND

Please list hereafter if any knowledge resulting from the project has been subject to IPR protection measures.

The applications for patents, trademarks, registered designs, etc. shall be listed according to the template provided hereafter.

The list should, specify at least one unique identifier e.g. European Patent application reference. For patent applications, only if applicable, contributions to standards should be specified.

Type of Exploitation Foreground	Description of exploitation foreground	Confidential	Foreseen embargo date dd/mm/yyyy	Exploitation products or measures	Sector of application	Timetable, commercial or any other use	Patents or other IPR exploitation (licences)	Owner & Other Beneficiary (s) involved
Select		Select			Select			
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Figure 5: Follow-up of exploitation of foreground

## 6.2 Public deliverables

MAINLINE has a total of 32 deliverables. Currently 26 of them are public deliverables. This will allow a broad dissemination of project results.

## 6.3 Guidelines for infrastructure managers

One of the major outcomes of the project will consist in guidelines for practical application of the project results.

Two deliverables will be dedicated to the elaboration of these guidelines:

- 1) D8.2 First analysis and identification of potential guidelines issuing MAINLINE R&D (leader UIC, delivered in M21)
- 2) D8.4 Second analysis and identification of potential guidelines issuing MAINLINE R&D (leader UIC, due in M27).

Additionally, two Milestones will ensure the proper elaboration of the guidelines:

- 1) As part of the dissemination plan: MS10 Dissemination strategy, deliverables to become guidelines (leader UIC, due in M24)
- 2) In order to make sure that the guideline is completed and the data quality validated: MS14 Guidelines on life extension and renewal options complete (leader LTU, due in M36).

Now the MAINLINE Consortium has decided to produce at least three guidelines. The number can increase. In any case, the guidelines will be made publicly available.

Also, if sufficient resources are available, the guidelines can be translated into Russian in order to target Eastern Europe, Russia and Central Asia. In any case, the deliverables listed above will provide a good basis for the workshop planned throughout the project (workshop targeting Eastern Europe and beyond, and the main workshops planned at project midterm and towards project end – see section 6.4.3).

## 6.4 Workshop, conferences, scientific papers

Here the objectives are to:

- Present key findings in international conferences aimed at Life Cycle Engineering and Asset Management e.g. - Int. Conf. on Bridge Maintenance, Safety and Management, CIRP Conf. on Life-Cycle Eng., etc.
- Produce papers/ conference papers in scientific journals with asset management and sustainable development focus (e. g. J. Environmental Management, J. Infrastructure Systems, Structure & Infrastructure Eng.)
- Invite stakeholders, related projects etc. to MAINLINE workshops.
- Network with experts and research initiatives working in related domains.

### 6.4.1 General overview

Type of action	Expected output	Periodicity	Leading partner	Other involved partners
MAINLINE Workshop 1	See section 6.4.3	Close to the middle of the project (M20)	UIC	WP leaders with support from task leaders
MAINLINE Workshop 2	See section 6.4.3	Close to the end of the project	UIC	WP leaders with support from task leaders
MAINLINE Special Session at TRA 2012	Inform about MAINLINE, reach out to stakeholders, research institutions and infrastructure managers (see also subsection below).	April 2012 & possibly April 2014	NR	UIC / LTU
MAINLINE Special Session at IABMAS	This will be done in Shanghai	2014	UIC	WP leaders with support from task leaders
MAINLINE Special Session at IALCCE	Inform about MAINLINE, reach out to stakeholders, research institutions and infrastructure managers.	(2012), 2014	UIC	WP leaders with support from task leaders
Produce papers for Structural Faults & Repair on WP1, 3 and 4	Paper published and presentation to SFAR	once	SKM	Surrey / LTU / NR

Type of action	Expected output	Periodicity	Leading partner	Other involved partners
NR / CECOST / MAINLINE Workshop	Education of Network Rail	3 issues	SKM	Surrey / NR
LU / MAINLINE Workshop	Education of London Underground	once	SKM	N/A
Attend Bridges conference in Hong Kong in Feb 2012, as key panel member discussing new design, monitoring and maintenance strategies for bridges, including use of new materials.	Dissemination of initial outputs of MAINLINE to key asset owners, consultants, contractors and other stakeholders	once	SKM	N/A
Produce Journal Papers in ICE and IStructE and other Asset Management Journals	Papers	4 issues	SKM	NR / Surrey / TWI
Organize a Mini-symposium at the 7th International Conference on Bridge Maintenance, Safety and Management, in Shanghai, 2014.	Papers	once	UMINHO	WP leaders with support from task leaders
Presentation of MAINLINE results at ÖVG conference in Salzburg	Dissemination of MAINLINE results to the international track expert community	once, 2015	UIC	TUGraz
Produce a paper for zev rail showing the results	Paper published	once, close to the end of the project	TUGraz	N/A

## 6.4.2 Participation in TRA 2012

During negotiations following the submission of the MAINLINE proposal, the consortium was asked to work closely with the SMARTRAIL consortium led by University College Dublin (UCD) to ensure that no unnecessary duplication took place if both projects were successful in obtaining funding. As part of this cooperation both projects were asked to submit a combined application for a special session at the Transport Research Arena (TRA) conference held in Athens in April 2012.

UCD took the lead in submitting the application, reproduced below, which was accepted by the TRA programme committee in September 2011.

*“In June 2010 the EC launched the 2011 competition for FP7 funding which included the following item - SST.2011.5.2-6. “Cost-effective improvement of rail transport infrastructure”. The proposed scope of work encompassed the following:*

- *Application of new technologies to extend the life of elderly infrastructure.*
- *Rail transport infrastructure, improve existing degradation and structural models to develop realistic life cycle cost and safety models that demonstrate safe service life and can be used to plan improvement programmes.*
- *Investigate new construction methods and logistics for transport that minimize the time and cost required for the replacement of obsolete infrastructure.*
- *Investigate the use and cost effectiveness (planning, replacement programmes etc) from application of advanced monitoring techniques to complement or replace existing examination techniques for elderly rail infrastructure.*
- *Develop a tool that works with existing widely utilized asset management tools to assess whole life environmental and economic impact from track and infrastructure maintenance and renewal.*

*Two projects, MAINLINE (focussing principally on metallic bridges and switches and crossings) and SMART Rail (focussing principally on earthworks and scour), submitted in response to this call, are currently under detailed negotiation with the EC, with a view to commencing work in autumn 2011. As part of the negotiation process the EC Project Officer has specifically requested that a joint dissemination event should be held at TRA 2012 and it is proposed that this should take the form of a special session.*

*Presentations during the special session will be made by a small number of key individuals from each project, who will describe the background to each proposal, where the projects’ aims agree and differ, the planned methods of co-operation between both projects and the expected final results. In addition, the results of the initial data gathering will be presented, with the intention of stimulating discussion amongst TRA participants about the work plans and details of any additional data that should be considered.”*

The special session, under the title “Cost effective improvement of rail transport infrastructure”, has been allocated a 75-minute slot during the conference and it presented two papers from each project. The MAINLINE papers were presented by the coordinator, Björn Paulsson from UIC (providing an introduction to the MAINLINE project) and Brian Bell from Network Rail (dealing with the use of advanced composites for the repair and strengthening of rail bridges). The scientific leader, Lennart Elfgrén from Lulea Technical University, assisted the preparation of both papers.

## 6.4.3 The workshops

MAINLINE will organise two general public project workshops. The first one was planned for the midterm of the project while the second one towards the end. Additionally, a specific workshop targeting an audience from Eastern Europe and beyond will also be organised in the second half of the project.

#### 6.4.3.1 First general public workshop (around M18)

- Audience: The audience was targeted through the UIC channels. UIC members were encouraged to spread the news within their networks in order to reach additional interested stakeholders. The workshop was held together with the SMARTRAIL project.
- Size of audience: it was expected to have 50 to 70 participants, 56 persons attended.
- Location: The workshop was held at UIC in Paris, a place easily reachable from all over Europe.
- Timeframe: the workshop lasted 2 half days.
- Budget:
  - UIC has 42 000€ allocated for the organisation of workshops that were partly used for this purpose.
  - **All** MAINLINE partners were asked to participate in the workshop and have travel budget planned for that matter.

#### 6.4.3.2 Second general public workshop (around M36)

- Audience: The audience will be targeted through the UIC channels. UIC members will be encouraged to spread the news within their networks in order to reach additional interested stakeholders.
- Size of audience: it is expected to have 50 to 70 participants, 100 if it is organised together with SMARTRAIL.
- Location: The workshop will be held in a place easily reachable from all over Europe, probably Paris.
- Timeframe: the workshop should last 2 days.
- Budget:
  - UIC has 42 000€ allocated for the organisation of workshops that will be used for this purpose.
  - **All** MAINLINE partners will be asked to participate in these workshops and have travel budget planned for that matter.

#### 6.4.3.3 Specific workshop for Eastern Europe and beyond (around M30)

- Audience: The audience will be targeted through the UIC and MAV channels.
- Size of audience: it is expected to have 20 to 30 participants.
- Location: The workshop will be held in Budapest, Hungary.
- Timeframe: the workshop should last 2 days.
- Translation: in order to best reach out to this specific audience, key deliverables – providing support for this workshop – will be translated into Russian. Additionally, simultaneous translation (English/Russian) will be provided during the workshop.
- Budget:
  - UIC has 42 000€ allocated for the organisation of workshops that will be used for this purpose. UIC might receive extra budget from its members for organising this workshop.
  - **All** MAINLINE partners will be asked to participate in this workshop and have travel budget planned for that matter.

## 6.5 Leaflets and flyers

Here the objectives are to:

- Launch and maintain the public website,
- Develop a project flyer, poster and "standard" PPT presentation presenting the project to be made widely available to relevant departments.

Type of action	Expected output	Periodicity	Leading partner	Other involved partners
Launch and maintain the public website	Make project results available to the broader public.	Public website launched since M1. Update at least every 6 months and as often as needed. Updates will increasingly occur as project results are produced and dissemination events organised. As soon as a public deliverable is submitted to the EC it is available on the website. Please refer to D6.1.	UIC	ART
Develop a project flyer/s	Inform the scientific community, railway owners and managers. E.g. to be distributed at international conferences and made visible and available within the partner organisations	A first version was produced in M16 in order to present the project. Possible updates after Year 2 and towards project end.	UIC/ART	Input from the whole consortium in order to ensure adherence from all partners. Flyer will be made available to all partners in order to ensure broad distribution.
Develop a project poster/s	Inform the scientific community, railway owners and managers. E.g. to be distributed at international conferences and made visible and available within the partner organisations	A roll-up banner was produced in M20 for the first workshop of the project, in order to present the main work items. Possible updates after Year 2 and towards project end.	UIC/ART	Input from the whole consortium in order to ensure adherence from all partners. Poster will be made available to all partners in order to ensure broad distribution.
Develop a project "standard" PPT	Inform the scientific community, railway owners and managers. E.g. to be presented at international conferences and within the partner organisations	It was produced and updated throughout period 1 following the availability of the first results.	UIC/ART	Input from the whole consortium in order to ensure adherence from all partners. Standard PPT will be made available to all partners.

## 7. Conclusion

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A dissemination platform has already been partly implemented in the form of the MAINLINE public website and the internal project website (see D6.1).

The intentions of this document, deliverable 6.2 is to complement D6.1 by establishing the dissemination plan for the MAINLINE project. The sections before have defined the target audiences, objectives, communication channels, tools and support material, activities, responsibilities, timing, budget allocations. The selected dissemination actions will be implemented according to the defined plan.

The dissemination plans take the objectives of the project into a whole new level. The overall objectives of MAINLINE are to:

- Apply new technologies to extend the life of elderly infrastructure;
- Improve degradation and structural models to develop more realistic life cycle cost and safety models;
- Investigate new construction methods for the replacement of obsolete infrastructure;
- Investigate monitoring techniques to complement or replace existing examination techniques;
- Develop management tools to assess whole life environmental and economic impact.

The MAINLINE dissemination objectives are therefore to ensure these technical and scientific objectives have a real impact in the railways world. For this, explicit plans are needed and are translated into a series of specific actions tied up into a common and coherent view, which is the main purpose of the above laid out plans.