



Project no. TIP5-CT-2006-031415

INNOTRACK

Integrated Project (IP)

Thematic Priority 6: Sustainable Development, Global Change and Ecosystems

D7.3.1 Set up the Technical Review & Standardization Platform

Due date of deliverable: 30/10/2006

Actual submission date: 07/06/2007

Start date of project: 1 September 2006

Duration: 36 months

Organisation name of lead contractor for this deliverable: A Ekberg (Chalmers), M Bayley (UNIFE) and B. Paulsson (UIC)

Final version

Project co-funded by the European Commission within the Sixth Framework Programme (2002-2006)		
Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

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1. Planning report to set up a Technical Review and Standardisation Platform

INNOTRACK will produce innovations in the form of products, processes and methodologies of which many will be very close to the market. Therefore it is expected that the project results will be exploited proportionately fast by the partners and implemented reasonably quickly within the railways. For this to occur, project results must be reviewed and scrutinised by the experts from industry, railways (infrastructure managers) and the scientific community. Hence the result must be of high quality to be accepted by the end users.

To obtain these aims, reviewing results, especially deliverables, is important.

The different aspects are described in chapter 2.

The review work is not dependent on the normal quality assurance, as done in the SPs. It is a second opinion from a neutral part in order to guarantee the high quality of the deliverables.

The persons chosen for the reviewing are well-known professionals from the area at hand, and are not involved in INNOTRACK.

In Annex 1 the present list is attached. It has to be pointed out that the deliverable and Milestone list is a living document. Therefore the version of the attached list is V15. The last version can always be found on the INNOTRACK internal website.

In October 2007 there will be a workshop where implementations will be discussed. The background of this is to avoid difficulties for the end users to implement the INNOTRACK results. Today railways and industries are slimed organisations with limited resources to implement the results.

Examples of difficulties are:

- Language is a problem, especially among track end users. This together with the fact that all results from INNOTRACK will be written in English has to be considered.
- The results of the deliverable are often presented in the form of scientific reports. The scientific reports are very seldom possible to implement directly. Therefore efforts have to be made to help the end users to implement the result or at least to make it easier.
- A lot of the results do not provide any effect until implemented in standards. Therefore the question how this has to be carried out has to be considered. It can be solved in different ways.

UIC, UNIFE and EFRTC have through their networks a unique possibility to handle these questions in a professional way.

2. Technical review and standardisation Platform

2.1 Industry review

The industry review will be performed by experts drawn from UNIFE infrastructure member companies. Reviewers will be appointed via recommendation from UNIFE's infrastructure committee, UNIRAILINFRA and (where possible) will come from companies external to the project. In the case where no suitable external company exists (noting that a majority of Unirailinfra companies are involved in the project) or where the content of the deliverable is deemed sensitive, the reviewer will be chosen from a project partner that is independent of the work package under review.

The industry review will ensure the deliverables are in accordance with the appropriate standards and industry norms and meet the stated objectives in the work package description.

In addition, the involvement of topical groups and technical committees will be sought where aspects of a deliverable go beyond the scope of UNIRAILINFRA. The ERA Infrastructure Mirror Group within UNIFE will be responsible for the review of the deliverables identified as being in possible conflict with the TSI. While the deliverables will not be made to conform to the TSI for acceptance, the review process will serve as a link between the INNOTRACK project and the European Railway Agency. The ERA Infra MG will have the opportunity to make recommendations to INNOTRACK on adopting common approaches with the TSI.

2.2 Infrastructure Managers review

In the railways there are several experts who are experts in the different areas in INNOTRACK. Many of them are in the Track Expert Group within UIC. Some of them are mentioned on page 170 in the Description of Work (DoW). Most people mentioned there will review deliverables. This will enhance the quality of the deliverables. Some important deliverables will be reviewed by more than one person.

UIC will handle the practical questions while the SP-leaders will take care of the comments. The comments will be presented in a written form on a standard template available on the website.

2.3 Scientific review

Many deliverables are of a scientific nature. In addition for some deliverables, it has to be assured that drawn conclusions are founded on a scientific basis. These deliverables are selected for review by well-known researchers in the area at hand.

As for Industry and Infrastructure review, comments will be given in written form on a standard template. The traditional approach in scientific peer review is that the reviewer is anonymous. Since this is, due to practical reasons, hard to maintain in INNOTRACK, reviewers will instead be instructed that they are free to leave additional comments, orally or written, to the scientific coordinator or the project leader. These comments will be treated as confidential.

Responsible for the scientific review is PhDPD A Ekberg, Chalmers University, Gothenburg, Sweden.

Appendix 1:

Here the Deliverable list is inserted.

N°	Title	Lead participant	Responsible person	To be reviewed?	Reviewer	comments?	Usertype	Date of delivery	Month of delivery	Deadline warning (for EC)	Approval	Sent to the EC	Comments
D0.1	Project management plans and quality assurance	ART	Sara Skogsäter	No			Project	November 30, 2006	M3	D-0	Y	March 20, 2007	
D0.2	Annual Project Reports including Financial summary report for the 1st project year	UIC/ART	Björn Paulsson / Saule Railaite	No			External	August 31, 2007	M12		-		
D1.1.1	Database of representative vehicle types and characteristics from participant countries	RSSB	Andrew Jablonski	No		SPs 2, 3 & 4	SP	December 31, 2006	M4	D-0	Y	May 23, 2007	
D1.1.2	Database of generic vehicle types	RSSB	Andrew Jablonski	No		SPs 2, 3 & 4	SP	March 31, 2007	M7	D-0	-		Planned for mid July 2007
D1.1.3	Final output datasets of vehicle characteristics for use in determining vehicle track forces	RSSB	Andrew Jablonski	No		SPs 2, 3 & 4	Project	May 31, 2007	M9	D-0	-		Planned for mid August 2007
D1.2.1	Standardised method for converting measured track data into segments for "virtual tracks"	DB	Julian Stow	Yes, scientific	Stefano Bruni		SP	November 30, 2006	M3	D-0	Y	June 1, 2007	
D1.2.2	Populated database of track segment characteristics for General modelling for design and LCC and Specific problem segments	DB	Burchard Ripke	No		SPs 2, 3 & 4, 6	SP	April 30, 2007	M8	D-0	-		Planned for end July 2007
D1.2.3	Definition of track irregularities promoting degradation and failure	DB	Burchard Ripke	Yes, scientific	Harry Tournay		Project	June 30, 2007	M10	D-0	-		Planned for end August 2007
D1.2.4	Method for combining track irregularities with "virtual tracks"	DB	Burchard Ripke	Yes, scientific	Stefano Bruni		SP	August 31, 2007	M12		-		Planned for end July 2007

D1.3.1	Interim report on root causes of problem conditions and priorities for innovation	NR	John Amooore/Mark Dembosky	Yes, railways	Rudolf Schilder Harry Tournay, David Ventry		Project	August 31, 2007	M12		-		Interim report August 2007
D1.4.1	Publication of detailed framework for information and data collection	UNI BHAM	Clive Roberts	No		All SPs	Project	February 28, 2007	M6	D-0	Y	June 1, 2007	
D1.4.2	Database of models and list of potential model gaps	UNI BHAM	Clive Roberts	No		All SPs	Project	August 31, 2007	M12		-		Planned for in August 2007
D1.4.3	Process for the linking of modelling tools	UNI BHAM	Clive Roberts	No		All SPs	Project	February 29, 2008	M18		-		
D2.1.1	Preliminary report and database on the track assessment of experimental sites	UniKarl	Gerhardt Huber	No		SP1, SP4, SP6?	SP	February 29, 2008	M18		-		
D2.1.2	Adaptated "Portancemeter" for track structure stiffness measurement on existing tracks	LCPC	Alain Quibel	Yes, scientific	Andres Gomes Correia		SP	August 31, 2007	M12		-		Planned for end of August 2007
D2.1.3	1st phase report on the numerical modelling of the poor site	CTU	Leos Hornicek	Yes, scientific	Steinar Nordahl		SP	February 29, 2008	M18		-		
D2.2.1	State of the art report on soil improvement methods and experiences	CD	Petr Jasansky	Yes, scientific	Göran Holm		SP	August 31, 2007	M12		-		Planned for end of August 2007
D2.2.2	Validation methodology and criteria for evaluation of subgrade enhancements	ADIF	Miguel Rodriguez	Yes, railways	Antonio Lozano		SP	August 31, 2007	M12		-		Combine with D2.3.1, draft for review as planned
D2.3.1	Validation methodology and criteria for evaluations of superstructure innovations	SNCF	Laurent Schmitt	Yes, railways	Antonio Lozano		SP	August 31, 2007	M12		-		Combine with D2.2.2, draft for review as planned
D2.3.2	Optimised design of a steel-concrete-steel track form to provide consistent support for	Corus	Jay Jaiswal	Yes, scientific and railway	Hohnecker + railway		Project	February 29, 2008	M18		-		Combine with D2.3.3

	low maintenance operation based on modelling and laboratory testing			s									
D2.3.3	Design and Manufacture of BBEST slab track components	BBRP	Neil Andrews	Yes, scientific and railways	Hohnecker + railway		Project	February 29, 2008	M18		-		Combine with D2.3.2
D3.1.1	Definition of key parameters and constraints in optimisation of S&C	DB	Wolfgang Groenlund	Yes, railways	Rudolf Schilder		Project	May 31, 2007	M9	D-0	-		planned for mid July 2007
D3.1.2	First report on Cost drivers for goal-directed innovations	DB	Nicole Kumpfmüller	No		IMs	Project	February 29, 2008	M18		-		
D3.2.1	Definition of acceptable RAMS and LCC for DLD's for several track categories and comparison with available solutions	ConTraffic	Roland Baensch	No		IMs	Project	November 30, 2007	M15		-		
D3.3.1	List of key parameters	UNI BHAM	Clive Roberts	Yes, railways	Uday Kumar	IMs, Industry	Project	May 31, 2007	M9	D-0	-		planned for mid July 2007
D3.3.2	Available Sensors for railway environments for condition monitoring	UNI BHAM	Clive Roberts	Yes, industry	Jay to suggest		Project	November 30, 2007	M15		-		
D3.3.3	Requirements and functional description for S&C monitoring	UNI BHAM	Clive Roberts	Yes, railways and industry	Jan Mys		Project	February 29, 2008	M18		-		
D4.1.1	A database for actual and new, innovative rail/joints	VAS	Christian Tapp	No		SP1	SP	February 29, 2008	M18		-		
D4.1.2	Interim rail degradation algorithms	Corus	Jay Jaiswal/Rob Carroll	No		Yes, scientific and railway	Project	February 29, 2008	M18		-		

D4.1.3	Interim guidelines on the selection of rail grades	Corus VAS	Jay Jaiswal/Peter Pointner	Yes	Robert Nemethy, Rudolf Schilder		Project	February 29, 2008	M18		-	
D4.2.1	Estimations of the influence of rail/joint degradation on operational loads and subsequent deterioration. Tentative report.	BV	Anders Ekberg	Yes, scientific	Robert Froehling		Project	August 31, 2007	M12		-	delivered
D4.2.2	Interim report on "Minimum Action" rules for selected defect types	Corus	Jay Jaiswal	Yes, railway	Ekkehard Lay		SP	August 31, 2007	M12		-	Ready draft version for review for July 07
D4.3.1	Initial definition of conditions for testing matrix of rail steels and welds	DB	Detlev Ullrich	No		No	SP	August 31, 2007	M12		-	delivered
D4.3.2	Characterisation of microstructural changes in surface and sub-surface layers with traffic	Corus	Jay Jaiswal/Rob Carroll	Yes, scientific	Birger Karlsson		Project	August 31, 2007	M12		-	Ready draft version for review for July 07
D4.3.3	Test results of first test rig measurements	DB	Detlev Ullrich	No		No	Project	February 29, 2008	M18		-	
D4.4.1	Assessment of rail inspection technologies in terms of industrial ripeness	NR	John Amooore	Yes, railway	Michael Luke		Project	August 31, 2007	M12		-	Ready draft version for review early July 07
D4.4.2	Operational evaluation of a multifunctional inspection equipment (internal and external status of the rail)	SNCF	Louis Girardi	Yes, railway	Gerard Presle		Project	February 29, 2008	M18		-	
D4.5.1	Overview of existing rail grinding strategies and new and optimised approaches for Europe	SPENO	Wolfgang Schöch	No		No	Project	August 31, 2007	M12		-	As planned (mid August)
D4.6.1	Report on the influence of the working procedures on the formation and shape of the HAZ	Goldschmidt	Henri Cohrt	Yes, welding expert	Kurt Demeersseman		SP	May 31, 2007	M9	D-0	-	delivered

D4.6.2	Report on the influence of working procedures and post treatment on static and dynamic fatigue behaviour	Goldschmidt	Steffen Altendorf	Yes, welding expert	Kurt Demeersseman		SP	May 31, 2007	M9	D-0	-		planned for mid july 2007
D4.6.3	Report on the influence of the design of the equipment as well as the working procedures on the quality of the weld measured by means of metallographic investigations as well as by means of static and dynamic investigations	Goldschmidt	Richard Johnson	Yes, welding expert	Kurt Demeersseman	No	SP	February 29, 2008	M18		-		
D4.6.4	Operational parameters and design of GPW equipment	Goldschmidt Corus	Jay Jaiswal/Richard Johnson	Yes, welding expert	Bill Mosley or Peter Mutton	Yes, railway	Project	February 29, 2008	M18		-		
D5.1.1	Report on existing states of art for construction activities and assessment of logistic constraints	Alstom	F. Le Corre	Yes, railways	André Le Bihan	industry	SP	August 31, 2007	M12		-		Merged with D5.1.2, Draft version mid August
D5.1.2	Report on existing states of art for maintenance and renewals activities and assessment of logistic constraints	Alstom	F. Le Corre	Yes, railways	André Le Bihan	industry	SP	August 31, 2007	M12		-		Merged with D5.1.1, Draft version mid August
D5.1.3	Definition document on logistics needs and constraints and definition of benchmarks	Alstom	F. Le Corre	Yes, railways	André Le Bihan	industry	SP	August 31, 2007	M12		-		Planned for end August 2007
D5.1.4	Report on conduct of interfaces between contractors and IM's and means of improvement	EFRTC	J. Candfield	No		railways and industry	SP	August 31, 2007	M12		-		Draft version planned for mid August 2007
D5.2.1	Documented validation procedure for track construction sites	Carillion	Robert Harwood	Yes, railway	Phil Ransom	No	SP	October 31, 2007	M14		-		
D5.2.2	Documented validation procedure for M&R activities	Carillion	Robert Harwood	Yes, railway	Phil Ransom	No	SP	October 31, 2007	M14		-		

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D6.1.1	Report about existing models and tools	BV	Ulla Espling	No		SP6	SP	November 30, 2006	M3	D-0	Y	May 23, 2007	
D6.1.2	Incorporating rules and standards	BV	Ulla Espling	No			SP	February 28, 2007	M6	D-0	Y	May 23, 2007	
D6.2.1	Unique boundary conditions for LCC analysis of railway infrastructure (including LCC keys, technical and management views)	ADIF	Gloria Corzo Uceda	Yes	Olga Tzadikov, ALD Prof. P. Veit, TU Graz	All SPs	Project	April 30, 2007	M8	D-0	-		First draft delivered
D6.2.2	New and innovative tools and models	ADIF	Gloria Corzo Uceda	No		SP6	SP	May 31, 2007	M9	D-0	-		First draft delivered
D6.2.3	Improvements and validation of tools	ADIF	Gloria Corzo Uceda	No		SP6	SP	August 31, 2007	M12		-		As planned
D6.2.4	Database and requirements	ADIF	Gloria Corzo Uceda	No		All SPs	Project	August 31, 2007	M12		-		As planned
D6.3.1	Boundary conditions for RAMS analysis of railway infrastructure	ÖBB	Wilhelm Saliger	Yes	Olga Tzadikov, ALD Dr. H. Jung, IZP	All SPs and railways	Project	April 30, 2007	M8	D-0	-		First draft delivered
D6.3.2	Requirements for RAMS-analysis of railway infrastructure regarding deterioration rates, influence functions, statistical methods, monitoring method, etc.	ÖBB	Wilhelm Saliger	Yes	Olga Tzadikov, ALD Dr. H. Jung, IZP	All SPs and railways	Project	May 31, 2007	M9	D-0	-		Planned for end August 2007
D6.3.3	Identification of necessary developments	ÖBB	Wilhelm Saliger	No			SP	November 30, 2007	M15		-		
D6.5.1	Modular LCC/RAMS models	DB	Nicole Kumpfmüller	No			Project	February 29, 2008	M18		-		
D6.5.2	Cost drivers	DB	Nicole Kumpfmüller	No		All SPs, railways	Project	February 29, 2008	M18		-		
D7.1.1	Set up project private and public web-site	UIC	Hugo Michel	No			Project	October 31, 2006	M2	D-0	Y	March 20, 2007	
D7.1.2	Set up the Dissemination Platform	UIC	PLAUD Marie	No			Project	October 31, 2006	M2	D-0	Y	March 20, 2007	

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D7.1.3	Planning Report: set up Network of Industries and Infrastructure Managers	UIC/ UNIFE	Björn Paulsson Michael Bayley	No			Project	October 31, 2006	M2	D-0	Y	June 1, 2007	
D7.1.4	Draft Dissemination Plan	UIC	Marie Plaud, Bjorn Paulsson	No		Yes, railways and industry	Project	December 31, 2006	M4	D-0	-		planned for 30 April 07
D7.1.5	Report on the dissemination activities and proposal for further actions/update	UIC	Bjorn Paulsson	No			Project	January 31, 2008	M17		-		
D7.1.6	3 Network Meetings	UIC	Bjorn Paulsson	No			Project	February 29, 2008	M18		-		
D7.2.1	Establishment of Training Platform	DB	Nicole Kumpfmüller	No	Olga Tzadikov, ALD DB Training	Yes, railways	Project	February 28, 2007	M6	D-0			planned for 31 Mai 07
D7.2.2	Report on current practices for training/education of track staff	DB	Nicole Kumpfmüller	No	DB Training	Yes, railways	Project	August 31, 2007	M12		-		meeting planned July 2007
D7.2.3	Identification of needs and specifications for coherent training programmes	DB	Nicole Kumpfmüller	No		Yes, railways	External	February 29, 2008	M18		-		meeting planned July 2007
D7.3.1	Set up the Technical Review & Standardisation Platform	UIC/ UNIFE	Björn Paulsson Michael Bayley	No			Project	October 31, 2006	M2	D-0	Y		delivered
D7.3.2	Draft Technical Review & Standardisation Platform work programme and schedule	UIC	Björn Paulsson	No			Project	November 30, 2006	M3	D-0	-		planned for 15 June 07
D7.3.3	Report on Technical Review & Standardisation Platform progress/results	UIC	Björn Paulsson	NO		Yes, railways and industry	Project	January 31, 2008	M17		-		a workshop in October 2007

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D7.3.4	First draft of identification of relevant codes and correlation to INNTRACK results	UIC	Björn Paulsson	No		Yes, railways	Project	February 29, 2008	M18		-		
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