



DI2.4: PROMISE Dissemination Report

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ABSTRACT:	This deliverable describes the PROMISE dissemination activities until M18 (also planned activities)

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15/05/2006	0.9	Martin Schnatmeyer, BIBA	Update

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Table of Contents

1	INTRODUCTION.....	2
2	PUBLICATIONS AND PRESENTATIONS	2
2.1	CONFERENCE / JOURNAL PAPERS AND PRESENTATIONS	2
2.2	PUBLICATIONS FORESEEN FOR PUBLICATION.....	6
2.3	PROMISE SESSIONS, PANEL PRESENTATION, RESEARCH ROUND TABLE, WORKSHOP.....	8
2.4	PLANNED PROMISE SESSIONS, PANEL PRESENTATION, RESEARCH ROUND TABLE	8
3	NATIONAL INFORMATION DAY	9

1 Introduction

In this report the dissemination activities of the PROMISE project will be described from 2003 up to the actual status of 2006. This includes publications and presentations for scientific conferences and journals and publications, which are foreseen for presentation and publication.

2 Publications and presentations

2.1 Conference / journal papers and presentations

No	Partner	Author	Title	Forum	Form
1.	All		PROMISE	18. ICPR conference	Poster
2.	BIBA	M. Schnatmeyer, J. Schumacher, K.-D. Thoben	EOL information management for tracking and tracing of products	18. ICPR conference PROMISE Special Session	Paper
3.	BIBA	C. Hans, M. Schnatmeyer, J. Schumacher	Managing product life-cycle information with GRIDs	18. ICPR conference PROMISE Special Session	Paper
4.	BIBA	C. Hans, M. Schnatmeyer, J. Schumacher, K.-D. Thoben	Using Transponder Technology to Support the End-of-Life Phase in Product Life Cycle Management	IMS Forum 2004	Paper
5.	BIBA	H. Duin, M. Schnatmeyer, J. Schumacher, K.-D. Thoben, X. Zhao	Cross-Impact Analysis of RFID Scenarios for Logistics	LM 2005 ¹	Paper
6.	BIBA	K. A. Hribernik	RFID and Ubiquitous Wireless Access as Enabling Technologies for the Product Avatar Concept	PAAS Workshop May 10-12, 2005	Presentation
7.	BIBA	K.-D. Thoben	Product Avatar: A Concept to Support Product Individual Information Management	PAAS Workshop, Groningen May 10-12, 2005	Presentation
8.	BT (on behalf of IMS PROMISE)	M. Frey	PROMISE Project	IAB Meeting 2005	Presentation
9.	BT (on behalf of IMS PROMISE)	M. Frey	IMS Project PROMISE: Product Lifecycle Management – the Industrial User Perspective	Advanced Manufacturing Conference, Nov. 16-17, 2005 at Leuven	Presentation
10.	CIMRU	P. Folan, H. Jagdev, J. Browne	Providing for Inter-Organisational Performance Measurement: Challenges and Concepts	IFIP WG 5.7 Special Interest Group on Performance Measurement, held in Bordeaux, France, from the 27-28 June	Paper
11.	CRF	N.N	Tutto sulla vita di un prodotto – il Centro ricerche Fiat studia	LA STAMPA	Article

¹ Logistik-Management 2005, TU Dresden, Germany. <http://www.lm2005.de/> (04/10 - 06/10/2005)

No	Partner	Author	Title	Forum	Form
			"PROMISE"		
12.	CRF	E. Audisio, C. Borello, L. Borgarello, N. Frantone, M. Gambera	A statistical approach to "Prognostic" for preven- tive maintenance	MM 2005	Paper
13.	CRF	N.N	PROMISE	PROMISE Kick-off- Meeting, Torino	Poster
14.	EPFL	Hong-Bae Jun, D. Kiritsis, P. Xirouchakis	Research issues on closed loop PLM: The PROMISE Approach	18. ICPR conference PROMISE Special Session	Paper
15.	EPFL	M. Ruibal, A. Bufardi, D. Kiritsis, P. Xirouchakis	Maintenance data analysis for use in de- sign for maintainability	18. ICPR conference PROMISE Special Session	Paper
16.	EPFL	D. Kiritsis, A. Bufardi, P. Xirouchakis	Research issues on product lifecycle man- agement and informa- tion tracking using smart embedded systems	Journal for Advanced Engineering Informatics 17 (2003) 189–202	Paper
17.	EPFL	D. Kiritsis	Ubiquitous Product Life- cycle Management us- ing Product Embedded Information Devices	IMS 2004 conference	Paper
18.	EPFL	A. Bufardi, S. Allard, D. Kiritsis, R. Gheorghe, P. Xirouchakis	Data modelling for de- sign for maintainability	Global Conference on Sustainable Product Development and Life Cycle Engineering Sept. 29th – Oct. 1st, 2004 at the PTZ in Ber- lin	Paper
19.	EPFL	Hong-Bae Jun, D. Kiritsis P. Xirouchakis	Product lifecycle modeling with RDF	International Confer- ence on Product Life- cycle Management (ICPLM' 05), IUT Lum- iere-Lumiere University of Lyon, France, 11-13 July 2005.	Paper
20.	EPFL	D. Kiritsis	Product Lifecycle Man- agement and Informa- tion Tracking using Smart Embedded Sys- tems	EC workshop on Wire- less Tags, April 20, Brussels	Presentation
21.	EPFL & BT	D. Kiritsis & M. Frey	Industrial Panel Session on Infotronic Technolo- gies	Ifac 2005, Industry Days, July 05-06, 2005 at Prague	Participation on Panel Session
22.	HUT	M. Kärkkäinen, J. Holmström K. Artto K. Främling	Intelligent products - a step towards a more effective project delivery chain.	Computers in Industry/ Volume 50, Issue 2 February 2003. pp. 141-151.	Paper
23.	HUT	M. Kärkkäinen, T. Ala-Risku K. Främling	The product centric ap- proach: a solution to supply network informa- tion management prob- lems?	Computers in Industry/ Vol. 52, No. 2, 2003. pp. 147-159.	Paper
24.	HUT	K. Främling, J. Holmström	Design Patterns for Managing Product Life- cycle Information	18. ICPR conference PROMISE Special Session	Paper
25.	HUT	M. Kärkkäinen,	Integrating material and	Collaborative Systems	Paper

No	Partner	Author	Title	Forum	Form
		K. Främling T. Ala-Risku	information flows using a distributed peer-to-peer information system. In: Jagdev H.S., Wortmann J.C., Pels H.J. (eds.)	for Production Management/, Kluwer Academic Publishers, Boston, USA, 2003. pp. 305-319. Based on Proceedings of APMS'2002 conference. Eindhoven, Netherlands, 8-13 September 2002. pp. 463-473.	
26.	HUT	K. FRÄMLING, M. KÄRKKÄINEN, T. ALA-RISKU J. HOLMSTRÖM	Managing Product Information in Supplier Networks by Object Oriented Programming Concepts	IMS 2004 conference	Paper
27.	HUT / SAP	J. Anke, K. Främling	Distributed Decision Support in a PLM scenario	Product Data Technology Europe 2005 ²	Paper
28.	POLIMI	A. Matta, M. Tomasella	Adaptive Production Systems to React to Product Changes	18. ICPR conference PROMISE Special Session	Paper
29.	POLIMI	Jacopo Cassina, Sergio Terzi, Hervé Panetto, Marco Taisch	Development of an holonic metamodel for lifecycle support and product extension	ICE 2005	Paper
30.	POLIMI	Jacopo Cassina, Sergio Terzi, Marco Taisch	Towards an Intelligent Extended Product	APMS 2005	Paper
31.	SAP	G. Hackenbroich, Z. Nochta	A Process Oriented Software Architecture for Product Lifecycle Management	18. ICPR conference PROMISE Special Session	Paper
32.	SAP	U. Kubach	Wireless Tags	EC workshop on Wireless Tags, April 20, Brussels	Presentation
33.	SAP & BT	G. Hackenbroich, M. Frey	Next-Generation PLM: Closing the Information Loop with Smart Items	SAPPHIRE 2005	Presentation
34.	SINTEF	C.C. Røstad, O. Myklebust, B. Moseng	Closing the Product Lifecycle Information Loops	18. ICPR conference PROMISE Special Session	Paper
35.	SINTEF	A. Rolstadås	Product/Service eSustainability	18th Bled eConference	Presentation
36.	HUT	K. Främling M. Kärkkäinen, T. Ala-Risku J. Holmström	Agent-based Model for Managing Composite Product Information.	Computers in Industry/, Vol.57, No. 1, 2006	Paper
37.	HUT	K. Främling, J. Holmström	Exploration of the impact of RFID and agent technology on operations management.	Proceedings of First International Conference on Design Science Research in Information Systems and Technology , 24-25 February 2006, Clare-	Paper

² <http://www.pdteurope.com> (29/09/05)

No	Partner	Author	Title	Forum	Form
				mont, California	
38.	BIBA	K.-D. Thoben	Intelligent and Net-worked Products, A Product and manufacturing perspective	Conference: From RFID to the Internet of Things, 6/7 March 2006, Brussels	Presentation
39.	SAP	U. Kubach	Smart Items and Future Manufacturing	Conference: From RFID to the Internet of Things, 6/7 March 2006, Brussels	Presentation
40.	ITIA / CRF	C.R. Boer, R. Fornasiero, M. Sorlini, A. Zangiacomi (ITIA), N. Francone (CRF).	Un nuovo approccio alla manutenzione	RMO - Rivista di Meccanica Oggi. N° 95, February 2006	Paper
41.	CIMRU	P.Folan J.Browne	Development of an extended enterprise performance measurement system	Production Planning & Control/, vol. 16, No. 6, September 2005, 531-544	Paper
42.	FIDIA	F. Meo	Use of agents for predictive maintenance and diagnostic of machine tool mechanical components	Agent based production engineering , Seminar, in the University of Naples 24.November 2005	Presentation
43.	EPFL et al.	H. Erbe G. Morel J. Lee B. lung J. B. Léger G. Seliger E. Hohwieler D. Kiritsis M. Hecht U. Berger	Infotronic Technologies for E-Maintenance Regarding the Cost Aspects	16th IFAC World Congress, July 4-8, 2005, Prague, Czech Republic	Paper
44.	EPFL/SINTEF	D Kiritsis A Rolstadäs	PROMISE-A Closed-Loop Product Lifecycle Management Approach,	APMS 2005	Paper
45.	EPFL	D Kiritsis	The PROMISE project	1 st RFID Academic Convocation, MIT, Boston, January 2006	Presentation
46.	EPFL	D Kiritsis	The PROMISE approach to engineering asset management	2 nd RFID Academic Convocation, RFID Journal LIVE! 2006, Las Vegas, May 1, 2006	Presentation
47.	SINTEF	B. Moseng	Product Lifecycle Management and Information Tracking using Smart Embedded Systems	2 nd IMS-Promise Workshop, November 30, 2005, Tokyo	Presentation
48.	EPFL	D. Kiritsis	The PROMISE Closed-Loop PLM modeling approach	2 nd IMS-Promise Workshop, December 1, 2005, Tokyo	Presentation
49.	BIBA	C. Hans	PROMISE EOL information management for tracking and tracing of products for recycling	2 nd IMS-Promise Workshop, December 1, 2005, Tokyo	Presentation
50.	BOMBARDIER	M. Frey	PROMISE BOL information management for	2 nd IMS-Promise Workshop, December 1,	Presentation

No	Partner	Author	Title	Forum	Form
			Design for X	2005, Tokyo	
51.	ITIA	A. Zangiacomi	Virtual Research Lab for a Knowledge Community in Production	NoE VRL-KciP	Deliverable
52.	SINTEF	N.N.	PROduct lifecycle Management and Information tracking using Smart Embedded systems	Opening session at the RFID Innovation centre Norway.	Poster
53.	EPFL/SINTEF	D. Kiritsis A. Rolstadås	Ubiquitous PLM using Product Embedded Information Devices	Advanced Manufacturing. An ICT and Systems perspective, under publication by the IMS-NoE.	Electronic publication
54.	EPFL	H.-B. Jun D. Kiritsis P. Xirouchakis	Closed-loop PLM	Advanced Manufacturing. An ICT and Systems perspective, under publication by the IMS-NoE.	Electronic publication
55.	SINTEF/EPFL	O. Myklebust D. Kiritsis T. Lamvik	Sustainable Products and Processes	Advanced Manufacturing. An ICT and Systems perspective, under publication by the IMS-NoE.	Electronic publication

Table 1: PROMISE conference / journal papers and presentations

2.2 Publications foreseen for publication

Partner	Author	Title	Conference / journal	Remark
EPFL / CIMRU	A. Bufardi / P. Folan / D. Kiritsis / P. Xirouchakis	Transformation of product field data into knowledge	INCOM 2006	
EPFL	H.-B. Jun, J.-H. Shine, D. Kiritsis, P. Xirouchakis	System architecture for closed-loop PLM	INCOM 2006	
BIBA / HUT	K. Främling / L. Rabe	Enriching Product Knowledge During the Product Lifecycle	INCOM 2006	
CAM-BRIDGE / HUT	K. Främling / J. Brusey / M. Harrison	Global Unique Product Identifiers – Requirements and Solutions to Product Life-cycle Management	INCOM 2006	
SAP	J. Anke / M. Neugebauer	Early data processing in smart item environments using mobile services	INCOM 2006	
BIBA / SAGE	K. Nunes / M. Schnatmeyer / K.-D. Thoben / R. Valle	Using Transponder Technology for Waste Minimization in the Automotive Industry	INCOM 2006	
ITIA-CNR	M. Sorlini / A. Zangiacomi / R. Fornasiero	Designing a Decision Support System for Trucks Predictive Maintenance	INCOM 2006	
POLIMI	A. Matta, M. Tomasella	Adaptive production systems to react to product changes	Int. J. of Production Research	From ICPR
CIMRU	Hui Cao / Paul Folan /	Design of an End-of-Life Decision Support System using Product Embedded Infor-	ICE 2006	

Partner	Author	Title	Conference / journal	Remark
	Zheng Lu / Julien Mascolo / Nicoletta Frantone / Jim Browne	mation Device Technology		
HUT	K. Främling M. Kärkkäinen, T. Ala-Risku J. Holmström	Design Patterns for Managing Product Lifecycle Information	Communications of the ACM	
BIBA	K.-D. Thoben C.Hans K. Hribernik M. Schnat- meyer	Die erweiterte Nutzung von Produktinfor- mationen	RFID im Blick, Special Bremen Edition	
FIDIA	F. Meo D. Panarese	Product Lifecycle Management and In- formation Tracking using Smart Embed- ded Systems applied to machine tools	2nd PROMIS Vir- tual International Conference on Intelligent Produc- tion Machines and Systems, in Ischia, Italy, July 2006	
EPFL	H.-B. Jun J.-H. Shine Y.-S Kim D. Kiritsis P. Xirouchakis	RFID applications in PLM	International Jour- nal of Production Economics	
EPFL	H.-B. Jun D. Kiritsis P. Xirouchakis	Research issues on closed-loop PLM	Computers in In- dustry	
EPFL	H.-B. Jun J.-H. Shine D. Kiritsis P. Xirouchakis	A Framework for closed-loop PLM	Information sys- tems frontiers	
EPFL/ CRF	H.-B. Jun D. Kiritsis M. Gambera P. Xirouchakis	Predictive maintenance algorithm for automotive engine oil	Computers and Industrial Engi- neering	
EPFL	H.-B. Jun, F. Lo Conte, D. Kiritsis P.Xirouchakis	A predictive algorithm for estimating the quality of automotive engine oil	International Jour- nal of Industrial Engineering	
EPFL	D. Kiritsis H.-B. Jun A. Bufardi D. Pli M. Anastasiou P. Xirouchakis	Engineering asset management using product embedded information device (PEID): PROMISE approach with applica- tion to telecom assets	WCEAM 2006, 11- 14 July 2006, Gold Coast, Australia.	
BIBA / IRIS	C. Hans / M. Schnatmey- er / K.-D. Thoben / I. Sbarski / J. Bishop	Decision support systems in plastic recy- cling plants	WCEAM 2006, 11- 14 July 2006, Gold Coast, Australia.	
EPFL	H.-B Jun M. Ruibal D. Kiritsis P. Xirouchakis	Streamlining asset maintenance through- out analysis of its usage data	APMS 2006, Sep- tember 2006, Wro- claw, Poland.	

Partner	Author	Title	Conference / journal	Remark
EPFL/ SINTEF	D. Kiritsis A. Rolstadås	Ubiquitous PLM using Product Embedded Information Devices	Advanced Manufacturing. An ICT and Systems perspective, under publication by the IMS-NoE.	Book edition
EPFL	H.-B. Jun D. Kiritsis P. Xirouchakis	Closed-loop PLM	Advanced Manufacturing. An ICT and Systems perspective, under publication by the IMS-NoE.	Book edition
SIN- TEF/EP FL	O. Myklebust D. Kiritsis T. Lamvik	Sustainable Products and Processes	Advanced Manufacturing. An ICT and Systems perspective, under publication by the IMS-NoE.	Book edition

2.3 PROMISE sessions, panel presentation, research round table, workshop

Different events were successful planned and organised from the PROMISE consortium:

- A special PROMISE conference session was held 18th ICPR conference in Fisciano (SA), Italy, University of Salerno (papers see Table 1). One paper was selected for the International Journal of Production Research (Adaptive production systems to react to product changes).
- A panel presentation was held at the 16th IFAC World Congress, Prague, Czech Republic.
- An international research roundtable “Embedded Systems to enhance the Product Life-Cycle” was organised and hosted by EPFL in September 2005.
- A meeting was held between PROMISE and EPCglobal at the IfM, Cambridge University at September 26th 2005.
- Internal workshop on PROMISE in ITIA on March, 13 2006.
- A RFID Innovation centre has been established in Norway (see <http://www.rfidjournal.com/article/articleview/2268/1/1/>). PROMISE will be presented and also have a poster at the opening session.

2.4 Planned PROMISE sessions, panel presentation, research round table

Academic dissemination will continue. There are already two planned sessions at two important international events:

- INCOM 2006 (<http://www.emse.fr/incom2006/>): PROMISE sessions are prepared to this conference. The call for this session and the list of papers submitted are presented in section 2.2.
- WCEAM 2006 (<http://www.wceam.com/>): this is the first World Conference on Engineering Asset Management and it will take place on July 2006 in Australia. D. Kiritsis was invited and he is member of the International Steering Board of this conference. Asset Management appears to be a promising domain of application of PROMISE technologies. The idea is that PROMISE organises its regular IMS workshop in conjunction with that event for higher international visibility. In parallel, technical sessions may be organised with technical & scientific presentations from all participating IMS regions.

- iii. EURO ID 2006: BIBA plan to present PROMISE at this trade fair in Cologne, Germany (16 to 18 of May)
- iv. Finally, discussions are undergoing for the organisation of PROMISE sessions in the upcoming next ICPR conference in Chile, 2007).
- v. The first step towards a PROMISE book and the organisation of a PROMISE summer school will be planned during the next period. This will be based on the existing PROMISE results and publications from all involved IMS regions and will be based on the background and experience of the IMS project GEM (www.sintef.no/gem) and its follow up action *GEM-Alliance*.

3 National Information day

For a better dissemination of PROMISE results and objectives on national and local level, national information days are foreseen. For planning and organising such a day a handbook has been created (Handbook National Information Day). This handbook describes the way of preparing a national information day PROMISE. It's based on various experiences in preparing such events and will be continuously updated according to gained experiences.

An information day was organised 21st of July in Bremen, Germany (BIBA) in conjunction with a project workshop of a national research project (OPAK³), which is an integration project of PROMISE. Andreas Plettner (INDYON) and Martin Schnatmeyer (BIBA) were among others the speakers.

A further national information day was organised at HUT, 5th of October. James Brusey (CAMBRIDGE), Julien Mascolo (CRF), Lion Benjamins (STOCKWAY) and Kary Främling (HUT) were among others the speakers. The seminar was financed by Tekes (technology agency of Finland) in the context of our "EloCore" project.

³ OPAK (Optimized PAcKing logistics in the life cycle economy) is a project with a focus on the optimisation of the redistribution of plastic materials for recycling processes. With the RFID-system technology and the optimisation of available technological infrastructures, it's planned to improve the logistic process units of those materials. OPAK is funded by the Federal Ministry of Education and Research (BMBF) in Germany and started in September 2003.