

Contract Number 235542

RACE networkRFID

FP7 Thematic Network
ICT-PSP: a European concerted effort on RFID

D3.3 – Download of RFID applications and Projects information into the database

Due date of deliverable: 31-03-2011 (M24)
Actual submission date: 20-04-2011

Start date of project: March 1st, 2009

Duration: 36 months
Version: 1

Organisation name of lead contractor for this deliverable: FILRFID/ CNRFID
Contact person: Laurent Gonzalez

Project co-funded by the European Commission within the Seventh Framework Programme (2007-2013)		
Dissemination Level		
PU	Public	PU
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)	

TABLE of CONTENTS

<i>Status of the database</i> _____	3
Actual use-cases in the database: _____	3
<i>Application vs. Country</i> _____	8
<i>Sector of activity vs. status of usecases</i> _____	9
<i>Acknowledgements</i> _____	10

Status of the database

The 1st of March 2011, the database has 22 usecases registered from seven European countries. Despite an intensive communication to all the member organizations of thematic network: article in the newsletter of the network, articles in several website member organizations and several emails to the members of the project...

The objective was 80 usecases in the database by Month 24 (March 2011) of the project.

Several causes may explain the fact that this objective was not achieved:

- Delays in delivering the new website of the network.
- Companies, entities, organizations may not want to communicate on their RFID implementation because they feel this is a sensitive issue.
- The lack of “visibility” of the network outside the EU project.
- ...

Actual use-cases in the database:

The 22 usecases represent a range of application from Asset management to Real time location systems and sector of activity from Aeronautics to Food. Seven European countries are represented in the database: Austria, France, Greece, Italy, Spain, Sweden and United Kingdom.

The majority of usecases are either pilots of RFID materials or deployment of RFID solutions. A few of the usecases are demo or test (5 out of 22 usecases).

Extracts on the next pages of the analysis section of the database allow a deeper look at the spread of usecases per application per country.

*All usecases can be seen at this link: <http://usecases.race-networkrfid.eu>

Title	Type	Submitted on	Country	Description
RFID flow process control in a winery	Initiative	Fri. 14 Jan. 2011	Spain	Use of RFID technologies, as well as WSN, in order to trace the complete business flow along the wine production chain, from the vineyards to the bottles distribution. Costs that are related with the collection, transport, disposal or alternative management of urban solid waste are continuously increased; also the allocated areas for waste's deposition are shrinking with the time, while at the same time the interest of consumers for the recycling is permanently increased. Under these conditions, information that is collected from the combined usage of fleet management system, RFID technology and dynamic reporting of waste weight during the collection, leads to useful conclusions on waste management. The usage of RFID technology in waste management, gives to municipalities the possibility to promote advanced recycling programs and it is used for many applications in order to automate the processes and to prevent from errors in various levels.
RFID technology for Waste Management	Initiative	Wed. 1 Dec. 2010	Greece	The SMART Drum cable drum system allows industrial cable drums to be accurately identified using an embedded RFID tag. The RFID tag also carries information about the cable payload providing traceability, error reduction and stock control.
Cable Drum Management using RFID	Initiative	Tue. 16 Nov. 2010	United Kingdom	inventory, tracking, theft protection for the books of the foundation's library
library of K.Karamanlis Foundation	Initiative	Fri. 29 Oct. 2010	Greece	Visitors' registration and tracking
Visitor Registration at Tracking	Initiative	Fri. 29 Oct. 2010	Greece	A number of lorries carry every day gravel and other inert material to a ready mixed concrete plant. When a lorry arrives gets on a weigh bridge to measure the cargo. Each lorry carries an RFID tag attached to it. A special interrogator reads lorry's id and sends this information to weighbridge electronic system.
Unmanned weighbridge operation	Initiative	Thu. 14 Oct. 2010	Greece	Application for RFID tagged people and
People and	Initiative	Thu. 7 Oct.	Spain	

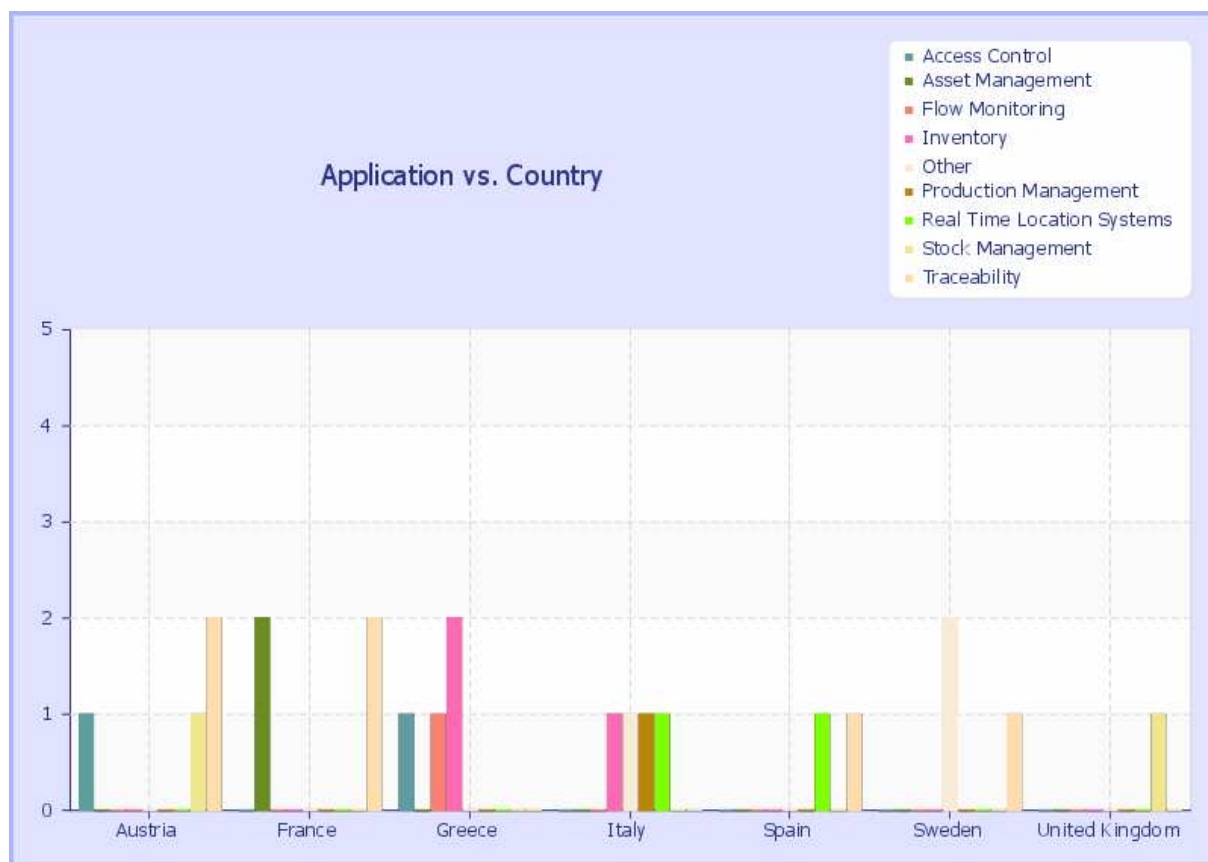
Title	Type	Submitted on	Country	Description
objects traceability using RFID an		2010		objects tracking and traceability in an industrial environment.
ARSAMIP	Initiative	Wed. 22 Sep. 2010	Italy	<p>The aim of the activity was proposing and validating a solution for the automatic management of the industrial processes exploiting the traceability of objects and services within a partner company and the asset management in terms of the input-output monitoring of goods and components. The development included the design and prototypal implementation of a complete architecture, considering interrelationship of the physical layer of the RFID technological infrastructure with the logical layer that monitors the location of materials (raw, semi-finished and finished goods) in order to organise and control the production flow</p> <p>An activity commissioned by a company, which is a manufacturer of fashion and sports clothing. The solution enables the tracking of clothing stored in racks in a large warehouse or sales area, in order to achieve with: having a real-time inventory, implement the real-time localization of clothes within the shopping area (in relation to the continuous moving of material in an extended area).</p>
Garments tracking	Initiative	Wed. 22 Sep. 2010	Italy	<p>In the Trieste's harbor, in collaboration with the local authorities, has been installed a containers tracking system. The system was designed to solve the problem of containers loss: although these articles are considerable big, it often happened that the management lost the information on the actual presence or absence in the harbor. The system was successfully tested for several months.</p>
Harbour's containers tracking	Initiative	Wed. 22 Sep. 2010	Italy	<p>The project has led to the realization of a system helping visually impaired people in getting around by foot, offering them a smart RFID enhanced cane. This cane, quite similar to a normal one, is able to communicate with a rubber path positioned on the floor. The path is the same already used in hospitals, airports, stations to drive blind people across complex buildings. The</p>
Smart cane for blind people	Initiative	Wed. 22 Sep. 2010	Italy	

Title	Type	Submitted on	Country	Description
<u>Using Active RFID to Monitor Railcars</u>	Initiative	Mon. 28 Jun. 2010	Sweden	<p>developed solution was the focus of a trial conducted within an eye diseases specialized hospital (“Ospedale Oftalmico di Torino”).</p> <p>Swedish Steel is using a radio frequency identification system to monitor the shipment of steel slabs. In 2008, the steelmaker began mounting active RFID tags to some 400 railcars used to transport steel slabs from its facility in the city of Luleå to one in Borlänge, about 900 kilometers away, and also from a facility in Oxelösund. The system is helping the company makes sure that the right cars are being loaded with the correct materials, as well as identify the cars' locations. Swedish Steel is using custom-designed active RFID tags and readers from Swedish systems integrator and technology provider Adage Solutions.</p>
<u>RFID tags for Airbus A350 program</u>	Initiative	Sun. 16 May. 2010	France	<p>FLYtags are RFID UHF high memory capacity aerospace tags which were designed to identify flyable parts of the A350 (soon to fly) aircraft. The FLYtag contain all birth record and maintenance history information and are aerospace approved.</p>
<u>WAVEbox Solar RFID UHF autonomous reader</u>	Initiative	Sun. 16 May. 2010	France	<p>Design & manufacture of an independent (onboard intelligence) and autonomous (solar panel, GSM/GPRS module) UHF standalone and rugged reader aiming at detecting and identifying vehicules in motion (up to 100 Km/h).</p>
<u>Self Payment Systems</u>	Initiative	Sat. 15 May. 2010	Sweden	<p>Self payment systems from ESCS AB with the latest RFID technology and EMV pin payment. Pick what you want to buy, put it in a bag and then swipe your card to make the purchase.</p>
<u>Innovative transport and logistic RFID soluti</u>	Initiative	Wed. 28 Apr. 2010	France	<p>The solution covers installation of portals and RFID readers for pallet tracking from the warehouses to the stores including real time tracking of what is going in and out of trucks.</p>
<u>Tracking Safety Items requiring periodical co</u>	Initiative	Thu. 15 Apr. 2010	France	<p>RFID based tracking system for various safety devices such as Air Cylinders, Breathing Masks, Protection Apparels used by Fire Fighters. The system enables full tracking of periodical operations from a</p>

Title	Type	Submitted on	Country	Description
<u>iWagon</u>	Initiative	Tue. 6 Apr. 2010	Austria	central server. Additionally each tagged device - embedding its own identity and recent history- can be checked using a PDA before to be used thus being performed off line. In our biggest plant premises we have around 100km of rail. To find and manage the wagon handling they should become RFID enabled
<u>Paper Reel Management System</u>	Initiative	Tue. 6 Apr. 2010	Austria	DF IPX enabled paper reels are auto tracked in one of our corrugated plants
<u>iPark</u>	Initiative	Tue. 6 Apr. 2010	Austria	Long distance car access system for the HQ garage with UHF IPX technology
<u>RFID pallet tracking fort the Industrial Bags</u>	Initiative	Tue. 6 Apr. 2010	Austria	Mondi E&I Innovation had been tracking RFID enabled pallets over the past four years to allow real time track and trace at customer's premises to improve master planning and forecasting
<u>RFID on Railway wagons and vehicles</u>	Initiative	Sun. 14 Mar. 2010	Sweden	This is a project for RFID tagging of railway wagons with passive UHF technology.

Copyright© 2009 [Race Network RFID Legal](#)

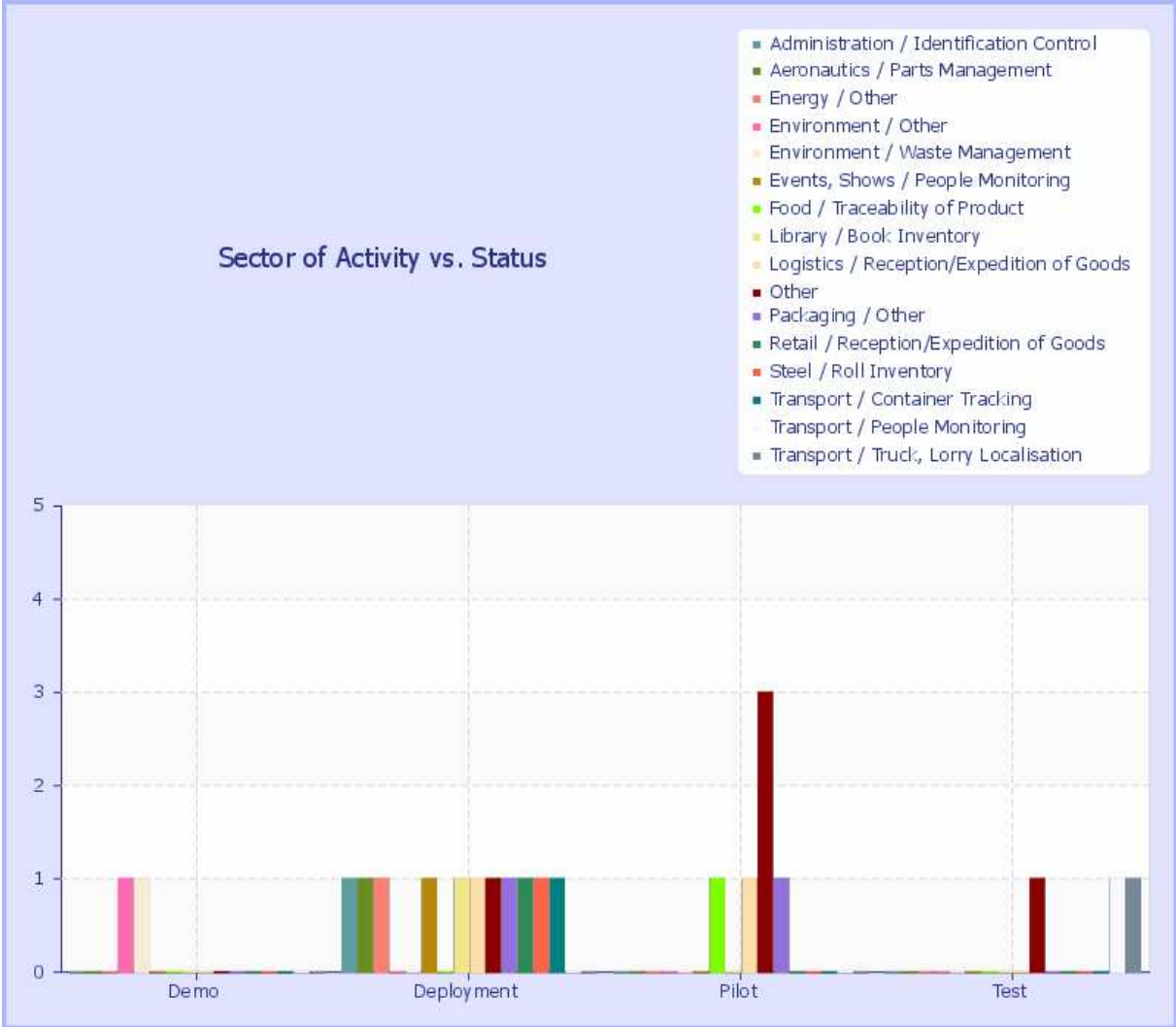
Application vs. Country



Application vs. Country

	Austria	France	Greece	Italy	Spain	Sweden	United Kingdom
Access Control	1	0	1	0	0	0	0
Asset Management	0	2	0	0	0	0	0
Flow Monitoring	0	0	1	0	0	0	0
Inventory	0	0	2	1	0	0	0
Other	0	0	0	1	0	2	0
Production Management	0	0	0	1	0	0	0
Real Time Location Systems	0	0	0	1	1	0	0
Stock Management	1	0	0	0	0	0	1
Traceability	2	2	0	0	1	1	0

Sector of activity vs. status of usecases



Sector of activity vs. status of usecases

	Demo	Deployment	Pilot	Test
Administration / Identification Control	0	1	0	0
Aeronautics / Parts Management	0	1	0	0
Energy / Other	0	1	0	0
Environment / Other	1	0	0	0
Environment / Waste Management	1	0	0	0
Events, Shows / People Monitoring	0	1	0	0
Food / Traceability of Product	0	0	1	0
Library / Book Inventory	0	1	0	0
Logistics / Reception/Expedition of Goods	0	1	1	0
Other	0	1	3	1
Packaging / Other	0	1	1	0
Retail / Reception/Expedition of Goods	0	1	0	0
Steel / Roll Inventory	0	1	0	0
Transport / Container Tracking	0	1	0	0
Transport / People Monitoring	0	0	0	1
Transport / Truck, Lorry Localisation	0	0	0	1

Acknowledgements

Many thanks to all the WP3 members for their time and effort into this Work Package

Laurent Gonzalez
WP3 Leader