



BRIDGE

**BUILDING RADIO FREQUENCY
IDENTIFICATION SOLUTIONS
FOR THE GLOBAL ENVIRONMENT**

is a three years RFID application research
and development project funded by
the European Commission



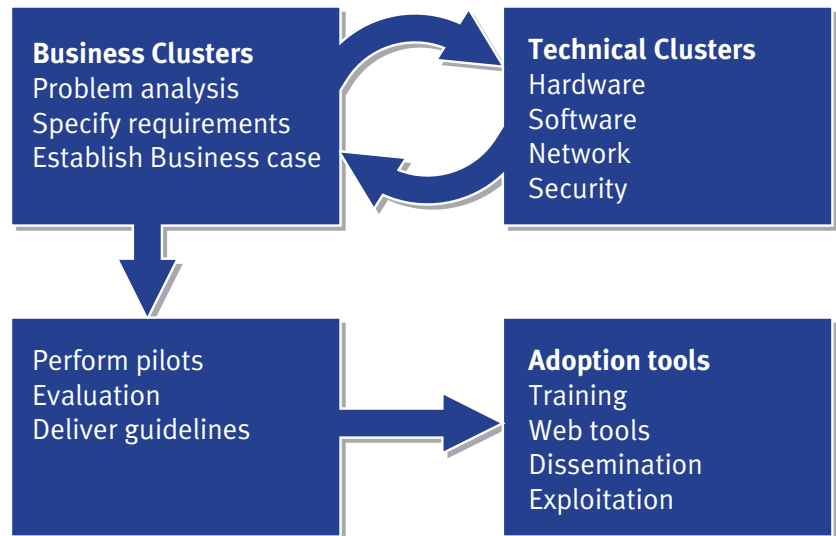


1. SCOPE

BRIDGE was developed in response to the call for projects released in May 2005 by the European Union Information Society Technologies (IST) under the specific programme “Integrating and strengthening the European research area” in the Community sixth framework programme (FP6).

2. PROJECT TYPE

BRIDGE is an Integrated Project addressing ways to resolve the barriers to the implementation of the EPCglobal Network in Europe. Integrated Projects (IPs) are ambitious, objective-driven with a programme approach. They involve industry (including SMEs), research institutions, and preferably potential users. The project comprises several chapters composed of working packages. The name of the project stands for “Building Radio frequency IDentification solutions for the Global Environment”. Its duration is 36 months, and it started in July 2006.



3. OBJECTIVE AND SCHEMATIC OVERVIEW

The objective of the BRIDGE project is to research, develop and implement tools to enable the deployment of RFID and EPCglobal Network applications. The project will develop easy-to-use technological solutions for the European business community including SMEs, ensuring a basis for collaborative EPCglobal systems for efficient, effective and secure supply chains.



4. PROJECT SUMMARY

The implementation of RFID and EPCglobal standard solutions is hindered by a number of technical, social and educational constraints. The objective of the BRIDGE project is to research, develop and implement tools to enable the deployment of EPCglobal applications in Europe. The BRIDGE project consists of a series of business oriented clusters, technical development clusters and horizontal activities.

4.1. Business Application work packages

The Business clusters will identify the business opportunities, analyse the requirements, establish the business case, map the requirements with the available technologies and standards, identify problem areas that should be researched. They will perform pilots and implementation, evaluate the results and issue application guidelines for using the technology in their particular business context. The business sectors addressed in BRIDGE are:

- Anti-counterfeiting
- Drug Pedigree
- Supply Chain Management European Textile industry
- Manufacturing process
- Reusable Asset Management
- Products in service
- Item level tagging

4.2. Hardware, Software, Network and Security

The technical development clusters will perform the research based on the needs expressed by the business clusters. They will address technical issues as well as organisational and policy issues. The result of their work will be provided to the business groups to enable pilots & implementations.

Hardware. The Hardware work package will develop solutions in the following areas: Sensor-enabled tags, Miniature tags, Metal and dielectric object tags, Low-cost readers, High read-rate antennas for readers, Ambient-intelligent RFID systems.

Serial-Level Lookup Service and **Serial-Level Supply Chain Control** work packages will develop software and network solutions to support the management of information related to items marked with RFID tags.

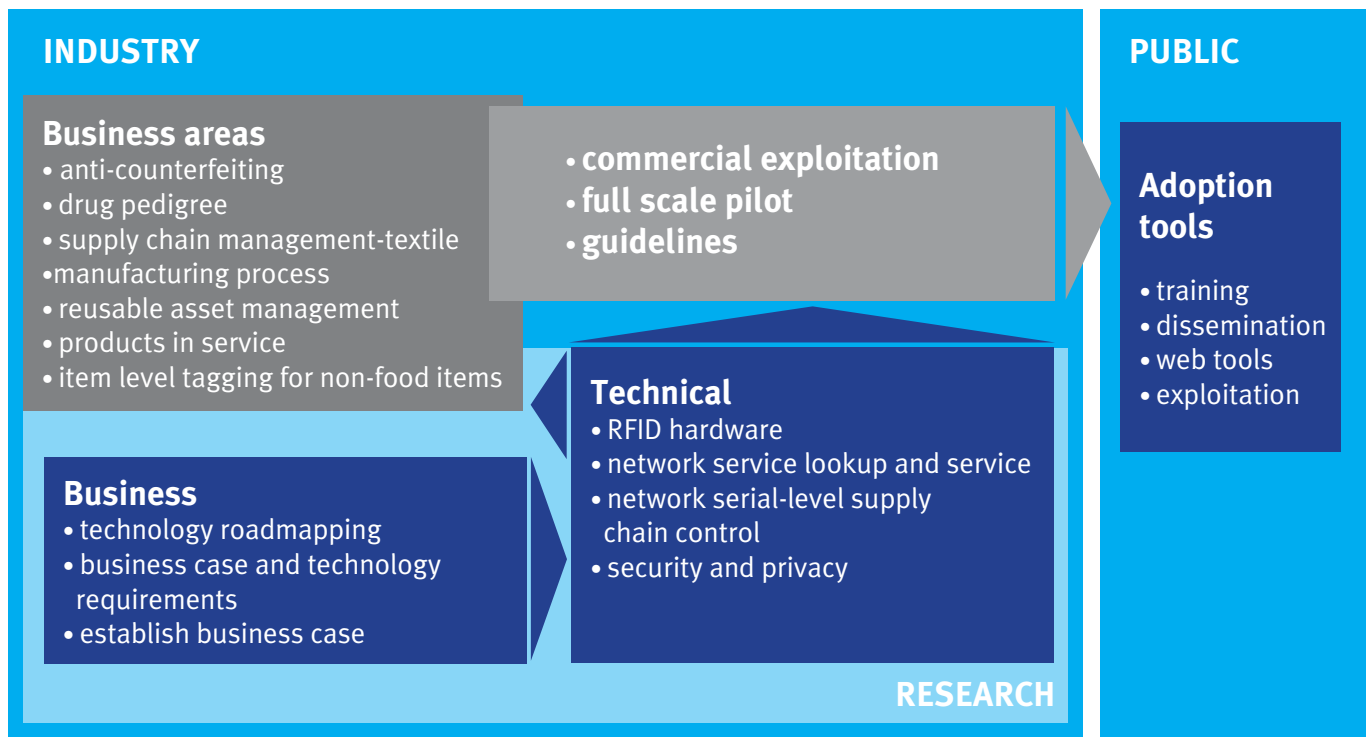
Security. A sophisticated Security work package will analyse the requirements and develop solutions in areas such as RFID Tag Security, Anti-cloning RFID Tag, RFID Trusted Network, Network Confidentiality, Data Integrity Preventing and Detecting False Information.

4.3. Training and Dissemination

The project comprises a comprehensive set of training activities aiming to educate a large number of parties on the RFID and EPC technologies but also on the specific results of the project itself.

The Dissemination and Adoption tools activities will deliver conceptual animations, a portable demonstration, studies on the economic impact and on the consumer impact of the technology as well as a web portal and a cycle of conferences.

The deliverables will be widely disseminated throughout Europe by the GS1 organisations whose membership is primarily composed of SMEs.



5. BRIDGE PARTNERS

The partners engaged in the BRIDGE consortium represent a good balance between GS1 organisations, Universities, Users and Solution providers. The partners include large corporations as well as small and medium size companies. GS1 Global Office is the project coordinator.

GS1

Global Office (Coordinator) • France • UK • Germany • Spain • Poland • China

Universities

Cambridge • ETH Zurich • Fudan • UPC Barcelona • TUG Graz

Users

Carrefour • Bénédicte • Kaufhof • Gardeur • Nestlé UK • Sony • El Corte Inglés

Solution Providers

BT • SAP • AIDA • Caen • Confidex • Cetecom • UPM Raflatac • Verisign UK • Melior • Unisys • Domino • JJ Associates



BRIDGE project web site: www.bridge-project.eu

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