Market Survey Questionnaire
Identification, Traceability and Digital Geolocation of Objects

1. **Purpose of the questionnaire**
2. **The questionnaire to be completed**
3. **Example of a completed questionnaire**

1) Purpose of the questionnaire

The French National RFID Centre (CNRFID) is leading a study to perform a comprehensive survey of applications in identification, traceability and geolocation, associated with the following six themes:

a. **Containers**: boxes, trays, and all other kinds of container
b. **Commodities**: materials that age and need monitoring (such as paint, carbon fibre, etc.)
c. **Industrial equipment**: test beds, industrial machinery, heavy lifting equipment (slings, jacks, etc.)
d. **Support equipment**: ground-based equipment (generators, steps, vehicles in the widest sense, etc.)
e. **Tools**: hand tools (for asset management, FOD, inventory, etc.) including tools subject to metrology
f. **Onboard Equipment**: equipment with certification, safety, maintenance or configuration requirements.

In this context, all identification and traceability technologies will be taken into account, with special focus on RF/contactless technologies, especially RFID.

Please complete one questionnaire per project theme, regardless of the Sector (such as Aeronautics, Space, Transport or Energy) in which you work, and for each of your projects covered by these themes.

Thank you for your help.

Results of the study: Following this study, only those aspects classed as "Public" will be disclosed to our members and to contributing parties.

2) The questionnaire

Market Survey Questionnaire Identification, Traceability and Digital Geolocation of Objects			
Your Company			
Company name			
Address			
Project contact person			
Surname		First name	
Landline		Mobile	
Email address			
Your project			
Confidentiality level	☐ Public (Distributed to all) ☐ Restricted (Distributed only to the ITGDO Programme group) ☐ Anonymous (Distributed anonymously) ☐ Confidential (Not distributed - only CNRFID knows the names)		
Project title or name			
Theme(s) covered	☐ Containers ☐ Commodities ☐ Industrial equipment ☐ Support equipment ☐ Tools ☐ Onboard equipment		
Project type	☐ **POC / pilot**	☐ Completed - date: ☐ Underway ☐ Future - date:	
	☐ **PROJECT**	☐ Pre-project underway ☐ In deployment ☐ Deployed - date:	
	☐ Internal project only ☐ Project involving suppliers and/or clients		
Project area(s)	☐ France ☐ Europe ☐ Other:		
Project aim(s) *10 lines maximum*			

Project requirement(s) *6 lines maximum*	
Project constraint(s) *6 lines maximum*	
Solution(s) implemented *6 lines maximum*	
Provider(s) used *6 lines maximum*	
Explanation / comments on the technical solutions adopted *6 lines maximum*	
Comments on operational experience / achievement of goals *10 lines maximum*	

Technologies used

Identification systems (Tags, etc.)	☐ 1D barcodes ☐ 2D barcodes ☐ RFID ☐ Other technology – please specify:	
	If RFID	☐ Active ☐ Passive ☐ Battery assisted
		☐ LF ☐ HF ☐ NFC ☐ UHF (frequencies?):

		☐ SHF	
	Special constraints	☐ Temp. ☐ Metal ☐ Vibrations ☐ ATEX ☐ Humidity ☐ Other – please specify:	
	Standards used	☐ ISO ☐ EPC ☐ IEEE 802.15.4	
	Data encoding	☐ Proprietary ☐ GS1 Standard ☐ Other(s) – please specify:	
	Project volume by type (Barcode, RFID, etc.)	☐ **1D barcodes**	☐ Q < 1000 ☐ 1000 < Q < 10000 ☐ Q >10000
		☐ **2D barcodes**	☐ Q < 1000 ☐ 1000 < Q < 10000 ☐ Q >10000
		☐ **RFID**	☐ Q < 1000 ☐ 1000 < Q < 10000 ☐ Q >10000
		☐ **Other technology**	☐ Q < 1000 ☐ 1000 < Q < 10000 ☐ Q >10000
Reader(s) Type, type of connection to IT system and number of reader points	☐ **Portable Reader**	**Connection type** ☐ Docking station ☐ Wi-Fi ☐ Bluetooth ☐ Ethernet ☐ GPRS ☐ Other(s) – please specify:	**Number** ☐ Q < 10 ☐ 10 < Q < 25 ☐ Q >25 ☐ or exact number:
	☐ **Fixed Reader**	**Connection type** ☐ Docking station ☐ Wi-Fi ☐ Bluetooth ☐ Ethernet ☐ GPRS ☐ Other(s) – please specify:	**Number** ☐ Q < 10 ☐ 10 < Q < 25 ☐ Q >25 ☐ or exact number:
	☐ **Gate System**	**Connection type** ☐ Docking station ☐ Wi-Fi ☐ Bluetooth ☐ Ethernet ☐ GPRS ☐ Other(s) – please specify:	**Number** ☐ Q < 10 ☐ 10 < Q < 25 ☐ Q >25 ☐ or exact number:

	☐ **Tunnel Scanner**	**Connection type** ☐ Docking station ☐ Wi-Fi ☐ Bluetooth ☐ Ethernet ☐ GPRS ☐ Other(s) – please specify:	**Number** ☐ Q < 10 ☐ 10 < Q < 25 ☐ Q >25 ☐ or exact number:
	☐ **Other reader(s) - please specify:**	**Connection type** ☐ Docking station ☐ Wi-Fi ☐ Bluetooth ☐ Ethernet ☐ GPRS ☐ Other(s) – please specify:	**Number** ☐ Q < 10 ☐ 10 < Q < 25 ☐ Q >25 ☐ or exact number:
Middleware/ ERP interface software	☐ In-house software ☐ Commercial ready-to-use software – please specify:		
ERP software / business application	☐ In-house software ☐ Commercial ready-to-use software – please specify:		

3) Example of a completed questionnaire

Market Survey Questionnaire Identification, Traceability and Digital Geolocation of Objects			
Your Company			
Company name	MY COMPANY		
Address	26000 VALENCE		
Project contact person			
Surname	BAELDE	First name	Guillaume
Landline	+33 (0)4 75 75 98 97	Mobile	+33 (0)6 42 22 09 89
Email address	gbaelde@centrenational-rfid.com		
Your project			
Confidentiality level	☐ Public (Distributed to all) ☒ Restricted (Distributed only to the ITGDO Programme group) ☐ Anonymous (Distributed anonymously) ☐ Confidential (Not distributed - only CNRFID knows the names)		
Project title or name	PIPE 1		
Theme(s) covered	☐ Containers ☐ Commodities ☐ Industrial equipment ☐ Support equipment ☒ Tools ☐ Onboard equipment		
Project type	☐ **POC / pilot**	☐ Completed - date: / / ☐ Underway ☐ Future - date: / /	
	☒ **PROJECT**	☐ Pre-project underway ☐ In deployment ☒ Deployed - date: 20/06/2014	
	☐ Internal project only ☒ Project involving suppliers and/or clients		
Project area(s)	☐ France ☐ Europe ☒ Other: Rest of world		
Project aim(s) *10 lines maximum*	- Monitor and Track steel borehole pipes throughout their life-cycle: manufacture, distribution, deployment, inspections, - Improve pipe management - Better Customer Service		

Project requirement(s) *6 lines maximum*	- Tags for Metal Supports - Unique identification - Non-visual remote detection - Multiple reading
Project constraint(s) *6 lines maximum*	- Harsh Environment - Temperature Resistance - Resistance to chemicals
Solution(s) implemented *6 lines maximum*	- Metal UHF tag inserted after machining the tube; resin embedding - Reading using a PDA IP68 portable terminal - Data dumping on a docking station in the Site Manager's office - Data exchange via satellite link
Provider(s) used *6 lines maximum*	- A single worldwide provider: Mybestcompany
Explanation / comments on the technical solutions adopted *6 lines maximum*	- The solution needed to be as robust as possible and operate in both on-line and off-line modes (with or without database connection). - The portable reader seemed to be the simplest and most reliable solution. Operating conditions did not allow for installation of a fixed reader with sufficient range.
Comments on operational experience / achievement of goals *10 lines maximum*	- The solution was well received by operating staff for whom it significantly reduced manual input tasks, thereby reducing input errors and facilitating monitoring of the installed tubes. - This improved the quality of monitoring and daily reporting which became automated.

Technologies used

Identification systems (Tags, etc.)	☐ 1D barcodes ☐ 2D barcodes ☒ RFID ☐ Other technology – please specify:	
	If RFID	☐ Active ☐ Passive ☐ Battery assisted
		☐ LF ☐ HF ☐ NFC ☒ UHF (frequencies?):

		☐ SHF	
	Special constraints	☐ Temp. ☒ Metal ☐ Vibrations ☒ ATEX ☒ Humidity ☐ Other – please specify:	
	Standards used	☒ ISO ☐ EPC ☐ IEEE 802.15.4	
	Data encoding	☒ Proprietary ☐ GS1 Standard ☐ Other(s) – please specify:	
	Project volume by type (Barcode, RFID, etc.)	☐ **1D barcodes**	☐ Q < 1000 ☐ 1000 < Q < 10000 ☐ Q >10000
		☐ **2D barcodes**	☐ Q < 1000 ☐ 1000 < Q < 10000 ☐ Q >10000
		☒ **RFID**	☐ Q < 1000 ☐ 1000 < Q < 10000 ☒ Q >10000
		☐ **Other technology**	☐ Q < 1000 ☐ 1000 < Q < 10000 ☐ Q >10000
Reader(s) Type, type of connection to IT system and number of reader points	☒ **Portable Reader**	**Connection type** ☒ Docking station ☐ Wi-Fi ☐ Bluetooth ☐ Ethernet ☐ GPRS ☒ Other(s) – please specify: Satellite.	**Number** ☐ Q < 10 ☐ 10 < Q < 25 ☐ Q >25 ☒ or exact number: 125
	☐ **Fixed Reader**	**Connection type** ☐ Docking station ☐ Wi-Fi ☐ Bluetooth ☐ Ethernet ☐ GPRS ☐ Other(s) – please specify:	**Number** ☐ Q < 10 ☐ 10 < Q < 25 ☐ Q >25 ☐ or exact number:
	☐ **Gate System**	**Connection type** ☐ Docking station ☐ Wi-Fi ☐ Bluetooth ☐ Ethernet ☐ GPRS ☐ Other(s) – please specify:	**Number** ☐ Q < 10 ☐ 10 < Q < 25 ☐ Q >25 ☐ or exact number:

	☐ **Tunnel Scanner**	**Connection type** ☐ Docking station ☐ Wi-Fi ☐ Bluetooth ☐ Ethernet ☐ GPRS ☐ Other(s) – please specify:	**Number** ☐ Q < 10 ☐ 10 < Q < 25 ☐ Q >25 ☐ or exact number:
	☐ **Other reader(s) - please specify:**	**Connection type** ☐ Docking station ☐ Wi-Fi ☐ Bluetooth ☐ Ethernet ☐ GPRS ☐ Other(s) – please specify:	**Number** ☐ Q < 10 ☐ 10 < Q < 25 ☐ Q >25 ☐ or exact number:
Middleware/ ERP interface software	☒ In-house software ☐ Commercial ready-to-use software – please specify:		
ERP software / business application	☐ In-house software ☒ Commercial ready-to-use software – please specify: SAPIPE		