



**Supply Chain Visibility and Optimization Symposium** 

La Gaude – September 16<sup>th</sup>, 2009



# Agenda



# **Carrefour group**

**IT Governance/ Innovation team** 

The RFID program project overview

**Next steps** 

# **The Carrefour Group today**



## Our ambition: "Be the preferred retailer"

- No.1 mass retailer in Europe and No. 2 worldwide
- Over 495 000 employees
- ▶ 17.911 million sq. m. of sales area (including franchisees)
- Above 3 billion checkout transactions per year





as of 12/31/2008 \* as of March 2009

### Three levers



Client-oriented culture

**Transformation** 

**Innovation** 



Know our customers better to provide them with better service



Gain in agility, quality of execution and competitiveness



Regain initiative and leadership



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#### «Twist and Shake Ideas»



Seek, find and Innovation Team s using new technologies to sur IT competency centres, in line with the corporate strategy and operational needs.

**Monitor Retail market** 

**Observe new technology** 

Collect and reuse internal initiatives from the countries

Propose and develop new services

Reengineer business processes

Set up proof of concept to assess the innovation in real situation

Support business units to deploy

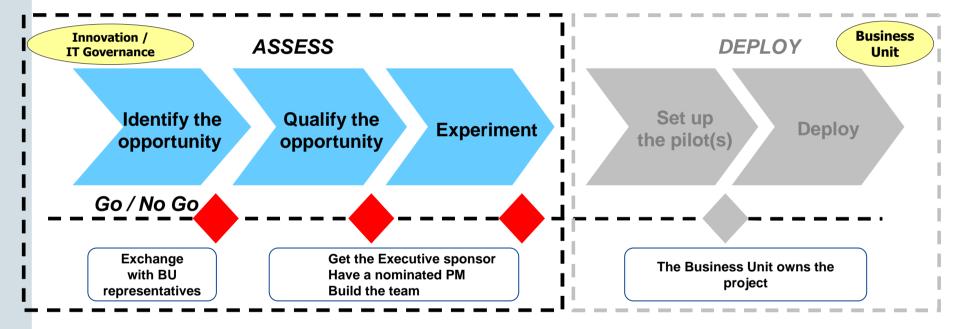
**Communicate** 

# **Approach / Methodology**

### **Innovation Team**



#### A five step approach



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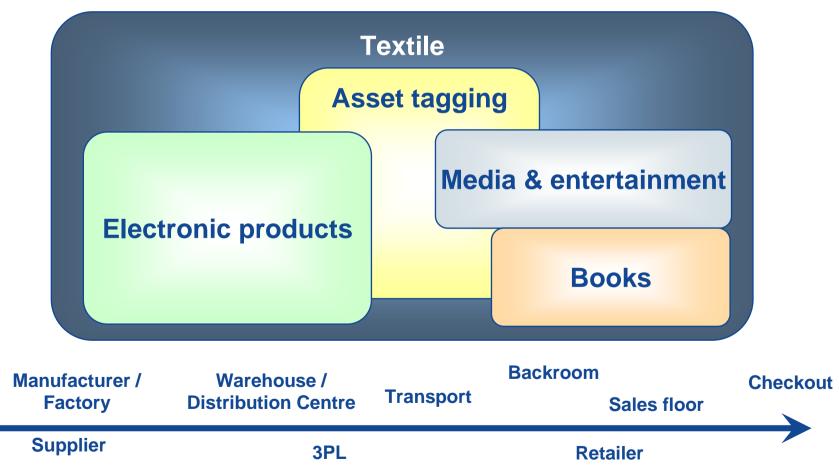
**Next steps** 

### The RFID programme



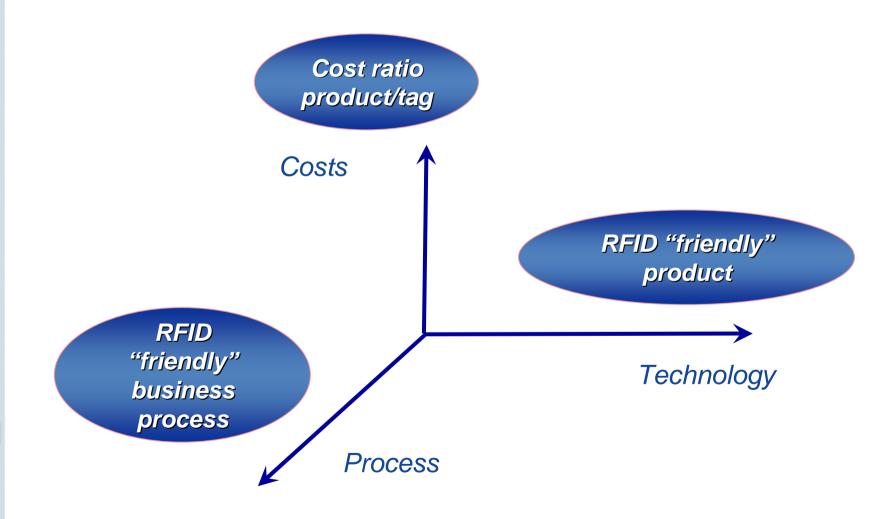
Five complementary projects with the same objective:

Understand <u>by experiment</u>, the business benefits of using RFID technology within our supply chain



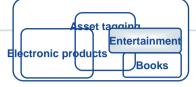
### **Product selection matrix for RFID use**



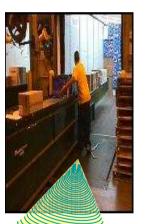


# **Processes with RFID (Media & Entertainment)**





Shipping Warehouse



Backroom



**Store** 



Sales area



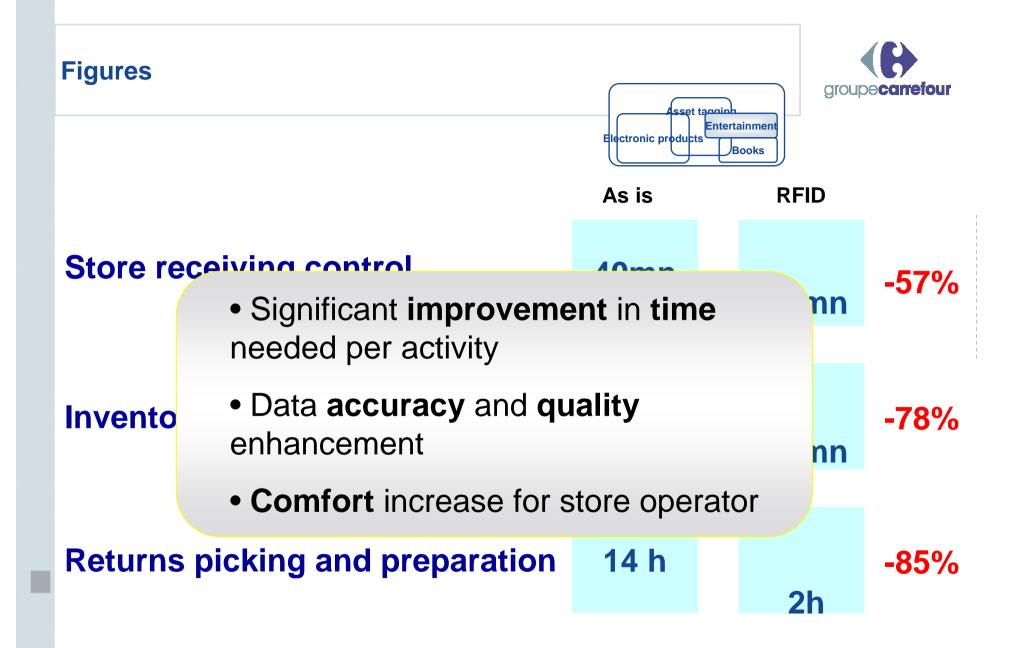
Warehouse

1. Control of cases / pallets sent to the store

- 2. Receiving control
- 3. Inventory control
- 4. Returns management

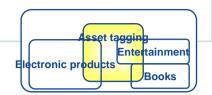
5. Control of cases / pallets sent by the store

Item and case tagging



### **Pilot objectives**





### **Business objectives include:**

- Improve pallet track and trace
- Automate/simplify the receiving, shipping and inventory processes
- Test EPCglobal concepts under business requirements and real conditions
- Assess plastic pallet usage
- Build the business case

### **Technical objectives:**

- Evaluate the best tagging solution for a pallet
- Understand the UHF technology usages and constraints in real environment
- Analyse the model to share information with partners and the impact on actual information systems

# **Pilot scope** Carrefour ( Entertainment Electronic products KUEHNE+NAGEL Receiving Shipping **Suppliers Distribution Centre Stores** Groceries Hypermarkets

# **RFID Pallet implementation**

# groupe**carrefour**

### **LPR**

Wood pallet

### **SmartFlow Pooling**

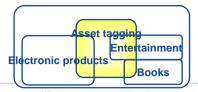
Plastic pallet





# **Rotation count by pallet type**

Rotation count





From June to end of August

Rotation count	Total support plastique	
1	45	
2	68	
3	74	
4	80	
5	47 25 14 1	
6		
7		
8		
Total = 1214	-	

Rotation counter 3	Total support bois
1	70
2	61
3	86
4	120
5	75
6	32
7	17
8	7

**Full project** 

	Rotation count	total support plastique			
	1	40 40			
	2				
	3	60			
	4	80			
	5	56			
	6	44			
	7	25			
	8	8 8			
	9	1			
•	Total = 1412				

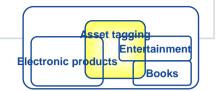
total support plastique

two different wood pools

Rotation count	Total support bois		
1	98		
2	118		
3	227		
4	299		
5	164		
6	72		
7	34		
8	12		
9	2		
11	1		
Total = 3826			

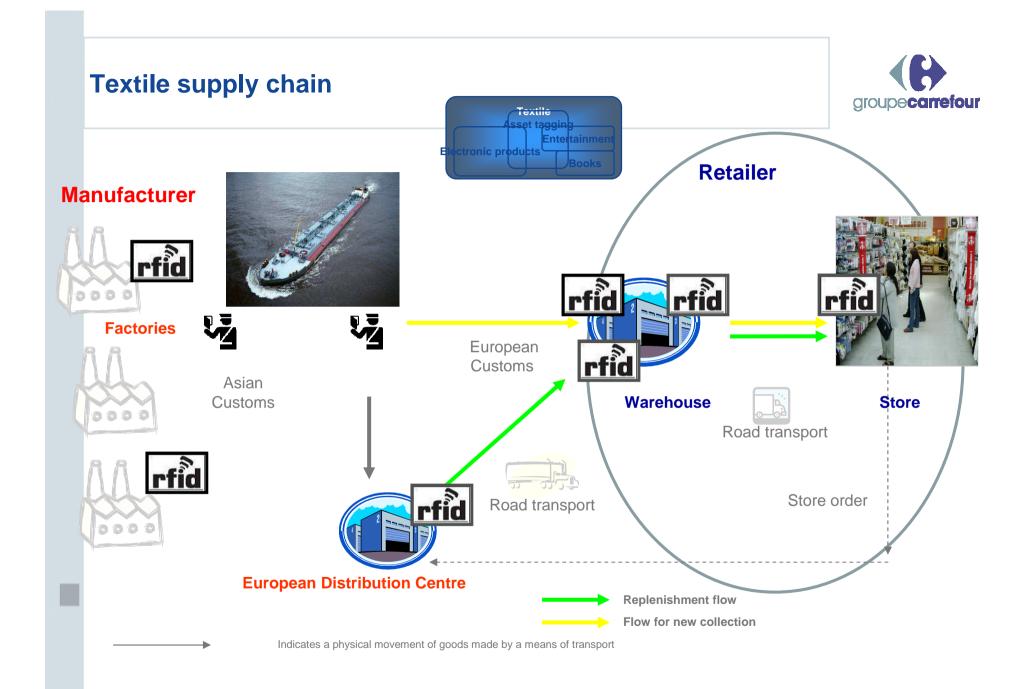
# **Figures**

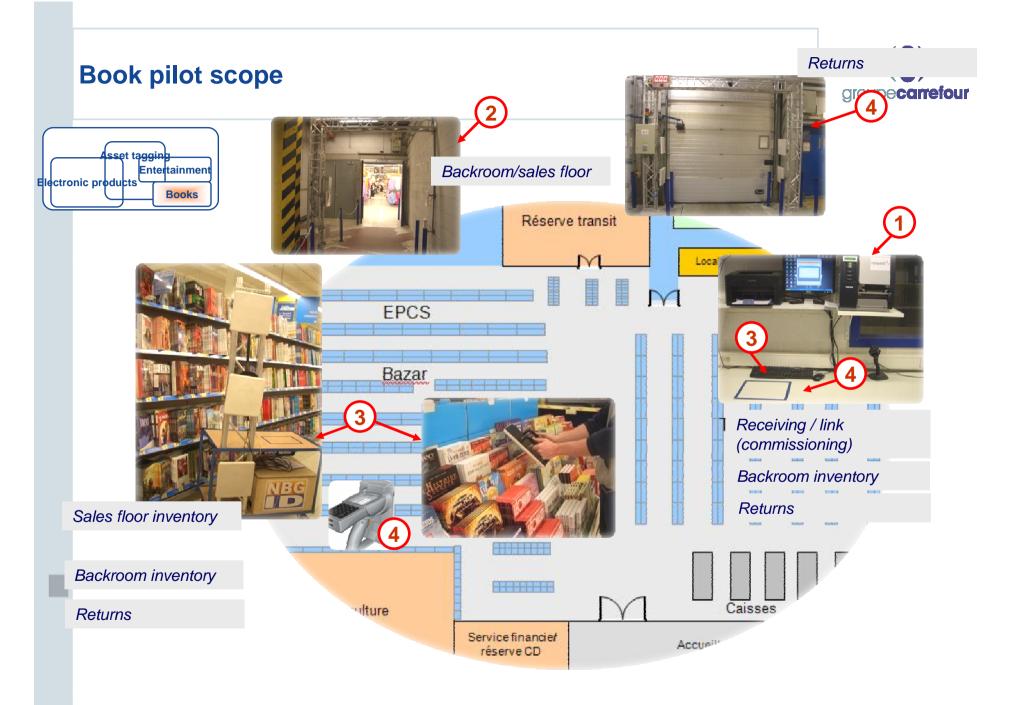




# **Anticipated benefits**

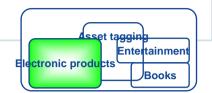
	Without RFID	With RFID
Loading time at DC	X min	Improvement from 15 to 25%
Receiving time at store	Y min	Improvement from 10 to 15%





### **PAC ID "Grande Distribution" project**





Develop logistics scenario using RFID SCS cluster

Work with SMEs

Prepare and build network applications

Partnership between academic research, solution providers and users

Members include STMicroelectronics, IBM, Orange, Malongo and Carrefour





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## **Privacy**



# EU RFID consultations (2006, 2008) EU RFID recommendation (May 2009) Next steps

- Privacy Impact Assessment (PIA) Framework
- Logo/Sign
- Deactivation means
- Consumer awareness

### **Drivers**



### **Business**

- Inventory management
- Reverse logistics
- ▶ IT Data quality
- Supplier collaboration
- Asset management
- Opportunity for improving the customer relationship

## **Strategy**



Food/non-food
Tagging level
Product priority

New anti-theft feature

**Collaboration with targeted suppliers** 

**Facilitation by GS1** 

# The example of textile





### **Call for action**



# Be prepared to implement source tagging with our suppliers

# Thank you



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Innovation / IT Governance Information Systems Group