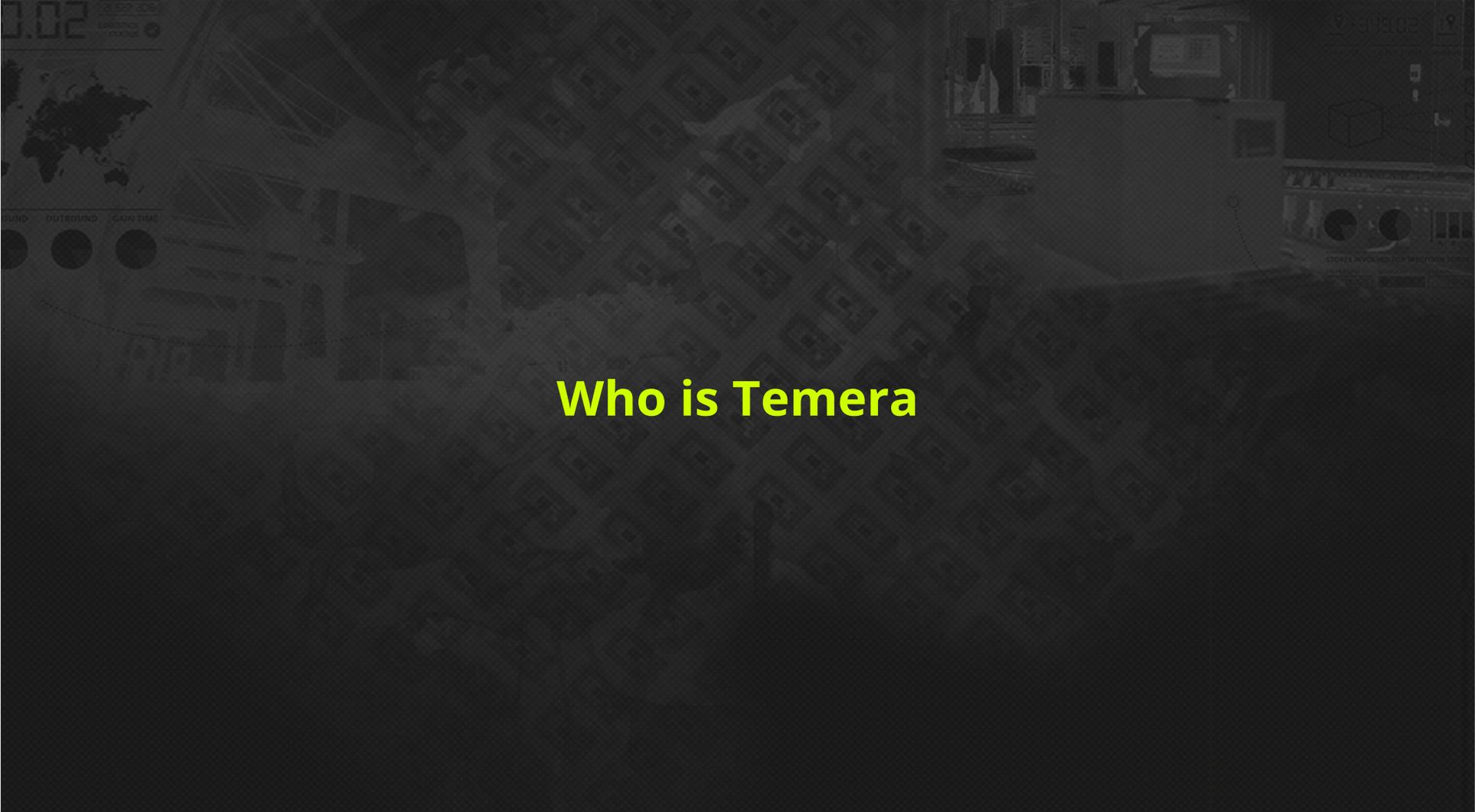




## **RFID RAIN 2019**

The RFID Technology, a tremendous enabler for Fashion



# Who is Temera

Temera, Smartrac and Lab ID join forces to enhance IoT  
impact on the High Fashion and Luxury markets

**temera**

**SMARTRAC**

**LAB)))ID**

# TEMERA Smartrac and Lab-Id Global Footprint

## TEMERA Directs Locations

Firenze (HQ)

Bologna

Milano

London

Stuttgart

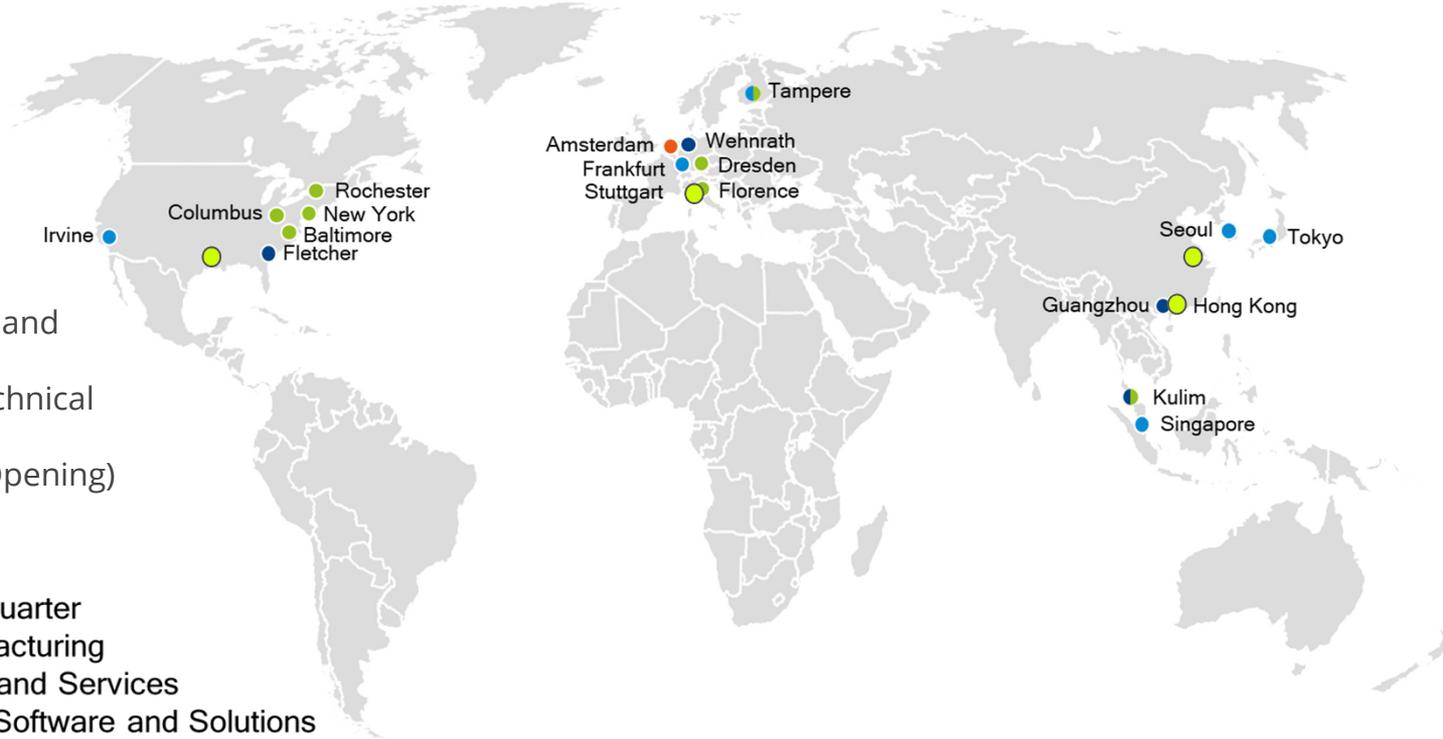
New York

San Marcos USA ( PM, Delivery and  
Technical Office)

Shanghai (Pm, Delivery and Technical  
Office)

Hong Kong (Sales Office next Opening)

- Headquarter
- Manufacturing
- Sales and Services
- R&D, Software and Solutions



# Temera: Delivering RFID since 2009

Clients: 1  
Y/Income: 90K €  
Team peoples: 2



Clients: ~5  
Y/Income: 1.3M €  
Team peoples: 12



Clients: ~30  
Y/Income: 3.8M €  
Team peoples: 25



## SMARTRAC

Clients: ~40  
Y/Income: 6.5M €  
Team peoples: 45



Clients nr: ~70  
Y/Income: 13.5M € (2018)  
Team peoples 2019: 95  
New Headquarters



Since 2009 FOCUSED in delivering RFID for FASHION & LUXURY Market

2009

2011

2013

2016

2019

# TEMERA, In Fashion and Luxury Market





# Standard RFID Applications for F&L Market

# The RFID Key Values in the Luxury market



## MANUFACTURING

PRODUCTION  
PROGRESS

QUALITY CONTROL

ANTI-COUNTERFEITING



## LOGISTICS

PROCESS OPTIMIZATION  
INBOUND/OUTBOUND

MANAGEMENT WORK PEAKS

INVENTORY VISIBILITY

GREY MARKET

TRACEABILITY SUPPLY CHAIN



## STORE

COSTS REDUCTIONS

STOCK VISIBILITY

SELLER ASSISTANT

SALES UPLIFT



## CUSTOMER EXPERIENCE

MAGIC MIRROR

DIGITAL WARRANTY

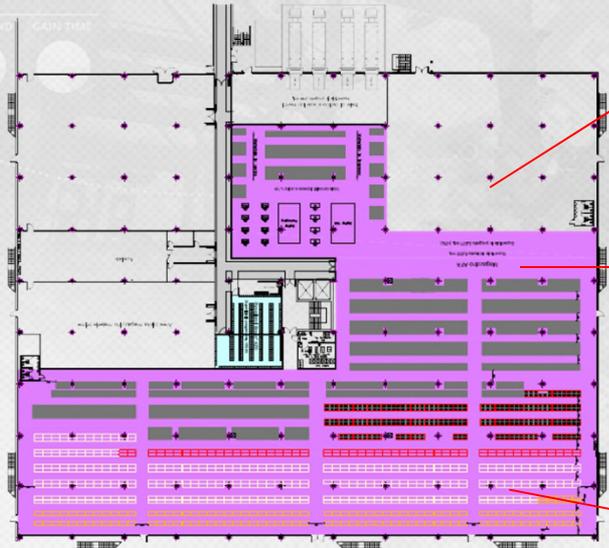
FITTING ROOM



# Production & Logistic Applications

1. Anti Counterfeiting
2. Grey market control
3. Quality Control
4. Automatic Inbound
5. Automatic Outbound

# Warehouse logistic flow - OUTBOUND



PICKING



OUTBOUND  
(WITH RFID SYSTEM)



TRUCK LOAD



*Enhance standard WMS capabilities*

# Retail Operation

1. Automatic Inbound
2. Store to store
3. Sales & Return management
4. Seller assistant
5. Antitheft system
6. Inventory
7. RTLS

# 01 Inbound and Anti-theft

## IMPACT

- The store operator scans the incoming products to the store warehouse through a PDA or a fixed workstation, verifying the consistency between physical and theoretical
- The operator does not have to apply the anti-shoplifting hard tag because the RFID label also performs this function

## BENEFIT

- Dramatic reduction of time devoted to the activity of receiving goods: from tens of minutes to seconds



**ABOUT 4H SAVED  
PER STORE PER WEEK**

## 02 Inventory

---

### IMPACT

- An accurate inventory of variant / size can be done in less than 30 minutes
- The same can be done to verify the stock with the affiliates

### BENEFIT

- Inventories much more frequent and much more precise



**OBJECTIVE: GREATER  
PRECISION UP TO 99%**

## 03 Outbound (Store-to-Store)

---

### IMPACT

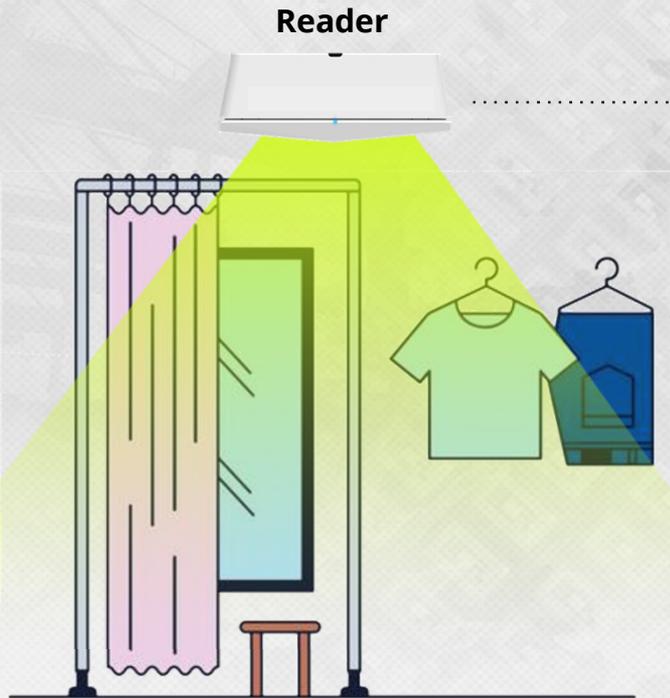
- Automatic creation of the shipping list with scanning the actual products through a PDA
- Verifying the consistency between physical and theoretical at the receiving

### BENEFIT

- Better Store-To-Store product accuracy



**OBJECTIVE: REDUCTION ON THE  
NUMBER OF STORE TO STORE  
OPERATIONS**



*Better Insight on success rate for SKU*

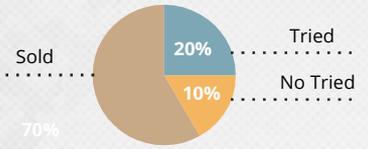
# Fitting Room

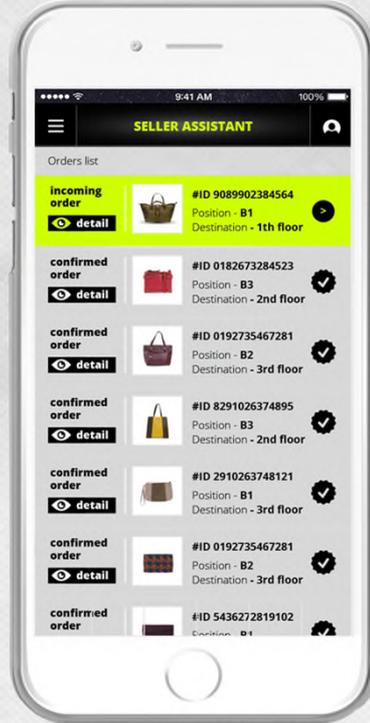
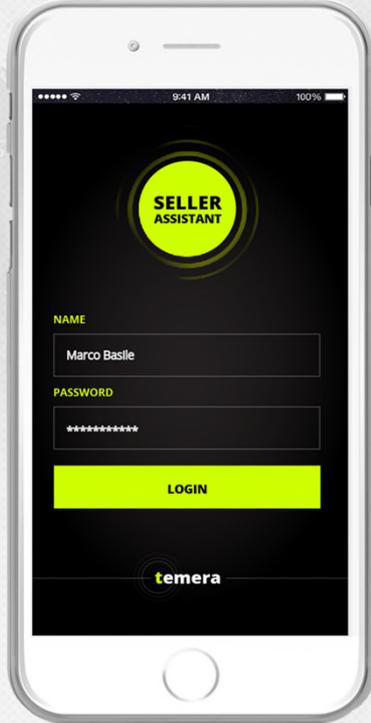
## Movement - Fitting room

ITEMS - A	0	0	1
ITEMS - B	0	0	1

1st ROI between  
tried and sold

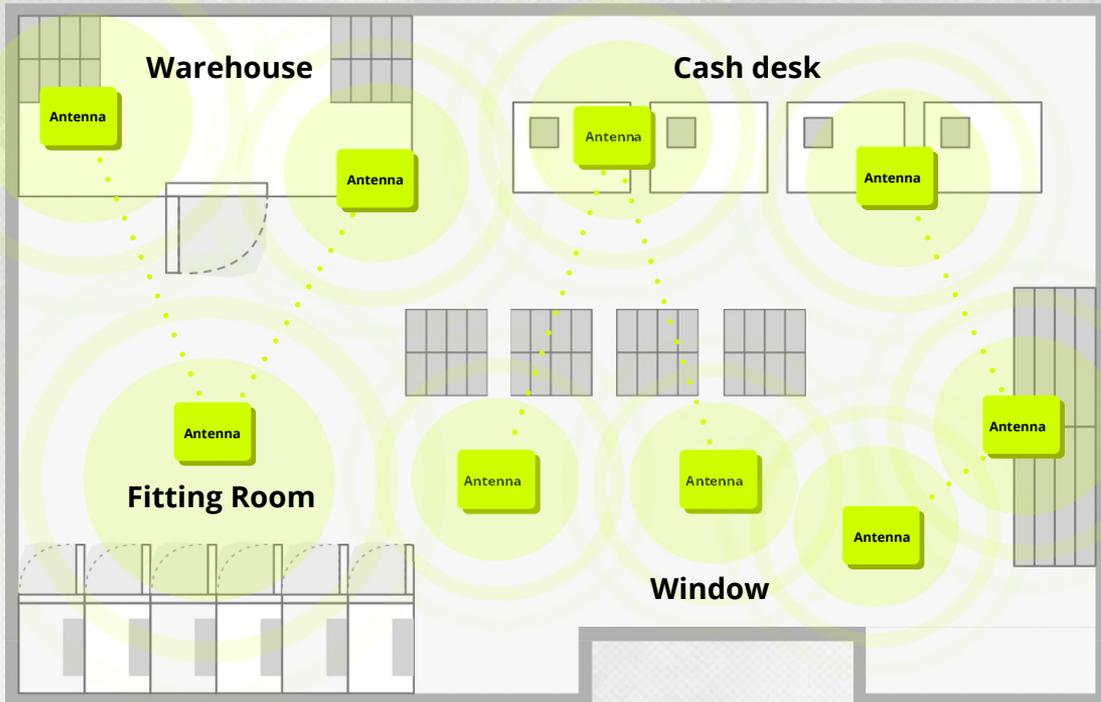
2nd ROI between  
tried and sold +  
people entered in  
the store





# The Seller Assistant

The seller assistant is one of the applications that "downloads" the benefits of an implementation of RFID technology, leveraging the availability of a constantly updated stock, made possible by the frequent inventories that can be done in a store.



# RTLS

Real Time Location System

- *Real time Inventory*
- *Real Time Movement*

*Locate your time anywhere and in any moment*



# New keywords for RFID

# End-User Traceability and 360° integration

Society is **evolving**, IoT is now **IoE**  
Millennials are always **connected, informed, influenced**

People wants to know what they are buying and if it is  
**sustainable**

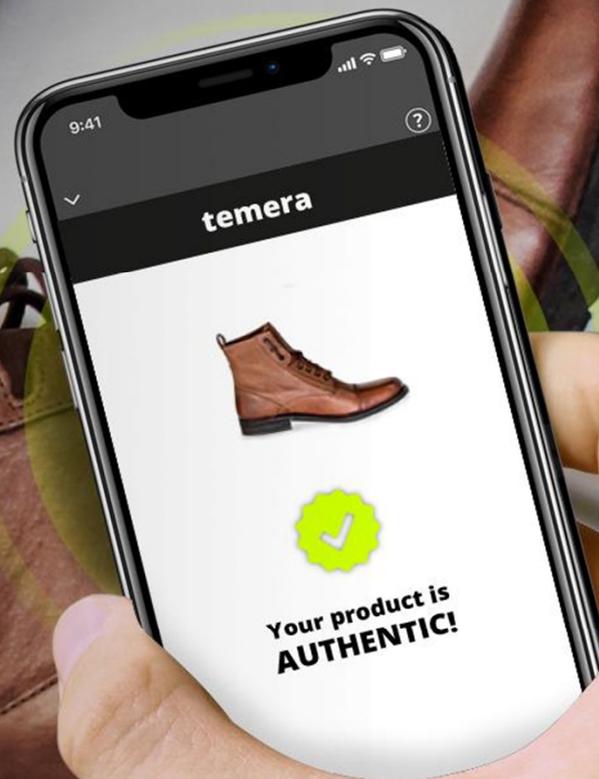
# End-To-End traceability and 360° integration

Global traceability between production to end-user



## End-User verification

Customer can autonomously verify  
the authenticity of products.  
Strong fidelization messages



# RFID in Retail

## from Retail operation to realtime stock and Omnichannel

### Retail Operation

- Automatic receiving
- Store-to-Store
- anti theft
- inventory



### Realtime stock

- Common stock
- effective replenishment
- Customer Satisfaction
- Fidelization

Customer wants to be **unique** and buy **unique** products

The number of seasons per year increased considerably in the last years

Nowaday it is fundamental to have the right product in the right moment and know where customer can find it

# Inventory challenges & improvement possibilities



- The ROI model for RFID is relatively mature and these figures are taken from multiple deployments in many different retailing sectors
- A project can normally return a significant ROI from one of these metrics, not all are required
- The overall aim is simple: Earn more for doing Less.

# Why Retail Market is evolving

## MARKET EVOLUTION AND CUSTOMERS EXPECTATIONS

- Increasing number of seasons per year and increasing number of SKU, but decreasing n. of pieces per SKU.
- Increasing worldwide number of stores
- Increasing **Competition** (Including Fast Fashion brands)
- Increasing Customer **Expectations - Check availability by CustomerCare or WebSite and collect in Store**
- **Customer looking for specific SKUs in store**
- **Ever-evolving Technology**

## COMPANY ORGANIZATION

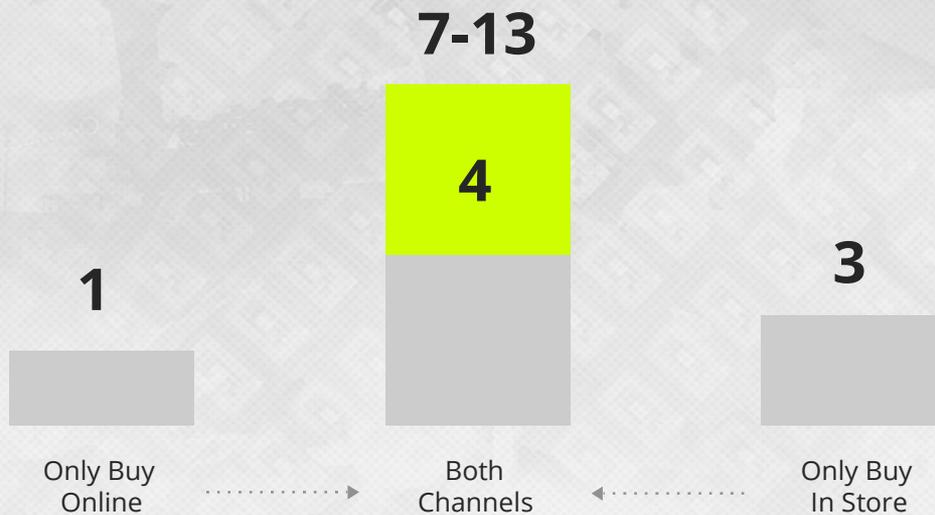
- Small stock availability for each store
- Increasing number of shipments from MainWH
- Increasing the importance to certificate the shipments
- Increasing number of transfer Store2Store

It's not possible to reserve the item in the stock of the store because the stocks are shared.

**MANUFACTURING,WH, REGIONAL WH, STORE OR ECOMMERCE, CUSTOMER**

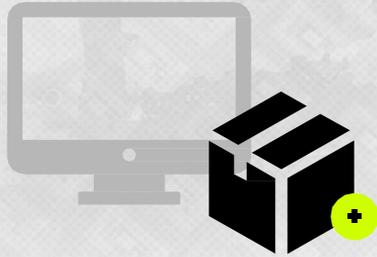
## Use Case

# Different channels playing a different role in a bigger game



# Use Case

## Experiences with in-store returns of online purchases



**45%**

Made an additional purchase  
when processing a return  
on a website



**70%**

Made an additional purchase  
when returning in store



# RFID TAG history and r/evolution

# UHF

## Single embedded TAG or dua/multiple TAG per product

### Item tracking

### Integration in Production

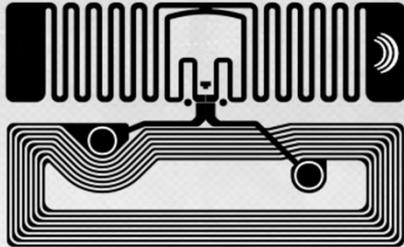
- Anti Counterfeiting
- Grey market control
- Quality Control

### Logistic process Optimization

- Automatic Inbound
- Automatic Outbound



# UHF+NFC



**Single TAG combining UHF with NFC technology for customer engagement (limited to Android devices)**



Introduced even before the rumors about iOS enabling NFC (low penetration in fashion&luxury market)  
Not optimal for logistic process (dual TAG)

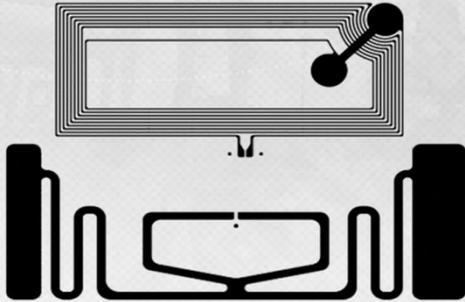
# Dual TAG

2017 Apple introduce first compatibility with NFC technology for iOS devices

This finally enabled NFC technology for Fashion&Luxury market

Better performance  
Better integration into garments  
More freedom in NFC/UHF selection

Additional application for end-user authenticity verification and customer engagement



# RFID for brand protection

The cost of counterfeiting for the global apparel industry is estimated to \$ 1.8 triloni - According to a recent study, the counterfeiting good represents the 10% of the global market

## Wine & spirit Market use case:

- **Mediterranean (East):** 56.2%.
- **South-East Asia:** 69%.
- **Russia:** 35-50%.

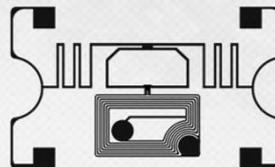
The market for counterfeit whiskey in Russia is estimated to be 166 million euros.

- According to the International Center for Alcohol Policies, **30% of alcohol consumed Worldwide is illicit** and experts from Wine Spectator estimate that **20% of the wine Consumed worldwide is counterfeit.**

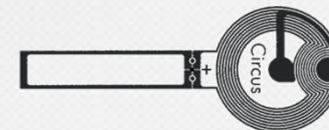
## Rolling codes TAGs



## Multifrequency TAGs



## Tamper TAGs





Headquarter

**Florence**

Via di Pianvallico, 5  
50129, Scarperia - IT



Office

**Milan**

Via Vittor Pisani, 20  
20144 - IT



Office

**London**

242-246 Marylebone Road  
NW1 6JQ



Office

**New York**

377 Park Ave S, New York,  
NY 10016 - US

Tel: +39 055 53.92.960 - Fax: +39 055 53.92.959

[www.temera.it](http://www.temera.it)