RFID USAGE
IN LOGISTICS & DISTRIBUTION

Focus on Aeronautic & Space Industry

Presentation of the CNRFID
RFID introduction
Use Case: ITGDO project

The CNRFID was established in 2008, and is co funded by:
The French government
Our members
Our services

Objective
Encourage networking and the deployment of innovative, smart contactless solutions (RFID, NFC), by bringing together solution providers, users, research bodies and institutions

Independence, confidentiality, transparency and neutrality
Our association is a non profit organization and is independent

Our Mission

Support the development of contactless solutions

Contribute to **standardisation**, and to legal and regulatory developments

Promote the **development of strategic and operational synergies** between our members on a national, European and international level

Train and inform contactless solution users/providers

DEFINITION

- **RFID technology** (Radio Frequency IDentification) enables data to be read remotely from an electronic chip with an antenna.

- RFID tags, fitted to items, livestock or documents can be used for identification and tracking.

RFID

NFC

- **NFC** (Near Field Communication) is a short-range RFID technology that give two compatible devices intuitive mutual access to their content or services.

- NFC usage is related to user mobility: paperless exchanges, access control or secure payment services.

- NFC applications are often used in mobile devices such as smartphones, tablets and cameras.

WHEN RFID CAN BE USED ?

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⦿ Remote reading capabilities

- Touch 'n Go at several metres' range with passive RFID (> 100m with active RFID)
- It makes more sense to talk about reading volume than distance!

⦿ No visibility required

- Uses electromagnetic waves
- Can be used in different environments (metal, water, etc.)

⦿ Simultaneous reading operations

- Up to 100 tags per sec. (depending on protocol)
- Protocol should be tailored to application (e.g. contactless travel card or goods loading bay)

OTHER BENEFITS

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- **Memory rewrite**
  - The tag logs events
  - No need for network connection to get product information

- **Long UII**
  - N bits: 2^N possibilities
  - Each item is unique

- **Customised packaging**
  - No need for visibility
  - Tag included in the product
  - Protected from external hazards

- **Device connections**
  - Active or BAP tags

RFID MARKETS

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High-potential sectors

Aeronautics

Automotive

Retail

Manufacturing

Logistics

Luxury Goods

Healthcare

Textiles

Sectors with currently operational solutions
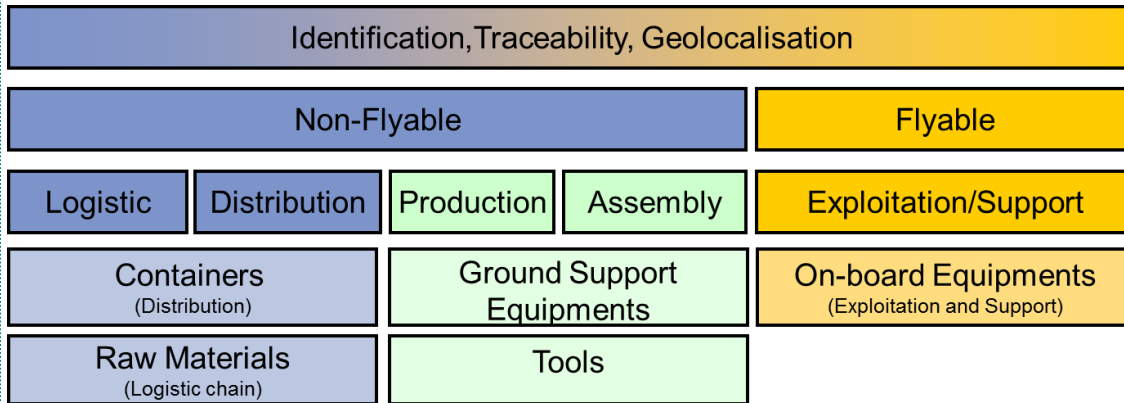

Libraries

Laundries

Toll Roads

Ticketing

ITGDO USE CASE

- Track & trace containers
- Track time-limited materials such as composites (storage at -18° C + location)
- Track, trace and localise industrial means
- Track & trace tools, usage of smart cabinets/drawers
- Track & trace on-board equipment