How RFID technologies unlock the value in
healthcare

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At **Murata ID Solutions** we know how to create real value in healthcare through RFID

RFID helps pharmaceutical companies and hospitals to optimize the supply chain, improve services, cut costs, increase sales and eliminate healthcare risks.

The technology offers a simple-to-use and efficient system for tracking and managing pharmaceutical products, assets, medical tools and equipment, patients and staff.

It prevents loss, enables quick identification and location, enhances security, and maximizes efficiency and emergency response.

Moreover it can help prevent anti-counterfeiting and grey market control of products and assets.

The deployment of RFID in the hospital:

RFID data can be used in all departments of a hospital for efficient, real-time, and accurate tracking of products, assets, documents and even patients.

- **Real-time asset location and findings** saving time and costs.
- **Accurate and real-time traceability of medical devices** for increased security and efficiency, management control and reduciton of waste.
- **Accurate staff and patient location.**
- **Security enhancement** by restricting access to equipment, medication, or information
- **Increased asset and equipment availability** improving the emergency response time. and reducing losses and misplacements.
- **Preventing misidentification** of substances and equipment.
- **Linking products and procedures to patients** increasing safety and reducing errors in treatment and drug administration.
- **Accurate real-time inventories of equipment and consumables**.
- **Vendor managed inventory** and continuous replenishment – with RFID the vendor can accurately monitor the customer's stock levels and replenish solely when necessary, thus trimming stock levels and costs.

RFID Technology generates value throughout the entire supply chain:

In the pharmaceutical industry RFID is particularly useful for end-to-end supply chain visibility and traceability, to combat counterfeited products and control the grey market.

Operations & industry 4.0

RFID connects components, processes and machines providing automated identification of the objects and real-time identification of the entire production cycle.

- **Ingredients and packaging flow control**
- **Logistic accuracy and productivity**
- **Production visibility and optimization** - any irregularities, errors or setbacks in the production can be identified immediately improving the production rate, efficiency, and safety.

Supply chain optimization

Fast and accurate real-time readings and content check enables:

- **End-to-end real-time supply chain visibility and traceability** of products, packages, and/or shipping units
- **Increased inventory accuracy** through frequent counts
- **Drastic reduction in operational and logistics errors**
- **Cold Chain management** by monitoring the temperature of products during their distribution, ensuring that they are transported and stored within a certain temperature range.

Brand protection

Thanks to the chip uniqueness, the high-grade security features, real-time alerts, and ability to store a large amount of unclonable data, RFID tags represent a key weapon in the fight against fraud:
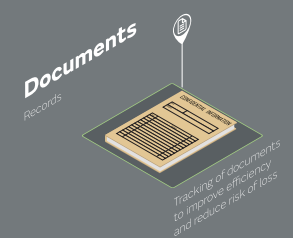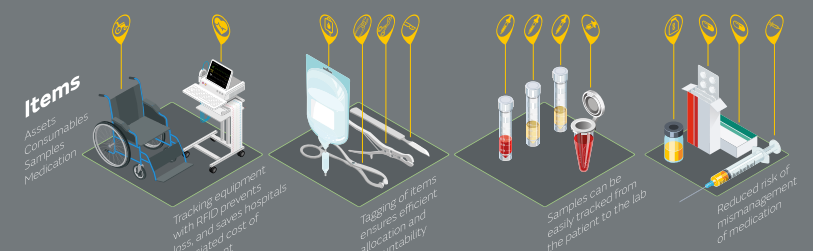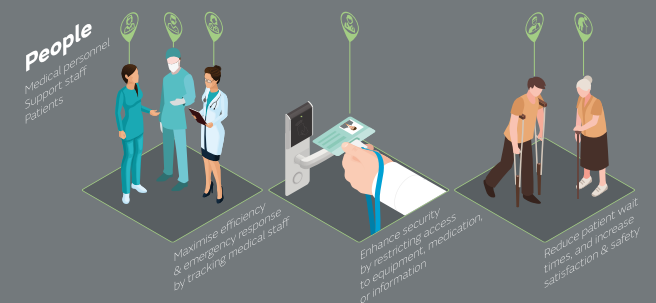
- **Authentication of medicines and medical devices** for increased quality and safety
- **Combat counterfeited goods** with instant authenticity identification
- **Grey market control** thanks to improved product traceability

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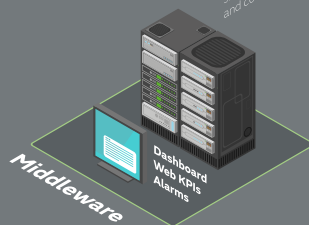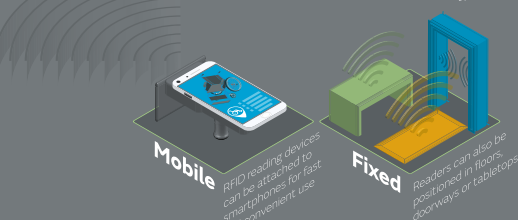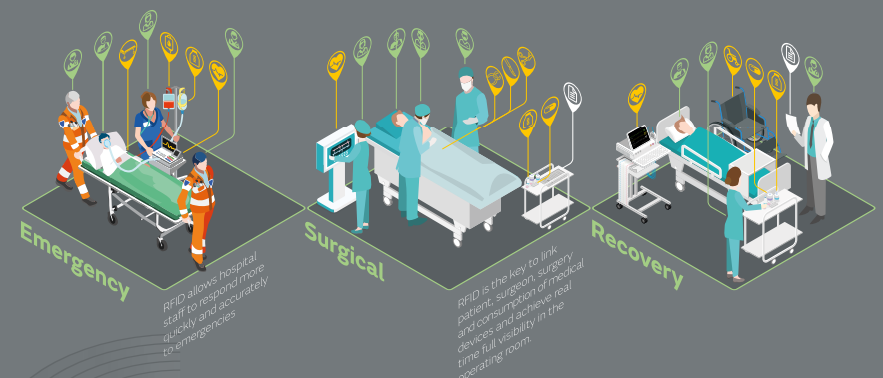INNOVATOR IN ELECTRONICS

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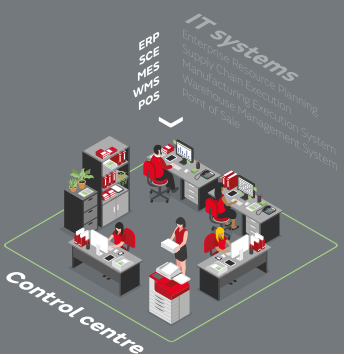SUITE 4.0
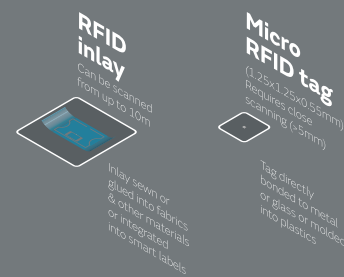
RFID in healthcare

RFID tags can identify & track healthcare assets...

...wherever they may be...

...using scanners to collect data...

...that can be used to increase efficiency, enhance safety & reduce risk

About Murata

Murata is a global leader in the design, manufacture and supply of advanced electronic materials, leading-edge electronic components and multi-functional, high-density modules. Murata innovations can be found in a wide range of applications from mobile phones to home appliances, and automotive applications to energy management systems and healthcare devices.

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Murata ID Solutions
Via G. Di Vittorio, 46
43044 - Lemignano di Collecchio (PR) Italy
P.IVA IT02334000342

Tel: +39 0521 831205
email: info@id-solutions.it

go.murata.com/eu-rfid