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9 - 10 December 2020



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UHF RFID in Healthcare

*Transforming Vaccine and Pharmaceutical
Fridges with UHF RFID into Smart and Secure
Asset Cabinets*

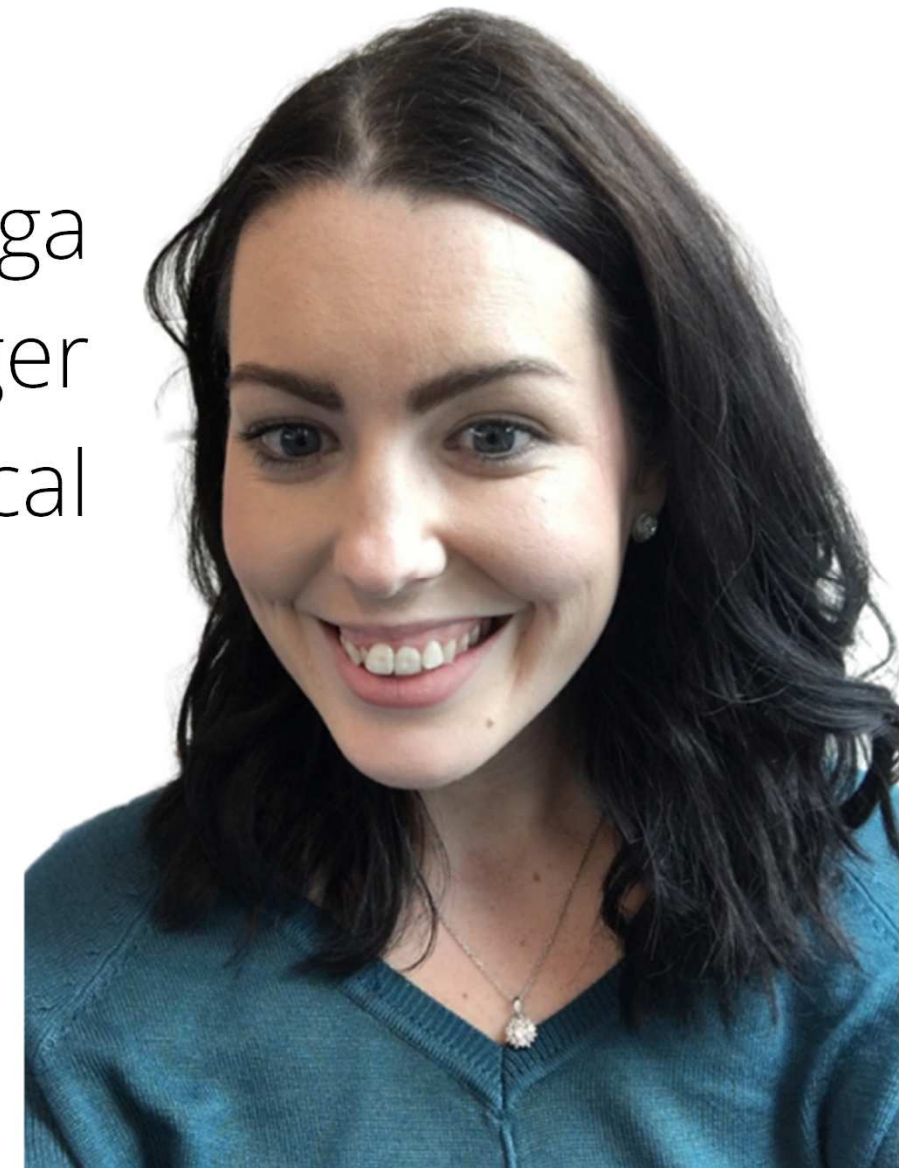


Meet the Speakers



Giuliana Gilges Richards
Sales and Marketing Manager
Times-7

Ashlea Bitanga
General Manager
Rollex Medical





- **Specialist UHF RFID Reader Antenna Manufacturer**
- **Largest RAIN RFID Reader antenna portfolio**
- **World-wide Distribution and SI Network**
- **Only NZ based RAIN Alliance member**
- **Headquartered in New Zealand**
- **Since 2006**

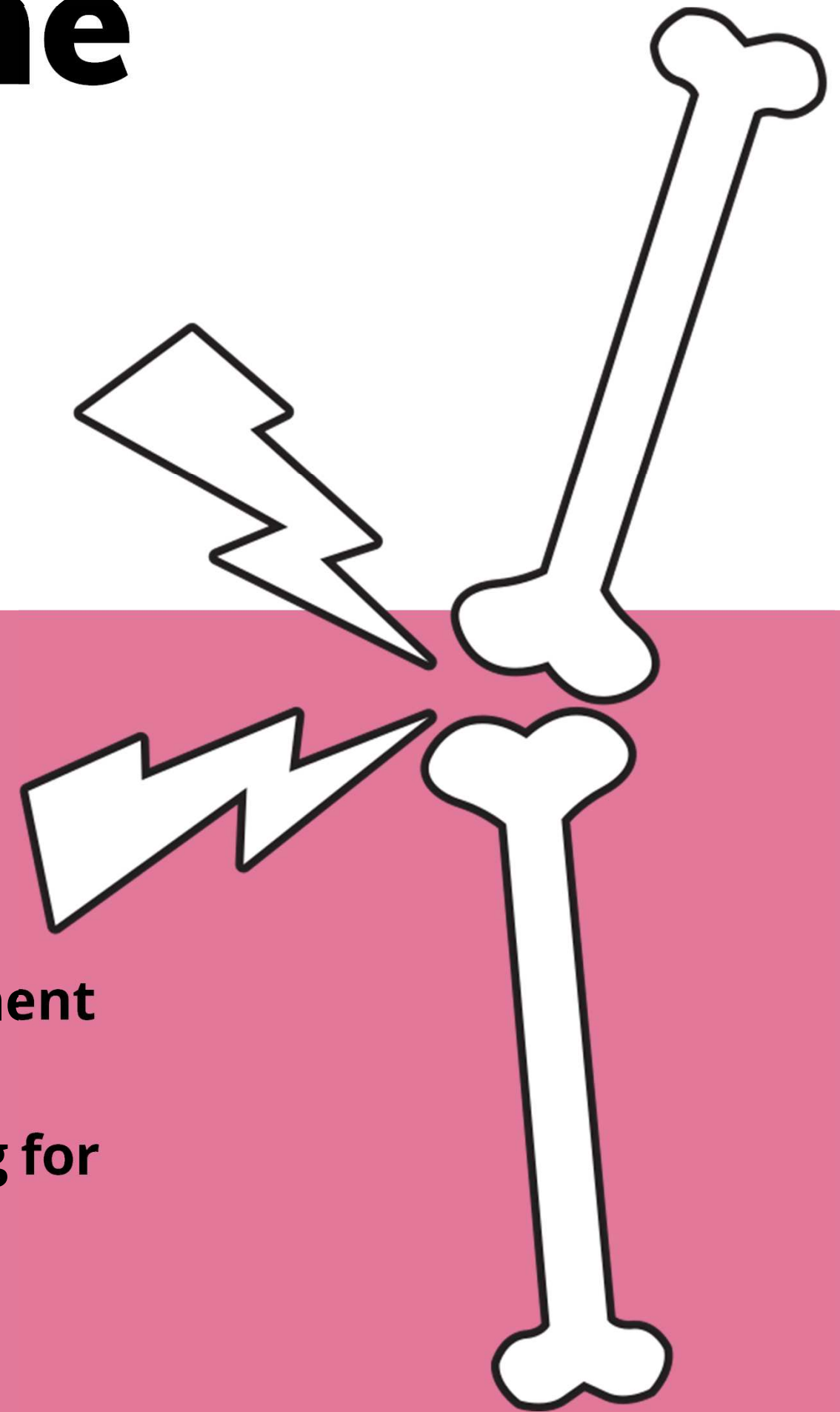
Advantages of Fixed UHF RFID

- Removal of human error
- Line of sight not needed
- Can read up to 1000 tags in real time
- Less labour intensive



The problem with the current healthcare inventory management model

- Time is of the essence in healthcare and lives are at risk
- Too much time and money is lost trying to locate vital equipment
- One in three nurses spent an hour or more per shift searching for medical equipment





Vaccine Tracking & COVID-19

- \$400M USD wasted every year
- COVID-19 vaccine 90% effective in testing
- Current prototype needs to be stored at -70°C
- Efficient distribution is essential for the global well-being.

UHF RFID Medical Fridges

- Medical Fridges are used to track expensive pharmaceuticals
- Keeping track of inventory, sell-by-dates and removing human error
- Times-7 antennas can read difficult assets such as metals and liquids
- Operate in very cold temperatures



The Importance of UHF Nearfield

- NF technology that operates in UHF frequency
- Ideal for metallic and liquid assets
- Can read up to 1000 assets in a near proximity read zone



THE CONCEPT OF NEAR-FIELD AND FAR-FIELD PLAYS A SIGNIFICANT ROLE IN RAIN RFID APPLICATIONS. [...] THE NEAR-FIELD MAGNETIC FIELDS ARE NOT SUBJECT TO RF ABSORPTION. ALSO, METAL ASSETS TEND TO DETUNE A RESONANT FARFIELD ANTENNA BUT NOT NEAR-FIELD ANTENNAS. THUS, THERE IS AN INCREASING NEED FOR UHF NEAR-FIELDS.

Dr. P. Parthiban

Rollex Medical NZ

MATOS PLUS RFID REFRIGERATORS

Introduction to the latest Pharmaceutical Refrigerator Range



OUR STORY



- Market Leaders in Pharmacy Refrigeration with offices in New Zealand and Australia
- In 2014 we developed our patented MATOS Monitoring / Override solution
- RFID has always been a vision for the Rollex team
- In 2018 we launched our RFID Project
- Connecting with Times-7 was a major turning point in our project – able to custom design antennas for our needs
- 2020 – proudly launched our MATOS RFID Pharmaceutical Range of Refrigerators to the worldwide market



Rollex Medical have a subsidiary business in the UK (Ethicheck Ltd) where we are also proud to be able to provide our MATOS Refrigerators + Monitoring solutions to clients and distributors around the world!

WHY RFID?

From our experience as Pharmacy Refrigerator experts and working along side Hospitals and Pharmacies around the world we understand our clients PAIN POINTS!

- ▶ Manual Processes to check Stock and Temperatures
- ▶ Time consuming – our Nurses, Doctors and Pharmacists are busy enough!
- ▶ Staff need to be onsite to have visibility
- ▶ Stock not rotated correctly
- ▶ Unreported issues often occur
- ▶ Unreliable processes which are time consuming



Financial losses are inevitable!

THE SOLUTION

- ▶ Fully automated Inventory & Temperature Monitoring Solution
- ▶ 24/7 Inventory and Temperature Alerting system
- ▶ UHF RFID Technology
- ▶ Meets International Cold Chain Compliance requirements
- ▶ Eliminates the need for Human interaction
- ▶ Complete Inventory management system
- ▶ Robust data storage and audit trail (who went into the fridge and when?)
- ▶ Automatic reports direct to your email
- ▶ Product recalls are easily managed
- ▶ NO Software needed – accessible from anywhere in the world
- ▶ Customisable solutions available



<https://matosmonitoring.com>

Thank You

Any questions?



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IMPORTANT

**Don't forget to complete the session survey
in the mobile app**

We need your input

Thank you for Attending



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Presentations will be available on-line soon. You will receive an email with a link when they are available.