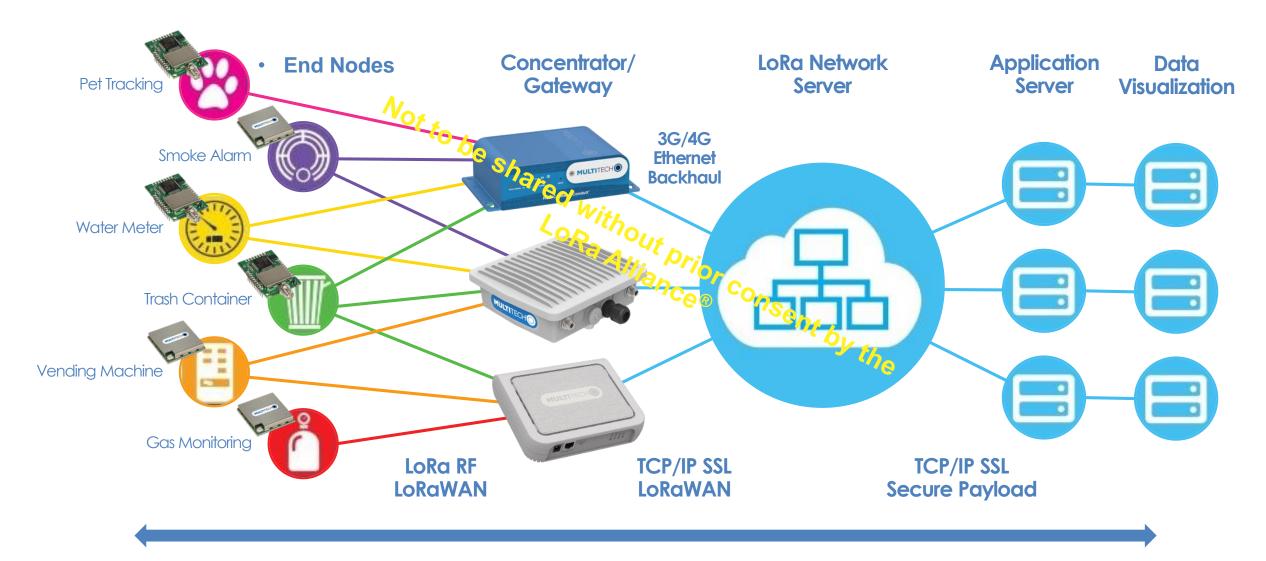
#### **Benefits of Private LoRaWAN® Networks**



### Traditional LoRaWAN® - NS, JS, & AS in Cloud



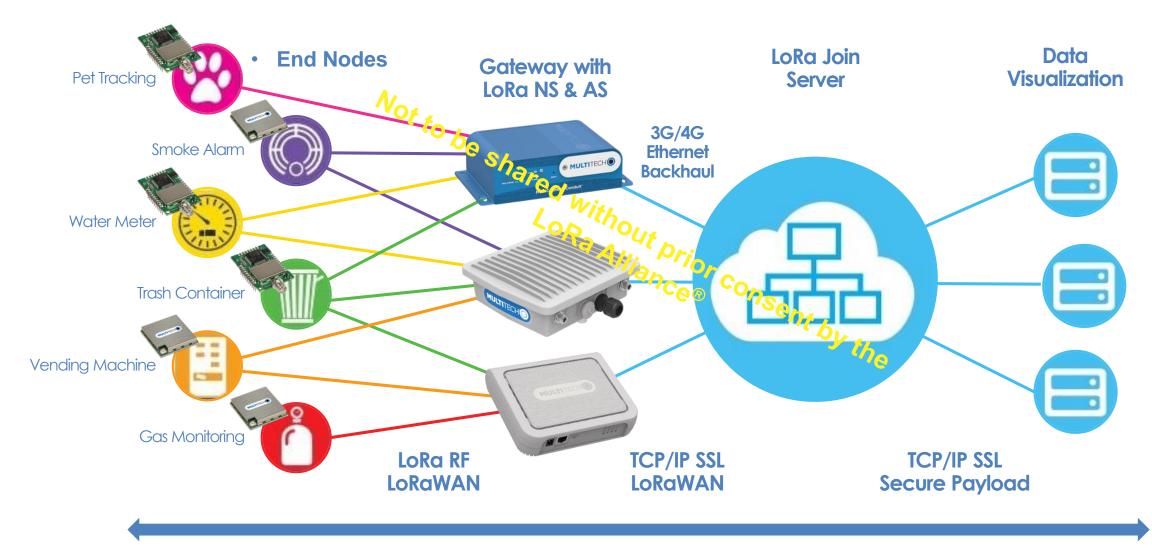


#### **What is Driving Enterprise Networks**





## Lens LoRaWAN®- only Join Server in Cloud





#### **NETWORK TYPES**

## **Public**

Subscription Based, Just like a cell phone

Well-established network providers
Better for:

- Low CapEX
- Mobility
- Speed of deployment
- QoS/SLA-based Network Management

# **Enterprise (private)**

Owner Operated Mission-Critical System

# Well established companies Better for:

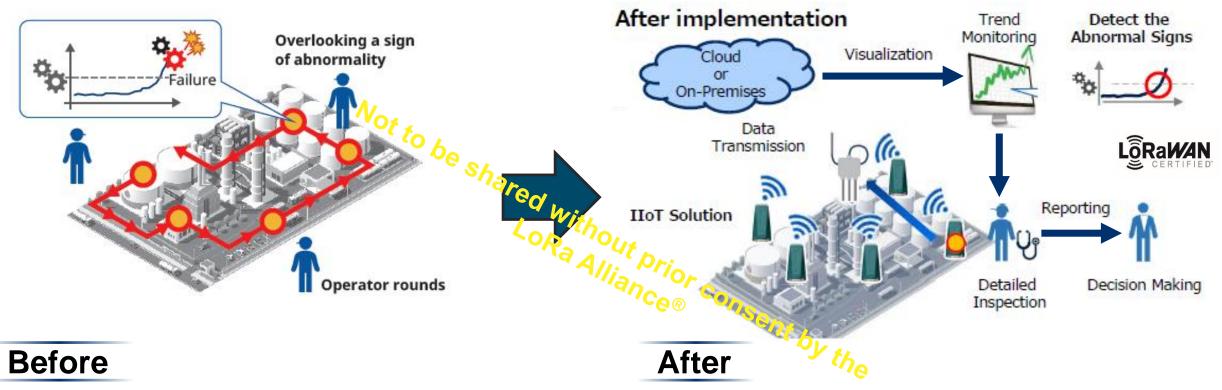
- Low OpEx
- Control of Data over own network
- Leveraging edge intelligence
- Reduced cackhaul costs

**Higher Ongoing Opex Costs** 

**Higher Upfront Capital Expense** 



#### Case Study: Yokogawa Sushi Sensor – Efficient Field Work



Outsourced vibration measurement for 200 items \$20 \* 12 \* 200 = \$48,000 / yr

Inspection results were not digitalized.

→ Customer could not utilize the data.

No recurring fees

- Realtime equipment status check
- Automatic warnings to technicians.
- → Enables digital transformation.





## **LoRaWAN®** Digital Pest Management Use Case

Overview

Industry: Digital Pest Management

Description: Operates as a life science company through four divisions including Pharmaceuticals, Consumer Health, Crop Science, and Animal Health segments



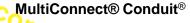
Business Issue, Solution, and Business Value

#### **Business Issue**

Build a better mouse trap" and create a rapid-response system that enables companies to spot, thwart—and eventually predict—rodent incursions before they grow out of control. Wanted local decision-making and networks to reduce backhoul costs, control data flow over network and mitigate against internet loss.

#### **Solution**

• MultiTech® partnered with the customer and added sensors to the rodent trap, paired with a LoRaWAN radio to transmit capture data to a central gateway, which relays the real-time data to a cloud platform.





#### MultiConnect xDot®





#### **Business Value**

 This system reduced the time needed to manually inspect traps by an average of 60% while enabling improved food safety and compliance monitoring and reporting





#### **LoRaWAN® Private Network Benefits**

- Custom application deployment
  - Load and manage your application on gateways
- Reduced cost and greater control of data packets
  - Only Join Request packets senting the cloud
  - Your custom application decides what data is sent to the cloud for visualization
  - Network Availability
- Realization of edge intelligence and event processing capability
- No geographic restrictions
- Your own private LoRaWAN® network





#### **About MultiTech**







# WELCOME TO LORAWAN® LIVE BUSINESS TRACK 2.00PM – 6.00PM

**BERLIN, JUNE 13, 2019** 







Connections