Smart Buildings SHOW

Building Smarter Digital Infrastructure with LoRaWAN:

From Connectivity to Actionable Insights



Neil Carey
MultiTech



Rob Whitcomb
inBiot Monitoring



Ian Lloyd
Pressac Communications



Paul Fahy
Tridium Europe Ltd

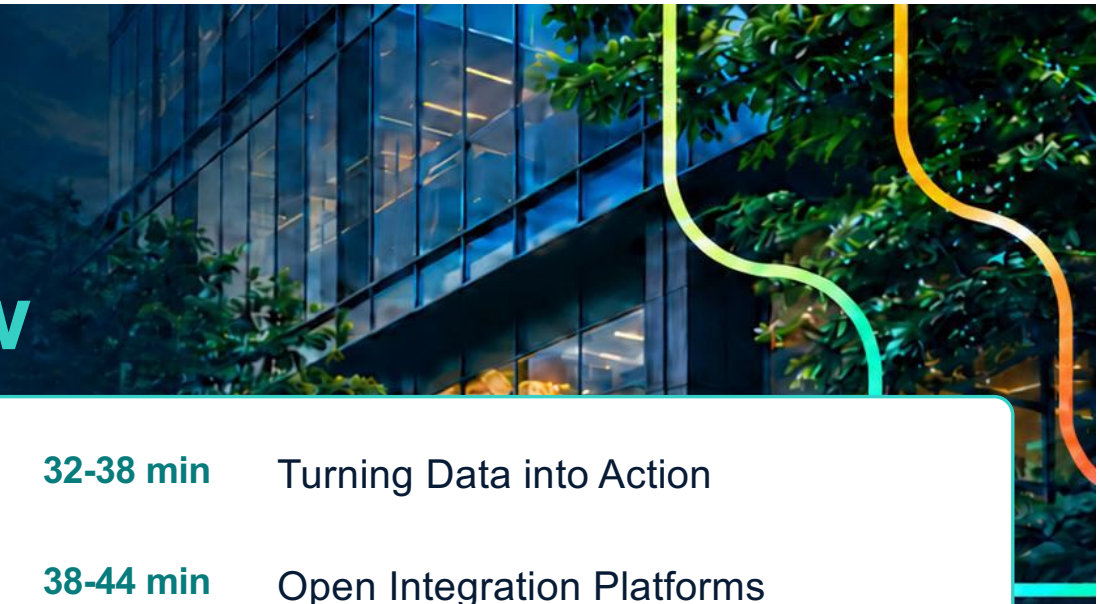


Nick Sacke
NNNCo

PANEL SESSION

Smart Buildings SHOW

Panel session overview

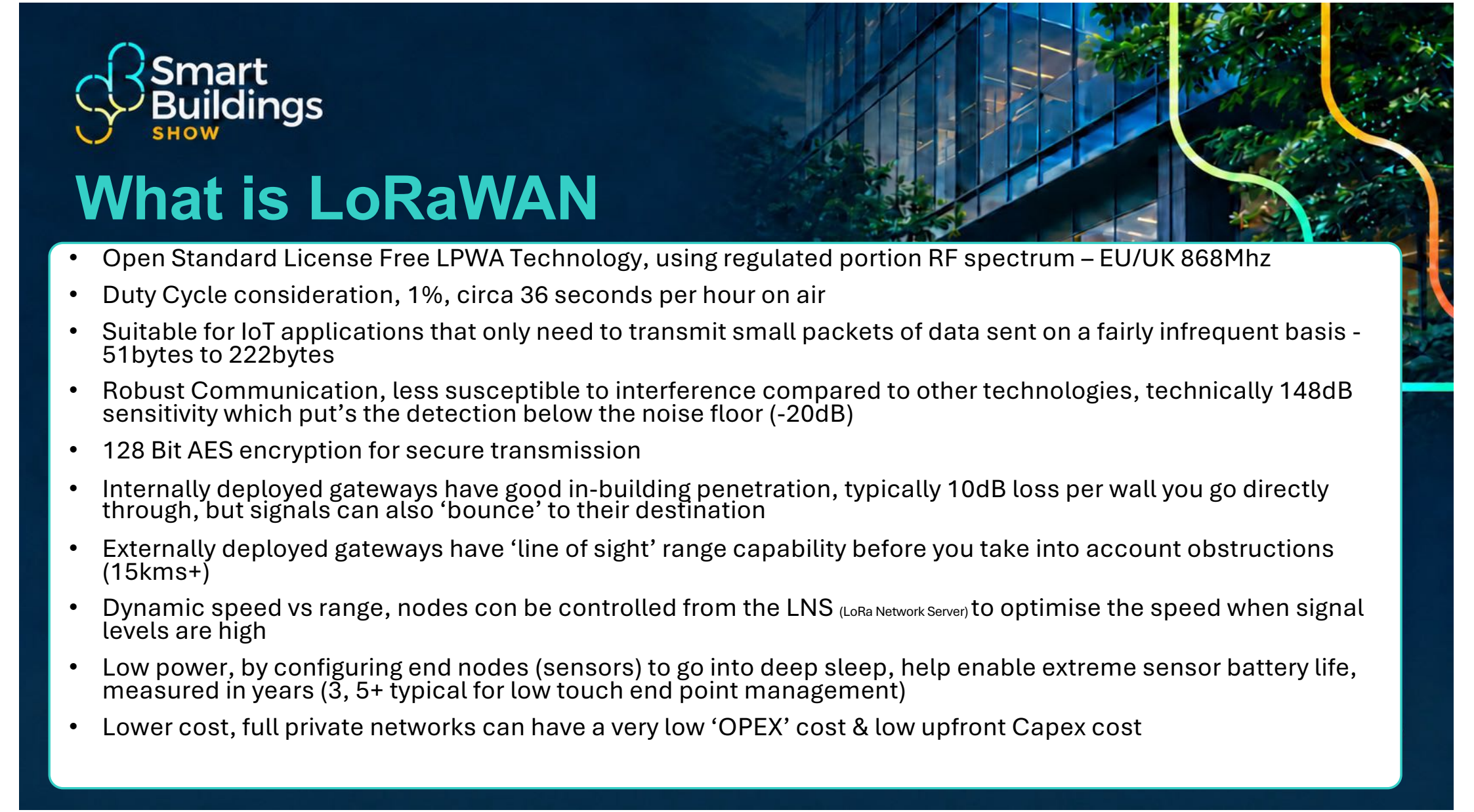


0-3 min	Welcome
3-6 min	Panel Introductions
6-8 min	What is LoRaWAN?
8-14 min	Why Smart Building Infrastructure Matters
14-20 min	Building the Data Foundation
20-26 min	Indoor Air Quality & Occupant Wellbeing
26-32 min	Asset Intelligence & AI
32-38 min	Turning Data into Action
38-44 min	Open Integration Platforms
44-50 min	From LoRaWAN Data to Operational Intelligence
50-56 min	Real-World Results
56-60 min	One Key Takeaway
60-70 min	Audience Q&A

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What is LoRaWAN



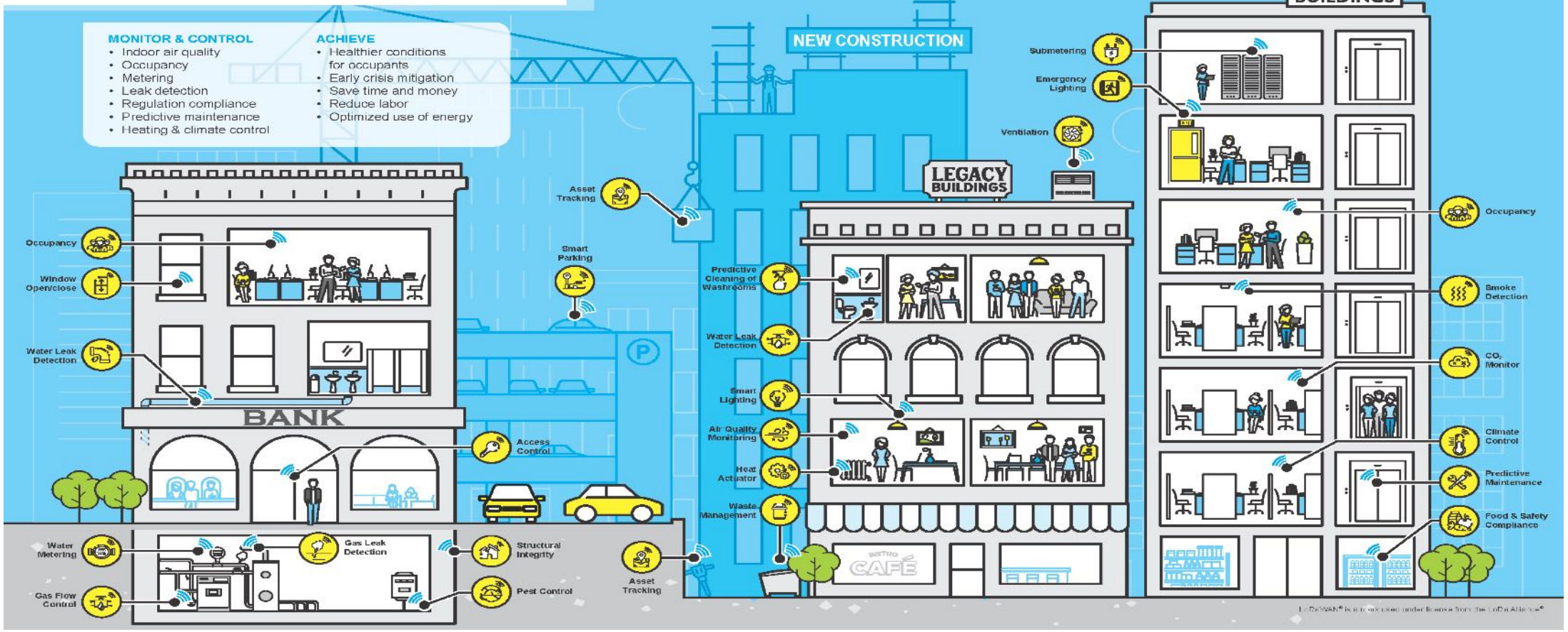
- Open Standard License Free LPWA Technology, using regulated portion RF spectrum – EU/UK 868Mhz
- Duty Cycle consideration, 1%, circa 36 seconds per hour on air
- Suitable for IoT applications that only need to transmit small packets of data sent on a fairly infrequent basis - 51bytes to 222bytes
- Robust Communication, less susceptible to interference compared to other technologies, technically 148dB sensitivity which put's the detection below the noise floor (-20dB)
- 128 Bit AES encryption for secure transmission
- Internally deployed gateways have good in-building penetration, typically 10dB loss per wall you go directly through, but signals can also 'bounce' to their destination
- Externally deployed gateways have 'line of sight' range capability before you take into account obstructions (15kms+)
- Dynamic speed vs range, nodes con be controlled from the LNS (LoRa Network Server) to optimise the speed when signal levels are high
- Low power, by configuring end nodes (sensors) to go into deep sleep, help enable extreme sensor battery life, measured in years (3, 5+ typical for low touch end point management)
- Lower cost, full private networks can have a very low 'OPEX' cost & low upfront Capex cost

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LoRaWAN

WIRELESS SMART BUILDING SOLUTIONS THAT WORK EVERYWHERE

Simple • Scalable • Secure



LoRaWAN® is a trademark used under license from the LoRa Alliance®

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Meet the panellists



Neil Carey

Vice President of Sales, EMEA and APAC
MultiTech

Neil leads MultiTech's growth across EMEA and APAC. His 15year+ IoT and channel expertise helps customers use & deploy LoRaWAN products to improve building's performance.

MULTITECH



Rob Whitcomb

Ultra Protect Director
inBiot Monitoring S.L

Rob brings over four years of air quality monitoring experience across UK commercial estates. He helps facilities teams deploy inBiot sensors to support operations and certification.

inBiot



Ian Lloyd

Market Development Manager
Pressac Communications

Ian has over 20 years' experience in IoT and connectivity, including senior roles at BT and Vodafone. His focus is smarter buildings using LoRaWAN and sensors.

Pressac



Paul Fahy

Technical Sales Specialist
Tridium Europe Ltd

Paul specialises in IoT, device management and technical pre-sales across EMEA. Previously at Nokia and Mformation, he supports solution design and complex IoT deployments.

TRIDIUM



Nick Sacke

Industry Lead, UK
NNNCo

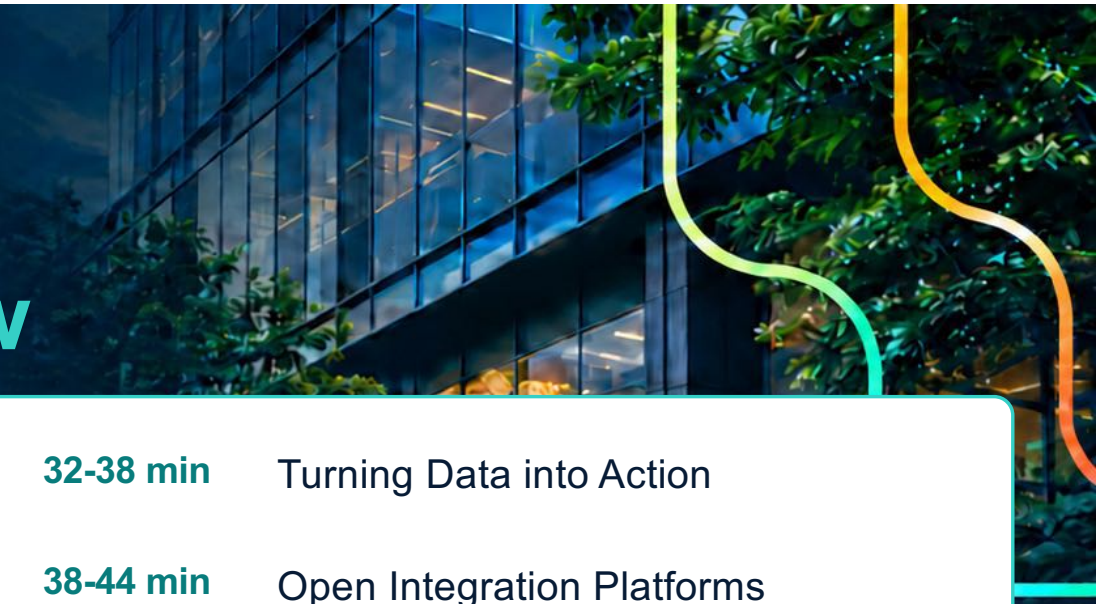
Nick specialises in IoT, LPWAN and cellular connectivity for utilities and critical infrastructure. His smart metering and smart city experience supports scalable, resilient asset monitoring.

NATIONAL NARROWBAND NETWORK Co.

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