

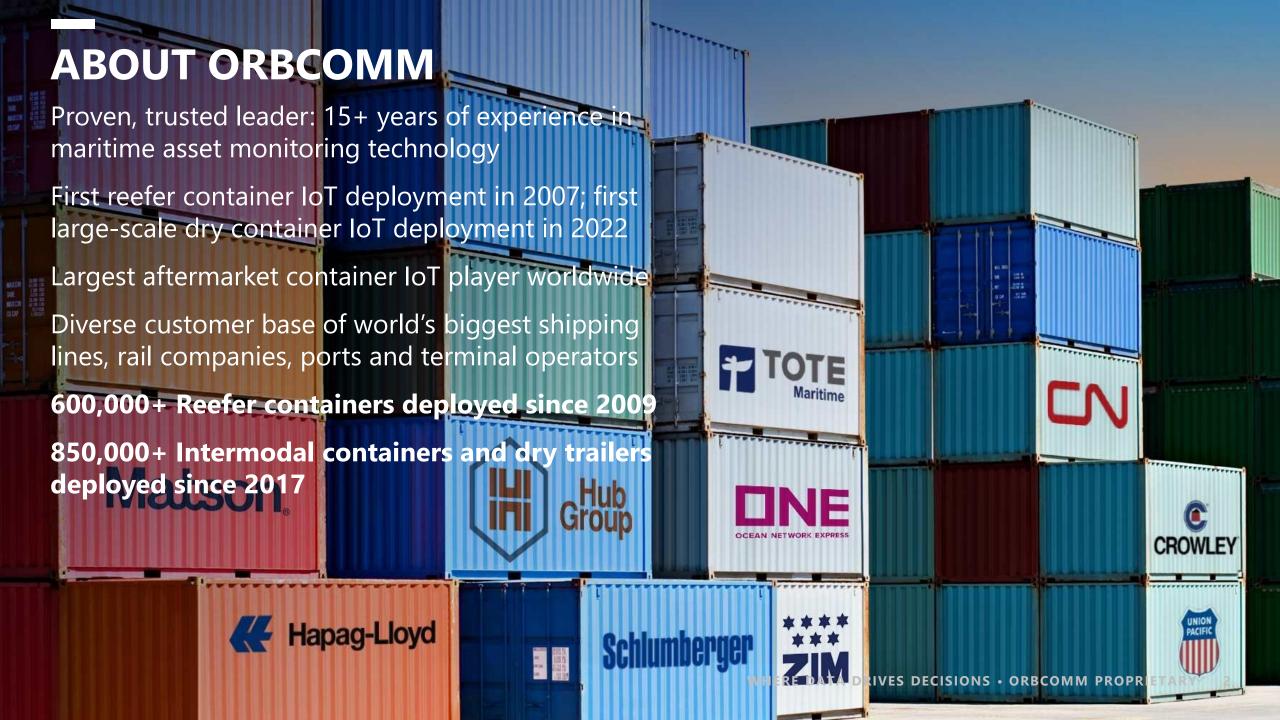
The Future of Cold Chain Technology

Sean Maguire, Vice President Business Development, ORBCOMM









THE TRADITIONAL CASE FOR REEFER DIGITALIZATION

Lack of visibility

Avoidance of spoiled loads

Reduction of claims

Cargo security and integrity issues

Asset underutilization

High manual monitoring costs

High cost of PTI

Need for interoperability through data sharing and data standardization



GROWING REQUIREMENTS

Transparency for cargo owners

Higher level of data detail

Load and cargo integrity

Improve crew safety

Sustainability data

Help compliance with environmental regulations

New services and revenue opportunity

Continuous fleet health analysis

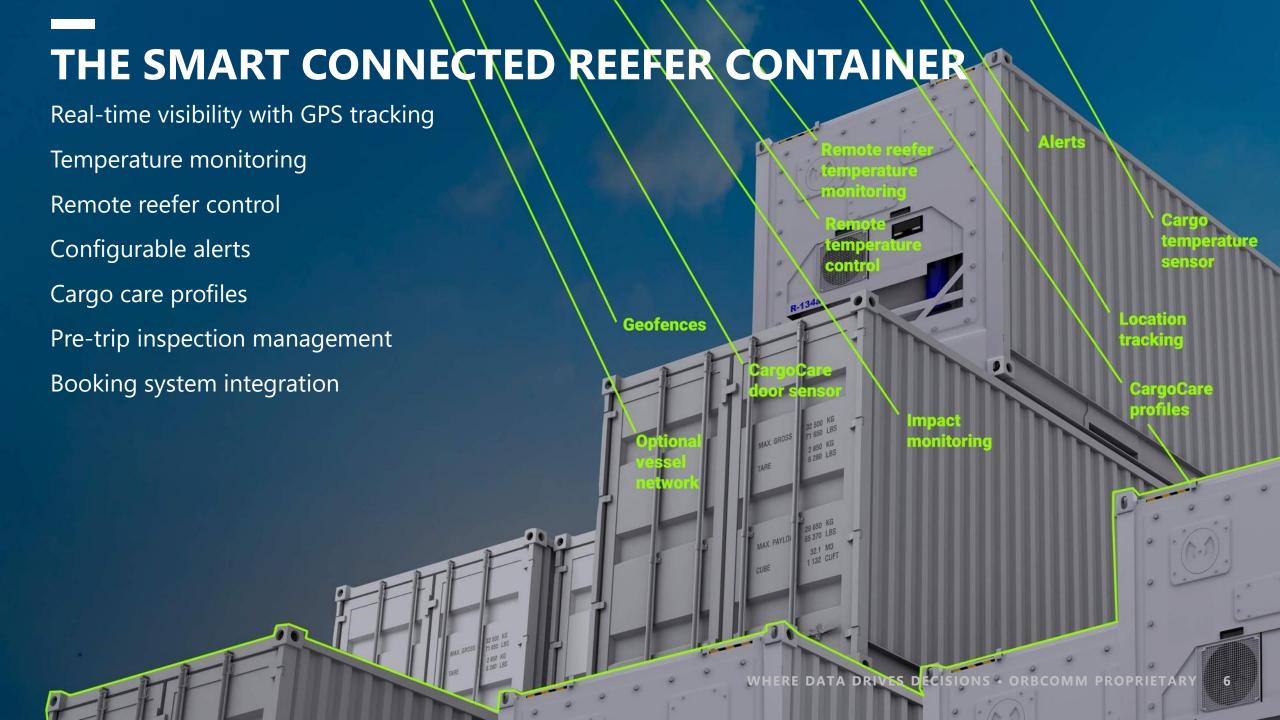
Preventive maintenance



The technology is here today

DELIVERED BY REEFER CONTAINER IOT

Increase visibility Enhance operational efficiency Reduce cargo spoilage, tampering and theft Reduce maintenance, inspection and fuel costs Improve fleet utilization and minimize equipment losses Improve customer service Drive CO2 reduction



PART OF COMPREHENSIVE REEFER SOLUTION

Single pane of glass for all assets and all devices

Deep reach, coverage and connectivity at sea

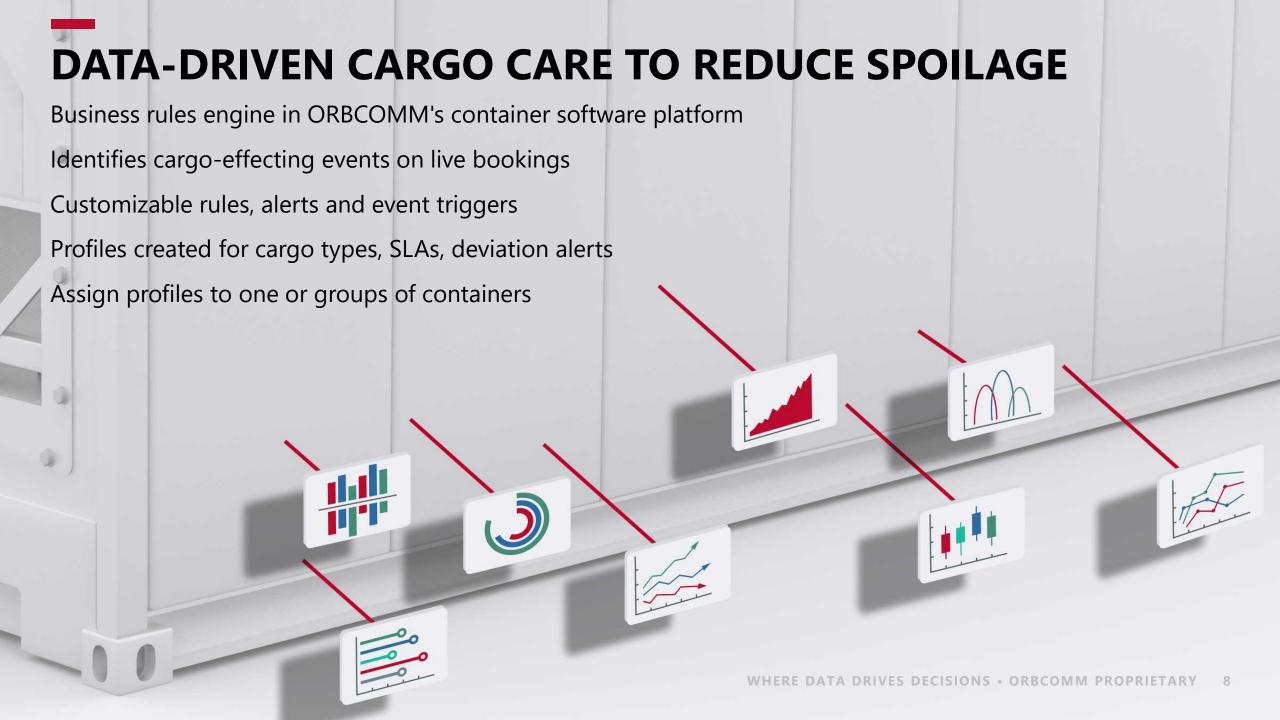
Widest possible global cellular coverage devices and SIMs

APIs to third party systems

Integration with other services like AIS, BIC, booking data

Compliance with standards DCSA, COA, ATEX





INTEROPERABILITY: BRINGING IT ALL TOGETHER FOR ZIM

Mix of telematics devices, reefer OEMs and platforms

Different tracking devices from third party vendors

Single pane of glass solution

Data interoperability and standardization

API integration with *ZIMonitor*



Gil Lehmann, ZIM

"ZIM can leverage the unique interoperability to access data from multiple types of OEM and third-party telematics devices through a comprehensive, integrated platform."

VESSELCONNECT: VISIBILITY AT SEA

Visibility and control can't stop when the ships leave shore. VesselConnect is an onboard data solution that delivers visibility even deep at sea, where containers were traditionally out of sight.



THE FUTURE

Smaller, fewer, more powerful components

New sensors

OEM fitted devices

Multiple data service levels to end users, cargo owners

Data delivery fully independent of OEM, device type, location

Covert installation, rapid retrofit installation times

Full vessel autonomy

Predictive maintenance

Mobile apps for land and vessel



Thank you!

Want to continue the conversation?

Come to Booth D68 and we would love to meet you, or we can schedule a call to talk about how container IoT can help your business.

Contact us: info@ORBCOMM.com

Visit our website: www.ORBCOMM.com

Any questions?

