

Al Tama, Vice President & General Manager Container and Port Solutions

Responsible for growing the company's global footprint in the marine and intermodal container market. Before joining ORBCOMM, he served as General Manager at WAM Technologies, which deployed the first large-scale global telemetry control and monitoring system for nearly 300,000 refrigerated containers.





AGENDA

- Current Environment
- Improving Implementation Challenges
- Visibility
- Supply Chain and Asset Integration
- IoT Spending Trends and Market Size
- The Internet of Shipping Adoption Trends
- Making Data Meaningful
- Open Standards and Interoperability
- Questions





IMPROVING IMPLEMENTATION - CHALLENGES

- Supporting industry to scale
- Enabling faster device installation
- Facilitating multiple data streams
- Fast-tracking development
- Collaboration to define and deliver on new analytics use cases
- Ease of data integration



VISIBILITY

- Visibility: substitute for speed
- Data helps bridge the gap
- Data is fragmented and not real-time
- High-quality data and analytics
- IoT enables the digital transformation





Using IoT to respond to delays and breakdowns

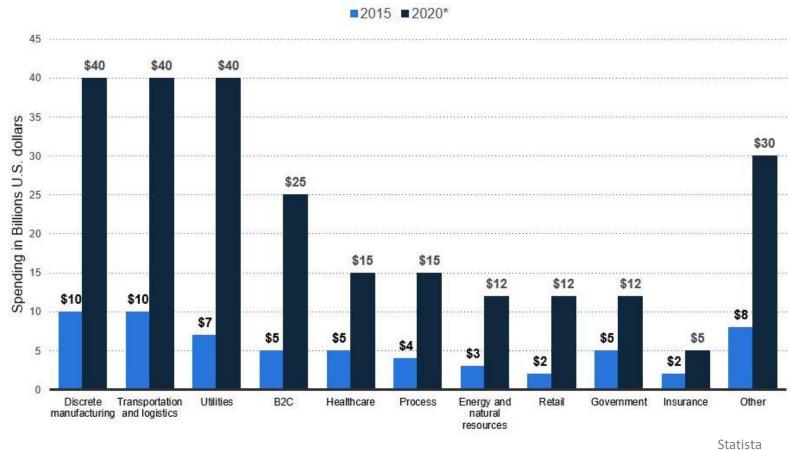
Visibility: just one piece of the puzzle

 Integration of cargo and shipment data, from first to last mile



IOT SPENDING TRENDS

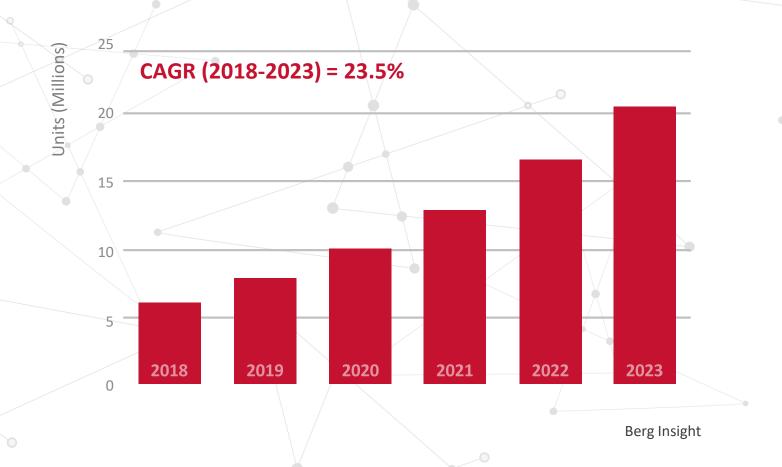
Spending on Internet of Things worldwide by vertical in 2015 and 2020 (in billions of US dollars)





MARKET SIZE

Installed base of active trailer and cargo container tracking units (world 2018-2023)

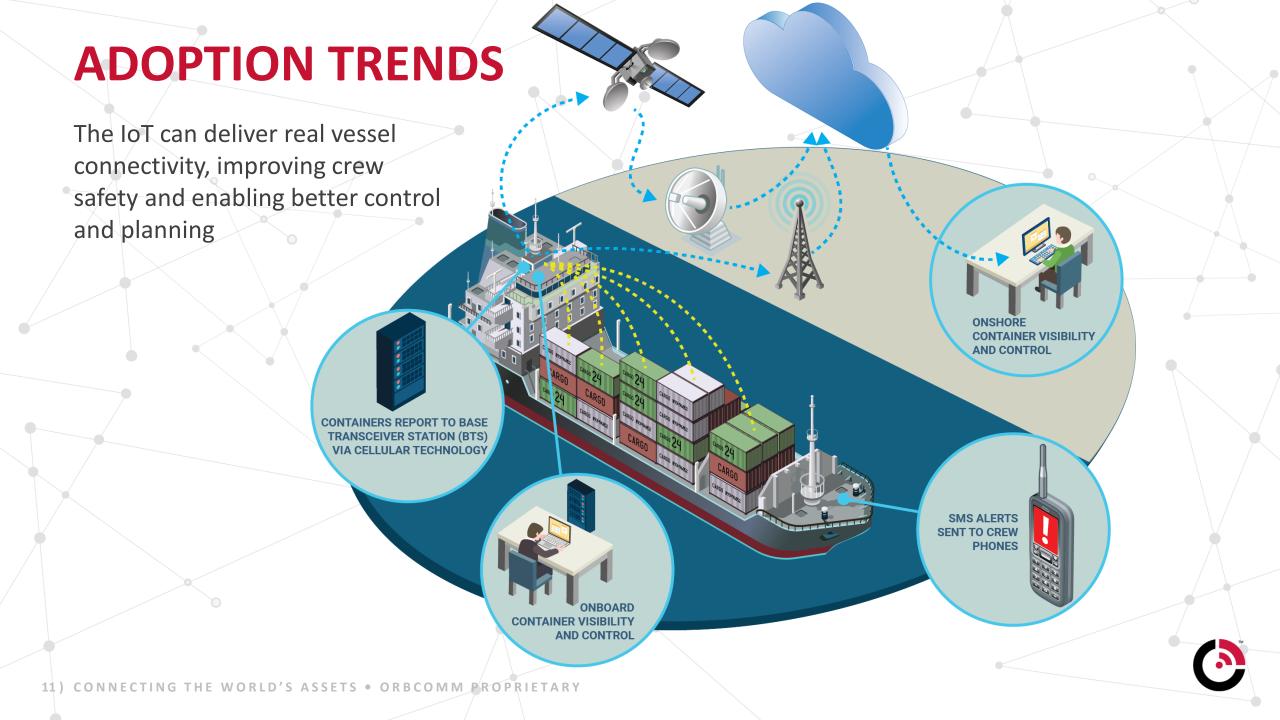




THE INTERNET OF SHIPPING - ADOPTION TREND

- Shipping lines are the primary IoT investors
- Smaller and more regional carriers moving quickly
- Container lessors and OEMs entering the space
- Factory-installed devices







MAKING DATA MEANINGFUL

- Control towers and dashboards are key to filter and present only the relevant data to users
- Analytics to unlock value and insights from big IoT data
- Intelligent analytics, AI and ML are now starting to emerge



OPEN STANDARDS AND INTEROPERABILITY

- Industry collaboration on open standards
- Open standards initiative
- Interoperability is key

