



# Data in *Motion*

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**BRU**  
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# Data in *Motion*



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Unilode Aviation  
Solutions





AIR CANADA  
CARGO

ONASSET  
INTELLIGENCE

unilode

# Air Canada's IoT Strategy

The **FIRST** airline in the world to have installed IoT technology in all its aircraft fleet.



- Water/waste lines to avoid AOG
- Cabin temperatures



- Towbar
- Air stairs
- Pump trucks



- Engine stands
- Tools
- Parts



- Coolers
- AVI Rooms/vans
- Cargo tractors
- Warehouses (ULD Monitoring)

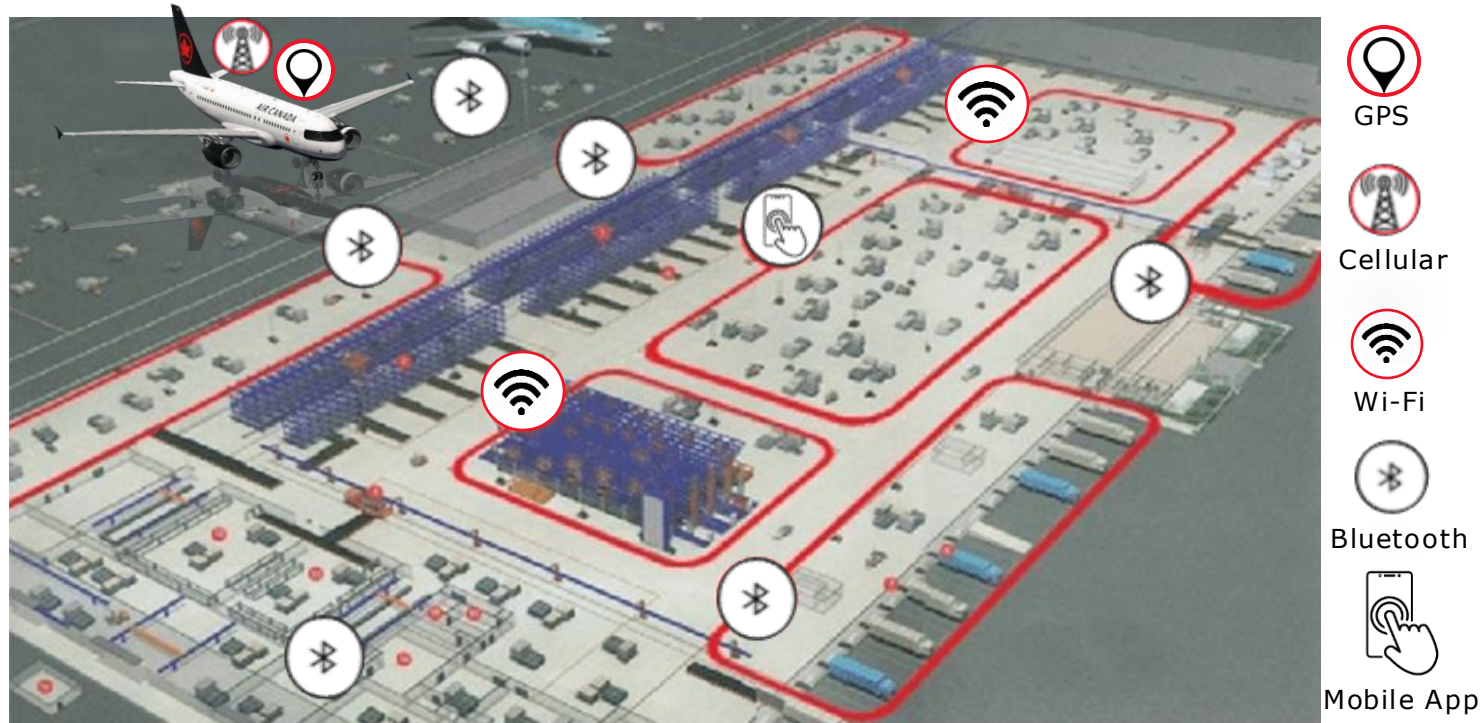
The synergies across the organization are producing greater outcomes than initially anticipated.





# ULD Management

Addressing the challenges of balancing inventories, visibility and process compliance.



Data sharing agreement between Air Canada, Unilode and OnAsset Intelligence will provide economies of scale and scope.



# The Global Network Connects Us

Air Canada Sentinel Tag fleet data collected via data sharing

## Multiple Use Cases Supported



Aircraft Maintenance & Monitoring



Cabin & Cargo Monitoring



Equipment Protection & Management

Data from Sentinel Tags and Digitized ULDs is collected by Sentry gateways from both parties and securely transmitted to OAI for processing

SENTRY 600  
FlightSafe®  
Aviation Grade  
Reader/Gateway



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**ONASSET**  
INTELLIGENCE

Unilode Digital ULD Fleet data harvested via data sharing

## Digital Services Suite Supported



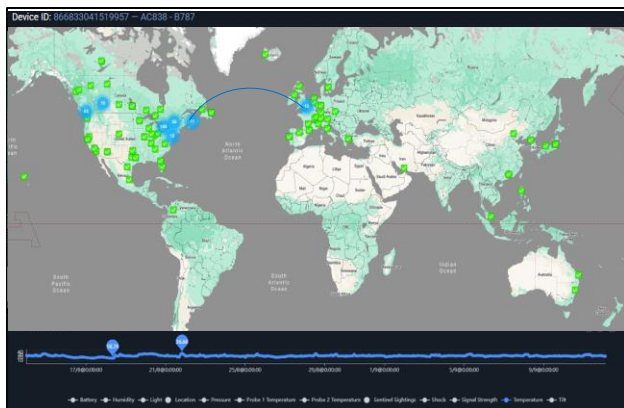
Worldwide Digital Fleet



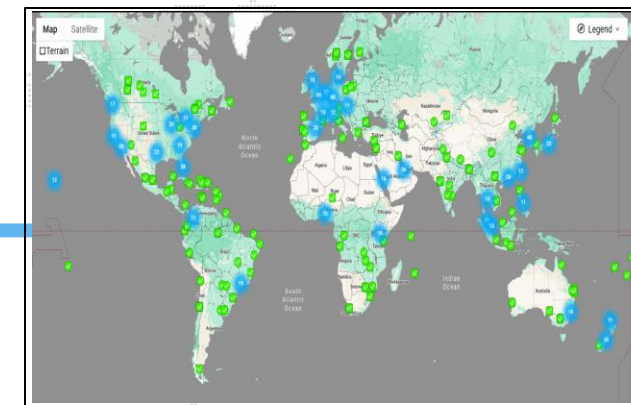
Digital Asset Management Services



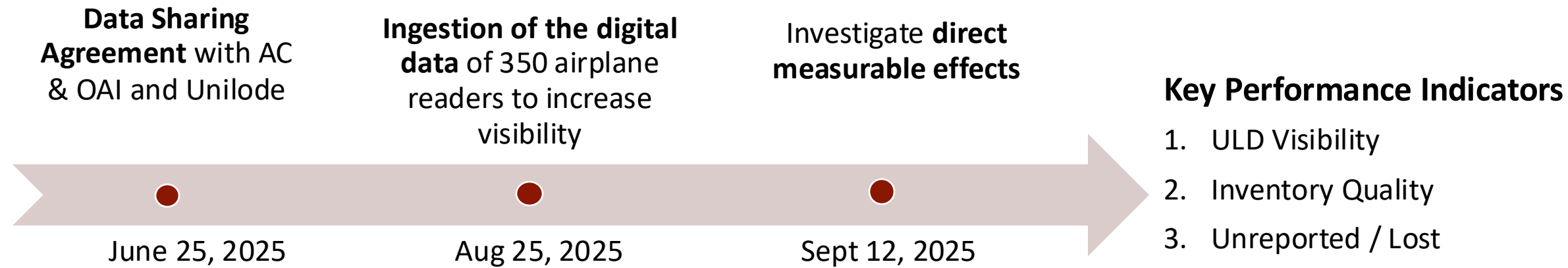
Digital Messaging Automation



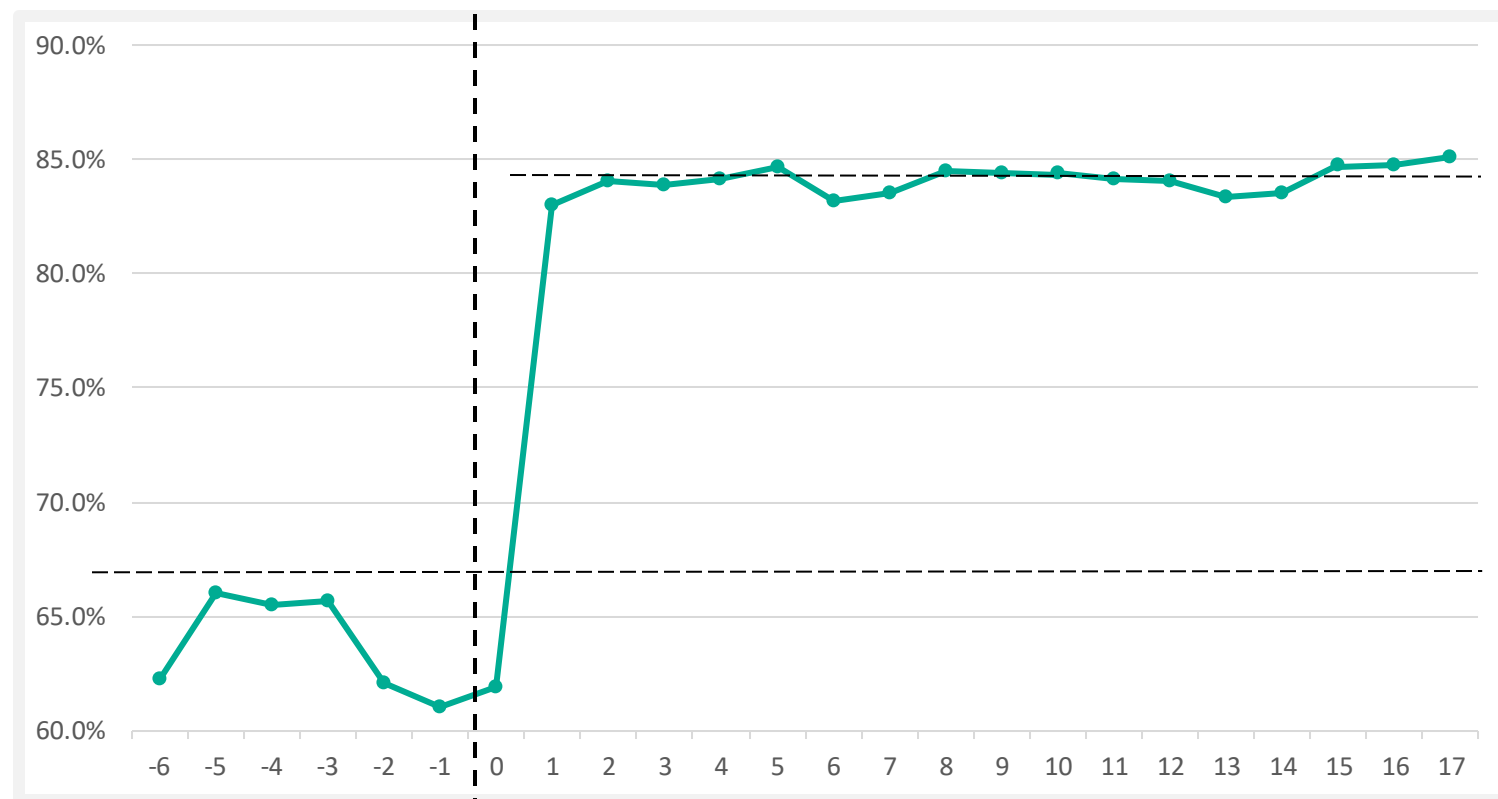
OnAsset securely filters shared data and distributes it to each party according to predefined access permissions



# Impact of aircraft readers on ULD management



# Visibility of the Fleet



☐ Visibility of the ULD fleet increased with **22%** from **63%** to **85%** in the first few days

85%



22%

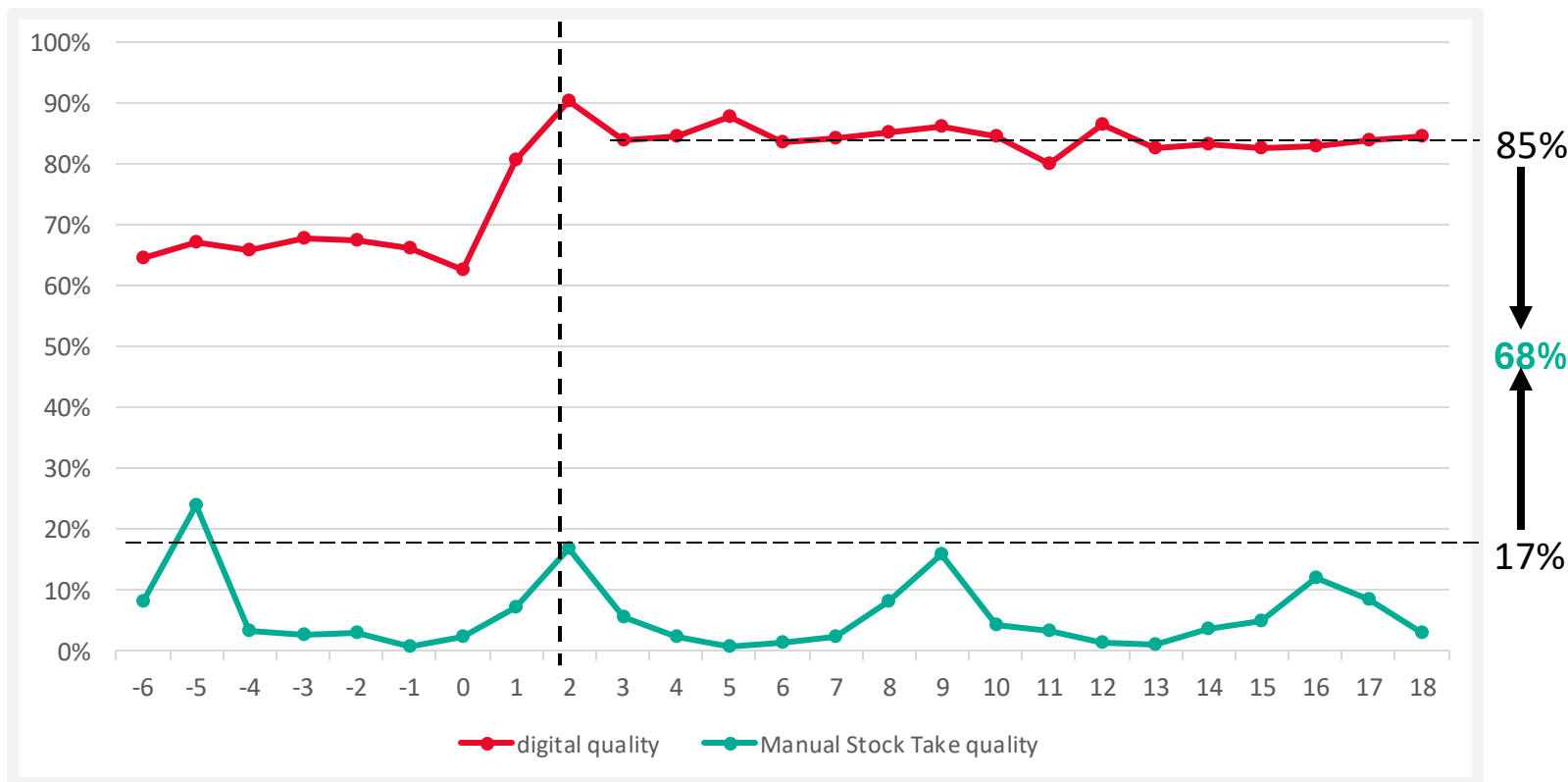


63%



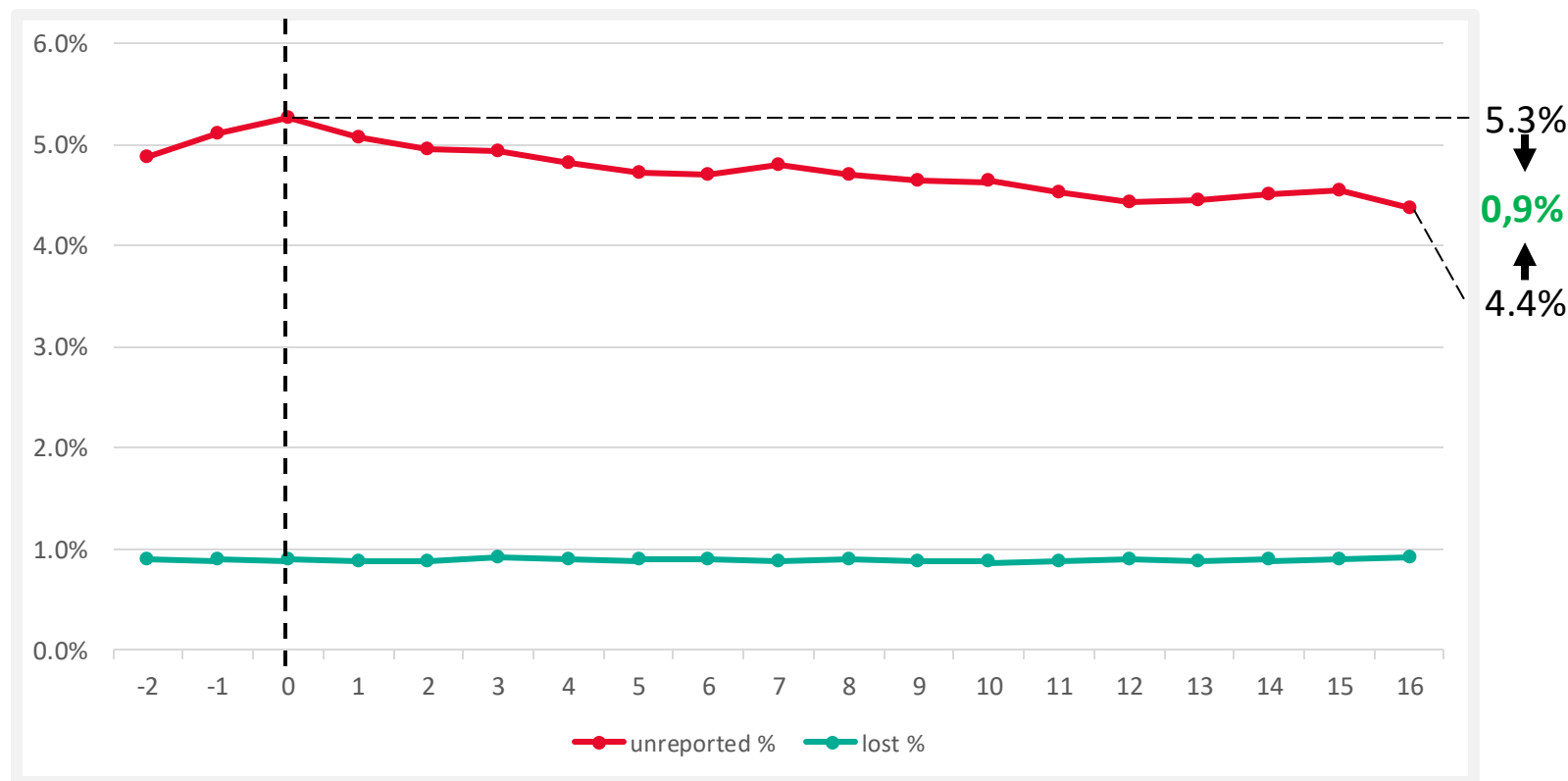


# Inventory Quality



- ❑ Digital inventory quality jumps from 63% to 85% across the network.
- ❑ Digital inventory quality is 68% higher than Manual Stock Take quality after the change

# Unreported & Lost ULD Inventory



- ☐ Unreported ULDs have decreased with **0,9%** which is a reduction of **17%** since the change.
- ☐ No visible impact on Lost ULDs visible (expect this will take longer to materialize)



# The Future of Data in *Motion*

1. **Reduce** Unreported & Lost ULDs
2. **Reduce** Inventory Levels
3. **Automate** Processes



# Data in *Motion*

Questions?

