

# RFID JOURNAL LIVE!

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## Tosca Implements RFID-based Traceability for Reusable Containers

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# Who is Tosca



**A global leader**  
**in reusable plastic packaging solutions**

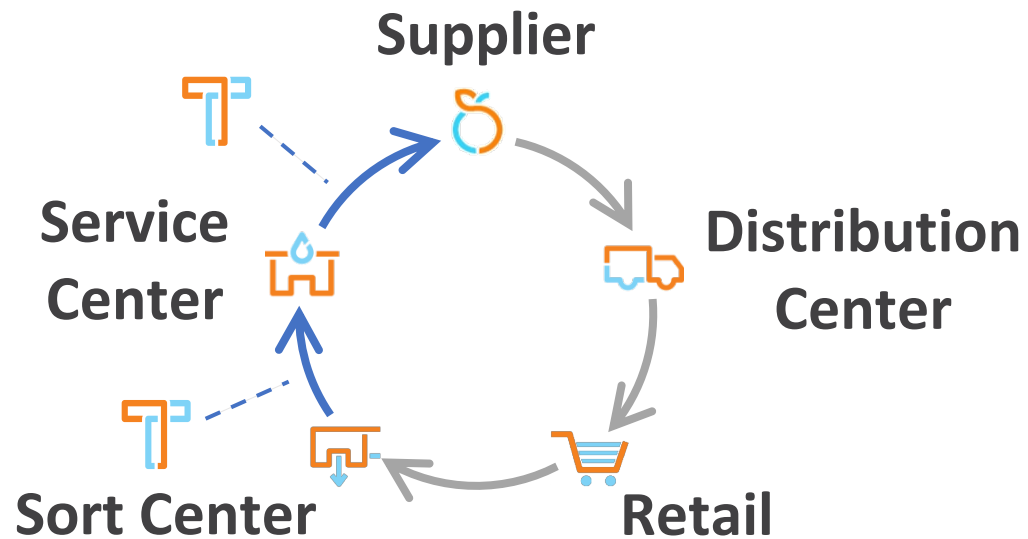


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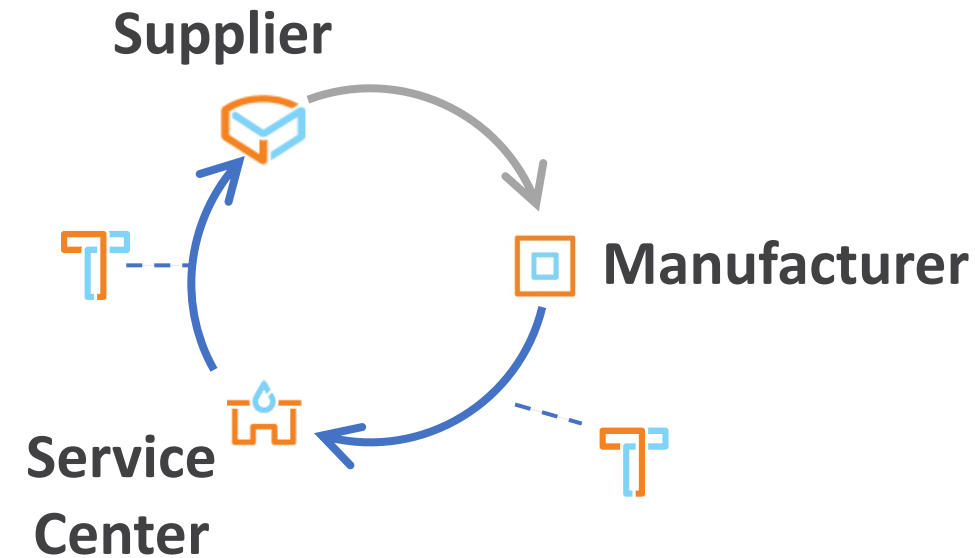
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# Pooling Operating Models

## Open Loop - Downstream



## Closed Loop - Upstream



# Pooling Market Essentials



# Use case

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## Customer requirement

Operate a downstream Pool

Expand Service Center Network

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## Asset to manage (Pool)

Size: *1,5 million assets*

Asset type: *European Half pallets*

Movements: *Estimated 6 cycles / year*

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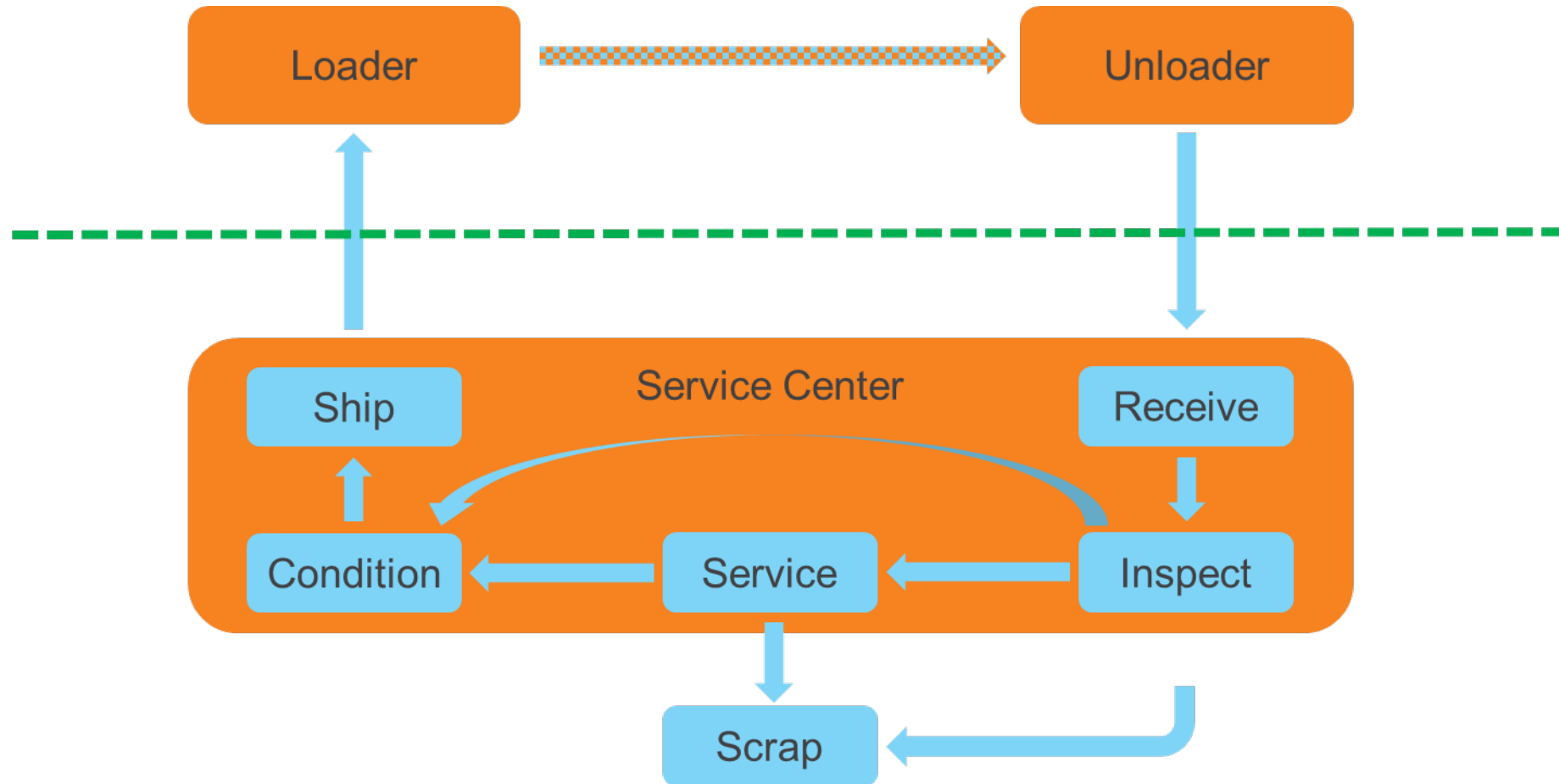
## Challenge

Customer visibility & insight

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# Asset Lifecycle



# Tracking technology evaluation

Criteria	Barcode	RFID	IoT
Cost	++	+	-
Durability	+	++	+
Lifespan	+	++	-
Operational handling	+	+	++

## Outcome:

- Primary Tracking Technology
  - Backup Tracking Technology
- Passive RFID Tags  
Barcode



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# Solution requirements



## Data Collection

- Asset lifecycle
- Passive RFID



## Integrated

- Master Data
- Event Driven



## Data security

- Tamperproof
- Multi tenant

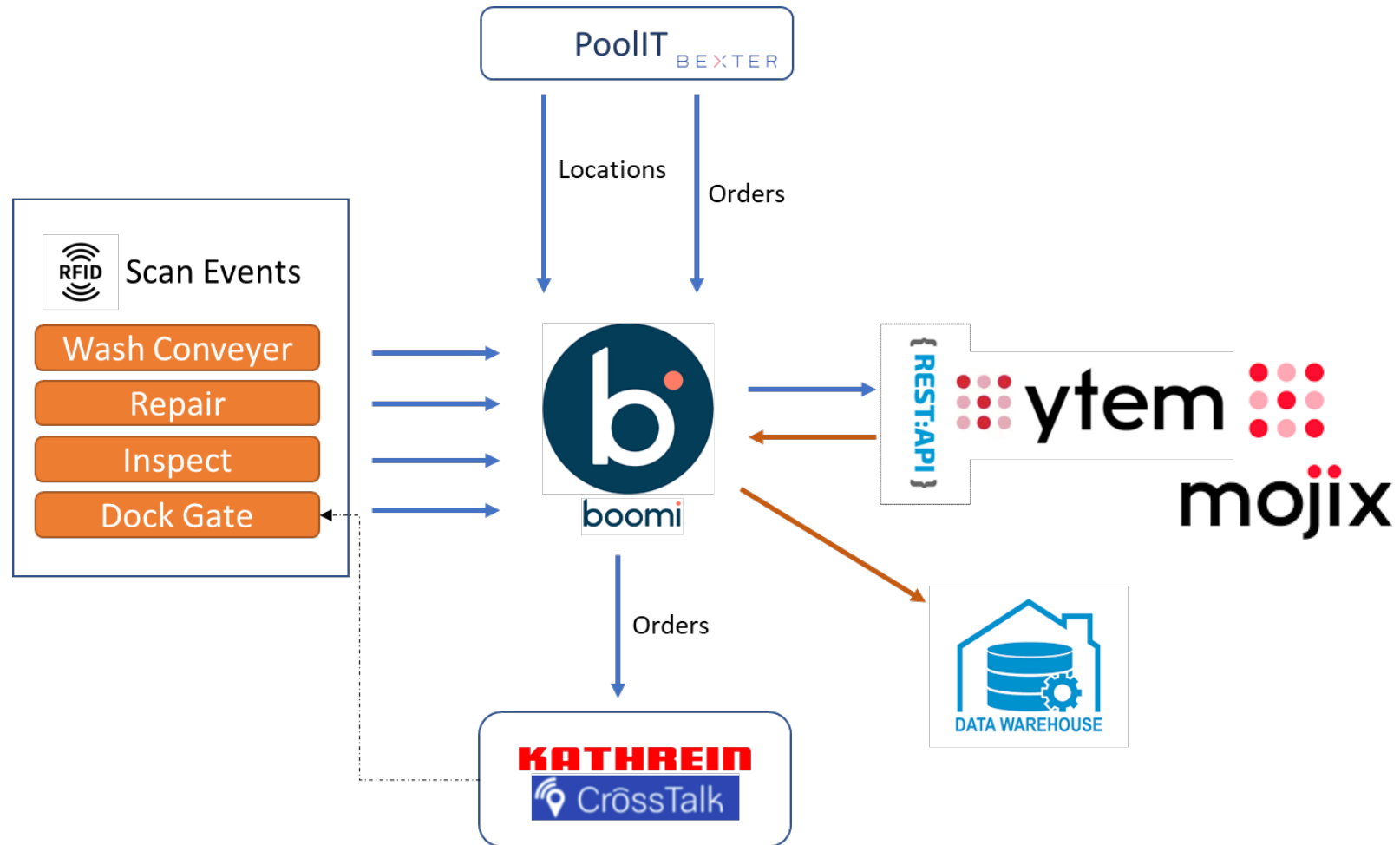


## Output

- Operational
- Customer



# Process flow



# Implementation

- **3 Warehouses**
  - Shipping, Inspection & Receiving
  - Mobile RFID Readers
- **5 Service Centers**
  - All relevant events
  - Fixed RFID Infrastructure
    - Gates
    - Repair
    - Wash
  - Mobile RFID Readers as backup



# Results



## Pooling Efficiencies

Asset Lifecycle  
Increased Availability



## Operational Transparency

Service Center Performance



## Reduction

Losses  
Cycle time



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# Next steps

## Existing landscape

Learn – Adapt –  
Optimize

Expand Partner  
collaboration



## Traceability as a Service

Passive

- Customers

Active

- Tosca Asset IQ



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THANK YOU

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