

ACHIEVING END-TO-END LOGISTICS NETWORK VISIBILITY



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PHARMACEUTICAL LOGISTICS NETWORKS NEED END-TO-END VISIBILITY

PHARMACEUTICAL LOGISTICS NETWORKS

NEED END-TO-END VISIBILITY

to minimize

PATIENT RISK • PRODUCT RISK • LOGISTICS COSTS

ACHIEVING END-TO-END LOGISTICS NETWORK VISIBILITY

SHIPPING LANE A to D (ROUTE A-B-C-D)



ACHIEVING END-TO-END LOGISTICS NETWORK VISIBILITY

SHIPPING LANE A to D (ROUTE A-B-C-D)



EXTERNAL
INTEGRATIONS

VS.

ANOTHER
SILO

INSTRUMENTATION



LOGISTICS
INTELLIGENCE

VS.

BUSINESS
INTELLIGENCE

APPLICATION INTERFACES

ACHIEVING END-TO-END LOGISTICS NETWORK VISIBILITY

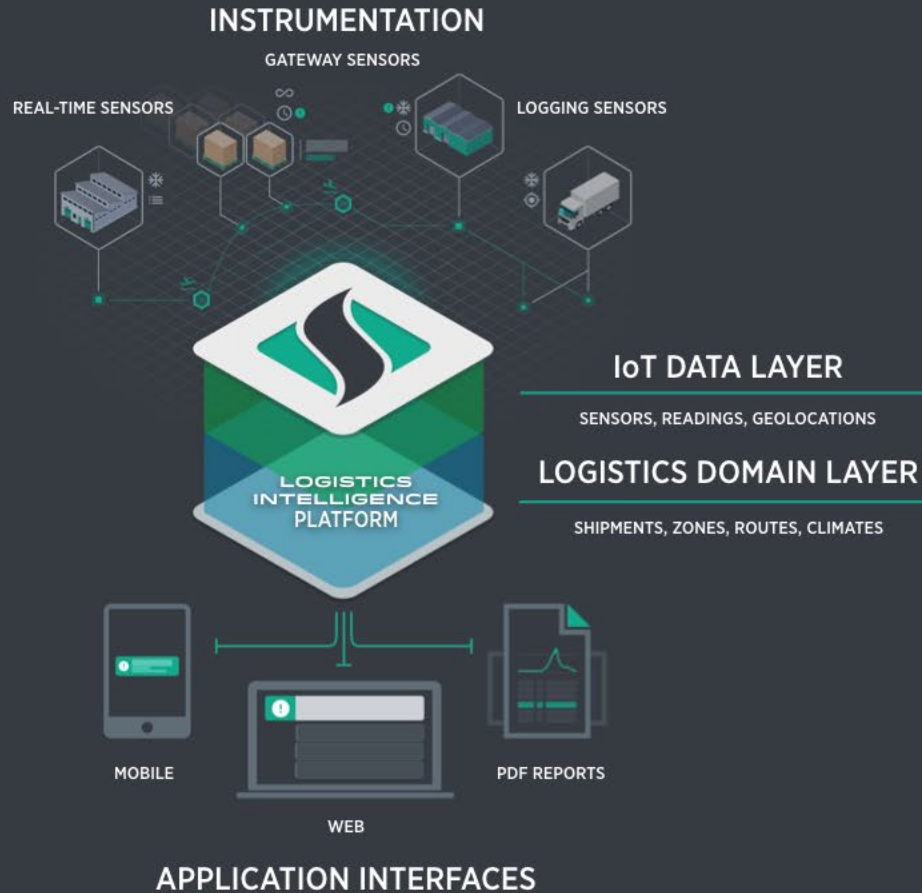
SHIPPING LANE A to D (ROUTE A-B-C-D)



EXTERNAL
INTEGRATIONS

VS.

ANOTHER
SILO



SHIPMENT TRACKING

SHIPMENT FORENSICS

MACHINE LEARNING

AGGREGATE SHIPMENT
ANALYSIS

ROUTE AND MILESTONE
TIMING ALERTS

ENVIRONMENT ANALYSIS &
ALERTS (TEMP/HUMIDITY/...)

SOP VALIDATION &
RISK MANAGEMENT



ACHIEVING END-TO-END LOGISTICS NETWORK VISIBILITY

SHIPPING LANE A to D (ROUTE A-B-C-D)



- ERP SYSTEMS
- 3PL SYSTEMS
- FLIGHT TRACKING SYSTEMS
- VESSEL TRACKING SYSTEMS
- SHIPMENT METADATA
- ROUTE DEFINITIONS
- CARRIER DATA FEEDS
- HUMAN EVENTS

INSTRUMENTATION



INTEGRATION API

FULL DOMAIN AND IoT DATA LAYER + EVENTS



IoT DATA LAYER

SENSORS, READINGS, GEOLOCATIONS

LOGISTICS DOMAIN LAYER

SHIPMENTS, ZONES, ROUTES, CLIMATES



APPLICATION INTERFACES

- SHIPMENT TRACKING
- SHIPMENT FORENSICS
- MACHINE LEARNING
- AGGREGATE SHIPMENT ANALYSIS
- ROUTE AND MILESTONE TIMING ALERTS
- ENVIRONMENT ANALYSIS & ALERTS (TEMP/HUMIDITY/...)
- SOP VALIDATION & RISK MANAGEMENT