

Supply chain is facing multiple challenges...





... that existing solutions do not fully address



Barcode technology provides no real time tracking and does not avoid errors and loss.



RFiD technology requires a heavy infrastructure and restrictive process.



LoRaWan technology used as geolocalization method provides very poor results.



Vehicle onboard telematics does not enable SKU tracking.





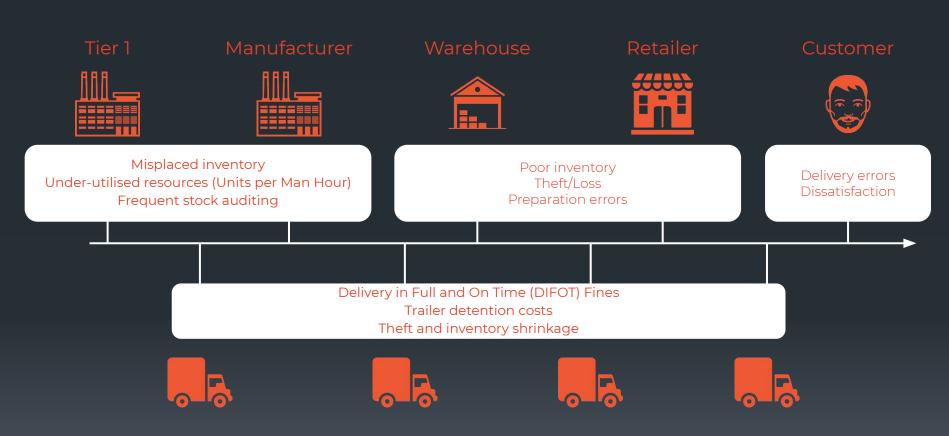
Historic 🕜



Savings X

Accuracy 🔀

Issues with Supply Chain



Vehicle fleets in charge of collections/deliveries



DirectViews

is a Plug n Play asset tracking solution allowing organizations to fully monitor and control their supply chain in real time



Full control over SKUs and flows

DirectView



Continuous real time tracking From production to delivery



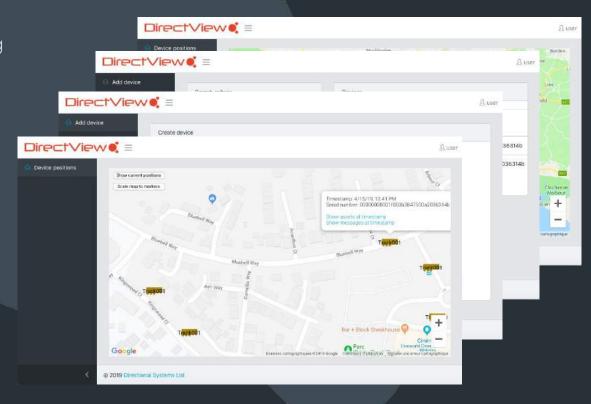
Performance follow-up Dashboard, KPIs and reporting



Security
Geofencing and alerts



Authentication
Unique ID for each SKU or container



Features

DirectView

PopTag

Asset/tracking



PopTag10

- Bluetooth
- · Range 160m
- · 10 year lifetime

PopTag3

- · Bluetooth
- · Range 160m
- · 3 year lifetime

Spotter Static or mobile reads



Spotter

- GPS, GLONASS, SBAS, QZSS, BeiDou and Galileo
- · Worldwide Network Connectivity
- Battery powered with Energy Harvesting Technology



Static on-site modular solution...





Scan - Attach - Track



Scan the tag to register it

into the database



Track
Track SKUs and containers
in real time



Attach

Attach the tag to a SKU or a container



...and/or in itinerary mode



SKU tracking in real time





Collection/delivery follow-up



Remote detection via smartphone application

DirectView



Search and detect PopTags in vicinity



Geofencing and alerts



PopTag registration



Why DirectView?



End-to-end

Lean management with advanced information on production flows.



modular set-up enables simple, customized installation





Supports localisation to sub-metre accuracy



Regular and remote updates and upgradable features



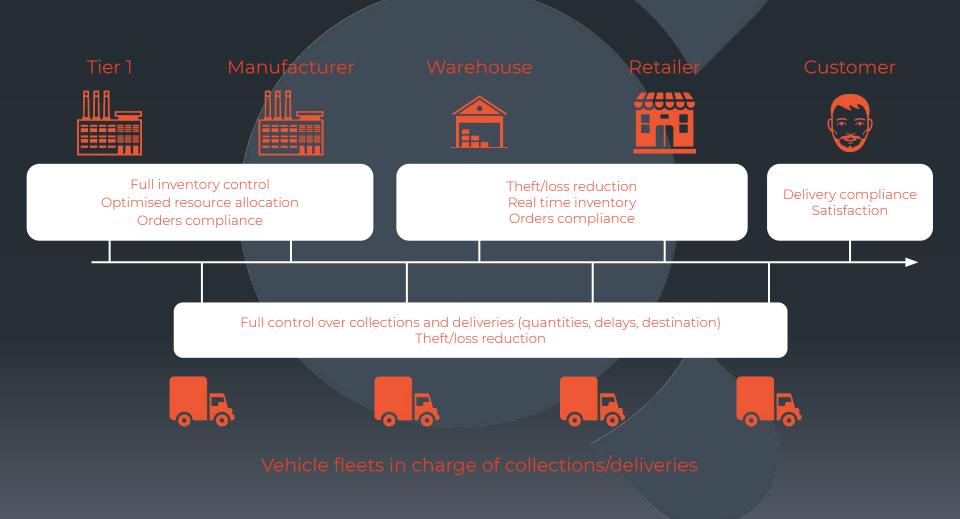
Scalable

Service platform supports increased traffic





End-to-end control of the activity





What benefits?



Control

Complete view of logistical flows in both historical and real-time contexts

Geozone breach Alerts

Collections/Deliveries

Compliance



Simplicity

Ready-made, configurable and evolving solutions

Process Automation

Ergonomic Applications



Savings

Time saving on inventories and SKU localization

TCO improvement with SKU theft/loss reduction

Productivity Improvement







Historic 🕜

Real time

Savings 🔗

Accuracy 🕜





Directional Systems Tracking Ltd.
3700 Parkway
Solent Business Park
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DirectView (

Pricing

A disruptive business model that fits to any company size.

1000000 PopTags

£1/year/PopTag* **
(£0,08/month)

No additional cost Infrastructure provided***

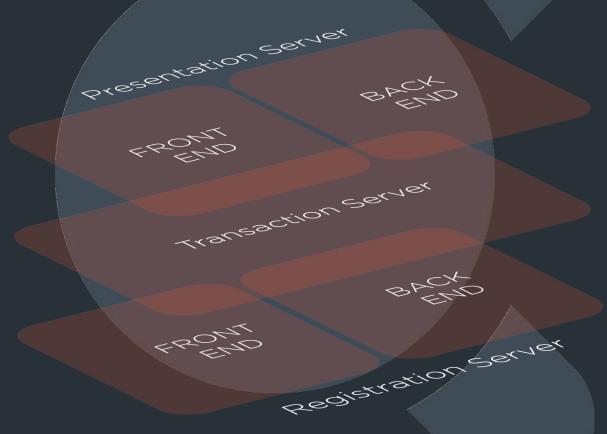
*4 year minimum commitment

** invoiced by quarter in advance

*** Deployment by customer

DirectView .

A simple and robust architecture enabling a consistent, efficient and scalable service.



Full integration to existing customer legacy SI with API & Web Services.

PopTag (

Technical data

PopTag



PopTag10

- Bluetooth LE 4.2 / 5.0
- IP67
- Period 10 seconds
- Range 160 meters
- Dimension 54x25x6,8mm
- Lifetime 10 years

PopTag3

- Bluetooth LE 4.2 / 5.0
- IP67
- Period 10 seconds
- · Range 160 meters
- Dimension 45x25x3,5mm
- Lifetime 3 years

Spotter

Mobile Connectivity

- Dual-Band UMTS/HSPA+ 900/2100MHz
- Quad-Band GSM/GPRS/EDGE 850/900/1800/1900MHz
- Upgradeable to LTE-M/Cat 1

ctive Components

- GPS Location: 16 channel, GPS L1/GLONASS, SBAS, QZSS, BeiDou and Galileo
- Accelerometer: full scale: ±2/±4/±8/±16 g
- Untethered Dead Reckoning: Triaxial accelerometer & triaxial gyroscope
- · Bluetooth LE enabled:
- Measures: 320mm x 150mm x 180mm
- Weight: 1300 grams

Power supply

- Battery: Custom Lithium Ion, 18,200mA, certified to IEC62133
- 12/24V charging



Environmental constraints

Operating ambient temperature: -30°C to /85°C

- Non-operating temperature: <-30°C >85°C
- · Protection: IP67 dust and immersion
- · Patented battery protection
- Patented outgassing protection
- Certified to CE, WEE, RoHS, IP67

