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Intelligent Hinterland Integration into Ports and Logistics Hubs

Mar 11th - 13th, 2025

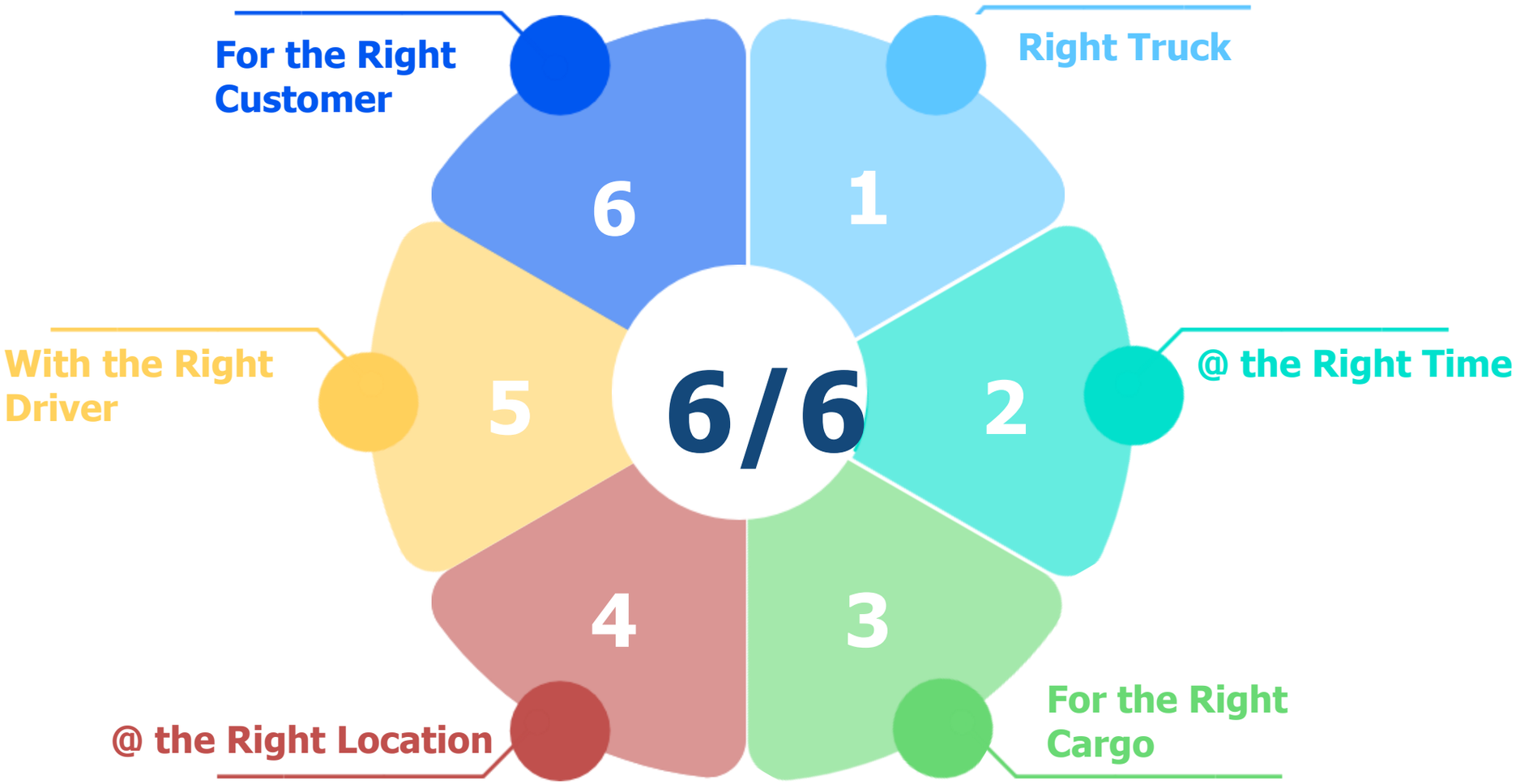
What **Ports/Hubs** Want from the Hinterland

- **More transactions**
- **Flattening of the curve**
- **Min. truck turn-around time**
- **Less incoming trucks**
- **Less Carbon Footprint**
- **Better Yard Capacity**

What the **Hinterland** Wants from the Ports/Hubs

- **High Visibility**
- **Flexible arrival**
- **Synchronization**
- **Less Carbon Footprint**
- **Min. truck turn-around time**
- **No Waiting**

What **Ports/Hubs** Want from the Hinterland



Hinterland Cycle

Basics

Assume "No Friction":

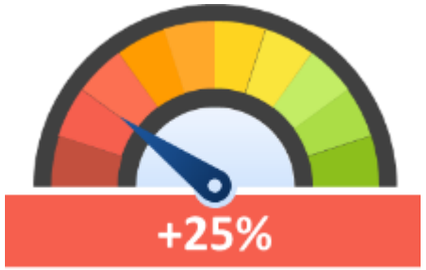
- Info before arrival of trucks
- Booking/appointment system
- Digitalize pre-gate and out-gate processes
- Install eGates, auto-Weighing
- Capacity management of everything – MAXIMIZE
- Operate at max efficiency … all the time

Friction is:

- Teamsters
- Labor Unions
- Trucking unions
- Equipment shifting
- Equipment maintenance
- Traffic outside the port
- Capacity Management at adjacent ports

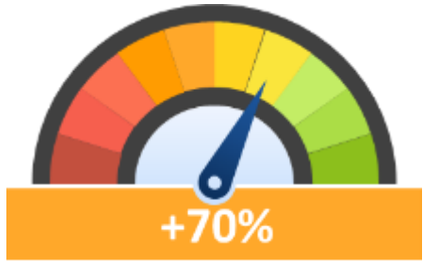
Hinterland Cycle Efficiency by Mode

Maximize Port/Hub Capacity



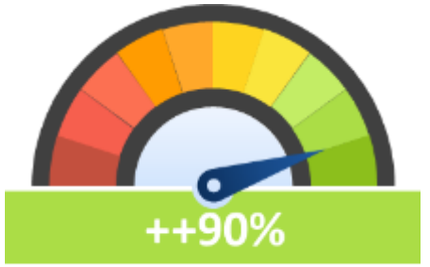
Standard Booking

- Operate at your own risk of congestion
- Deal with truck waiting times, outside the port
- High truck dwell times
- More delay at the gate
- Slow port gates
- Negative environmental effect
- Higher hinterland transport costs



Truck Appointment

- Digitalizes a wide part of the Hinterland cycle
- Very small Infrastructure investment
- Prone to port Friction
- Pre-determined capacity = max capacity
- Open slots are lost capacity
- Data analytics yield negligible enhancement
- Port specific, negative optimization of Logistics for multiple ports in one zone



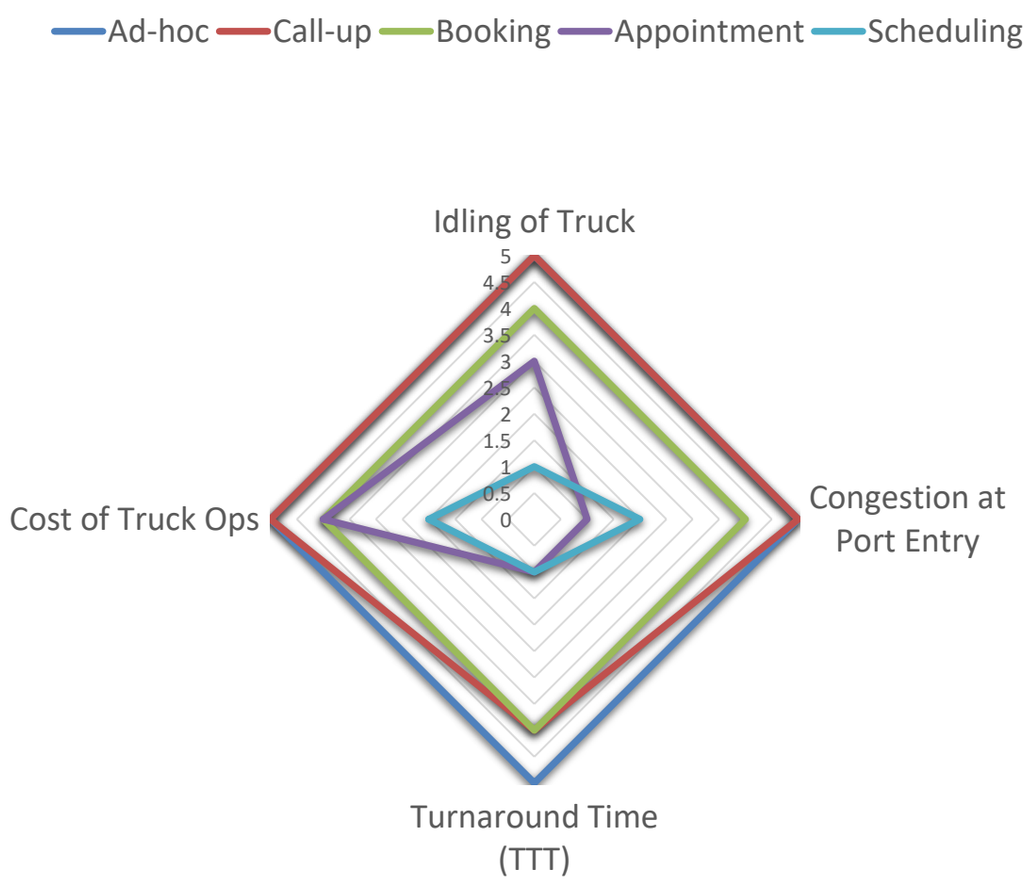
Scheduling Appt

- Step up from the Appointment System
- Mutes Friction effects
- Operate at max capacity, or even higher
- Apply Data analytics to reach extreme optimization
- Close coupling with Yard and Berth cycles
- Requires minor infrastructure investment
- Can be a Port Authority project to add an extra layer of logistics optimization

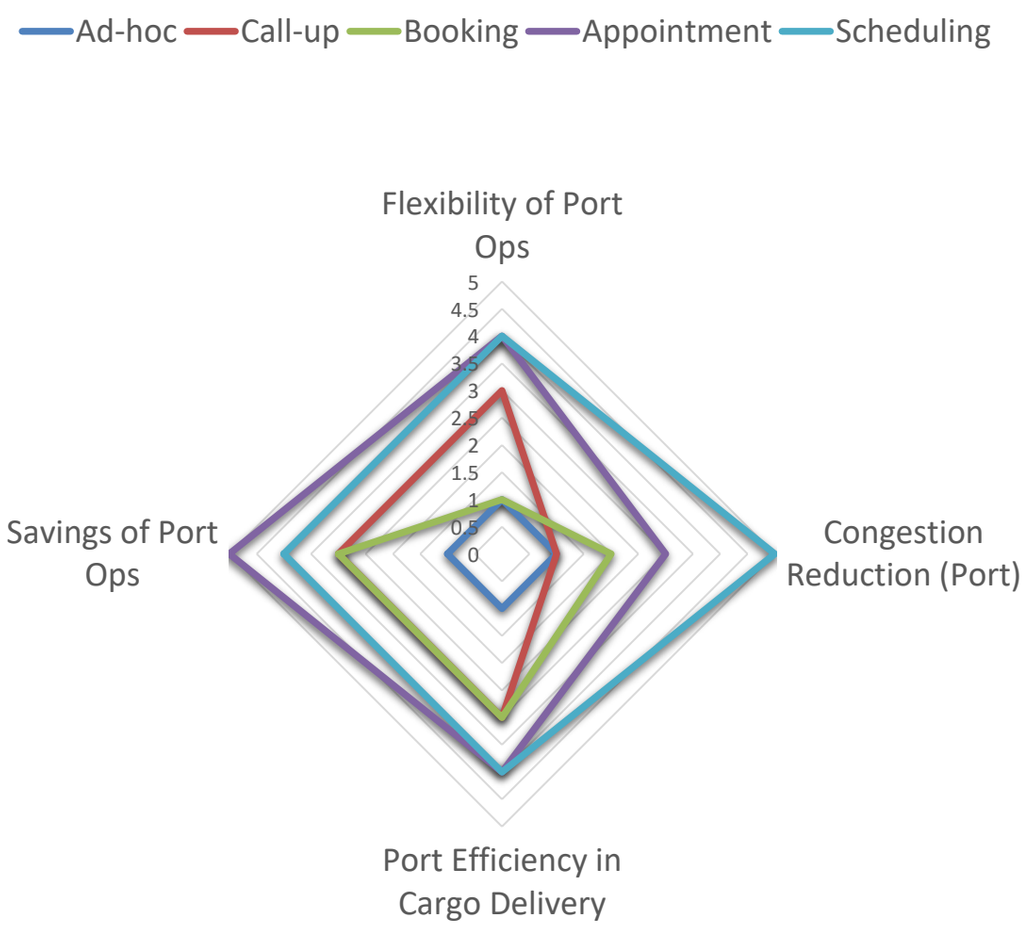
Hinterland Cycle Efficiency by Mode

Maximize Port/Hub Capacity

From Perspective of Transporters



From the Perspective of Ports/Hubs



Source: Whitepaper: Comparative Analysis of Truck Control Systems for Logistics Centers, 2024

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eKiosk
Ruggedized and Environmentally controlled containing
Edge computing with AI and IoT capabilities
Integration with T.O.S or other control systems
[IoT]
[AI]
[RFID]
NFident
supply chain identification

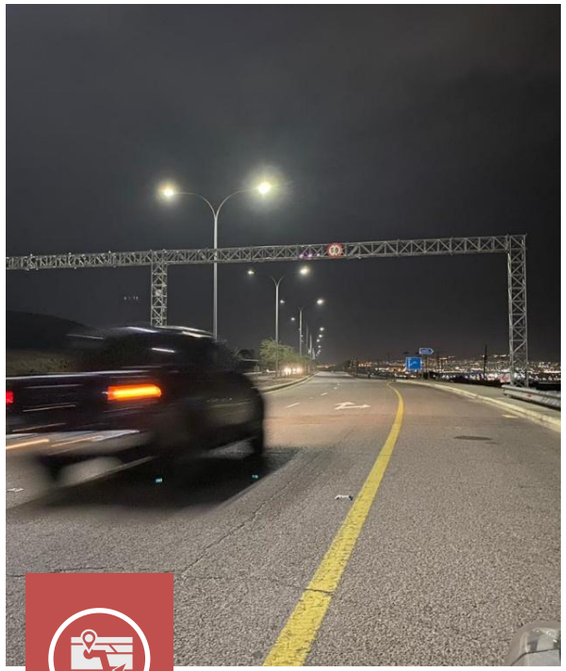
NFident
supply chain identification

In-House Technology

iGates

Centrally controlled

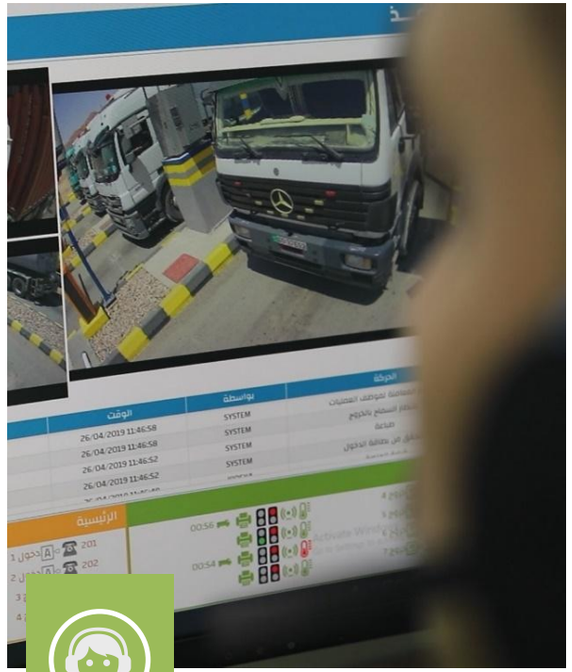
iGates are manufactured and delivered by NFIDENT, a wholly owned factory/subsidiary of Nafith



iPortals

Sense everything

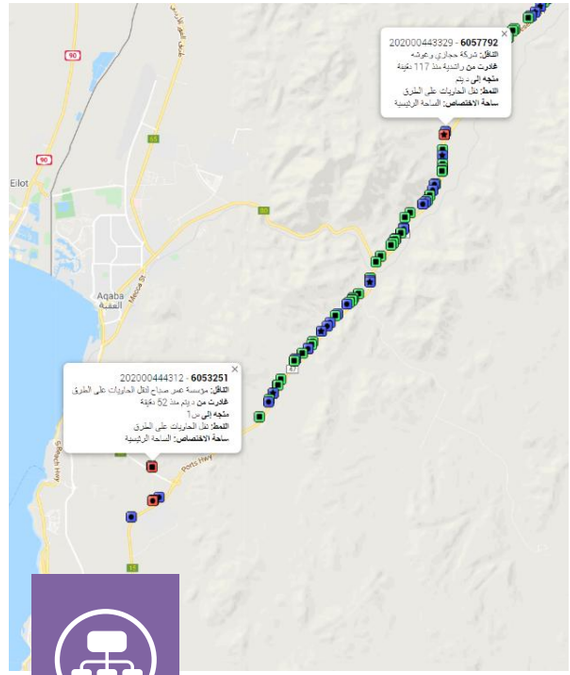
iPortals Categorize vehicles, streamlined monitoring, using Deep Learning/Vision



CC Center

Control & Monitor

Command and Controls Center that covers all logistics events and interventions



Data Systems

NFlow, NCheck, NStar

Apps are web, mobile, GIS, Data Analytics, Dashboards, all accessible within one centralized entry point

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supply chain identification

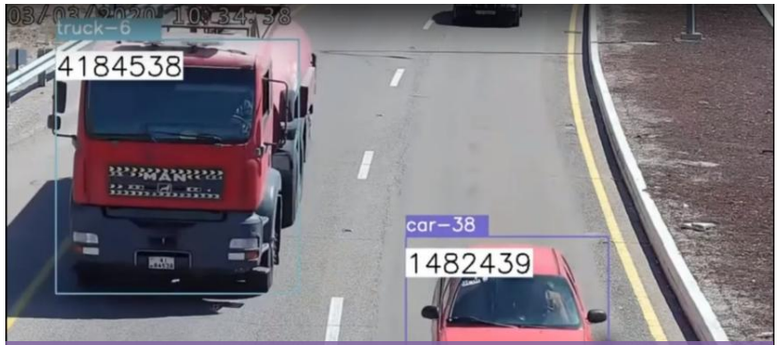
In-House Technology

IoT, D/L, Edge Tech

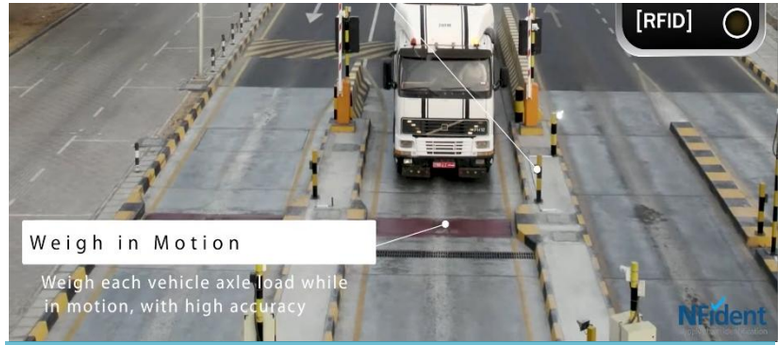
eSeals
Secure Cargo on the Move

eID Cards
Long Range For Truck drivers and Access Mgmt

Truck eID
Secure RFID tags, Trailer/Chassis eSeals



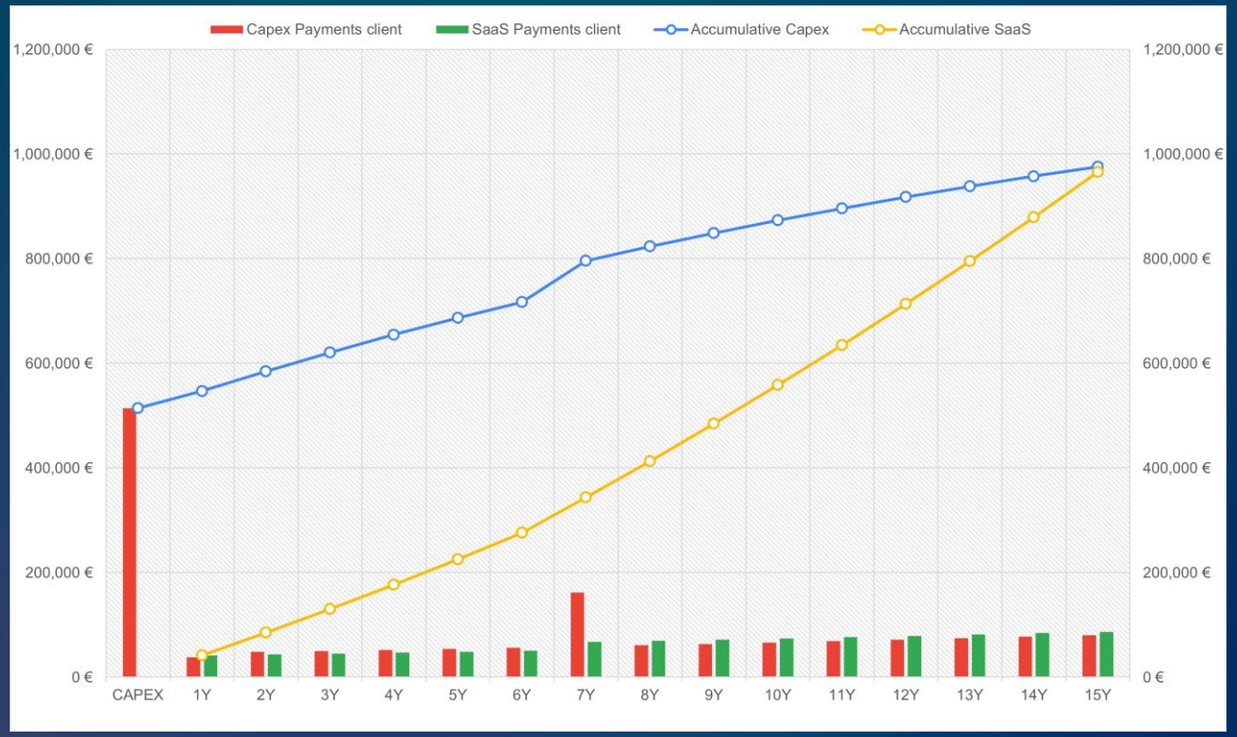
Deep Vision
Deep Learning Edge Technology for Traffic Sensing



Weigh In Motion
Axle Load Mgmt, Advanced Vehicle Sensing

Internet of Things
Continuous Development into the Future

"SYSTEM AS A SERVICE" (SAAS) MODEL



CAPEX VERSUS OPEX

NO UPFRONT PAYMENTS

Huge capital investments.
Uncertainty
Long term investment

LOWER YOUR RISK

Manage your financial risk in a better way by spreading costs over time

TOTAL COST OF OWNERSHIP

Free up cash flow to spend on other projects/investments

ECONOMIC CHALLENGES

SaaS will help you to minimize economic risks

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What's in it for Ports/Hubs

SaaS Cost / Benefit

- Supports ports, marshalling yards, free zones, special economic zones
- Containers, General Cargo, RoRo, Chemicals
- Deep Integration of hinterland with your operations, TOS, other systems, up to the iGate
- Trucks, trains and all other modes
- Seamless weighing of cargo (LSWIM, Weighbridge)
- Hazmat detection and management
- Cut down truck turn-around time
- Optimized hinterland access

- One Vendor
- No licensing costs
- No hidden costs
- No changes costs
- SaaS Model
- High availability
- Max redundancy
- Grows with you
- Changes with you

Thank You

Please visit our Booth!