NFident

Intelligent Hinterland Integration into Ports and Logistics Hubs

July 2nd - 4th, 2024



What Ports/Hubs Want from the Hinterland

What the Hinterland Wants from the Ports/Hubs





Min. truck turnaround time



Less Carbon Footprint



Less incoming trucks

Better Yard Capacity



Flexible arrival



Synchronization



Min. truck turnaround time ГĨ

Less Carbon Footprint





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



- 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 System

- 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



e Kiosk

Ruggedized and Environmentally controlled containing Edge computing with Al and IoT capabilities Integration with T.O.S or other control states in the





Tools & Technology

IoT, D/L, Edge Tech





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



Tools & Technology

IoT, D/L, Edge Tech



Nafith



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





Platforms are web, mobile, GIS, Data Analytics, Dashboards, accessible within a centralized entry point



What is in it for Ports/Hubs

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 vehicles
- Seamless weighing of cargo (LSWIM, Weighbridge)
- Hazmat detection and management
- Cut down truck turn-around time
- Optimized hinterland access



- 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!

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