NFident

Intelligent Hinterland Integration into Ports and Logistics Hubs

May 29th, 2024

NFident

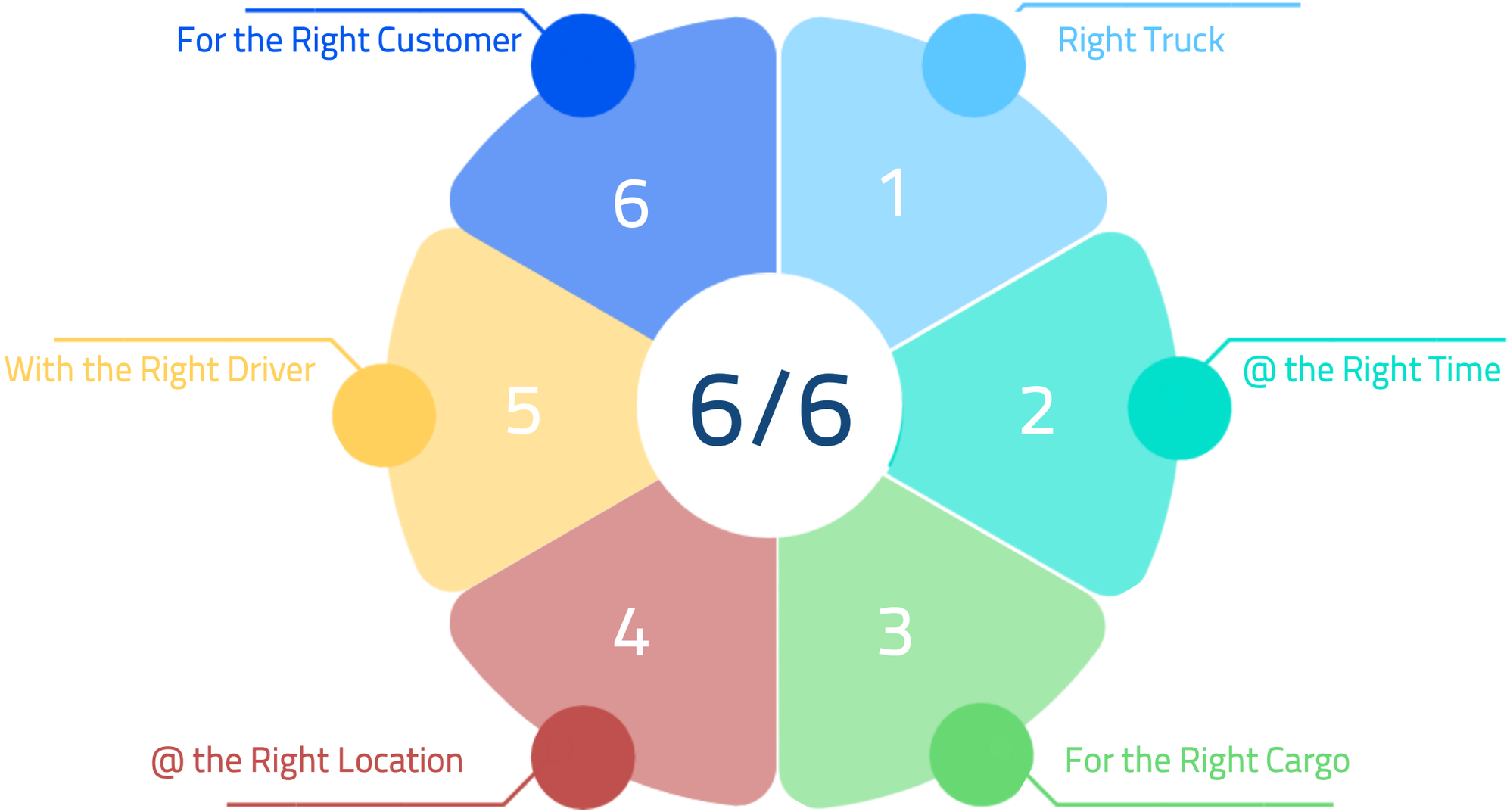
What Ports/Hubs Want from the Hinterland

- 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":

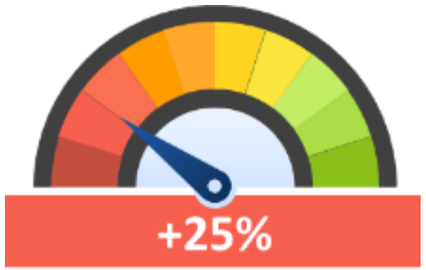
- Info before arrival of trucks
- Booking/appointment system
- Digitalize pre-gate and out-gate processes
- Install eGates, auto-Weighing
- Capacity management of everything – MAXIMIZE
- Operate at max efficiency … all the time

Friction is:

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

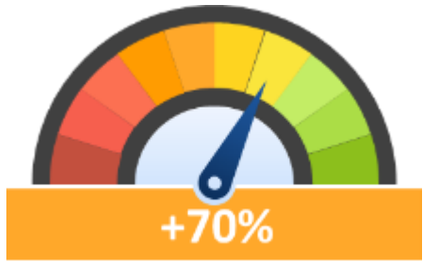
Hinterland Cycle Efficiency by Mode

Maximize Port/Hub Capacity



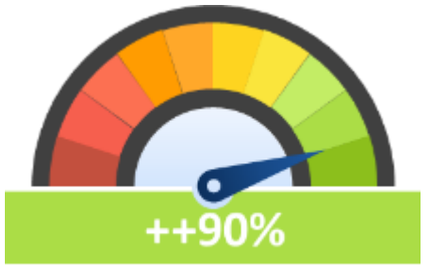
Standard Booking

- 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 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

Nfident iGates

for Logistics Hubs

Click to PLAY video

Tools & 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

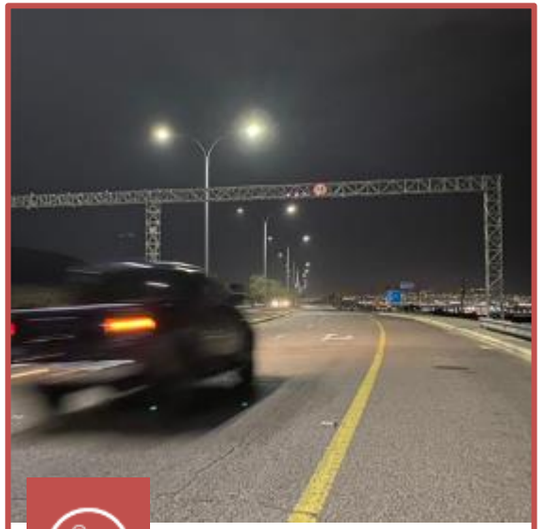
Tools & Technology

IoT, D/L, Edge Tech

iGates

Centrally controlled

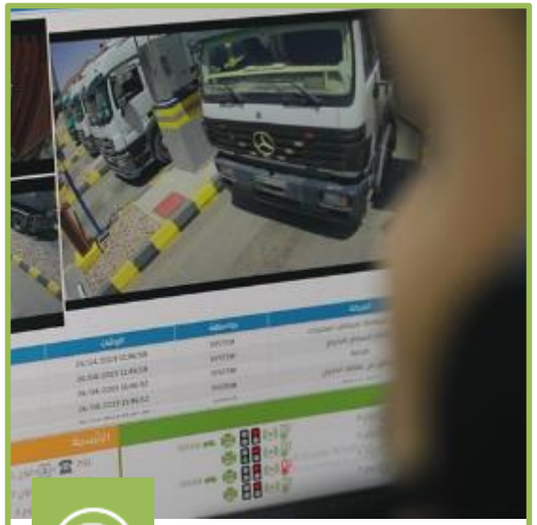
iGates are manufactured and delivered by NFIDENT, a wholly owned factory/subsidiary of Nafith



iPortals

Sense everything

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



CC Centers

Control & Monitor

Command and Controls Center that covers all logistics events and interventions

Logistics Systems

NFlow, NCheck, NStar

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

Thank You

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