Developing Smart Port Ecosystem

Cikarang Dry Port’s experience in Internet of Things implementation

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Sea Port Terminal Revolution

1. Ship loading/unloading
2. Loading to truck
3. Truck to Container Yard
4. Container Yard
5. Truck to Railway or truck to inland terminal
6. Train on railway to inland terminal
Connecting hinterland industries to the seaport with **hub & spoke concept**
Direct Export and Import

Seaport Abroad

Tanjung Priok (IDJKT)

Shipper / Consignee

Smart Port Ecosystem

CDP (IDJBK)

Ocean Freight + Inland Haulage

Multimodal Transport Bill of Lading by Shipping Lines

Feeder Trucking by Consignee / 3PL

IMPORT

Ocean Freight + Inland Haulage

Multimodal Transport Bill of Lading by Shipping Lines

Feeder Trucking by Shipper / 3PL

EXPORT
200 ha of integrated port & logistics facilities
Emplacement at the seaport

Seaport – Dry Port Railway Connectivity
Benefits

- Expand and Explore the market
  Connecting strategic industrial zones and getting closer to the markets

- One Stop Service Solution
  Port, Customs, and Quarantine are located and integrated in the same area

- Better Visibility and Certainty
  Predicted lead time and cost using Multimodal Transport Bill of Lading

- Faster Transit Time
  6 days total lead time Lat Krabang – Cikarang including 3 days sailing time

In Cooperation With

- Service First
- Customer’s Satisfaction is Our Priority
- Fastest Transit Time in The Market
Smart Port Ecosystem

Linking entire Port Ecosystem Using Smart Port Technologies

PORT STAKEHOLDERS

- Shipping Lines
- Seaport Operators
- Traders
- Industry 4.0
- Forwarders
- Banks
- Customs/Quarantine
- Tax
- Train Operators
Smart Port Development Steps

- Electronic Seal
- Automatic Gate
- Trucks Membership
- Containers to Trucks Assigning
- Mobile & Web Application
- Online Documents Validation: TPS Online & e-DO
- e-Billing & e-Payment
- Online Documents Validation: e-Billing & e-Payment
Bonded transfer with **electronic seal** for monitoring and cargo security
Automatic Gate System
MyCDP: Cikarang Dry Port’s services at your fingertips

1. Container Tracking
2. Monitor Reefer Data
3. Assigning Forwarders and Transporters
4. Order Feeder Trucking
5. e-Billing & e-Payment (for version 2.0)
Conclusions

1. Smart Port System empowered by Internet of Things interconnect every parties and stakeholders for more efficiency productivity.
2. Smart Port innovation creates and facilitates new market and opportunities for port business
3. Possible further developments: marketplace for trucking services, warehousing services & commodities marketplace, etc.

Thank you very much.
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