

The Role of Technology in Trade Facilitation

Y3 Technologies | Sept 09 2016

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Introducing Y3

Y3 Technologies is a forward thinking organisation reinventing the way businesses respond to tomorrow's needs for a positive future.

Solutions that supports **700,000sqm** & half a million pallet space and growing

Our Offices:



| | | |
|---|---|--------------------------------|
| 50,000 orders weekly | 50,000 transactions per day from 11,000 connected POS | Over 200 Global Talents |
| Management of 120,000 different SKU at any point in time | 1.8M members | |

USD50 billion worth of annual flow through managed

Chennai Jakarta Shanghai Singapore Tianjin

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Content Overview

1. Current Context and what it means for Trade Facilitation
2. How Technology can Enhance Trade Facilitation
3. Key Consideration Areas

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Current Context: Evolution of Big Data Analytics

Skill Levels Required

Level of Business Impact

Evolve From Descriptive and Diagnostic to Predictive, and Prescriptive*

Report Dashboards

Data Discovery

Forecasting, Simulation

Planning, Optimization

What happened?

Why did it happen?

What will happen?

What should I do?

Descriptive

Diagnostic

Predictive

Prescriptive

Information Patterns

*Adapted from Gartner

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Current Context: The Manufacturer's Supply Chain Journey

Potential Areas for Embedding Technology-Driven Capabilities:

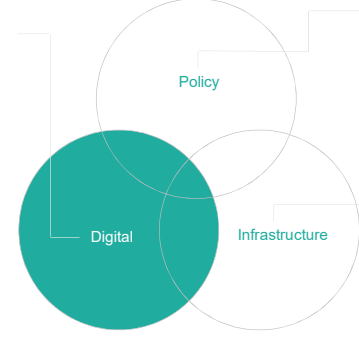
- Procedural Delays** – Multiple Customs Inspections, Insufficient Customs Officers, Excessive Documentation
- Tracking** – Time-Sensitivity, Replenishment Cycles
- Security** – Insurance, Safety Stocks
- Financing** – Accessibility to Working Capital

3. Customer 1
Indonesia
Finished goods are shipped out via Sea from Thailand to Indonesia.



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Enhancing Trade Facilitation: A Conceptual Framework



Digital Data Exchange & Connectivity Platform

- On-Demand Warehouse & Transport Services
- Promotion of Shared Resources
- Expedited Customs Clearance
- Cross-Border Currency Exchange
- Data-driven provisioning of

Policy

- Governance & Entity Set-up
- Platform Adoption
- Data Security
- Regulation

Infrastructure

Centralized Multi-Modal Hub

- Management of physical assets
- Planning & Optimization of Assets

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Enhancing Trade Facilitation: Information Exchange & Connectivity Platform

Who would respective data be collected from?

What types of data are needed?

How will data be collected?

| | | |
|---|------------------------------|---------------------------|
| Truck Operators/Shippers/Freight Forwarders | eCustoms Systems | Financial Institutions |
| Container Load Capacity | Schedules & Shipment Notices | Warehouse Capacity |
| | Customs Documentation | Profiling & Credit Rating |
| Devices – Embedded Sensors, Mobile Phones, GPS/Telematics, RFID | | |

Middleware Integration

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Information Exchange & Connectivity Platform: Data-Driven, On-Demand Services & Shared Resources

Supply of Goods (Manufacturer & User)

Cargo

Best Matched Price Performance – Bid/Buy/Exchange

Supply (On Demand Services)

Transport

Trade Financing

| | | |
|--|------------------------------|---------------------------|
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Information Exchange & Connectivity Platform: Key Consideration Areas

1. Platform Operator –
Set-up of Public-Private Partnership
2. Regulations to Ensure Data Security –
Promotion of Mutually Beneficial Interests & Arbitration
3. Integration of with Electronic Customs Systems
Streamlining & Standardizing of Clearance & Processing
4. Application of Technologies –
From Country-level to a Regional Level

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