

# Terminal Operators Conference 2018

Presented by: David Wignall Date: April 2018

## Key talking points

- Insight into latest developments and challenges of Asia and Middle East infrastructure projects?
- The impact of the new alliances and implications for regional ports?
- The impact of OBOR and future investment across Asia and Middle East?
- The winners and losers for transhipment hubs in Asia and Middle East?
- Where are the emerging ports in Asia and Middle East?
- What impact do the increase of trade free zones have on the increased port activity?
- 'If you build it, they will come' Is this no longer a viable strategy for port development?



#### **Forecasting container volumes**

- Top down
  - Overall scale of world economy
  - How the world will evolve
  - Percentage share for specific trades/countries
- Hinterland growth
  - Link between GDP (or an element of GDP) and TEU throughput
  - Changes in the hinterland (including SEZs)
    - Economy
    - Competition
- Bottom up
  - Survey of potential users
  - Understand each generator and its sector
  - Build a model of the hinterland



# Supply and demand balance

#### Demand

- India(?)
- Indonesia
- Bangladesh
- Philippines
- Myanmar(?)
- Cambodia

#### Capability

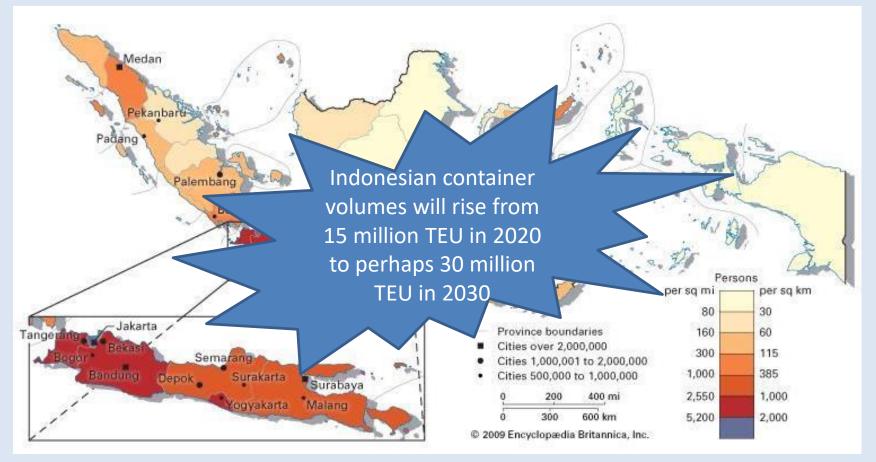
- India(?)
- Indonesia
- Bangladesh
- Philippines
- Myanmar
- Cambodia

#### Over supply/competitive

- China
- Thailand
- Vietnam
- Sri Lanka
- Malaysia



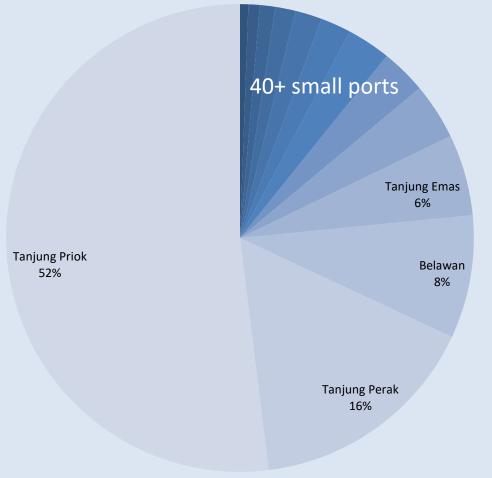
#### Indonesia the last great container story



Driven by: Population (consumption), GDP, Manufacturing, Mining, FDI... Probable headline container growth same as GDP (5 to 7%)



#### International container volumes



- 95% of imports and exports by volume are handled through Indonesia's ports
- Almost all manufactured goods are handle in containers through public ports (most coal, grains and other commodities are handled at special terminals)
- Tanjung Priok dominates international container handling in Indonesia
- Just 4 ports handle over 80% of all international containers in Indonesia
- Tanjung Perak acts as the main hub for domestic containers with Tanjung Priok providing a supporting role
- Only Tanjung Priok is capable of handling ships over 8,000 TEU



# **Opportunities in the "big" ports?**

- Tanjung Priok, able to handle 18,000 TEU ships
  - Forecast 12m TEU, Capacity 14.0m TEU
  - Existing capacity 7.5 to 8.5 m TELL(NPCT1, JICT)

m+

- Planned capacity 3.0 to 3.5m T/
- Planned comp
- Tanjung Perak abl
  - Fore
  - Existing
- Belawan 🕟
- Semarang, able <sup>-</sup>
  - Plans impractial, will be capacity limited, no competition

TEU ship

- Makassar, able to handle 6,500 TEU +ships
  - Capacity to significantly exceed demand in Pelindo IV are to be believed

No competition developing in the

big commercial ports as

envisaged by Shipping Law

17/2008. Few significant

opportunities to take advantage

of the last great story...



MAL, T300)

hips

g to handle 18,000 TEU+ ships

wosals)

### Central Java's port, Tanjung Emas

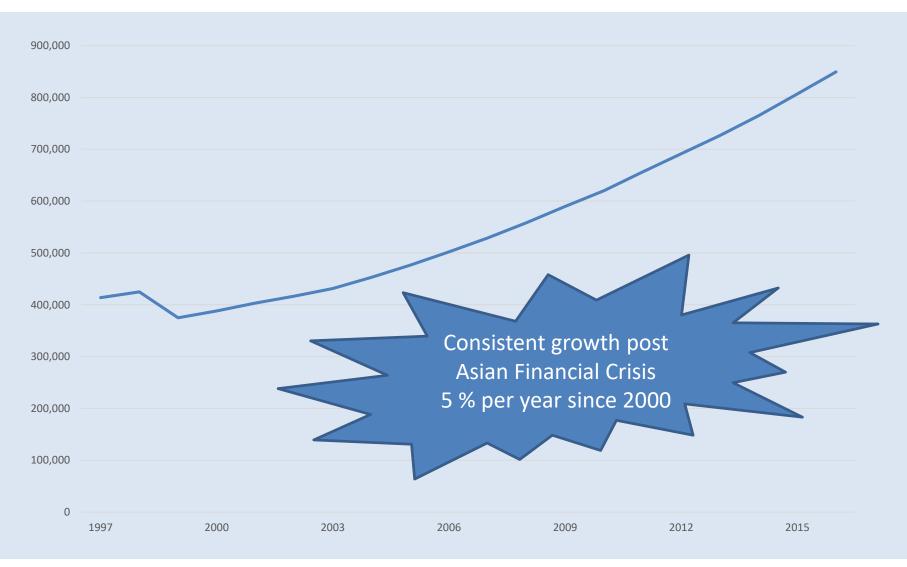
#### User reports:

- Semarang "at capacity"
- Terminal inadequate for future of Central Java
- Needs to attract larger ships and Intrasian calls (needs channel dredged)



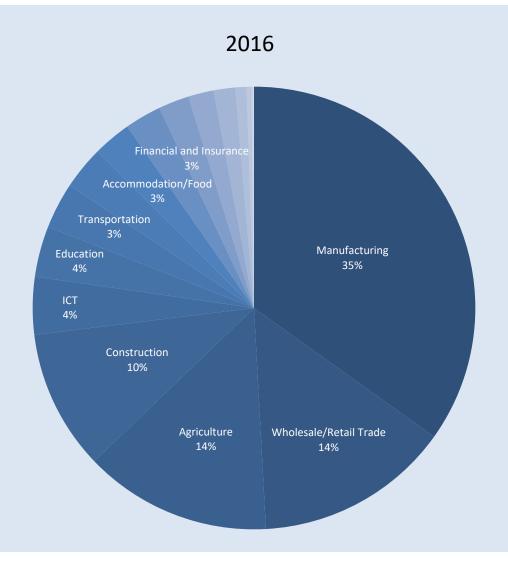
Good

#### **Central Java GRDP Growth**





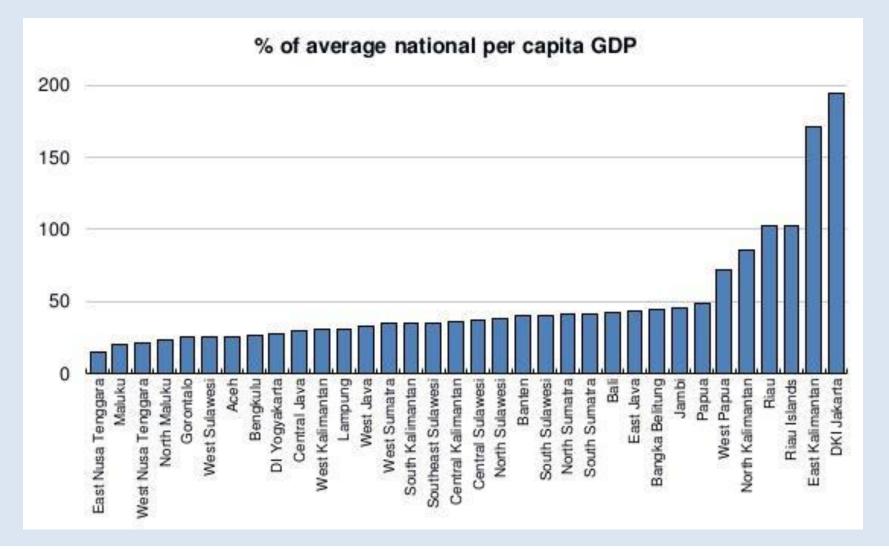
#### **Structure of economy of Central Java**



- Manufacturing is the dominant sector in Central Java
- It is growing in importance increased from 30% in 1999
- Construction is supporting the manufacturing sector
- Otherwise economy stable in structure



#### Headroom for growth...



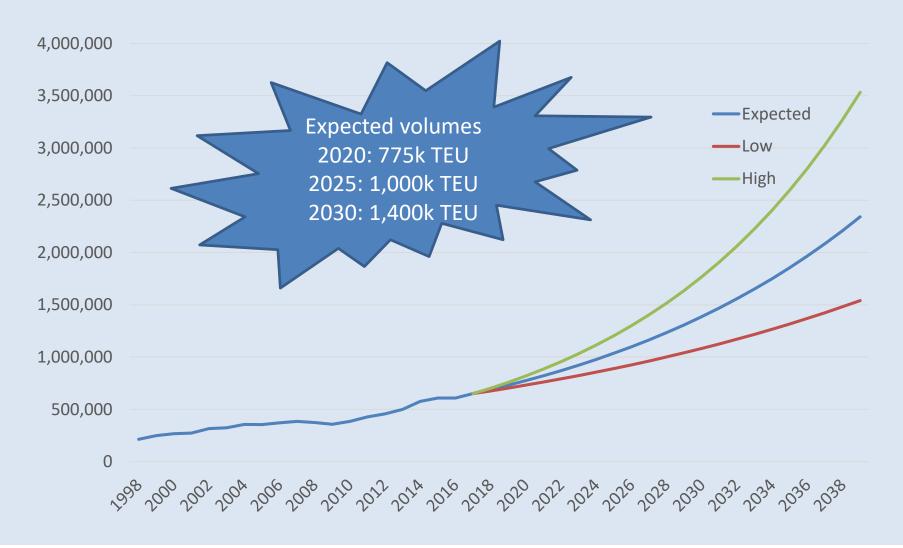


#### **Throughput analysis**

#### Type of box (box) Type of traffic (TEU) OH 20' Full 0% Out Domestic 1% 40' Empty In Domestic 9% 2% 20' Full 31% Import 47% Export 50% 40' Full 54% 20' Empty 6%



#### **Spread of potential forecasts**





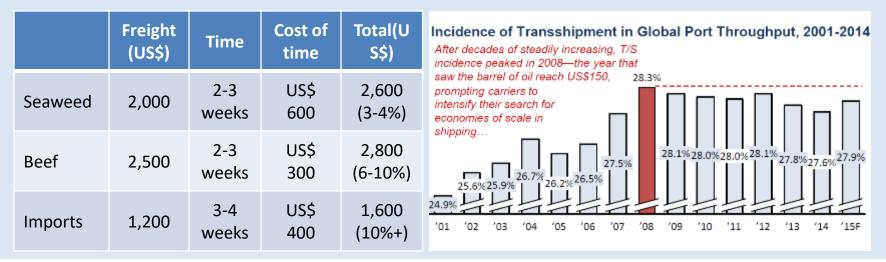
#### Key users

- 10-16 ships a week 200-2,000+ exchanges
- International lines (capacity 600-2,800+ TEU)
  - MSC, weekly to Malacca Straits and China
  - MCC, weekly to Malacca Straits and China
  - Evergreen, weekly service to Malacca Straits/Yangon
  - Zim, weekly service to Hong Kong and Shanghai
  - SITC, Wan Hai etc...
- Domestic lines (capacity <300-1,800+ TEU)
  - Samudera, slot charters
  - Meratus, slot/time charters



#### Losing connectivity

- The imminent arrival of the big ships
  - Most middle east, European and US services will be provided by 12,000 to 18,000 TEU ships
  - Intra-asia services are moving rapidly to 8,000 to 12,000 TEU ships
  - Feeder services are moving to 3,500 to 5,000 TEU
  - Ports unable to handle these services will be bypassed and the transport costs of their hinterlands will increase





### **The Hinterland of Tanjung Emas**



	Jakarta	Surabaya
Distance to Semarang	420 km	260 km
Time to Semarang using Toll Road	10 hours	7½ hours
Road haulage cost for a 20' container	US\$ 625	US\$ 455



### Impact of Solo-Semarang Toll Road

	Distance (km)	Time (hours)		Cost for 40' container (US\$)	
		No toll	With toll	No toll	With toll
Semarang (Tanjung Emas)	85	4	2.5	250	150
Surabaya (Tanjung Perak)	220	7	-	400	-
Jakarta (Tanjung Priok)	470	12½	-	750	-









# Thank you