

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

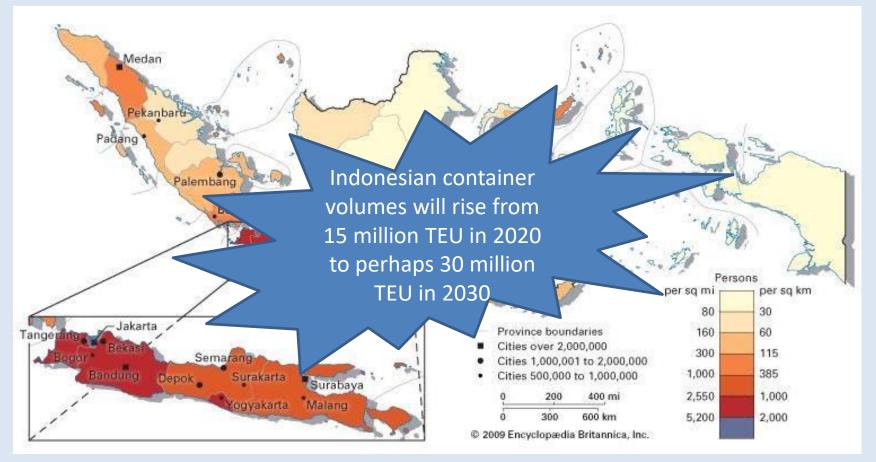
- India(?)
- Indonesia
- Bangladesh
- Philippines
- Myanmar
- Cambodia

Over supply/competitive

- China
- Thailand
- Vietnam
- Sri Lanka
- Malaysia



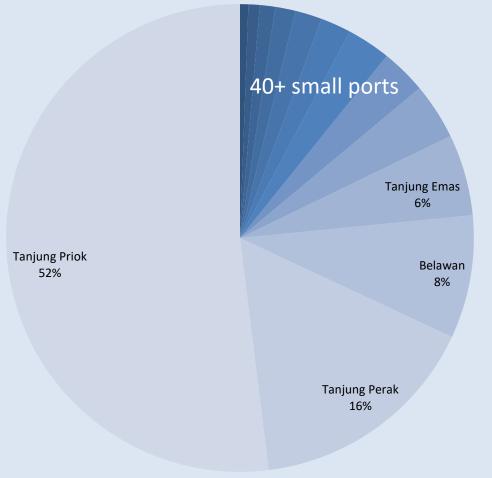
Indonesia the last great container story



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 ⁻
 - 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

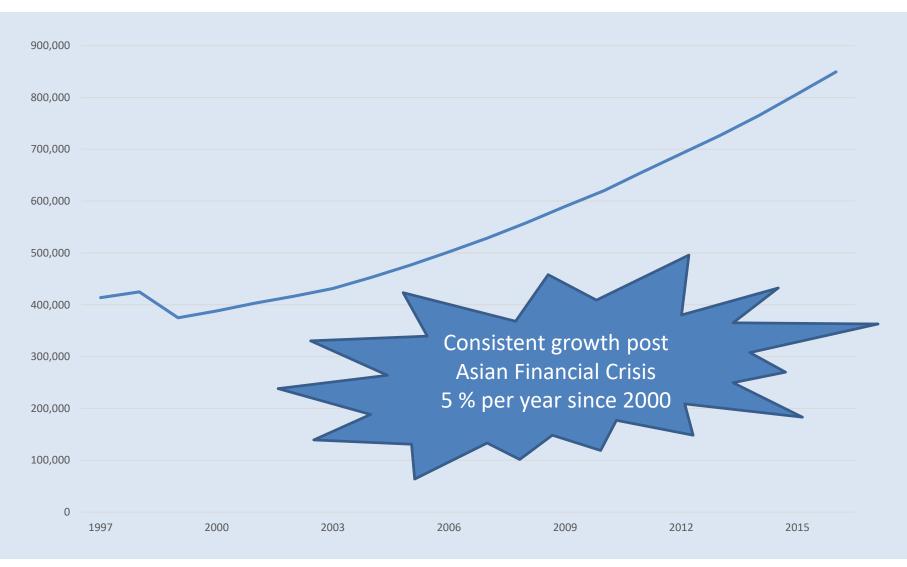
User reports:

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



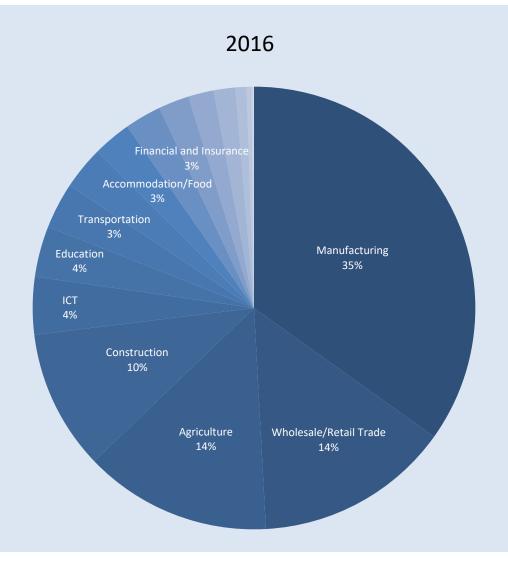
Good

Central Java GRDP Growth





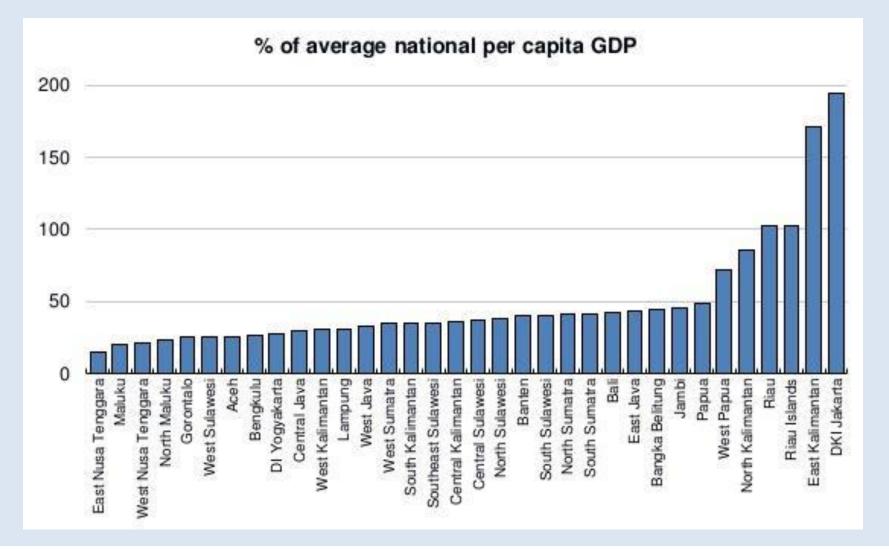
Structure of economy of Central Java



- 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...



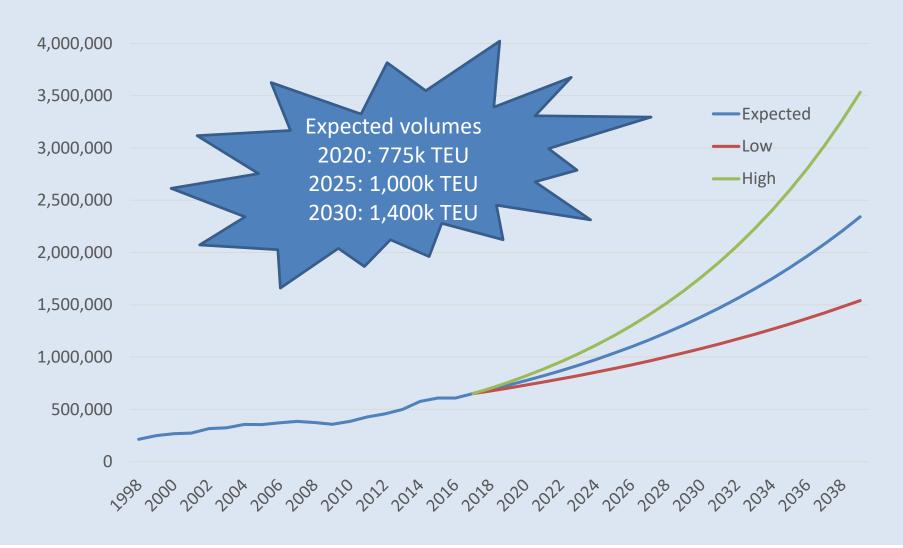


Throughput analysis

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





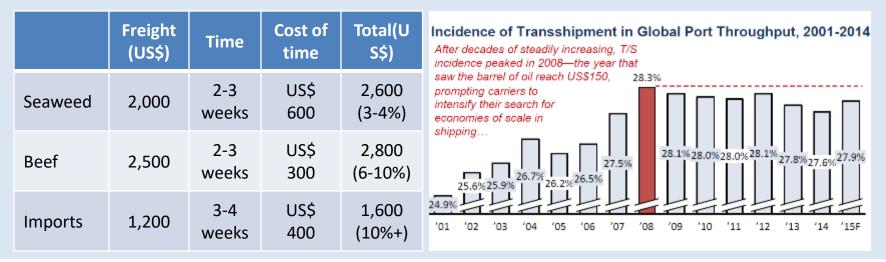
Key users

- 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