

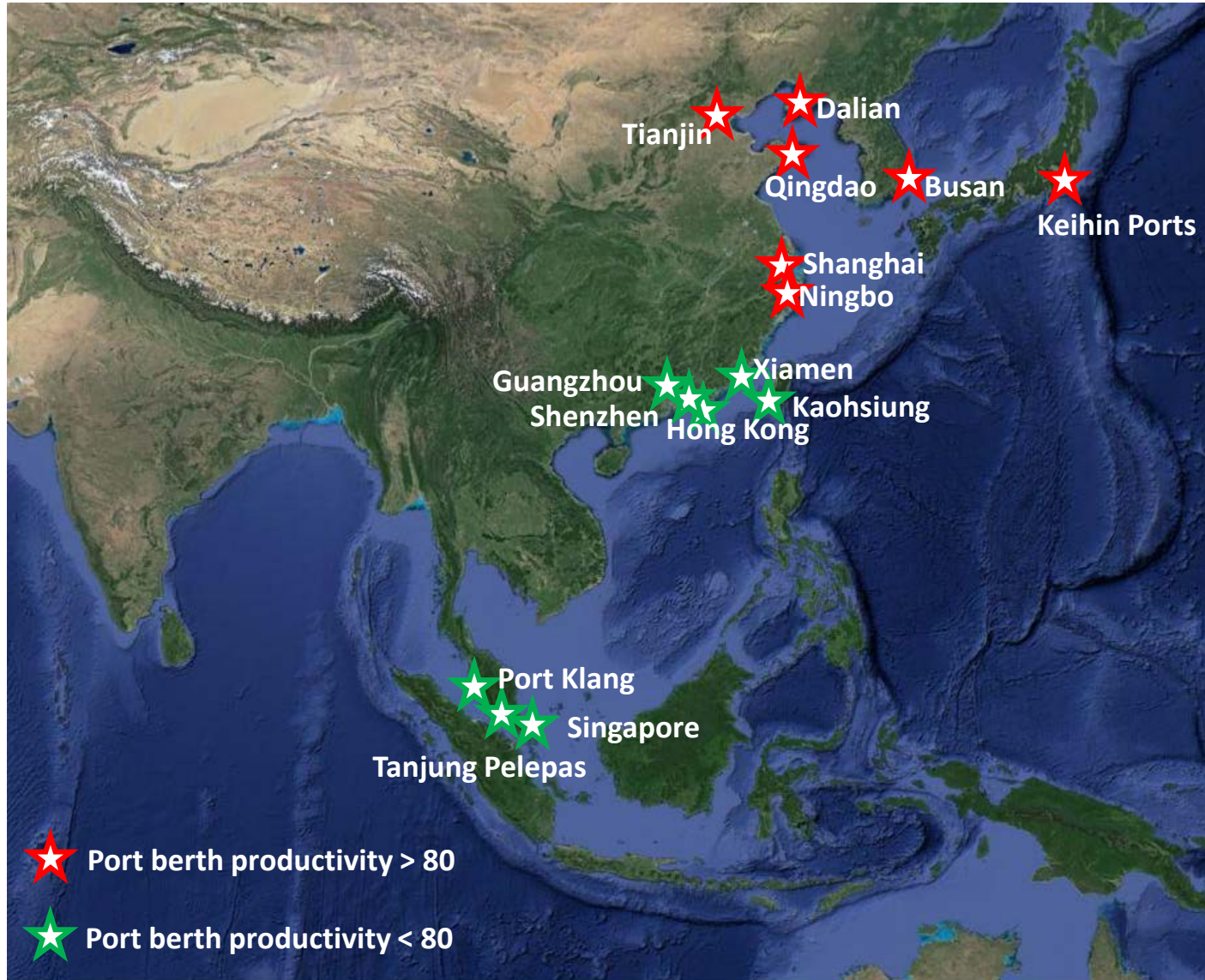
TPM Asia Conference 2013 – Port Productivity

By Gerry Yim

16 Oct 2013



Port productivity – A regional summary

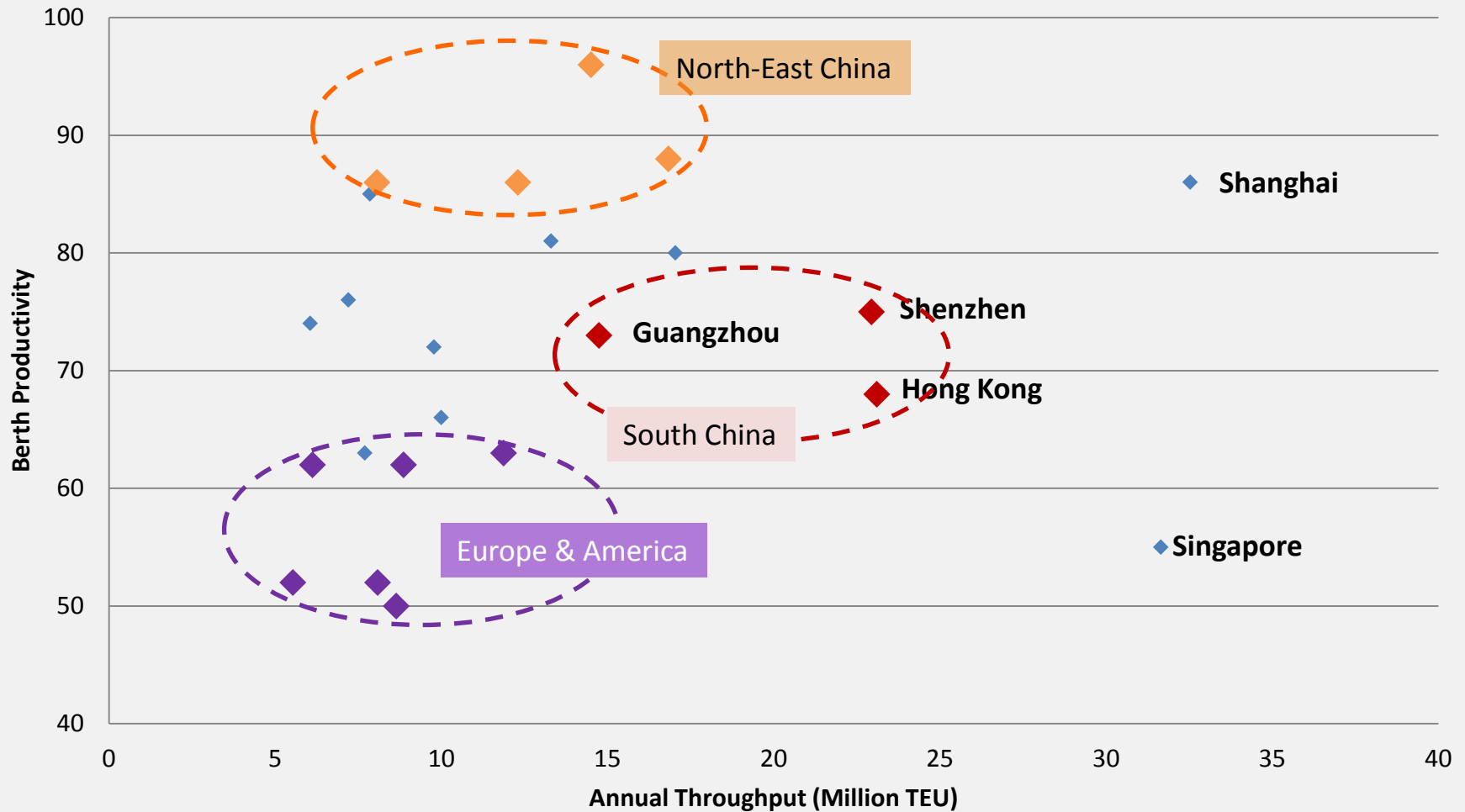


source: 1. JOC Port Productivity, July-2013;
2. <http://www.worldshipping.org>

Regional performance – a comparison

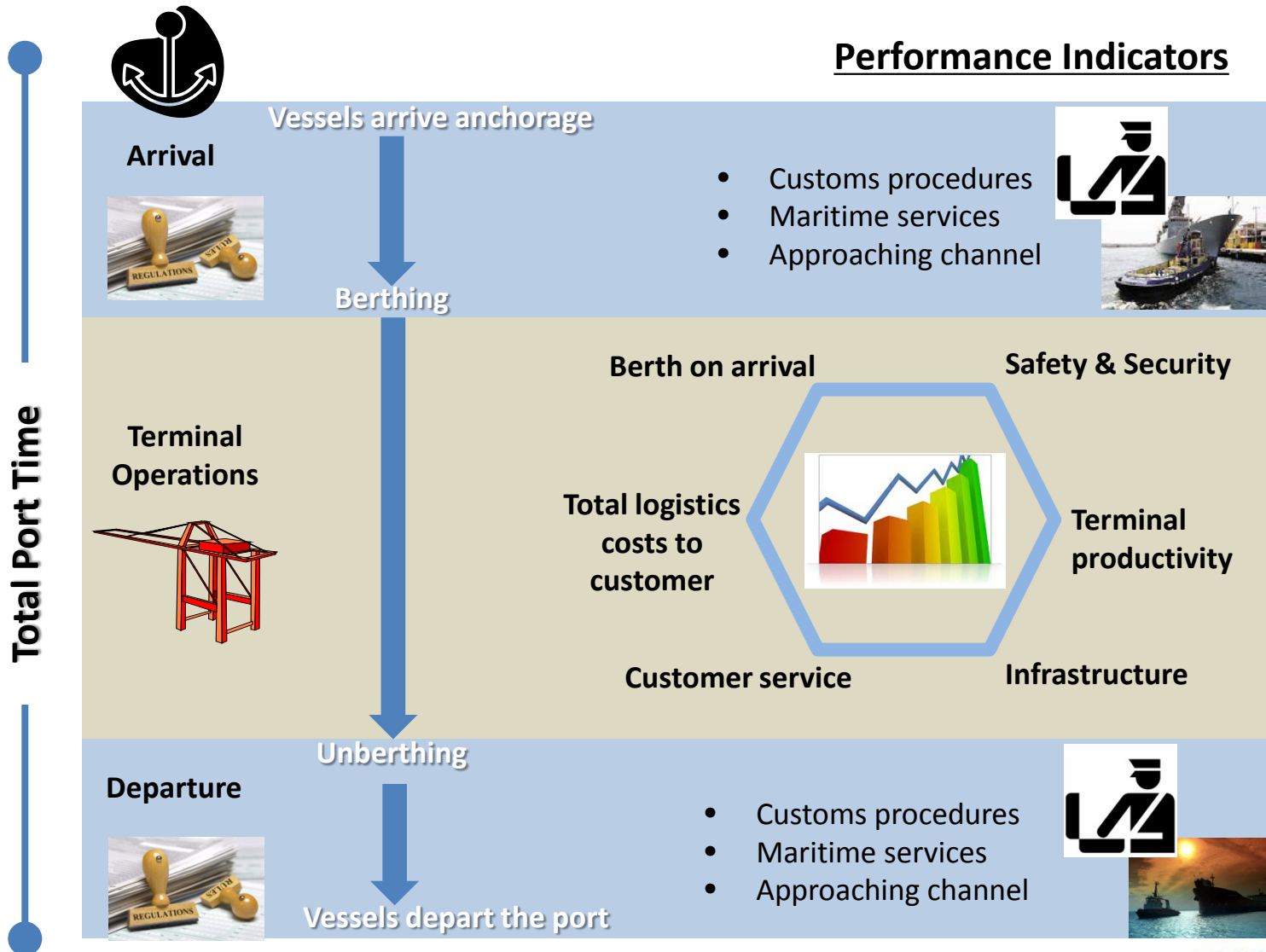


Berth Productivity vs Annual Throughput



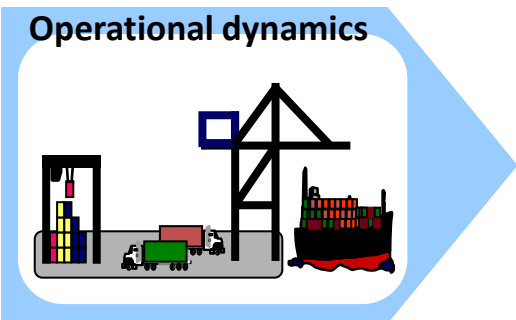
source: 1. JOC Port Productivity, Jul-2013;
2. JOC Port Productivity Webinar, Sep-2013
3. <http://www.worldshipping.org>

“Terminal Productivity” is only one of the indicators !

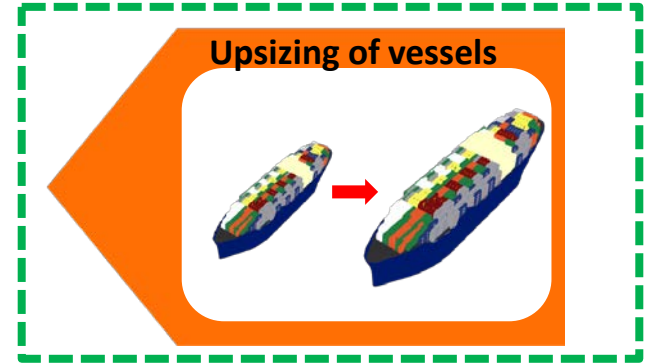


Achieving operational excellence during changes.....

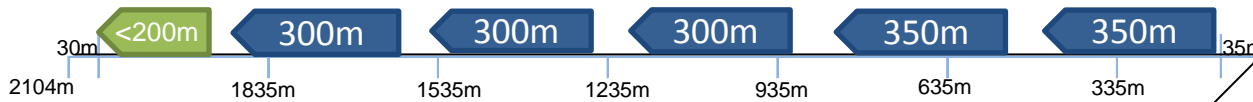
Port centric forces.....



Market centric forces.....



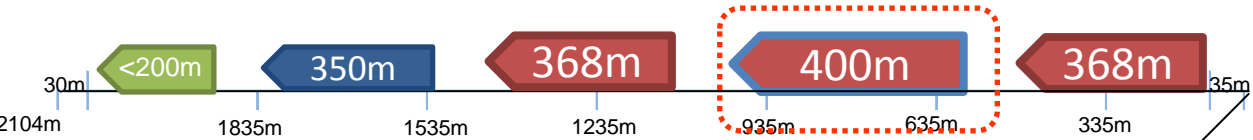
Mega vessels vs berth handling efficiency and capacity



Scenario 1: **Volume handled per meter per hour :**

956 TEUs

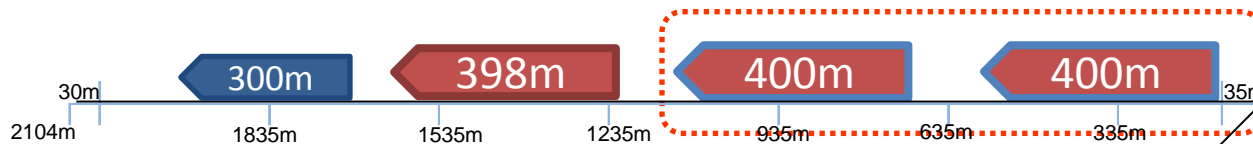
Berth cost index : 100%



Scenario 2: **Volume handled per meter per hour :**

690 TEUs [-28%]

Berth cost index : 115%



Scenario 3: **Volume handled per meter per hour :**

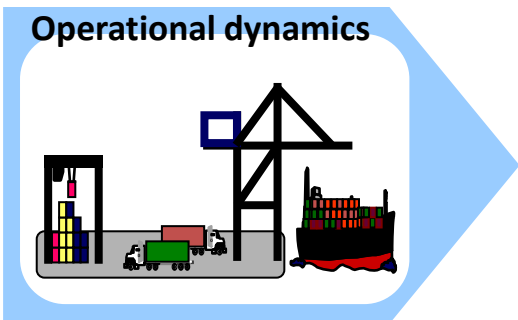
619 TEUs [-35%]

Berth cost index : 131%

LOA	Capacity	Handled Tput (Teu) per Meter per Hour
400m	18k	0.28
398m	15k	0.34
368m	14k	0.29
350m	8k+	0.50
300m	8k+	0.42
<200m	<8k	0.27

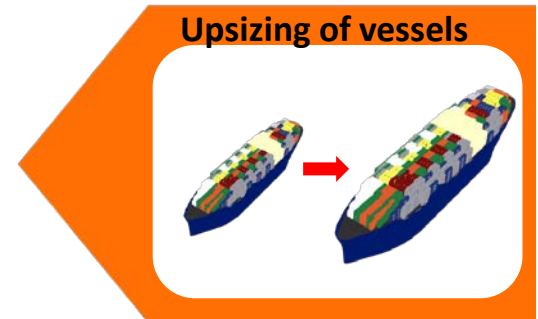
Achieving operational excellence during changes...

Port centric forces.....



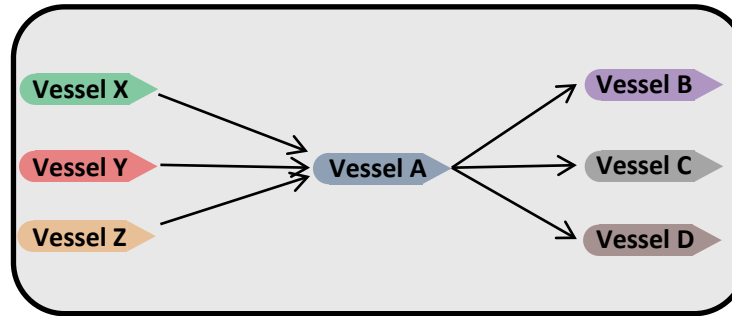
- Terminal productivity
- Costs

Market centric forces.....

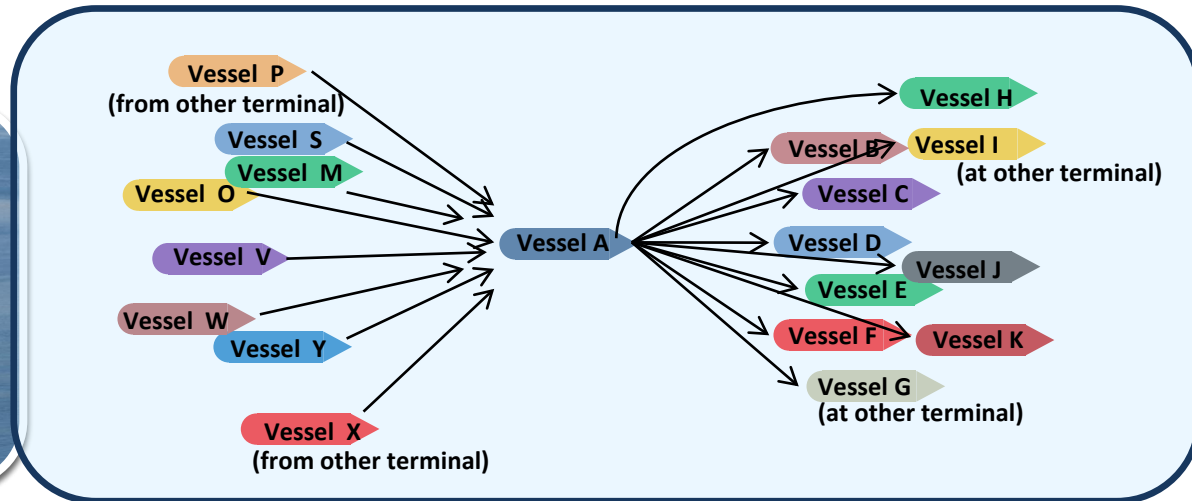


Increased collaboration – a complex planning “puzzle”...

Simple transshipment pattern in HK



Complex transshipment pattern



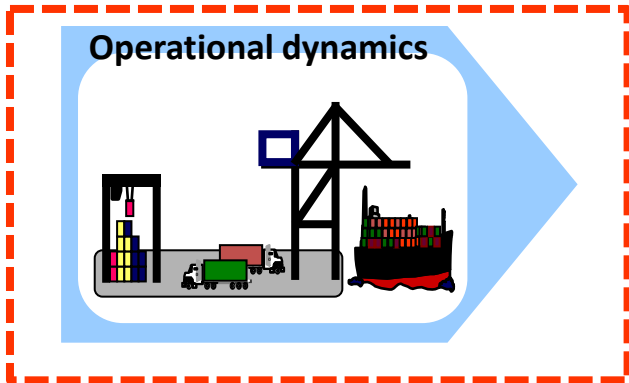
Average : 8 vessels
Max. : 36 vessels

Average : 8 vessels
Max. : 49 vessels

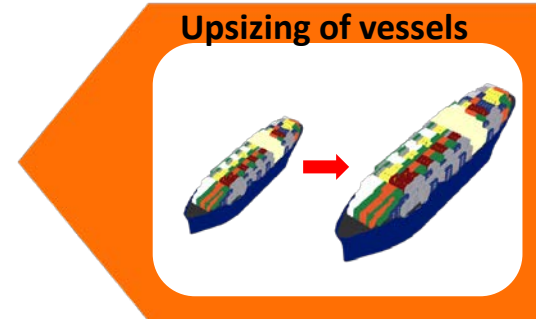


Achieving operational excellence in times of change...

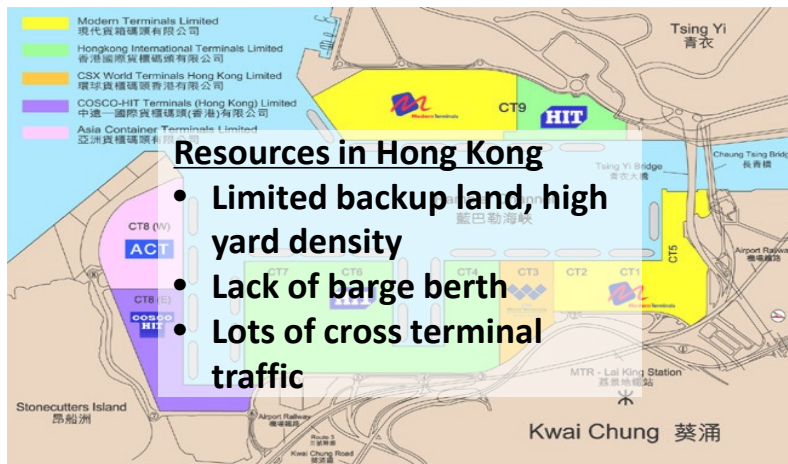
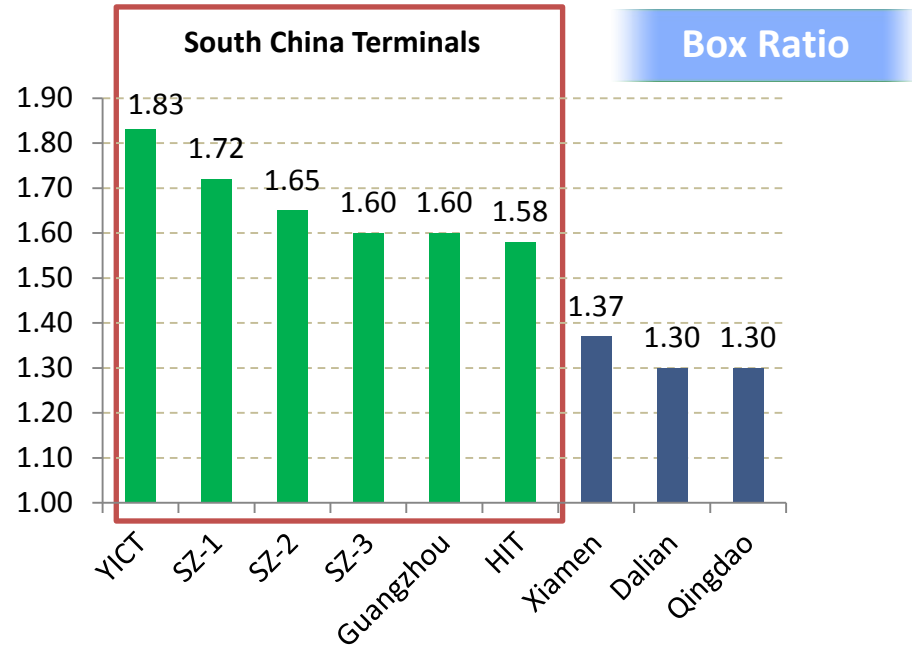
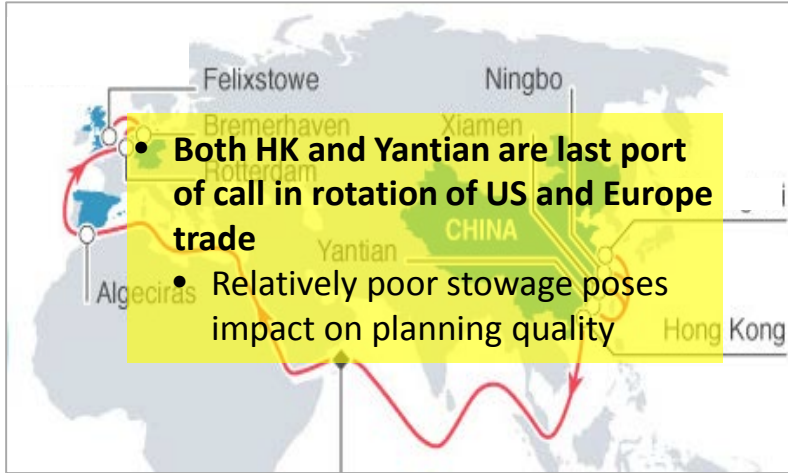
Port centric forces.....



Market centric forces.....

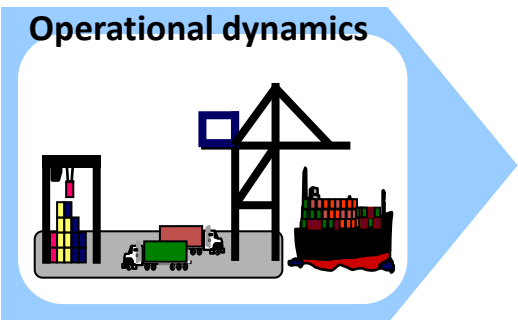


South China - Regional characteristics

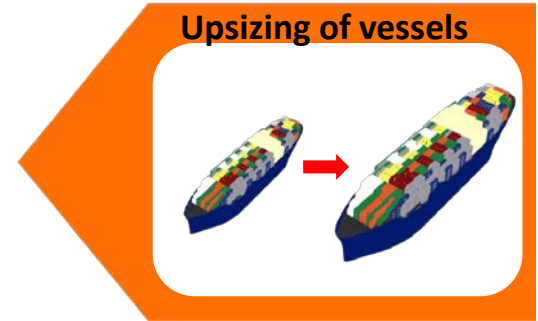


Achieving operational excellence during changes.....

Port centric forces.....

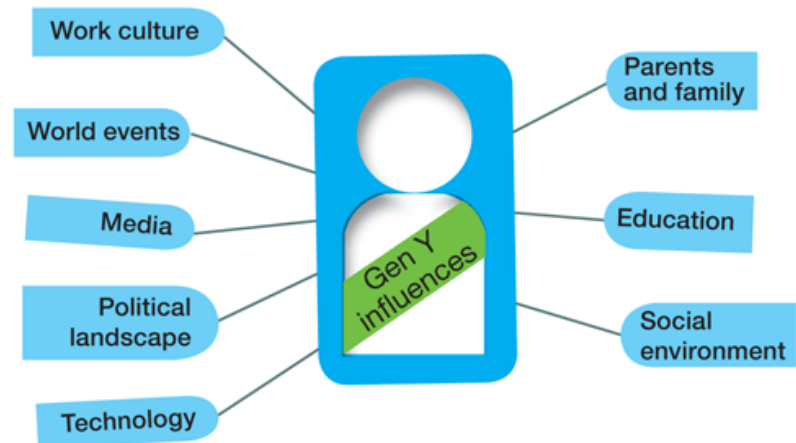


Market centric forces.....



Workforce characteristics in South China

- Lack of manpower supply
- Current aging workforce
- Gen Y working culture and attitude



Opportunities and Challenges



Moving forward

■ Collaborate with shipping lines

- Workflow re-engineering particularly for handling mega vessels
- Process integration through strategic information exchange



■ Develop system intelligence

- To cope with complicated business environment



■ Increase automation

- Improve workplace environment and efficiency
- Re-organize manpower supply



■ Liaise with Government

- More barge berths in Hong Kong
- More backup land

