

## Maritime Economic Outlook & Port Productivity

Maritime & Trade

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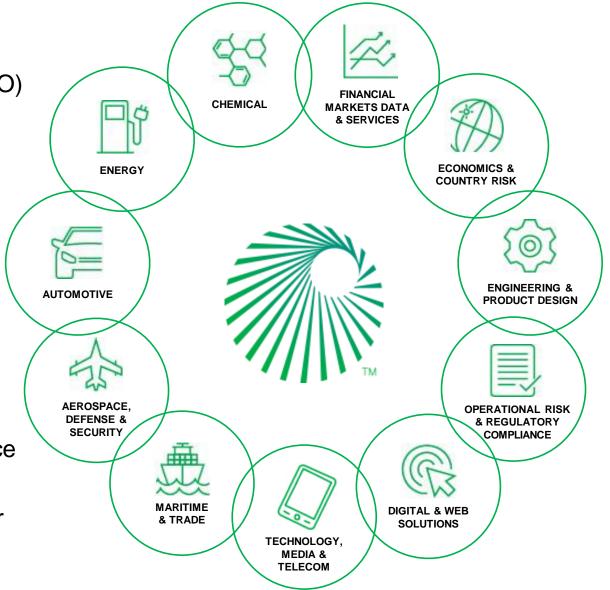


## Who are we?

IHS Markit - NASDAQ: (INFO) +\$17bn Market Cap +13,000 employees +30 global offices + An unmatched portfolio of information, analytics and expertise on these sectors

## What do we do?

We deliver critical intelligence by addressing client's strategic challenges with our interconnected capabilities





## Who We Serve

global	investment

banks

## 35 of 50

largest U.S. banks

All largest hedge funds

## 46 of 50

largest global asset managers

24 of 25	10	47 of 50	94 of 100
largest global oil companies	largest automobile companies in the world	largest global corporate enterprises	largest U.S. corporates
>80%	>75%	AII	All



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News and Editorial Content	AIS Ship Movements	Consulting and Customized Research
Global Trade Statistics	MARITIME & TRADE	Cargo Records
Predictive Analysis - Behavioral models	Ship Data	Industry Events



## JOC Events – leading industry conferences worldwide















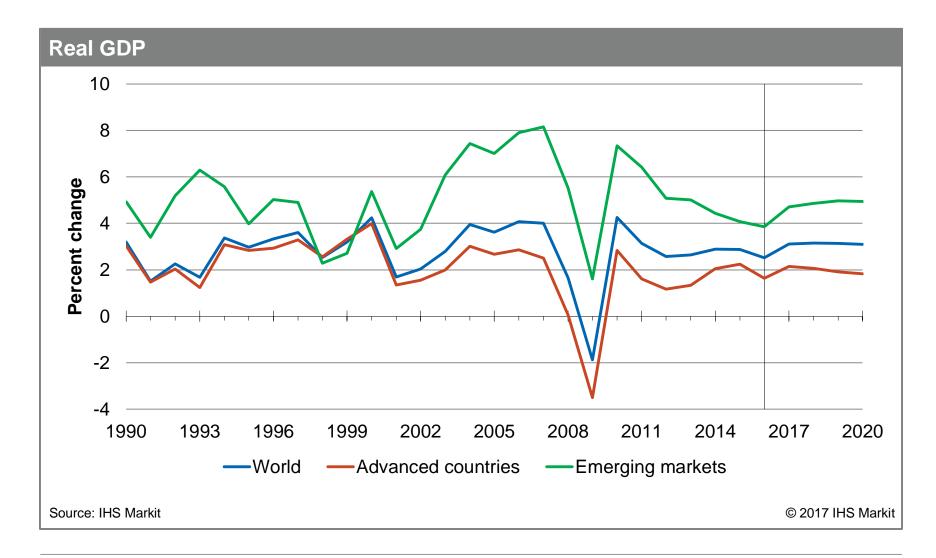
# Fixed investment leads the 2017–18 acceleration in the global economy

Real GDP Growth Rate and its components					
Percent change	2016	2017	2018	2019	
Real GDP	2.5	3.1	3.2	3.1	
Private consumption	2.6	2.9	2.9	3.0	
Fixed investment	1.7	3.3	3.6	4.2	
Government consumption	2.0	1.3	2.0	2.2	
World trade (exports)	2.6	4.4	4.0	4.0	
Industrial production	1.3	3.1	3.1	3.1	

Source: IHS Markit

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### **Emerging markets lead global real GDP growth**





## Major Trends Affecting Global Logistics

- Rising Global Population and Incomes in the Developing World
- The Uncertainty of Trade Agreements and International Alliances
- Fewer Growth Opportunities from Outsourcing/Containerization
- Carrier Consolidation and Larger Vessels in Container Markets
- Renewed Focus on Infrastructure & Hinterland Logistics
- 4<sup>th</sup> Industrial Revolution Automation & Electrification, 3D Printing, Supply Chain Transparency, Digital Platforms, E-Commerce Omnichannels and New Transportation Mode-based Systems



## Shipping

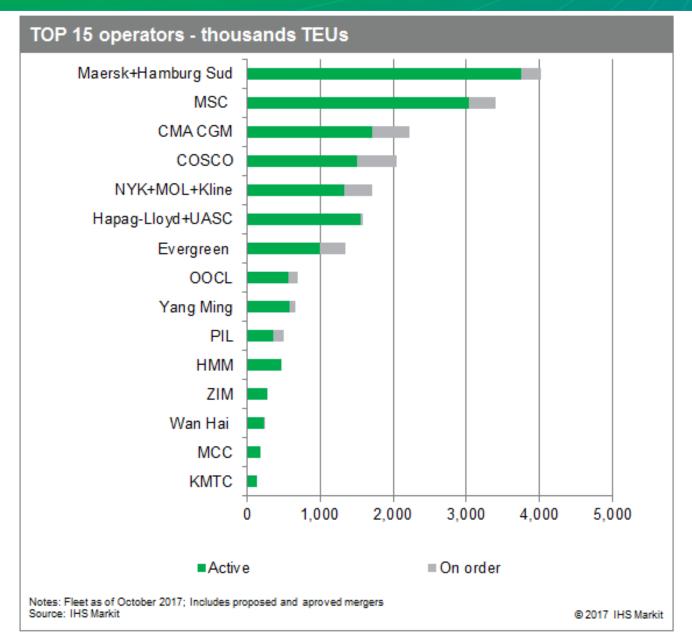
Sector	Now?	Outlook	Fleet Size	Ship Size	Traffic
Cruise	$\overline{}$	$\overline{}$		1	1
Dry Bulk		••	1		1
General/Project Cargo	•••		<b>I</b>		<b>↓</b>
Tankers Chemicals	$\overline{}$	$\overline{}$	1		1
Tankers Crude			1		1
Tankers Gas		$\overline{}$	1		1
Vehicle/Roro Carriers	••	$\overline{}$	—		



## **Container Shipping Market**







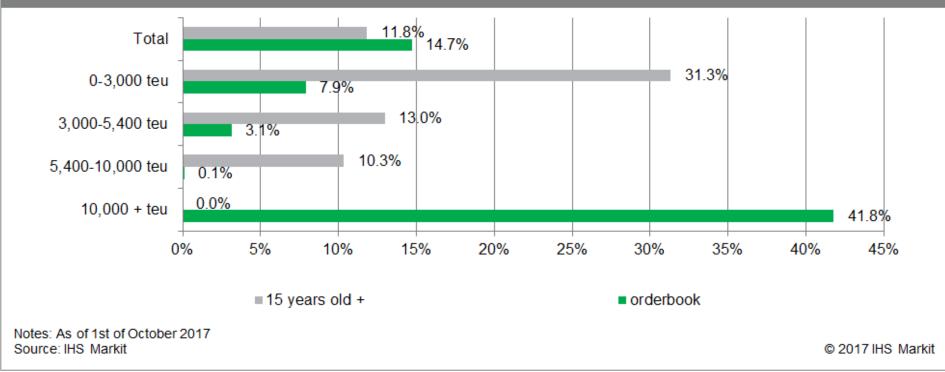


Group	Members	Active (TEUs)	Active (Ship #)	Order (TEUs)	Order (Ship #)
2M	Maersk (Hamburg Sud), MSC, HMM	37%	36%	30%	26%
Ocean Alliance	CMA CGM, COSCO, OOCL, APL, Evergreen	34%	36%	60%	66%
The Alliance	Hapag Lloyd (UASC), Yang Ming and ONE (NYK, K Line, MOL)	29%	28%	10%	9%

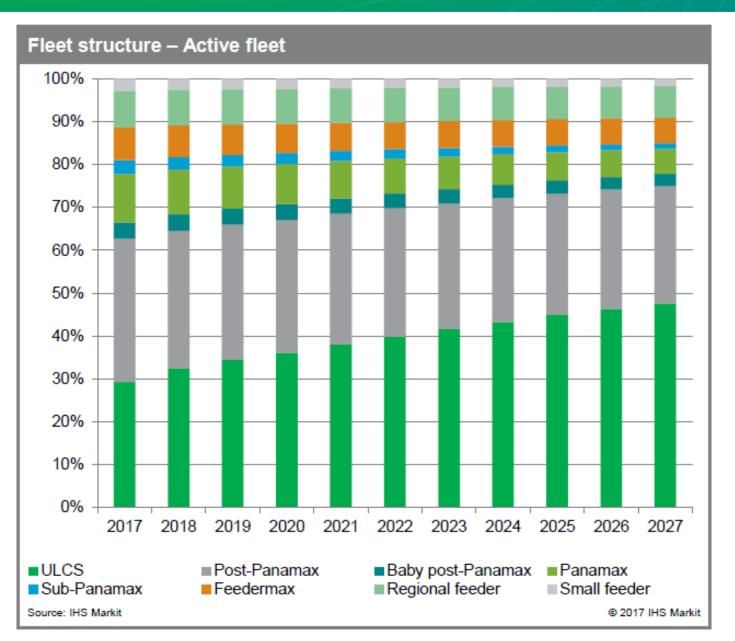
% = % of global fleet in terms of either TEU capacity or Vessel Count



#### Container fleet - % of active fleet









## Terminal & Ports Trends

- Bigger Container Ships, Fewer Calls, More Challenging Operations
- More Capital Required (Cranes, Automation Tech, Dredging, Inland Terminals, New Potential Land-Use Needs)
- Negotiating Power of Container Carriers is Up, Terminals Down
- Bilateral Engagement Among Stakeholders Harder due to Alliances
- New Ownership Structures (Terminal Consolidation into Larger, Professional Firms or Integration with/Acquisition by Carriers)



## IHS Markit Port Productivity Research

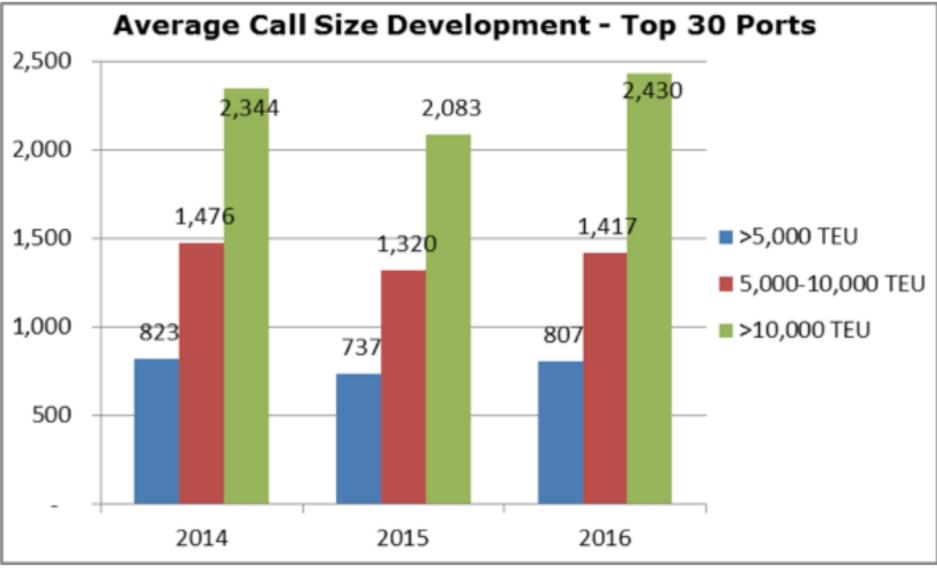
- Launched in 2009 by *The Journal of Commerce* (now part of IHS Markit) through urging of carriers
- Benchmarking system based on data provided by participating carriers, which represents about 75% of total global container capacity
- Program includes roundtables in Hamburg and New Jersey (again soon in Dec 2017!)
- Outputs include data files, dashboards and white papers



## Metrics

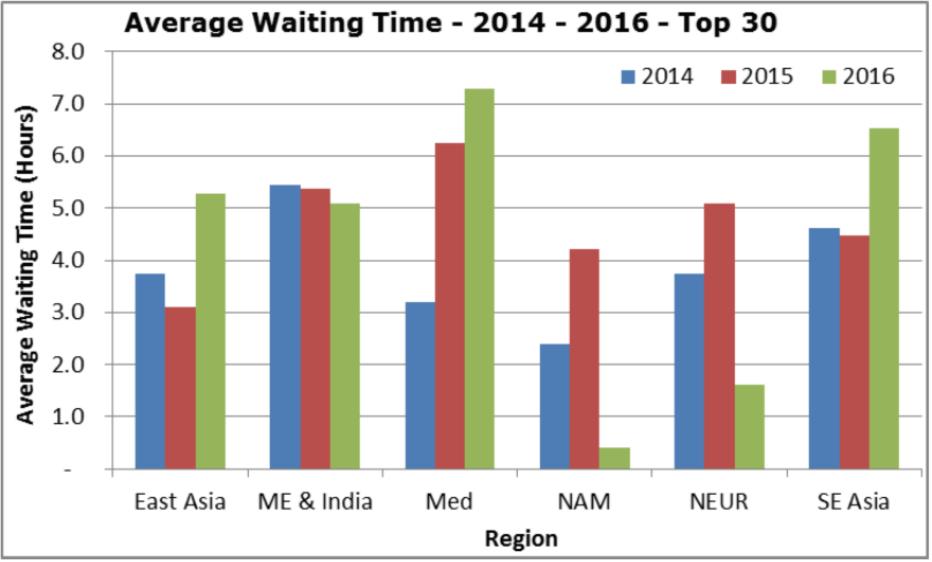
- Berth Productivity: Crane Moves Per Hour + Arrival Process (All fast, First Move) + Departure Process (Last Move, Last Line)
- Port Productivity: Berth Productivity + Waiting Time + Steam-in (Harbor Limits, All Fast)
- Steam-in Time / Steam-Out Time
- Average Waiting Time
- Average Call Size
- Average Moves per Call
- Total Idle Time in Port
- Total Active Time in Port





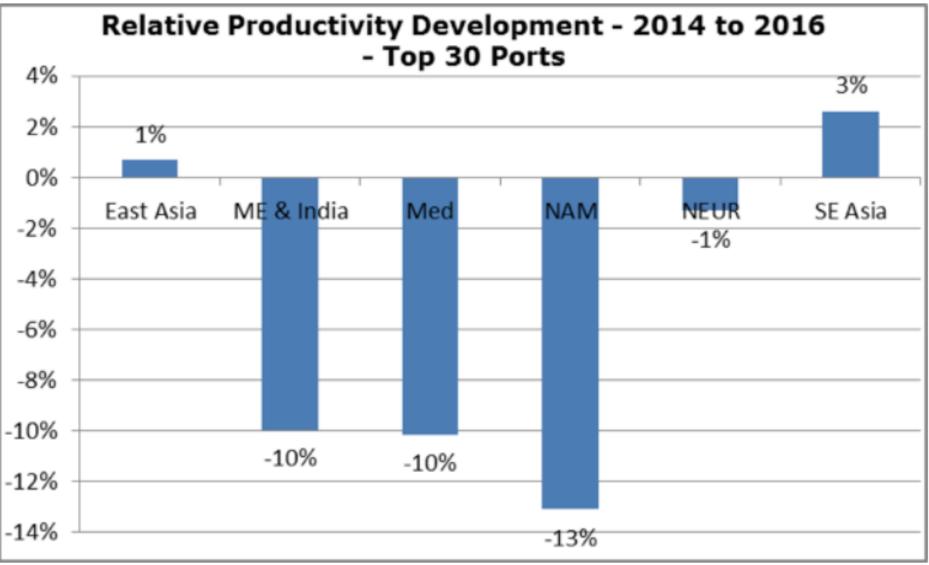
Source: IHS Markit / Journal of Commerce





Source: IHS Markit / Journal of Commerce





Source: IHS Markit / Journal of Commerce



## **Inefficiencies in Current Operations**

#### Mistiming

- Port authorities don't have good visibility into vessel ETAs
- Berth Windows not always adjusted for larger vessels
- Berth availability often isn't aligned with schedules
- Ships burn more fuel than needed when they speed to unavailable berths
- Late notifications of vessel schedule changes
- Pilots often aren't informed of early completions, chance for early departures

#### Lost Ops Management, Risk or Revenue Opportunities

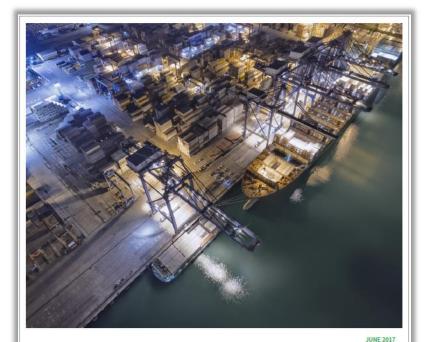
- Ship profiles sometimes inaccurate
- Terminals unable to validate load plans until arrival
- Terminals can't see vessels' past terminal needs
- Carriers often have little-to-no visibility in berth ops until arrival
- Carriers often have no input on exceptions
- Poor stowage planning creates many problems/lost opportunities including inability to accept last minute loadings



## What is at Stake?

- Competitive Position
- Cost Reductions (Fuel, etc)
- Revenue
- Untapped Cargo Capacity!





#### PORT PRODUCTIVITY: Finding new efficiencies through collaboration

Written by Turloch Mooney Senior Editor, Global Ports Maritime & Trade IHS Markit



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