Good Morning!

Larry Gross:

President Gross Transportation Consulting

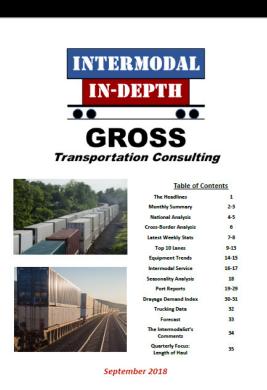
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INTERMODAL OUTLOOK

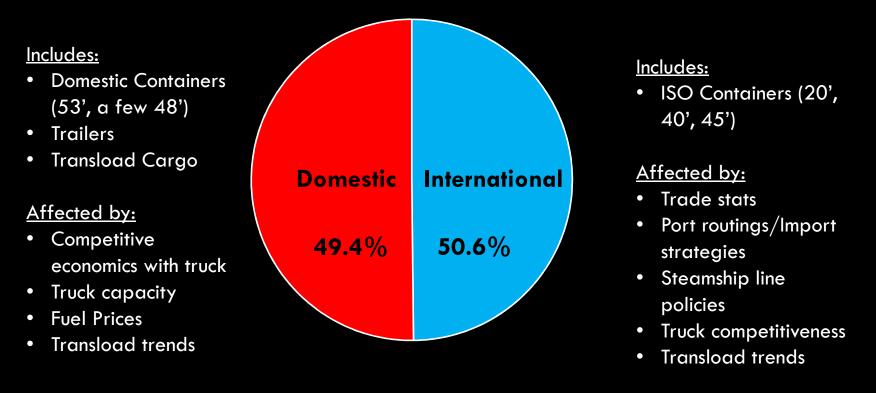
Northwestern University Transportation Center BAC Meeting *November 8, 2018*

GROSS TRANSPORTATION CONSULTING



- Solo practice covering surface freight transportation sector
- Primary focus on intermodal
- Monthly subscription product with weekly updates
- Market analysis and project work
- www.IntermodalinDepth.com

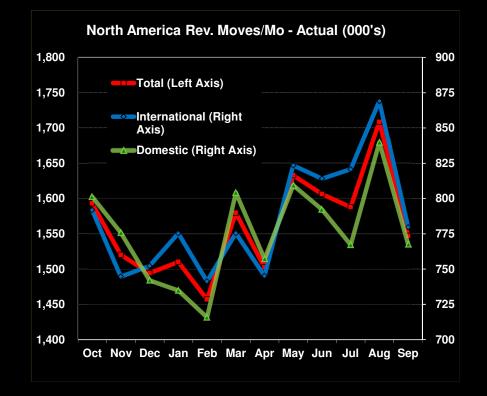
THE TWO WORLDS OF INTERMODAL



Each sector responds to very different market forces

INTERMODAL			
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INTERMODAL IS HAVING A GOOD YEAR



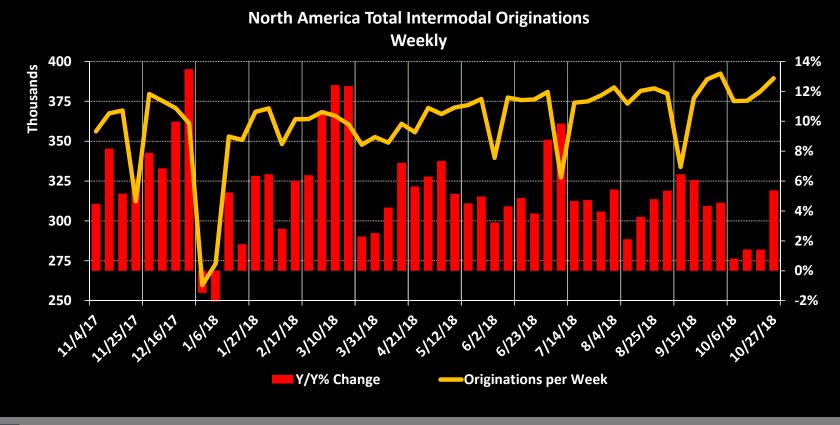
Y/Y % Change	2016	2017	YTD 2018
Grand Total	-2.1%	+4.7%	+6.0%
International	-3.3%	+6.2%	+5.4%
Domestic	-0.7 %	+3.2%	+6.7 %
Domestic Container	4.1%	+2.7%	+5.4%
Trailer	-22.1%	+6.3%	+14.8%

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Source: IANA ETSO, GTC Analysis, Copyright 2018 GTC

OCTOBER HAS GOTTEN OFF TO A SLOW START SEASONAL PEAK MIA?

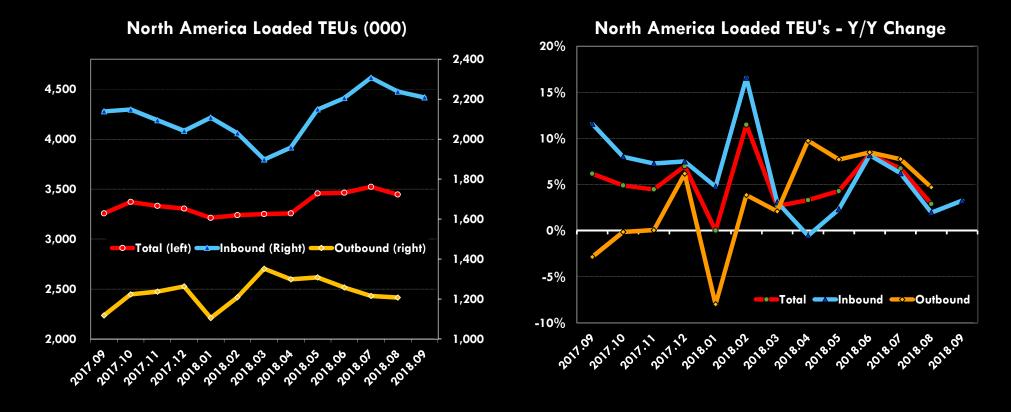




Source: AAR, Copyright 2018 GTC

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NORMAL AUGUST INBOUND PEAK CAME EARLY THIS YEAR

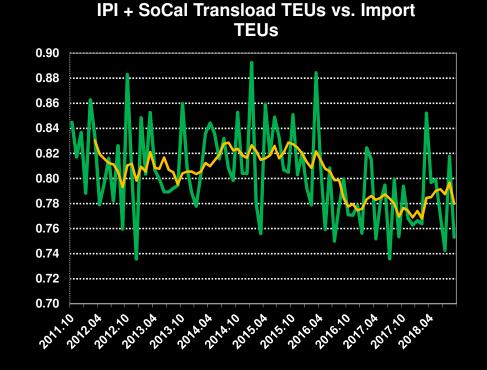


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Sources: IHS Markit PIERS, Port Reports, GTC Analysis

INTERMODAL IMPORT PARTICIPATION HAS DECLINED LATELY – WEST-TO-EAST SHIFT MAY BE RESPONSIBLE



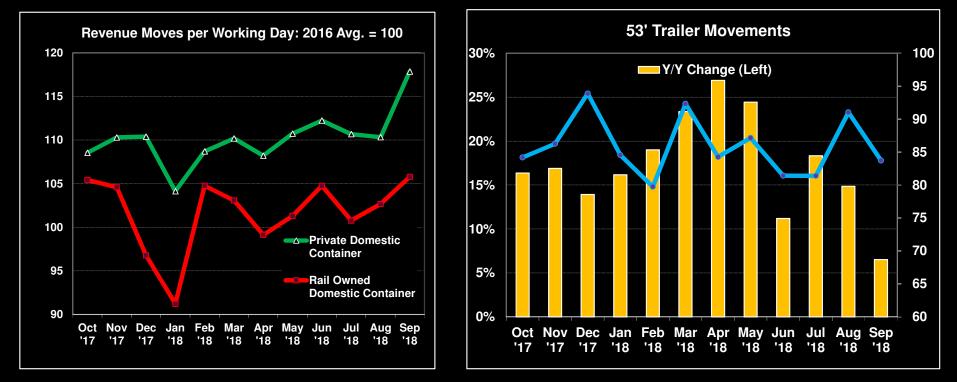
Inbound TEUs	YTD 2018
North America	+4.9%
US West Coast	+3.0%
L.A./Long Beach	+3.0%
Northern California	+3.1%
Pacific Northwest	2.2 %
US East/Gulf Coasts	+7.1%
Northeast	+6.3%
Southeast	+7.6 %
Gulf	+9.2 %
Western Canada	+2.9 %

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Sources: IANA ETSO; IHS Markit PIERS Data, Port Reports, GTC Analysis, Copyright 2018 GTC

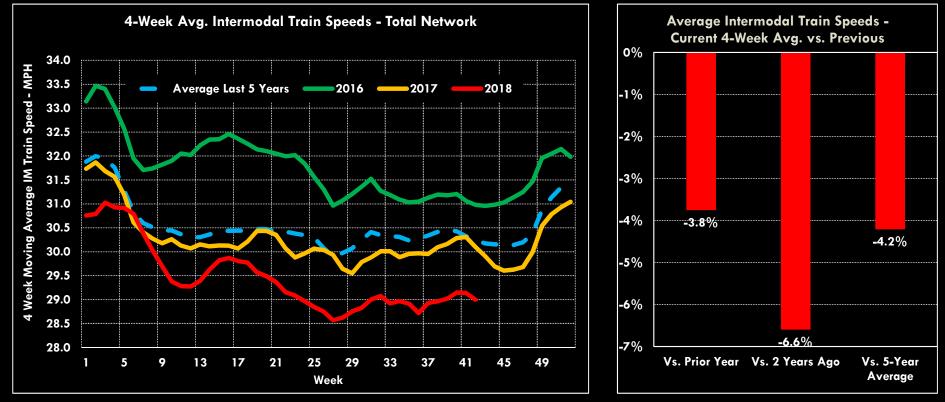
DOMESTIC CONTAINER HAS BEEN CAPACITY LIMITED, TRAILERS HAVE HELPED FILL THE GAP



The rail-owned domestic container fleet has had productivity problems. 53' TOFC has helped fill the gap.

INTERMODAL IN-DEPTH Gross Transportation Consulting Source: IANA ETSO, Copyright 2018 GTC

INTERMODAL SERVICE CONTINUES TO BE PROBLEMATIC



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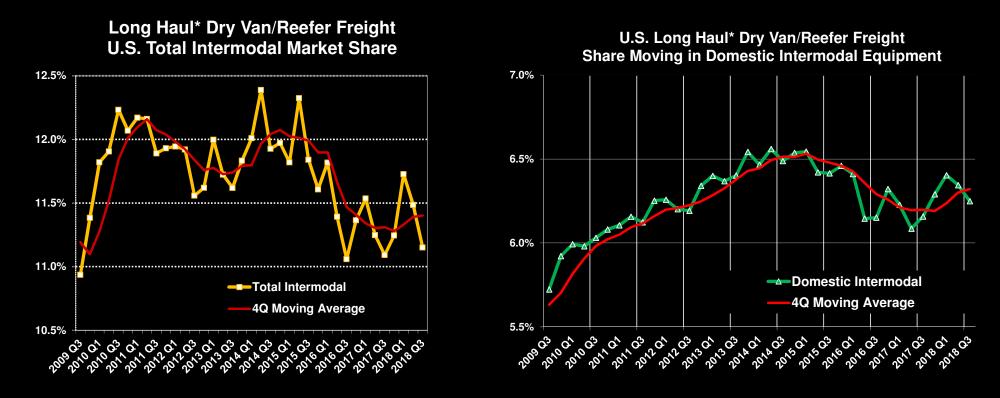
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Sources: STB Reports, GTC Analysis Copyright 2018 GTC

THE INTERMODAL NETWORK IS BEING RE-ALIGNED

- Renewed emphasis on core lanes
- Focus on efficiency (PSR = Longer trains, reduced sorting
- Retreat (with exceptions) from steel-wheel interchange at gateways
- Reduction in service linking secondary, low-volume points

DESPITE TIGHT TRUCK CAPACITY INTERMODAL MARKET SHARE HAS FALLEN FOR TWO QUARTERS

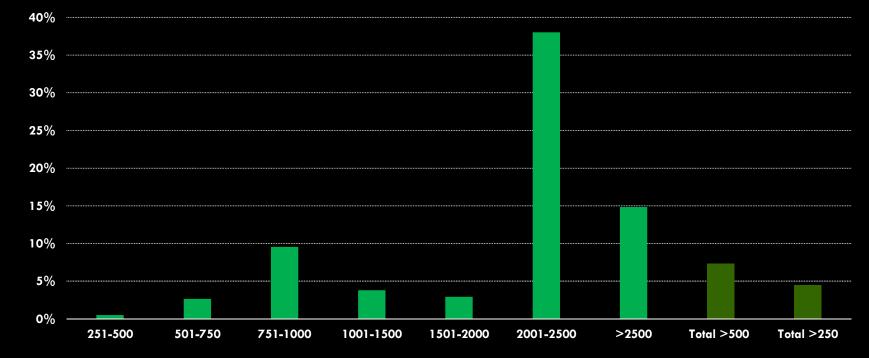


*Long Haul = 500 miles or more

INTERMODAL		Sources: IANA ETSO, Transport Futures, GTC Analysis	11
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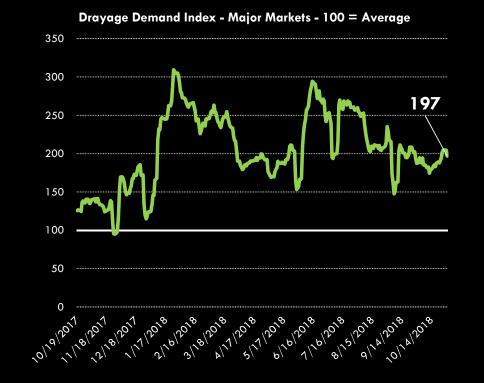
INTERMODAL MARKET SHARE VARIES WIDELY BY MILEAGE RANGE

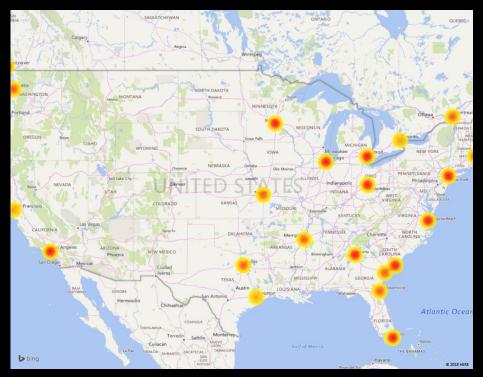
Domestic Intermodal U.S. Market Share



INTERMODAL	Sources: IANA ETSO, Transport Futures, GTC Analysis
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DRAYAGE DEMAND INDEX SHOWS CONDITIONS STILL TIGHT BUT BETTER THAN THEY WERE







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Sources: Drayage.com, GTC Analysis

NEAR-TERM OUTLOOK

- Fall Peak:
 - Moderating international gains
 - Constrained domestic container growth due to fleet capacity issues – concentrated on the rail-owned domestic container fleet
 - TOFC volume stays strong
- 2019
 - International gains continue at a moderate pace
 - Considerably more challenging competitive conditions vs. truck
 - Rates stabilize but gains slow significantly

LONGER-TERM OUTLOOK

- Trade war with China? About 65% of all intermodal volume relates to import/export trades (excludes NAFTA!)
- Service Concerns. It's not about speed, it's about service reliability and consistency
- Autonomous Trucks? Fully autonomous operation is a red herring that's many years away. But semiautonomous operations (platooning) is a more relevant technology to watch.

Thanks!

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