

Soc. Port. de Buenaventura

FORECASTING IN AN AGE OF UNCERTAINTY

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Over 25 Years of industry experience...



Specialized consulting for infrastructure with an emphasis on ports and harbors.



Processing Big Data to provide international trade business intelligence to increase your market share, with two successful products, DuPort Data for ports DuTrade Data for enterprises



Outsourcing of labor intensive engineering services at hourly rates 45 % - 65 % lower than U.S commercial rates – including CAD services.

Clients & Collaborators







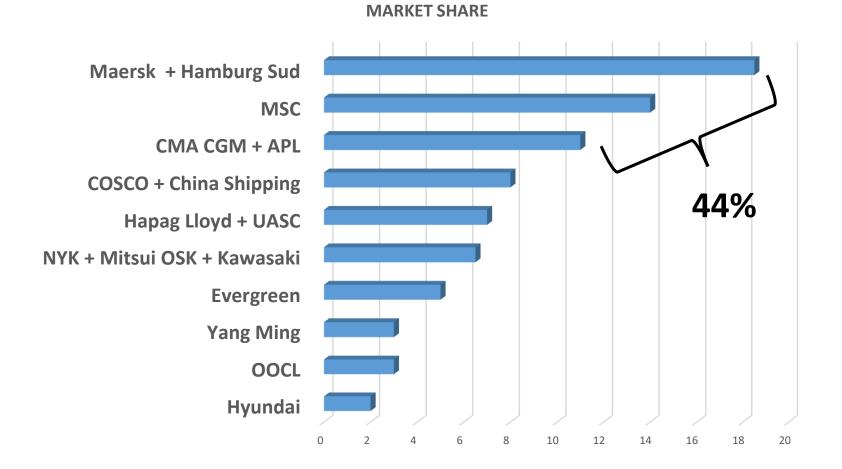


- What are we so uncertain about?
- The current economic and trade outlook
- How to treat past history
- Rules of the forecasting game

Who would have thought?



WORLD'S BIGGEST SHIPPING LINES

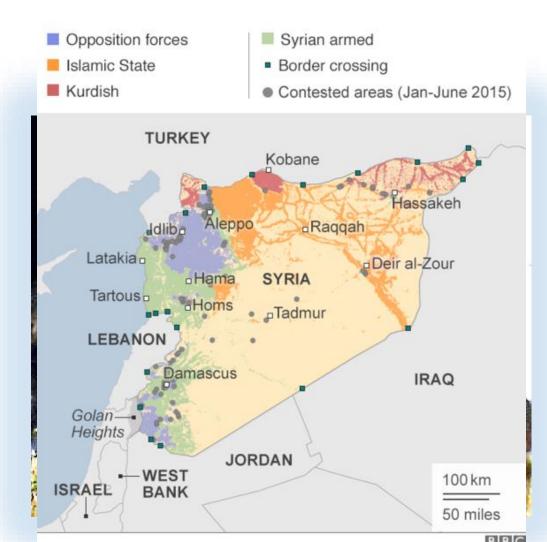


Who would have thought?



That **437,363** people would be murdered in Syria since 2011?

11 million without homes







We elected a new head of the free world.





- Reduced trade volumes?
 - Free trade or less trade

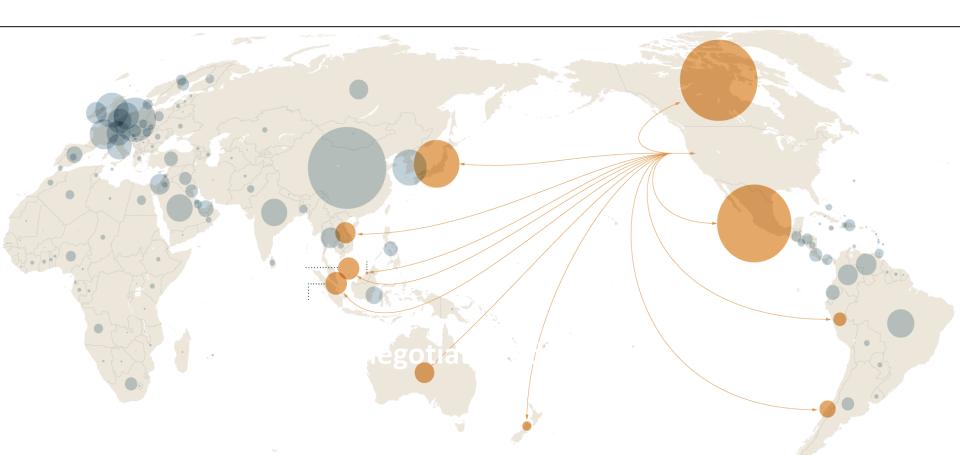
- Port infrastructure funding?
 - Perhaps a big boost smoother supply chains

These 8 guys have the same wealth as the bottom half of the world's population TUAGA 3.5 billion people





The TPP was torpedoed!

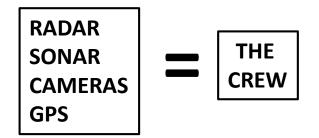


Who would have thought?



Ships without crews



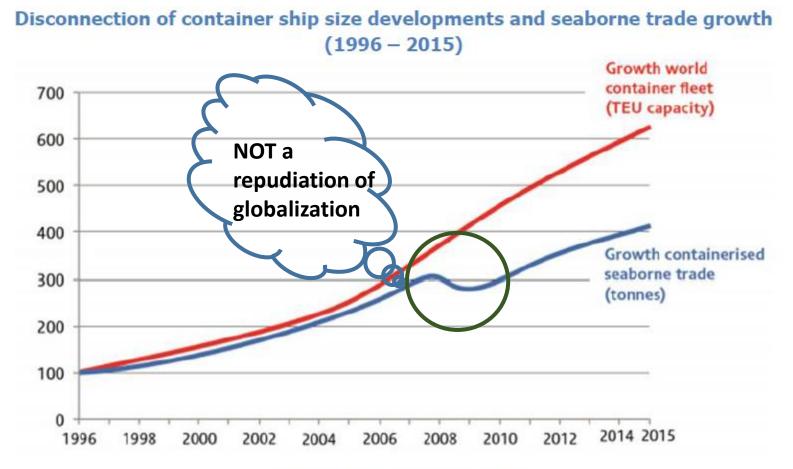


Uber Maritime?

Rolls-Royce

Idle capacity overhang

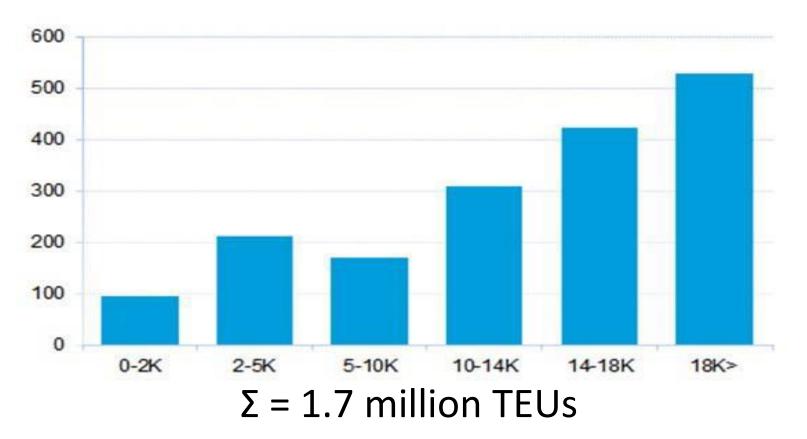




Source: International Transport Forum



Mega ships are still being built and deployed. Cascading big ships into trades that don't have enough volume to support them







Especially in the N-S trades



Drewry Maritime Research



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- North America and Europe are slowly pulling the train
- China exports are slowing because NA + EU are slowmoving
- Hence, exports from this hemisphere to China have slowed
- Asia's incomes are still very low and not big enough to fill the shoes of a slowing NA and EU
- And, the US Government's new trade policies are not yet clear

In the short term, the economic outlooks are fairly positive



		<u>2015</u>	<u>2016</u>	<u>2017</u>
Positive	Colombia	3.1%	2.3%	2.8%
	Chile	2.1%	1.7%	2.2%
	Costa Rica	3.7%	3.8%	3.8%
	Mexico	2.5%	2.1%	2.5%
	Panamá	5.8%	5.7%	5.9%
	Perú	3.3%	3.7%	4.2%
	USA	2.5%	1.6%	2.9%
	Canada	1.2%	1.3%	2.0%
	Argontino	7 10/	1 20/	12.00/
Weak	Argentina	2.1%	-1.3%	+3.0%
	Brazil	-3.8%	-3.2%	+1.0%
	Venezuela	-5.7%	-10.0%	(-3.0%)

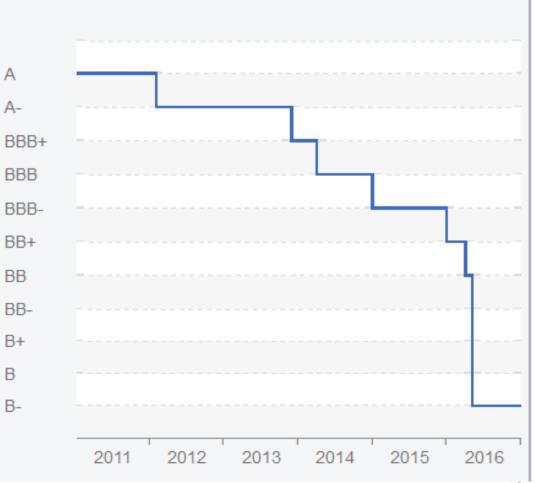
Fuentes: IMF July 2016, LatinFocus, TradingEconomics,BBVA, FocusEconomics, The Economist Intelligence Unit, OECD, The World Bank, The Balance, Bureau of Economic Analysis

<mark>Hanjin</mark> Shipping -

Some carriers didn't make it

Corporate Bond Credit Rating

Forecasting this event should not have been difficult



Source: Alphaliner Monthly, May, 2016

ideal partne

Some are buying port operations DUAGA

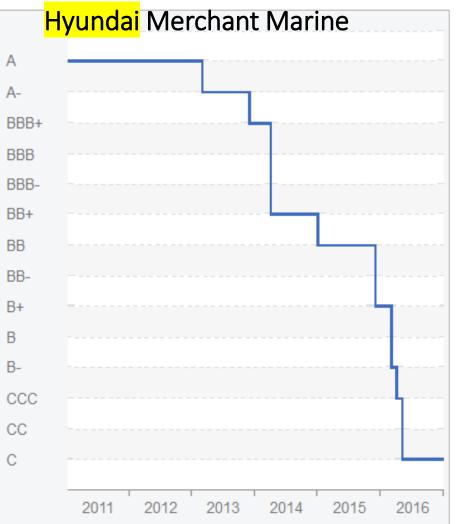
Long Term Unsecured Credit Rating History

Financial restructuring was too late to buy Hanjin

Now buying 25% of Algeciras

Getting \$600 million in government aid

Source: Alphaliner 2016, Issue 15 Ports & Shipping News, #47, 2016



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Will the *Pacific Alliance* replace the TPP?



In the last 3 years, the Pacific Alliance has accomplished more than the other free-trade efforts in the last 30 years.

Will the US join?

Probably not!

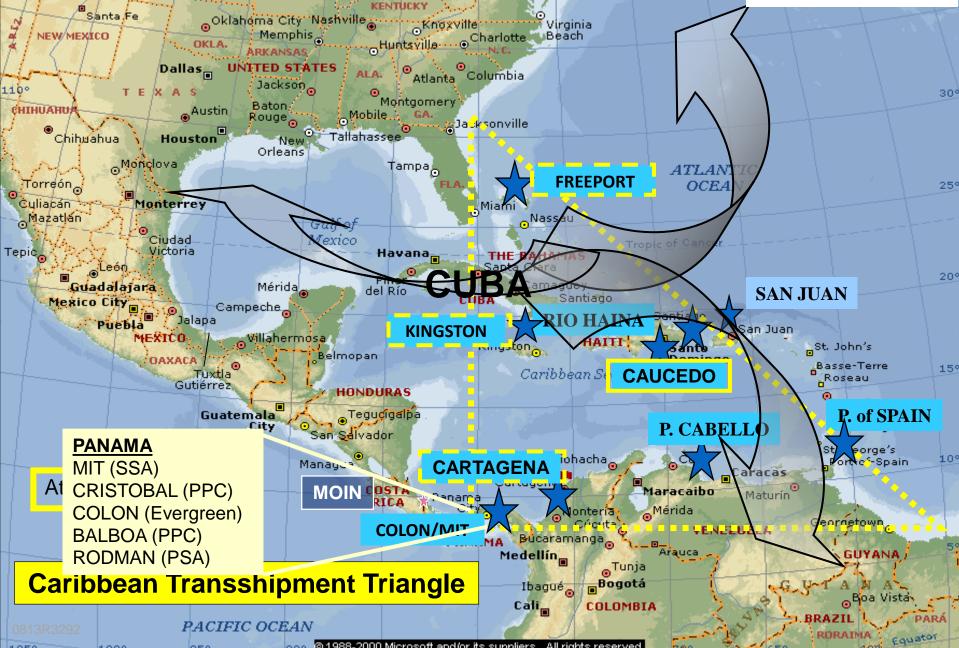
Population = 200 million Income/capita = \$10,000 35% of LAM GDP 8th largest economy in the world



"... emerging as one of the most dynamic economic regions in the world" - IDB

Transshipment ports are now clear





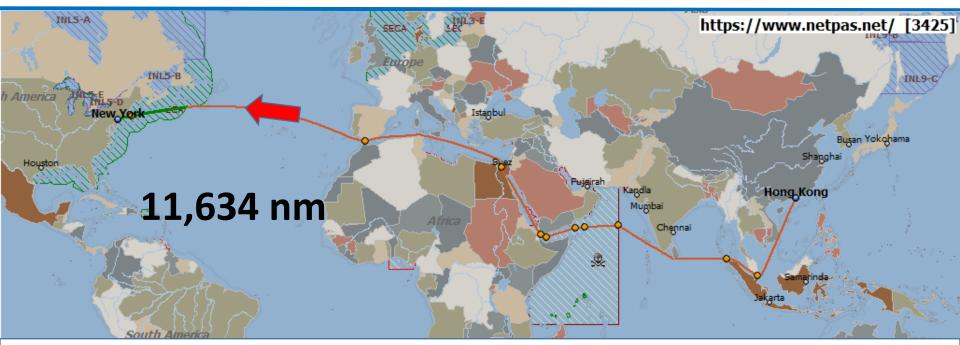
Another transshipment triangle is forming - Pacific





Transshipment benefits – whether East or West

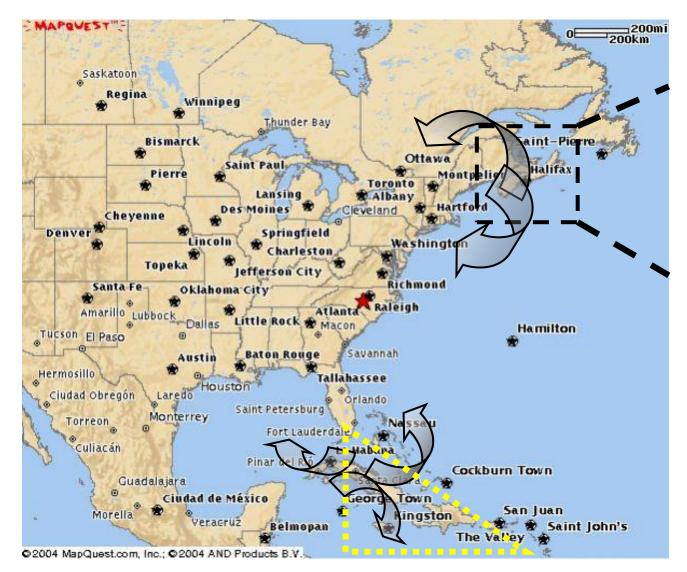






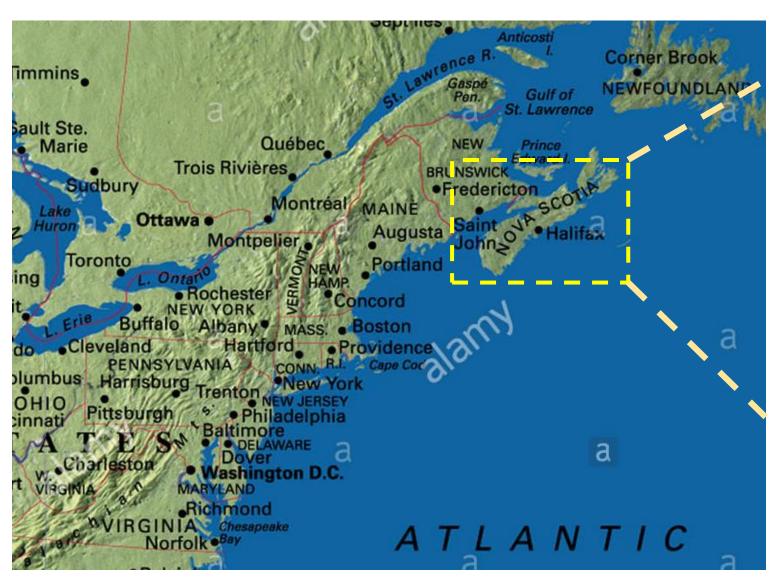
<u>Two</u> transshipment centers – Caribbean & Canada





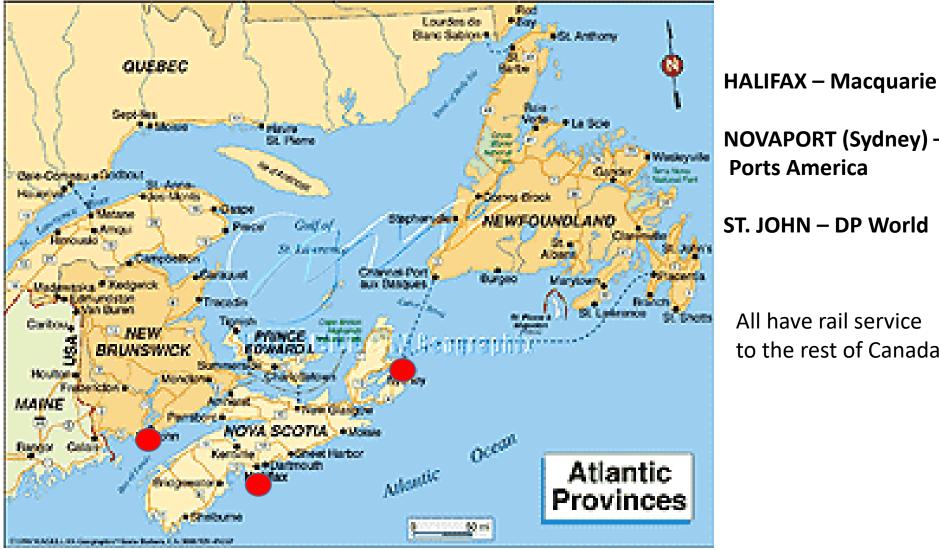
Two transshipment centers – Caribbean & Canada





<u>Two</u> transshipment centers – Caribbean & Canada





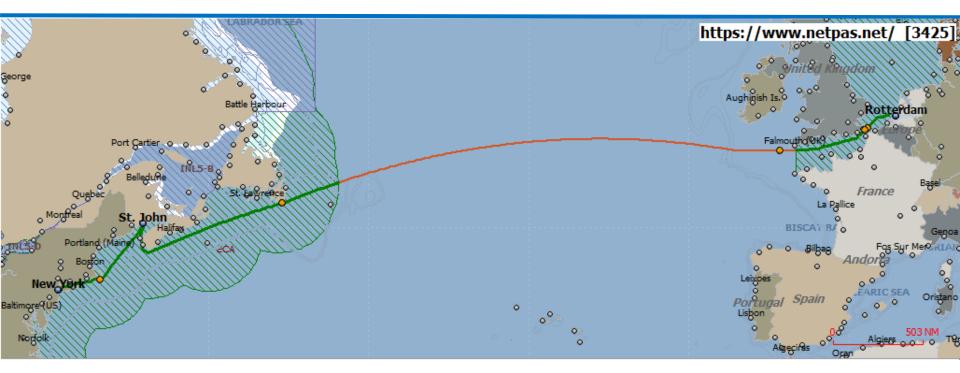
NOVAPORT (Sydney) -**Ports America**

ST. JOHN – DP World

All have rail service to the rest of Canada

Transshipment in Canada





Extra distance from Rotterdam to NY if you want to transship

Novaport Sydney	92 nm
Halifax	32 nm
St. John	195 nm

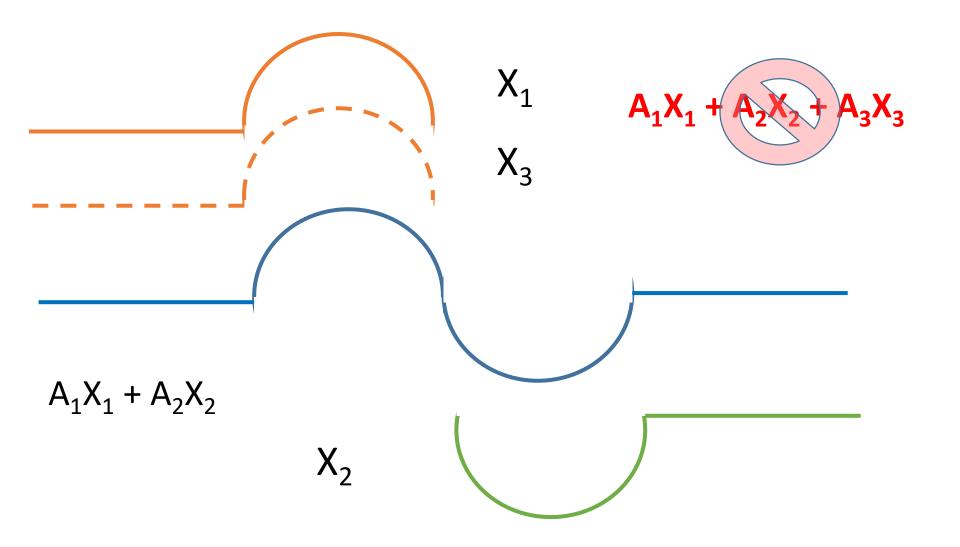


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- Don't use <u>ATEU</u> /<u>A</u>GDP (was 0.2 / 3.4 in H1 2016)
- Always use independent variables that are easier to forecast than the dependent one
- Get monthly data (DUAGA)
- Use statistics to your advantage manipulate the data to get better fits
- Test short term models by running them long term
- Don't overload models with too many variables
- Choose a great consultant



- All forecasts are wrong
- You should forecast often
- Build scenarios in the face of uncertainty
- Always include at least one macro variable over which you have no control
- Nothing runs in a straight line, except time
- Choose a great consultant



- Uncertainties very important to forecast often
- Get the models right keep testing and adjusting
- Have a 'best' forecast and 2 alternatives
- Stay ahead of the changes and the implications
- Choose a great consultant