



## 2H 2016 Economic Update

The World's Deadly
Obsession With Monetary
Economics

BREXIT & More "EXITs"?

**July 2016** 

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UOB Global Economics & Markets Research



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## **Recap: 2013** → Will Growth-Inflation Puzzle Continue

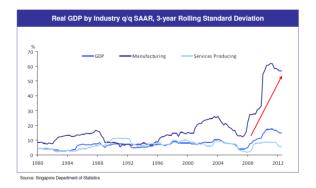
Manufacturing Sector Contributed To Volatility In GDP

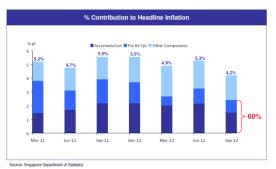














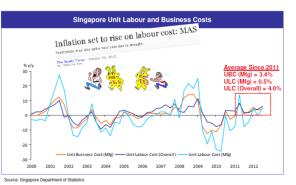
Source: Singapore Department of Statistics

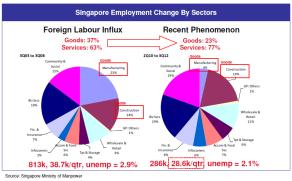
What's More Important Is Business Costs



Low Unemployment Was Due To Strong Hiring In Services Sectors









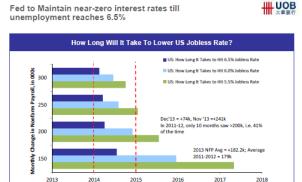
Source: Singapore Ministry of Manpower



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## Recap: 2014 → Of US Rates & Asian Trade







Strong Intra-Asian Trade, But Where Is The Slowdown & Why?



A lot More Opportunities In Services As Income Rises

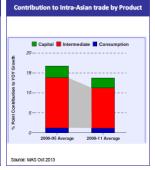
Assumptions: LFPR remains at 62.8%, Labour Force growth rate = 0.935% pa Source: Atlanta Fed's Jobs Calculator\*\*(http://lot.ly/v/.zFBS), UOB Economic-Treasury Research estimates



Structural Disruptions To (almost) All Industries



Global and Intra-Asian Merchandise Trade	•
500	
400	
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0-	— 011
Source: MAS Oct 2013	





Industries	% Share of GDP (2012)	Disrupters
Manufacturing	27%	<b>Stratasys</b>
Utilities	1%	SUNPOWER PER Solar.
Wholesale/Retail	15%	Qoolo amazon.com
Tpt/Storage	8%	sharetransport.sg
Accomd/Food	2%	airbub roemorama gnets.com
Infocomms	4%	napster.
Finance/Insurance	12%	KICKSTARTER 200
Biz Svcs	11%	99 designs   Minute Workers
Other Svcs	9%	© © © © Gmicrofronchisesg

<sup>\*</sup> Not inside the list: Construction industry



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## **Recap: 1H2015** → **Near-term Challenges, Long-term Goals**

Key Features Of Managed Float

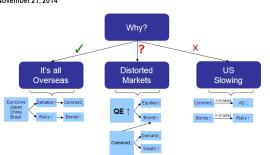
(2) Slope (or crawl)

• Determines rate at which the SGD is allowed to appreciate by adjusting the inclination of the slope.

• In line with the robust growth outlook in the Singapore economy and rising inflation (since Apr 11), the MAS allows the SGD NEER to appreciate at about 2.5% every year.

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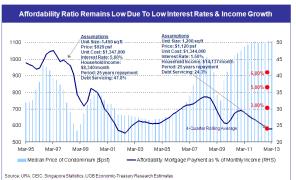
₩ UOB



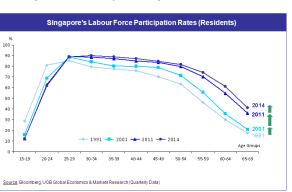
Wage Growth Remains Slow, But Trending Higher...



Demand In Singapore Likely To Remain Firm



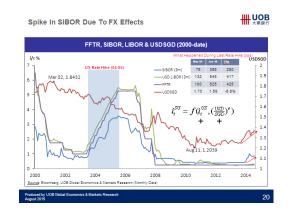
We Bought Some "Time" By Increasing LFPR

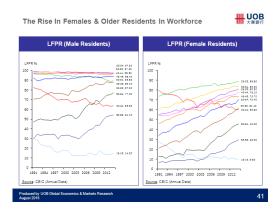


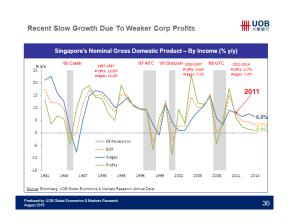


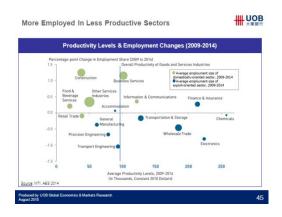
## Recap: 2H2015 → First Greece, Then China: What Else Next?

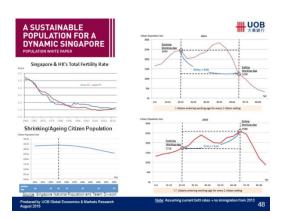






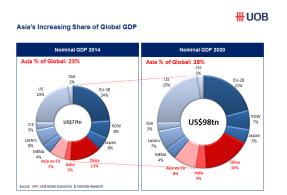






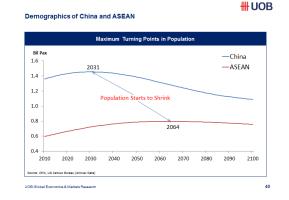


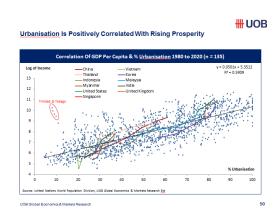
## **Recap: 1H2016** → The Asian Miracle: Will it Continue?

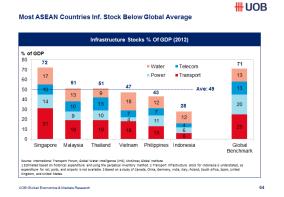


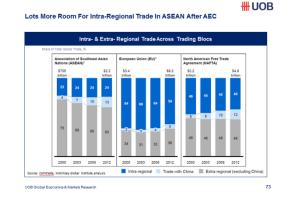
UOB Global Economics & Markets Research

















## On 28<sup>th</sup> Jan 2016



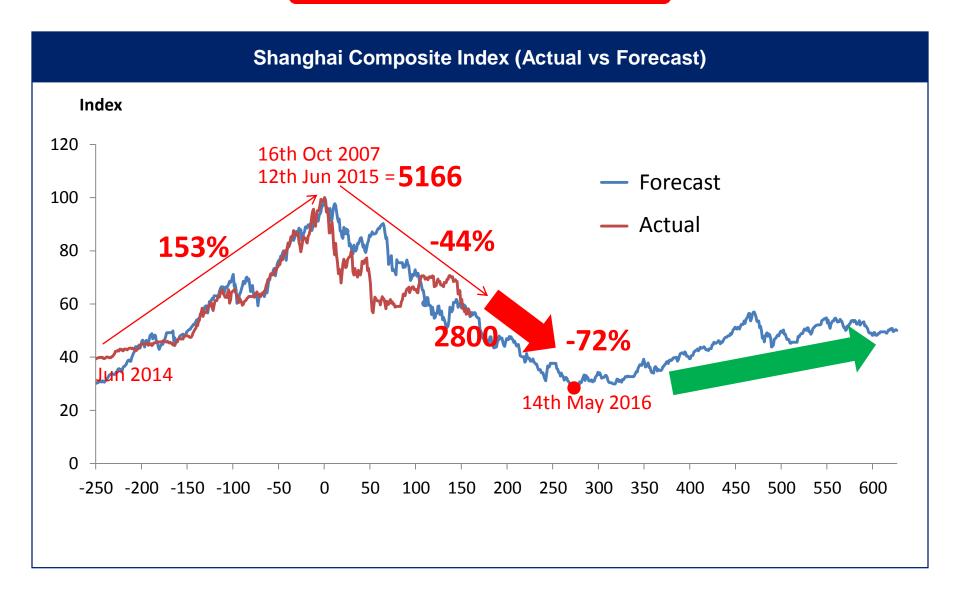


## History doesn't repeat itself, ... but it does RHYME.

Mark Twain

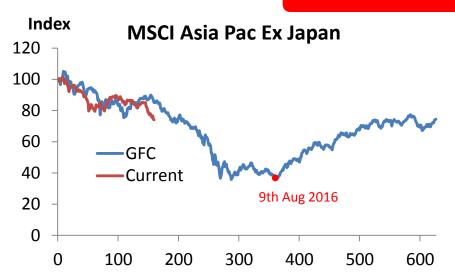


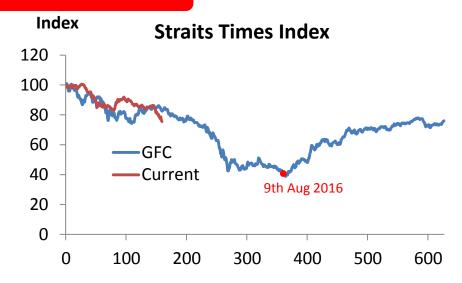
### On 28<sup>th</sup> Jan 2016

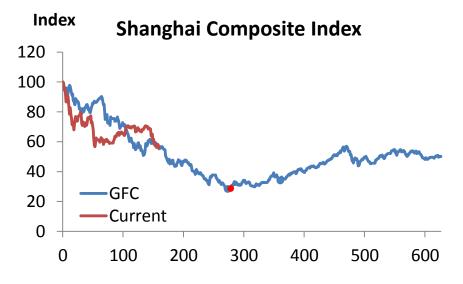


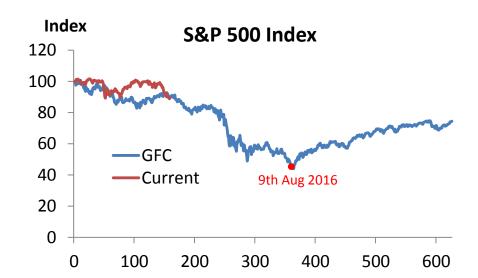


## On 28<sup>th</sup> Jan 2016





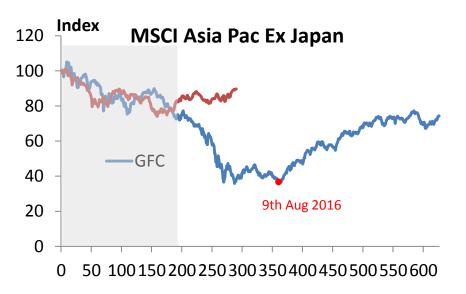


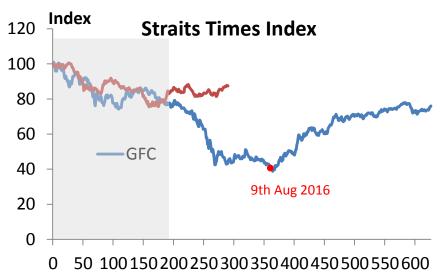




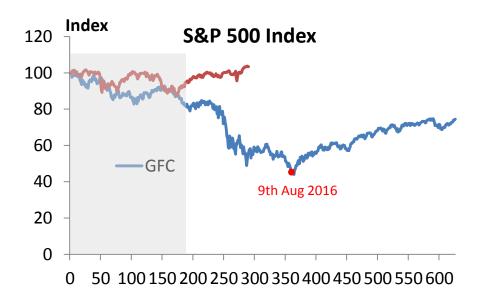












## Singapore Dollar Near Record High Puts Heat on MAS to Ease Again



by Lilian Karunungan

Jilianten

http://bloom.bg/29qFUOr

8<sup>th</sup> Jul 2016

Haven buying of the Singapore dollar amid global market turmoil has pushed a gauge of its strength to unprecedented levels, putting pressure on the city's central bank to do more to support the economy.

The Monetary Authority of Singapore's trade-weighted measure of the currency reached a record high after Britain voted to exit the European Union. It has reversed losses incurred after the MAS surprised markets by moving to a <u>neutral policy</u> of zero percent appreciation in April. That's prompting ABN Amro Bank NV, Royal Bank of Scotland Plc and Nomura Holdings Inc. to predict more easing. The next review is due in October.

SGD NEER at Historic High

While Singapore's top credit rating and current-account surplus is luring money, along with nations such as Japan and South Korea, the city's economy is <u>sputtering</u>. Gross domestic product barely grew in the first quarter from the previous three months and the government predicts non-oil exports will shrink this year. Consumer prices have been declining since November 2014 and retail sales, excluding cars, fell in the three months though April.

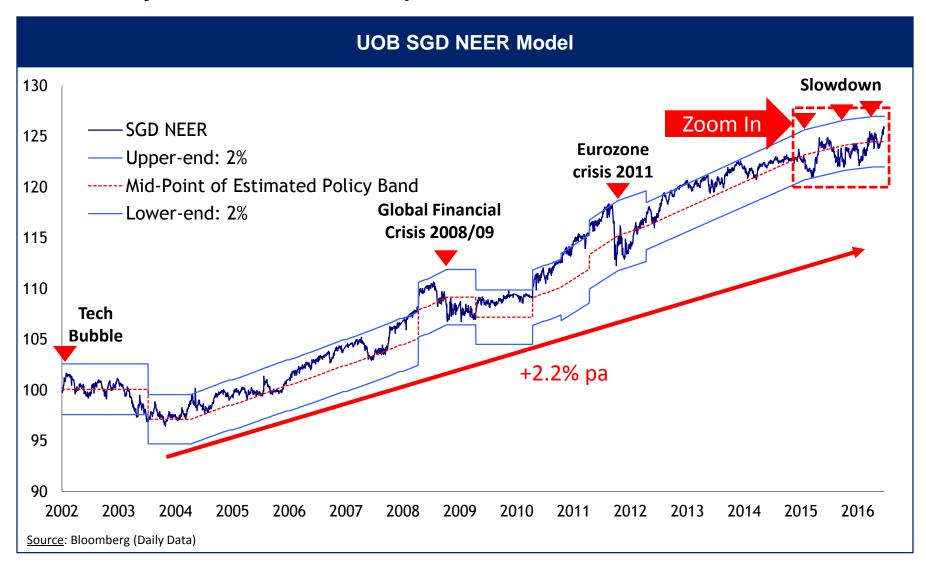
SGD GDP Growth Very Weak

"The risk of MAS easing in October has increased," said XXX, a senior currency strategist at XXX in Singapore. "Global GDP will be lower, and this will have repercussions on Singapore's growth. The Singapore dollar strength against currencies of Singapore's main trading partners poses a strong downside risk to export and inflation forecasts."

MAS Will Ease The SGD NEER



## Appreciating SGD NEER In The Past Was Well Supported By Growth In Labour Productivity, Current Account Surpluses







# TRUTH VALIDITY SOUNDNESS



## A Little... Logic

Premise 1: SGD NEER at Historic Strength Told for GDP Growth False

Premise 2: Whenever GPP out this Bad → MAS will Ease SGD NEER False

Conclusion: SGD NEER at Historic Strength → MAS will Ease SGD NEER

Premise 1: All living things with wings → can fly False

Premise 2: Penguins have wings

Conclusion: Penguins can fly

Premise 1: All Men are Mortal

Premise 2: Francis is a Man

Conclusion: Francis is Mortal

**Valid & Unsound** 

Premise 1: All who wear pants are Men False

Premise 2: The women in this room wear pants

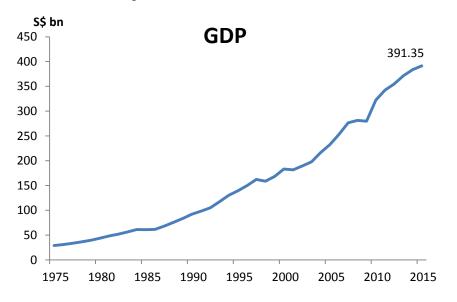
Conclusion: The women in this room are men!

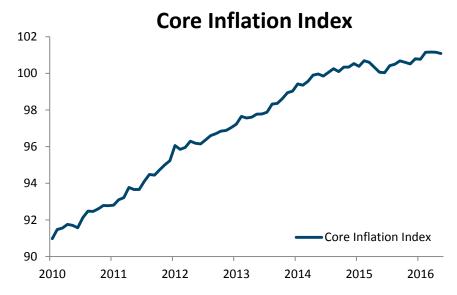
Valid but Unsound

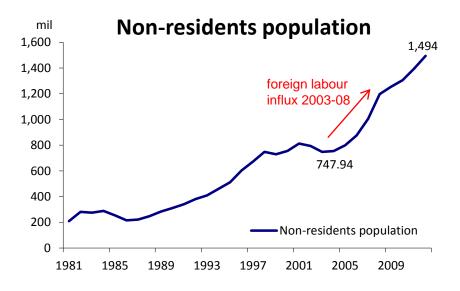
Valid but Unsound

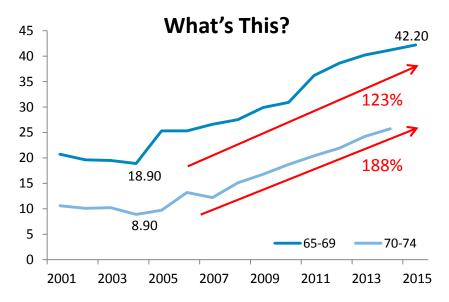


## **But Many Other Economic Indicators Are Also At Its Highest**









## MAS stuns market by flattening Singapore dollar policy band 15th Apr 2016

Central bank shifts to neutral policy stance – even without recessionary conditions – as it tempers core inflation outlook

By Kelly Tay

kellytay@sph.com.sg @KellyTayBT

Singapore

ONCE again, the Monetary Authority of Singapore (MAS) caught the market off-guard – delivering an easing stroke by flattening the Singapore dollar policy band on Thursday, after tempering its core inflation forecast for 2016.

This marked the first time the S\$NEER (Singapore dollar nominal effective exchange rate) band's slope was flattened in the absence of a recession – prompting some economists to call MAS's decision "a new paradigm". One analyst even remarked that market-watchers were "stunned like vegetable" – a reference to a local song and online meme.

Amid the surprise, however, the central bank was keen to stress that its shift to a neutral policy stance of zero per cent appreciation was not a strategy to weaken the Singapore dollar.

"This is not a policy to depreciate the domestic currency, and only removes the modest and gradual appreciation path of the S\$NEER policy band that was in place," emphasised MAS in its twice-yearly monetary policy statement.

This certainly didn't stop the market from reacting, though. The Singapore dollar slid by 0.93 per cent to \$\$1.3632 against the US dollar at 9.49am Singapore time – its biggest fall since November.

The width of the policy band and the level at which it is centred remain unchanged.

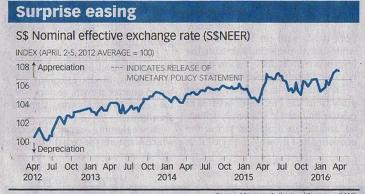
Summing up why the market was so taken aback by the move, UOB economists Francis Tan and Quek Ser Leang said: "A neutral S\$NEER policy slope is typically deployed during critical situations such as the 2008 global financial crisis and the 2001 tech bubble recession, where GDP growth contracted and core inflation fell into the negative zone. The move today is a significant one and shows that the central bank is probably uncomfortable with the recent strength in the SGD, where it gained a 10 big figure in a short span of three months."

Prior to Thursday morning's announcement, most economists had expected MAS to leave its monetary policy stance unchanged. However, a small minority – including those from Citi and HSBC – had warned that it would be a closer call than most were thinking.

What many did not foresee was the subtle but discernable change in MAS's core inflation outlook. After all, the central bank has said that core inflation (which strips out the costs of accommodation and private road transport) is the most relevant indicator for monetary policy.

"For the whole of 2016, (core inflation) should come in within the lower half of the 0.5-1.5 per cent forecast range, barring upside surprises to global oil prices," said MAS – essentially narrowing its core inflation forecast.

While the central bank continues to expect core inflation to rise over the course of this year, it foresees this happening at a milder pace than



Source: Monetary Authority of Singapore (MAS)

earlier thought. This is due to a downward revision in the outlook for global oil prices, a reduction in labour market tightness, and weaker consumer sentiment.

Added MAS: "Over the medium term, core inflation is expected to average slightly below 2 per cent."

Inflation aside, the central bank adjusted its growth outlook too – albeit against its expectations from half a year ago (during its previous policy review in October 2015) – to bring it in line with more recent forecasts. A month after that policy meeting, the Ministry of Trade and Industry (MTI) released its 2016 GDP growth forecast of 1-3 per cent – an assessment MAS reiterated on Thursday

Indeed, against the backdrop of a less favourable external environment, MAS flagged that the level of economic activity would be "slightly below potential".

Flash estimates by MTI – also announced on Thursday – showed that gross domestic product grew by a better-than-expected 1.8 per cent in the first quarter from a year ago, but sequential quarterly growth was flat.

In its policy statement, MAS said that the flattening move follows "measured steps" in January and October 2015, when the slope of the band was decreased.

MAS had adopted a "modest and gradual" appreciation path for the S\$NEER policy band since April 2010.

"The actual outcome of \$\$NEER movements over the six months since October 2015 has in fact been a zero per cent appreciation compared to the preceding six-month period. The cumulative effects of past \$\$NEER movements and the new policy path will continue to ensure price stability over the medium term," said the central bank.

Several economists characterised MAS's decision as "pre-emptive" – one

calculated to counter potential downside risks to inflation and growth expectations, linked to a less-tight labour market.

Mizuho economist Vishnu Varathan, for example, said that MAS could be responding to a "slow-burn" recession-like environment.

Added OCBC economist Emmanuel Ng: "On our end, anticipated labour market tightness we think is no longer sacrosanct and the authorities may have finally acquiesced in terms of expecting any strong pass-through effects. We think therefore that the policy shift was motivated more by inflation-related considerations as opposed to growth concerns."

Looking ahead to the next MAS review in October, some analysts believe another round of monetary policy easing is possible. "The growth data over the coming months will be crucial – and we think that recentring is a likely next step should a technical recession materialise," said HSBC researchers in a note.

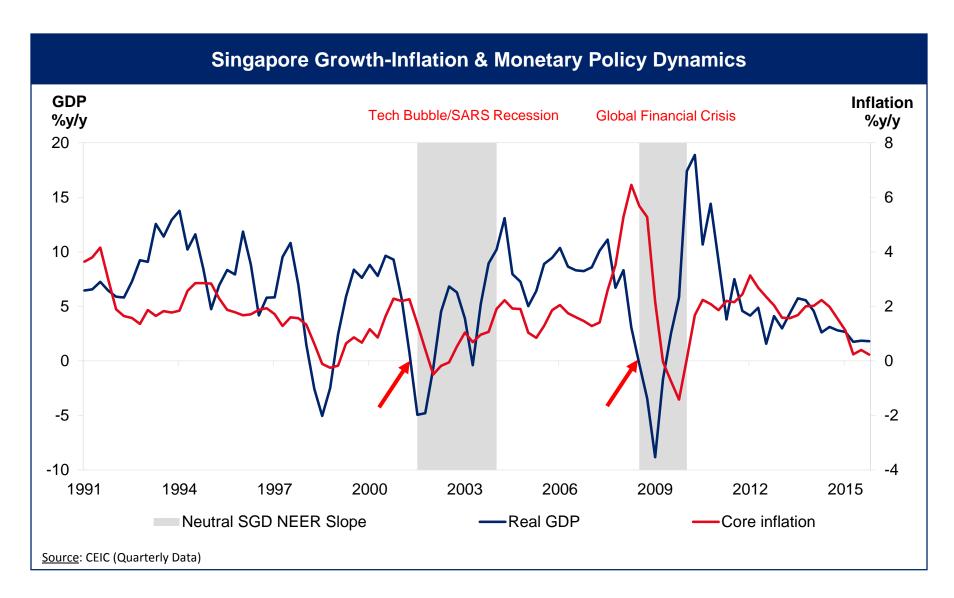
But Mr Varathan warned of other unexpected side-effects from today's policy decision. "One notable unintended risk is that SOR (swap offer rate) rates could rebound if a strong USD expectations comeback is accentuated by the neutral S\$NEER policy.

"This could inevitably intensify pressures on real estate and undermine loan quality for banks. But all considered, measured and lagged back-stop of downside risks is a lesser policy risk."

**■ BT Infographics: Flattening**expectations, Page 2

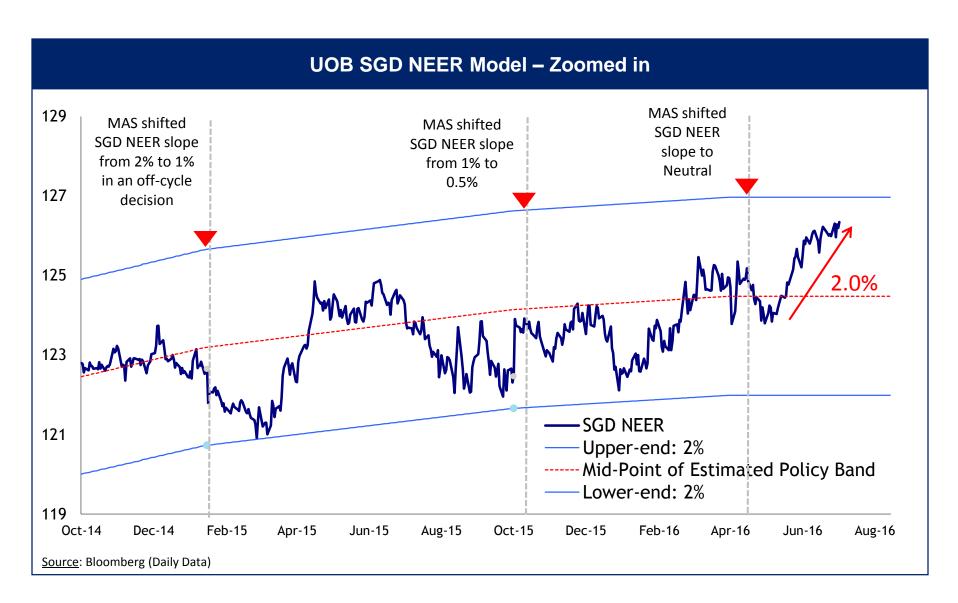


## Past Episodes of ZERO SGD NEER Slope



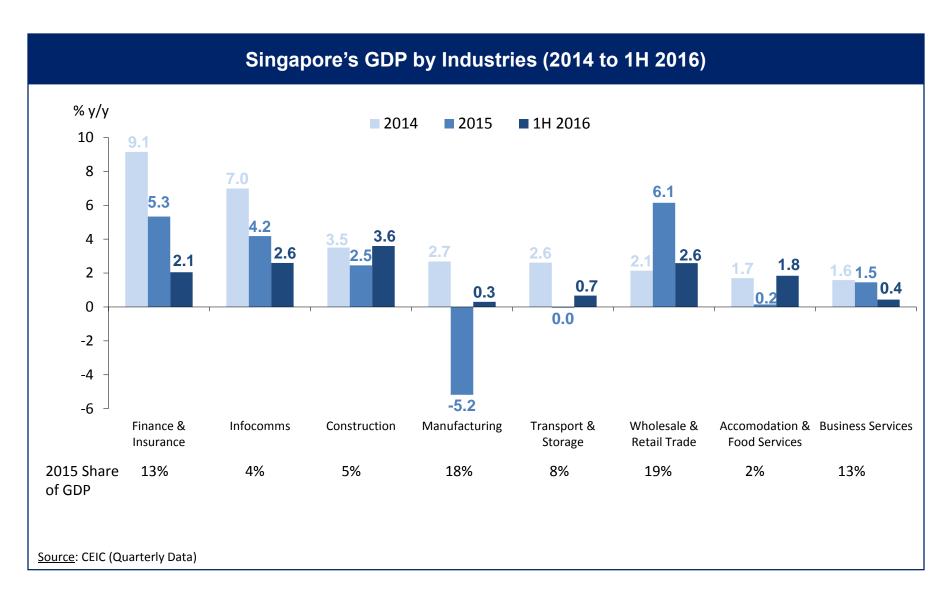


## **SGD Gaining Strength Lately**



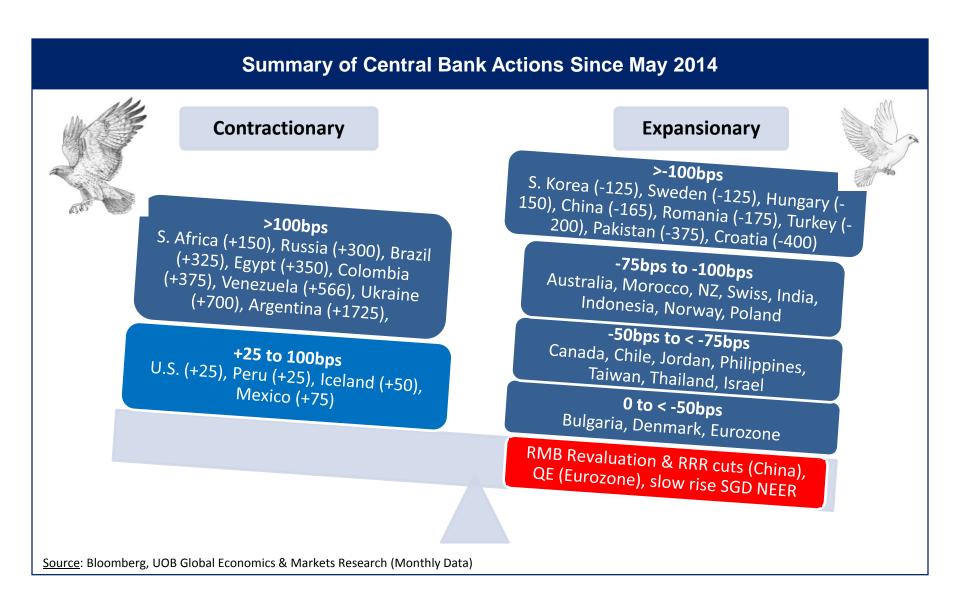


## **Although Mfg Regained Growth, Services Sectors Slowing Down**



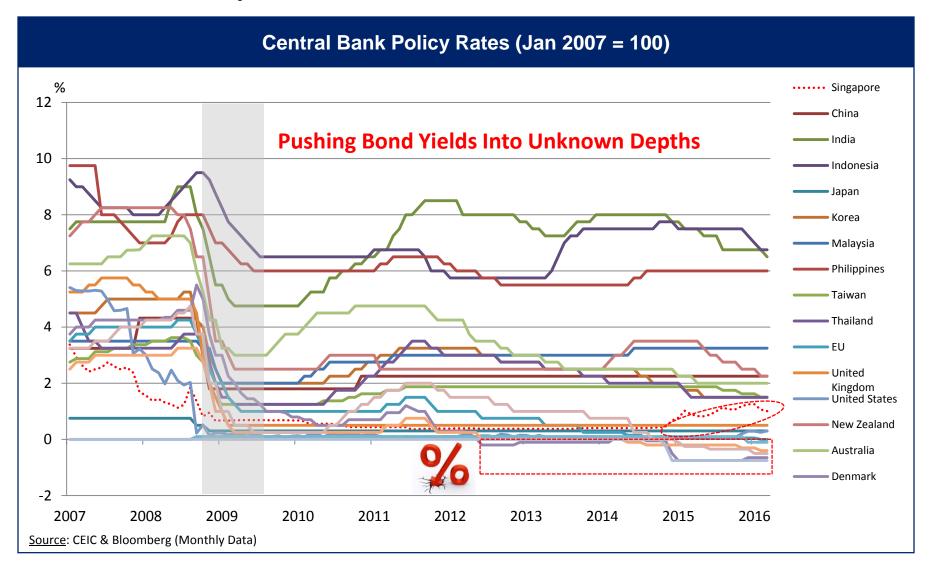


## Divergence In Actions Of Global Central Banks Since Mid 2014





Deflationary Concerns Led Global Central Banks To Ease Policies; For Some, To Unconventional Depths...







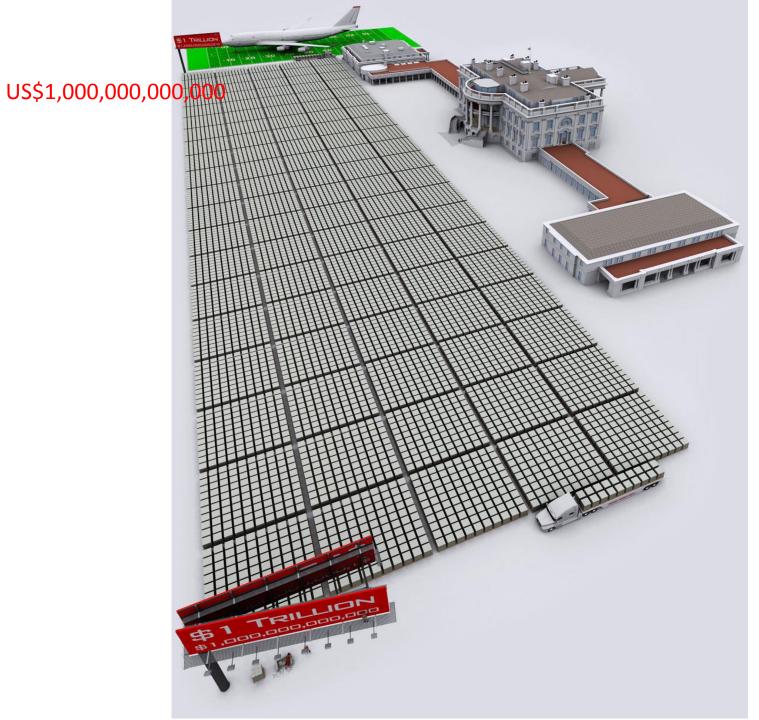
















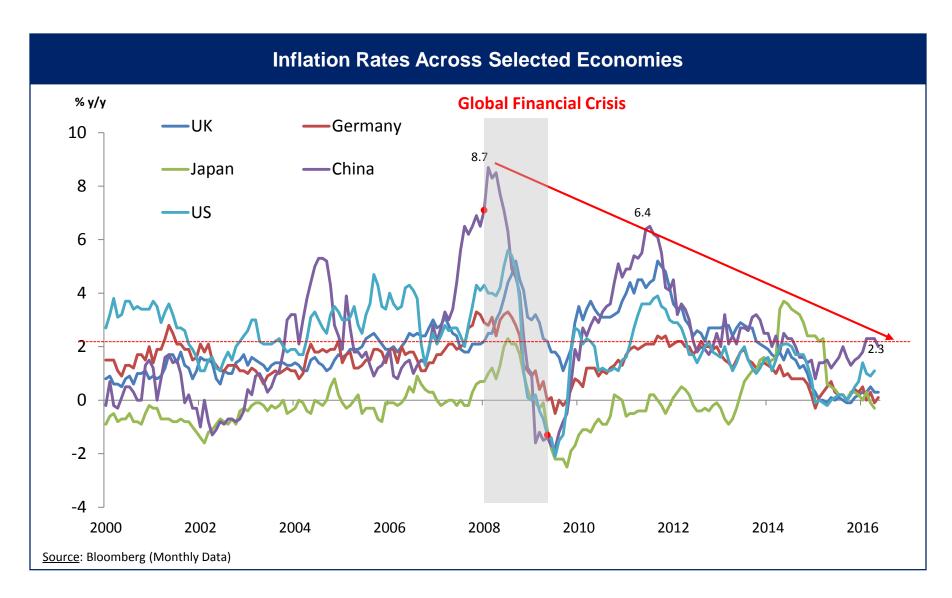
US\$19381,591,000,000



As of: 31st Jun 2016



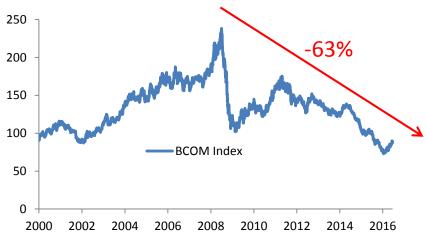
## The Much-Dreaded Inflation From Massive QEs Did Not Materialise



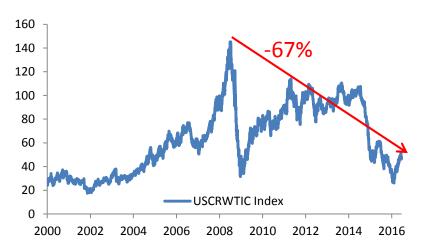


## **World Commodities Prices Remain Depressed**





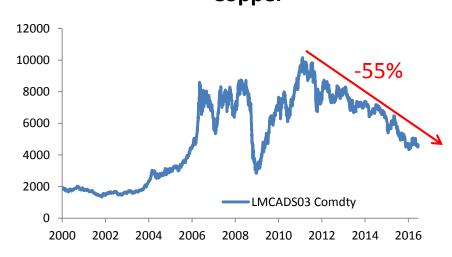
## **West Texas Intermediate Crude**



### **Aluminium**



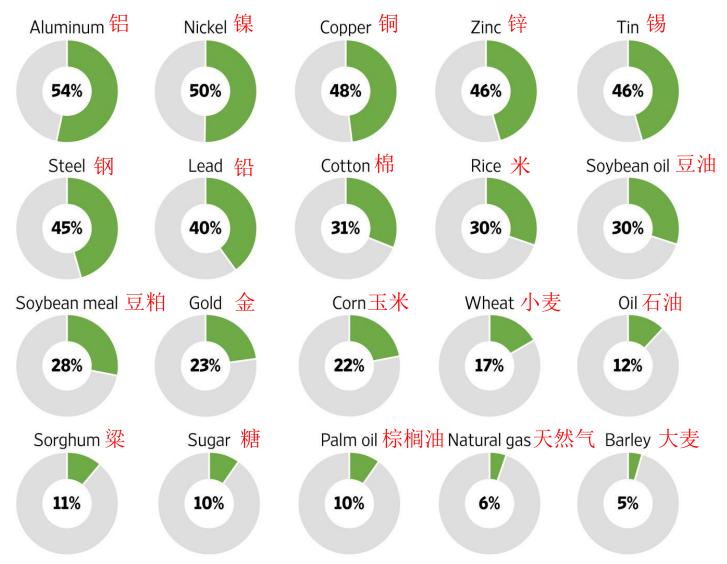
## Copper



Source: Bloomberg (Daily Data)



## **China's Demand of World Commodities**

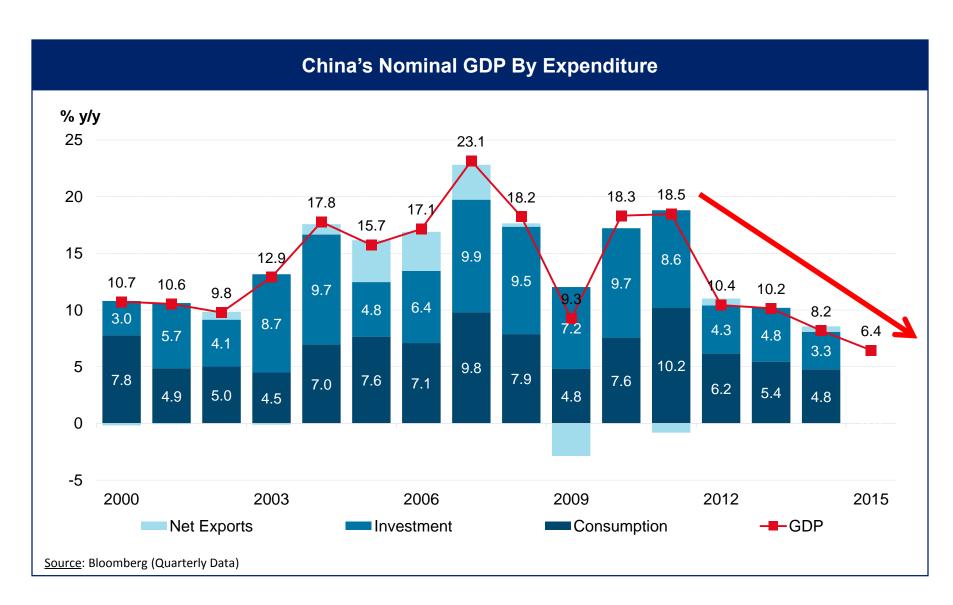


Sources: World Bureau of Metal Statistics (first six months of 2015 for refined metals, slab zinc); World Gold Council (2014 for gold); BP Statistical Review of World Energy 2015 (2014 for oil, natural gas); Metalytics via Morgan Stanley (2015 estimate for finished steel); U.S. Department of Agriculture (2013-14 season for others)

THE WALL STREET JOURNAL.

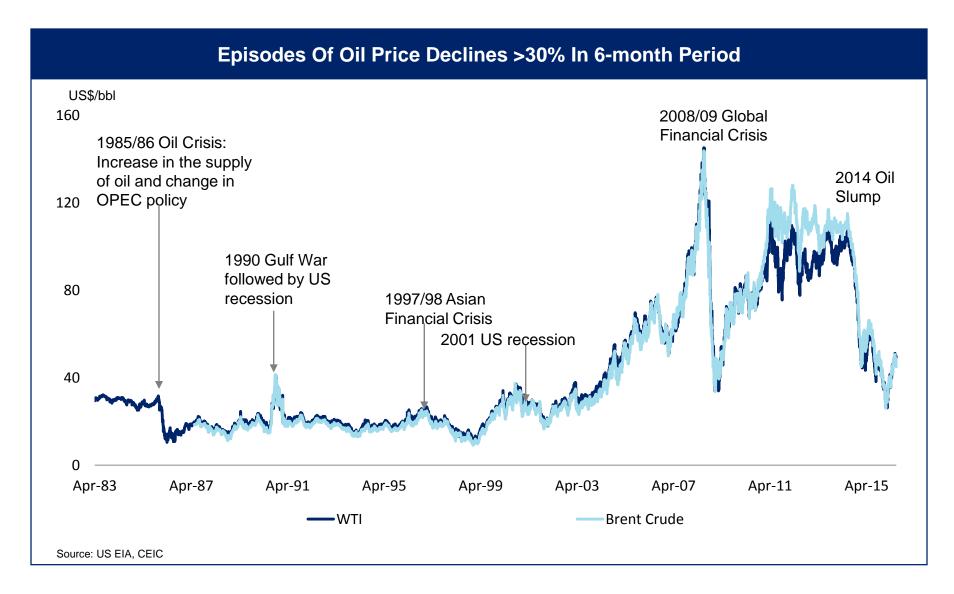


## Slowdown In China's Economic Growth Took Some Blame For Global Slowdown



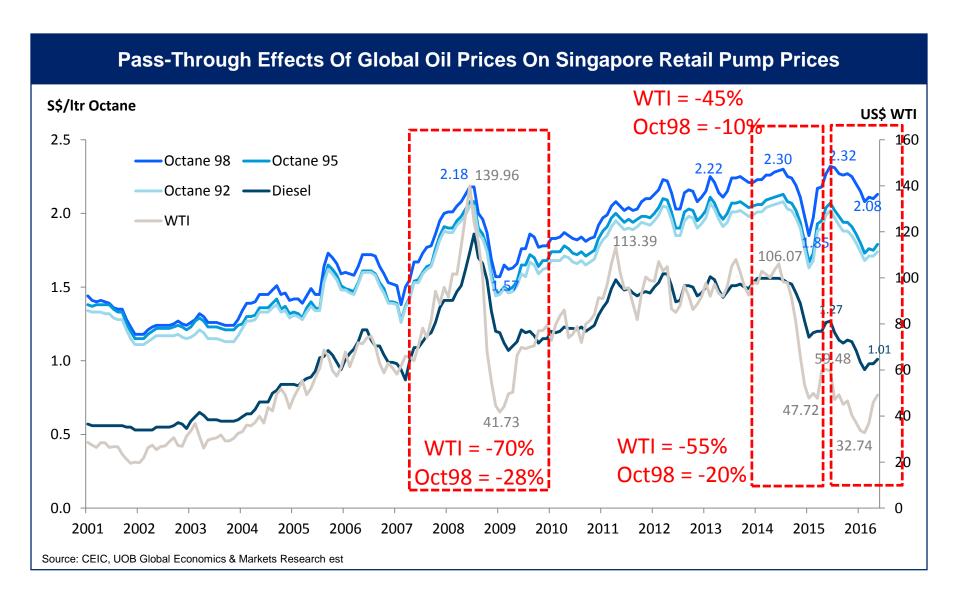


## **Past Episodes of Sharp Oil Price Declines**



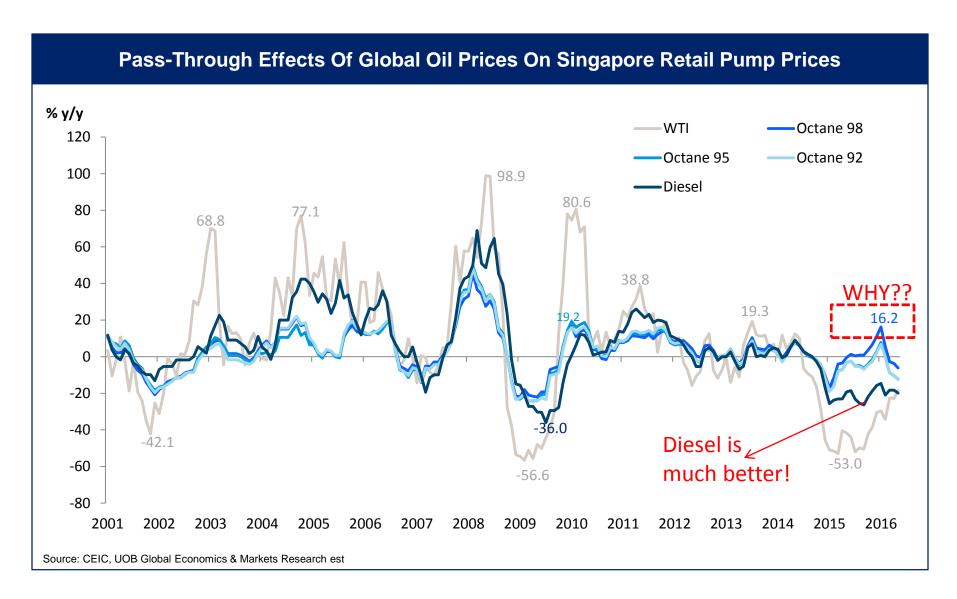


## Pass-Through Similar In Direction, Though Not In Magnitude





## Pass-Through Similar In Direction, Though Not In Magnitude

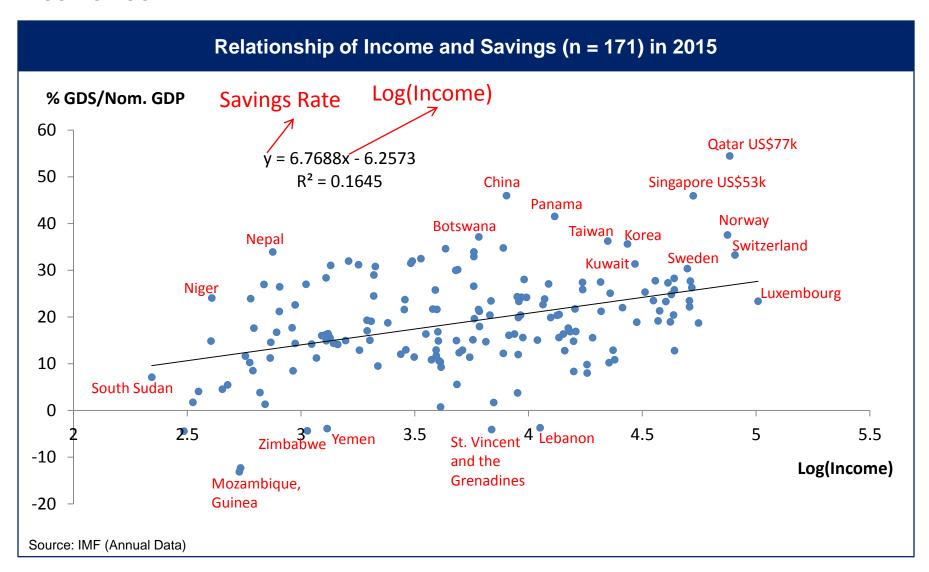






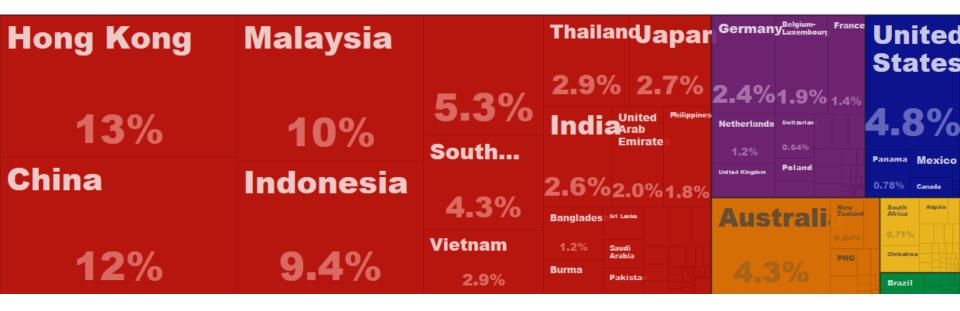


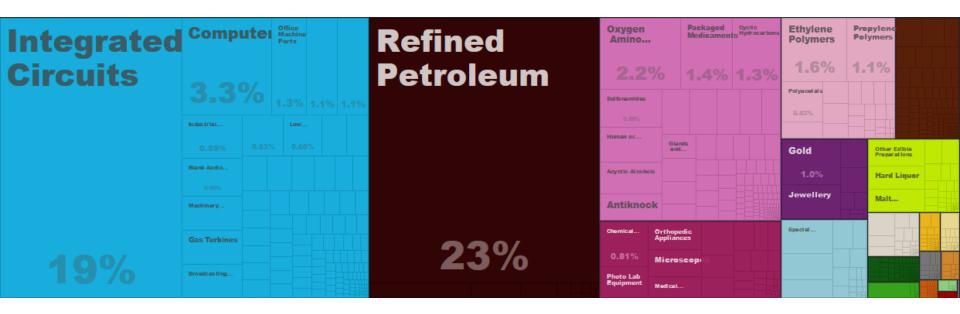
# Those Who Earn More, Save More... Not Just In Terms Of Total \$\$\$, But % of Income Too!





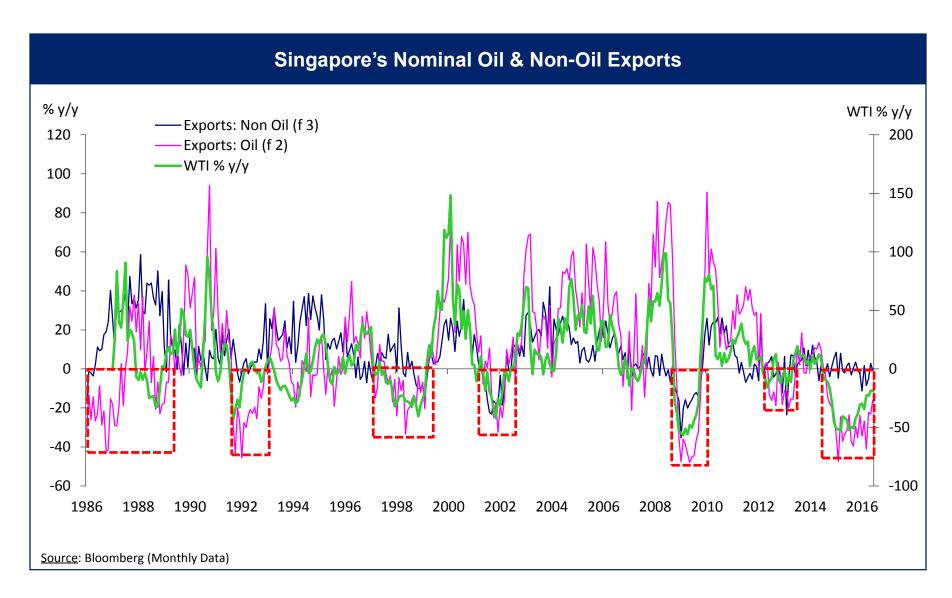








## **Although Oil Exports Contracted, NODX Held Its Grounds**





## **Emerging Markets' Manufacturing Activities Took The Biggest Hits Recently**

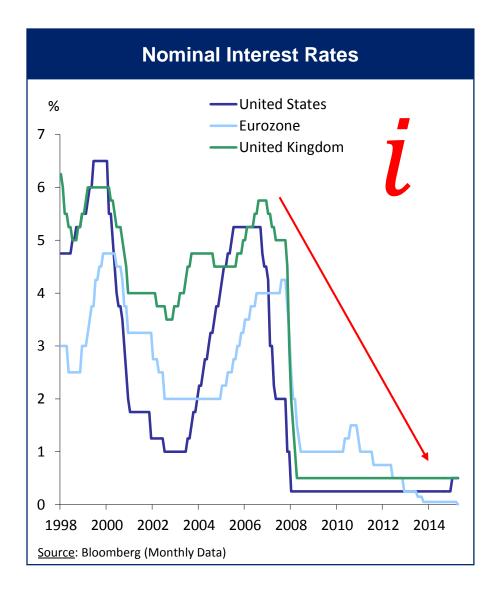
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2015-2016

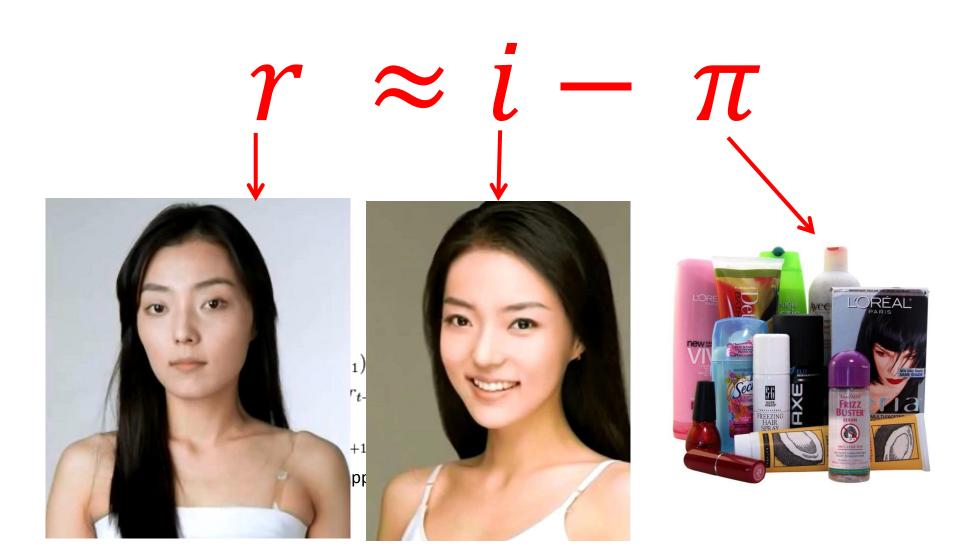
GDP per Cap		52,252	46,405		41,490	41,000	39,892	38,259	37,595	35,667	32,841	28,451	25,260	24,566	18,256	14,955	11,258	8,865	8,522	6,844	5,852	3,863	1,854	1,234	
				Netherland			_			_	_			South	_	Czech						<b></b> .			
Country / Region	World	Ireland	States	S	Kingdom	Austria	Germany	Canada	Japan	France	Eurozone	Italy	Spain	Korea	Greece	Republic		Turkey	Mexico	Russia	Brazil	China	Indonesia		Vietnam
Jun-2016 May-2016	50.4 50	53 51.5	51.3 50.7	52 52.7	52.1 50.4	54.5 52	54.5 52.1	51.8 52.1	48.1 47.7	48.3 48.4	52.8 51.5	53.5 52.4	52.2 51.8	50.5 50.1	50.4 48.4	51.8 53.3	51.8 52.1	47.4 49.4	51.1 53.6	51.5 49.6	43.2 41.6	48.6 49.2	51.9 50.6	51.7 50.7	52.6 52.7
Apr-2016	50.2	52.6	50.8	52.6	49.6	52	51.8	52.2	48.2	48	51.7	53.9	53.5	50.1	49.7	53.6	51	48.9	52.4	48	42.6	49.4	50.9	50.5	52.3
Mar-2016	50.6	54.9	51.5	53.6	50.9	52.8	50.7	51.5	49.1	49.6	51.6	53.5	53.4	49.5	49	54.3	53.8	49.2	53.2	48.3	46	49.7	50.6	52.4	50.7
Feb-2016	50	52.9	51.3	51.7	50.8	51.9	50.5	49.4	50.1	50.2	51.2	52.2	54.1	48.7	48.4	55.5	52.8	50.3	53.1	49.3	44.5	48	48.7	51.1	50.3
Jan-2016 Dec-2015	50.9	54.3	52.4	52.4	53	51.2 50.6	52.3	49.3	52.3	50	52.3	53.2	55.4	49.5	50	56.9	50.9	50.9	52.2	49.8	47.4	48.4	48.9	51.1	51.5
Nov-2015	50.7 51	54.2 53.3	51.2 52.8	53.4 53.5	51.8 52.4	50.6	53.2 52.9	47.5 48.6	52.6 52.6	51.4 50.6	53.2 52.8	55.6 54.9	53 53.1	50.7 49.1	50.2 48.1	55.6 54.2	52.1 52.1	52.2 50.9	52.4 53	48.7 50.1	45.6 43.8	48.2 48.6	47.8 46.9	49.1 50.3	51.3 49.4
Oct-2015	51.1	53.6	54.1	53.7	55.2	53	52.1	48	52.4	50.6	52.3	54.1	51.3	49.1	47.3	54.2	52.2	49.5	53	50.2	44.1	48.3	47.8	50.7	50.1
Sep-2015	50.4	53.8	53.1	53	51.6	52.5	52.3	48.6	51	50.6	52	52.7	51.7	49.2	43.3	55.5	50.9	48.8	52.1	49.1	47	47.2	47.4	51.2	49.5
Aug-2015	50.4	53.6	53	53.9	51.7	50.5	53.3	49.4	51.7	48.3	52.3	53.8	53.2	47.9	39.1	56.6	51.1	49.3	52.4	47.9	45.8	47.3	48.4	52.3	51.3
Jul-2015	50.8	56.7	53.8	56	51.9	52.4	51.8	50.8	51.2	49.6	52.4	55.3	53.6	47.6	30.2	57.5	54.5	50.1	52.9	48.3	47.2	47.8	47.3	52.7	52.6
Jun-2015 May-2015	50.9 51.1	54.6 57.1	53.6 54	56.2 55.5	51.2 52	51.2 50.3	51.9 51.1	51.3 49.8	50.1 50.9	50.7 49.4	52.5 52.2	54.1	54.5 55.8	46.1 47.8	46.9 48	56.9 55.5	54.3 52.4	49 50.2	52 53.3	48.7 47.6	46.5 45.9	49.4	47.8 47.1	51.3 52.6	52.2 54.8
Apr-2015	50.8	55.8	54.1	54	52.2	50.1	52.1	49.0	49.9	48	52.2	53.8	54.2	48.8	46.5	54.7	54	48.5	53.8	48.9	46	48.9	46.7	51.3	53.5
Mar-2015	51.5	56.8	55.7	52.5	53.6	47.7	52.8	48.9	50.3	48.8	52.2	53.3	54.3	49.2	48.9	56.1	54.8	48	53.8	48.1	46.2	49.6	46.4	52.1	50.7
Feb-2015	51.8	57.5	55.1	52.2	54.1	48.7	51.1	48.7	51.6	47.6	51	51.9	54.2	51.1	48.4	55.6	55.1	49.6	54.4	49.7	49.6	50.7	47.5	51.2	51.7
Jan-2015	51.6	55.1	53.9	54.1	52.9	48.5	50.9	51	52.2	49.2	51	49.9	54.7	51.1	48.3	56.1	55.2	49.8	56.6	47.6	50.7	49.7	48.5	52.9	51.5
Dec-2014 Nov-2014	51.4	56.9	53.9	53.5	52.7	49.2	51.2	53.9	52 52	47.5	50.6	48.4	53.8	49.9 49	49.4	53.3	52.8	51.4	55.3	48.9	50.2	49.6	47.6	54.5	52.7
Oct-2014	51.7 52	56.2 56.6	54.8 55.9	54.6 53	53.2 53	47.4 46.9	49.5 51.4	55.3 55.3	52 52.4	48.4 48.5	50.1	49 49	54.7 52.6	49 48.7	49.1 48.8	55.6 54.4	53.2 51.2	52.2 51.5	54.3	51.7 50.3	48.7	50 50.4	48 49.2	53.3 51.6	52.1 51
Sep-2014	52	55.7	57.5	52.2	51.7	47.9	49.9	53.5	51.7	48.8	50.3	50.7	52.6	48.8	48.4	55.6	49.5	50.4	52.6	50.4	49.3	50.2	50.7	51.0	51.7
Aug-2014	52.3	57.3	57.9	51.7	53.2	50.9	51.4	54.8	52.2	46.9	50.7	49.8	52.8	50.3	50.1	54.3	49	50.3	52.1	51	50.2	50.2	49.5	52.4	50.3
Jul-2014	52.4	55.4	55.8	53.5	54.9	50.9	52.4	54.3	50.5	47.8	51.8	51.9	53.9	49.3	48.7	56.5	49.4	48.5	51.5	51	49.1	51.7	52.7	53	51.7
Jun-2014	52.4	55.3	57.3	52.3	56.7	50.4	52	53.5	51.5	48.2	51.8	52.6	54.6	48.4	49.4	54.7	50.3	48.8	51.8	49.1	48.7	50.7	52.7	51.5	52.3
May-2014 Apr-2014	51.9 51.6	55 56.1	56.4 55.4	53.6 53.4	56.7 57.5	50.9 51.4	52.3 54.1	52.2 52.9	49.9 49.4	49.6 51.2	52.2 53.4	53.2 54	52.9 52.7	49.5 50.2	51 51.1	57.3 56.5	50.8 52	50.1 51.1	51.9 51.8	48.9 48.5	48.8 49.3	49.4 48.1	52.4 51.1	51.4 51.3	52.5 53.1
Mar-2014	52.5	55.5	55.5	53.4	54.7	51.4	53.7	53.3	53.9	52.1	53	52.4	52.7	50.2	49.7	55.5	54	51.7	51.7	48.3	50.6	48.1	50.1	51.3	51.3
Feb-2014	52.8	52.9	57.1	55.2	56.2	53	54.8	52.9	55.5	49.7	53.2	52.3	52.5	49.8	51.3	56.5	55.9	53.4	52	48.5	50.4	48.5	50.5	52.5	51
Jan-2014	52.7	52.8	53.7	54.8	56.5	54.1	56.5	51.7	56.6	49.3	54	53.1	52.2	50.9	51.2	55.9	55.4	52.7	54	48	50.8	49.5	51	51.4	52.1
Dec-2013	52.7	53.5	55	57	57.2	54.1	54.3	<b>3</b> 1	55.2 55.1	) [ ] [	52.7 51.6	53.3	50.8	50.8	49.6	54.7	53.2	53.5	52.6	48.8	50.5	50.5	50.9	50.7	51.8
Nov-2013 Oct-2013	52.6 51.8	52.4 54.9	54.7 51.8	56.8 54.4	57.7 56.2	54.3 52.7	52.7	<b>L</b> T	55.1		51.6	51.4 50.7	48.6 50.9	50.4 50.2	49.2 47.3	55.4 54.5	54.4 53.4	55 53.3	51.9 50.2	49.4	49.7 50.2	50.8 50.9	50.3 50.9	51.3 49.6	50.3 51.5
Sep-2013	51.5	52.7	52.8	55.8	57.1	51.1	51.7	54.2	52.5	49.1	51.3	50.7	50.7	49.7	47.5	53.4	53.4	54	50.2	51.8 49.4	49.9	50.9	50.9	49.6	51.5
Aug-2013	51.4	52	53.1	53.5	58.6	52	51.8	52.1	62.2	49.7	62.4	61.3	62.2	47.9	48.7	63.9	62.0	50.9	50.8	49.4	49.4	50.1	48.5	48.5	49.4
Jul-2013	50.4	51	53.7	50.8	54.6	49.1	50.7	52	50.7	49.7	50.3	50.4	49.8	47.2	47	52	51.1	49.8	49.7	49.2	48.5	47.7	50.7	50.1	48.5
Jun-2013	50.2	50.3	51.9	48.8	52.6	48.3	48.6	52.4	52.3	48.4	48.8	49.1	50	49.4	45.4	51	49.3	51.2	51.3	51.7	50.4	48.2	51	50.3	46.4
May-2013 Apr-2013	50.3 50.2	49.7 48	52.3	48.7	51.9	48.2 47.8	49.4 48.1	53.2	51.5	46.4	48.3 46.7	47.3 45.5	48.1	51.1 52.6	45.3 45	50.1 49.5	48	51.1 51.3	51.7 51.7	50.4	50.4 50.8	49.2 50.4	51.6	50.1	48.8
Mar-2013	50.2	48 48.6	52.1 54.6	48.2	49.6	47.8	48.1	50.1 49.3	51.1 50.4	44.4	46.8	45.5	44.7	52.6	42.1	49.5	48.9	52.3	52.2	50.6	50.8	51.6	51.7 51.3	51 52	51 50.8
Feb-2013	50.7	51.5	54.3	49	47.9	48.3	50.3	51.7	48.5	43.9	47.9	45.8	46.8	50.9	43	49.9	48.9	53.5	53.4	52	52.5	50.4	50.5	54.2	48.3
Jan-2013	51.4	50.3	55.8	50.2	51	48.6	49.8	50.5	47.7	42.9	47.9	47.8	46.1	49.9	41.7	48.3	48.6	54	55	52	53.2	52.3	49.7	53.2	50.1
Dec-2012	50.1	51.4	54	49.6	50.7	48.1	46	50.4	45	44.6	46.1	46.7	44.6	50.1	41.4	46	48.5	53.1	57.1	50	51.1	51.5	50.7	54.7	49.3
Nov-2012 Oct-2012	49.6	52.4	52.8	48.2	48 47.9	49.3	46.8	50.4	46.5	44.5 43.7	46.2	45.1	45.3	48.2 47.4	41.8	48.2 47.2	48.2	51.6	55.6	52.2	52.2	50.5 49.5	51.5	53.7	50.5 48.7
Sep-2012	48.8	52.1 51.8	51 51.1	50.7	47.9	44.8	45	51.4 52.4	46.9 48	43.7	45.4 46.1	45.5 45.7	43.5	47.4	41	47.2	47.3	52.5 52.2	55.5 54.4	52.9 52.4	50.2 49.8	49.5	51.9 50.5	52.9 52.8	49.2
Aug-2012	48.6	50.9	51.5	49.7	49.8	46.7	44.7	53	47.7	46	45.1	43.6	44.5	47.5	42.1	48.7	48.3	50	55.1	51	49.3	47.6	51.6	52.8	47.9
Jul-2012	48.6	53.9	51.4	48.9	45.5	47.4	43	53.1	47.9	43.4	44	44.3	42.3	47.2	41.9	49.5	49.7	49.4	55.2	52	48.7	49.3	51.4	52.9	43.6
Jun-2012	49.4	53.1	52.5	48.9	48.5	50.1	45	54.8	49.9	45.2	45.1	44.6	41.1	49.4	40.1	49.4	48	51.4	55.9	51	48.5	48.2	50.2	55	46.6
May-2012	49.9	51.2	54	47.6	46.7	50.2	45.2	54.7	50.7	44.7	45.1	44.8	42	51	43.1	47.6	48.9	50.2	55.2	53.2	49.3	48.4	48.1	54.8	48.3
Apr-2012 Mar-2012	51 51.3	50.1 51.5	56 56	49 49.6	50.1 52.6	51.2 51.5	46.2 48.4	53.3 52.4	50.7 51.1	46.9 46.7	45.9 47.7	43.8 47.9	43.5 44.5	51.9 52	40.7 41.3	49.7 52.1	49.2 50.1	52.3 49.6	56.3 53.9	52.9 50.8	49.3 51.1	49.3 48.3	50.5 50.8	54.9 54.7	49.5 50
Feb-2012	51.3	49.7	53.6	50.3	52.6	52.5	50.2	51.8	50.5	50	47.7	47.9	44.5	50.7	37.7	50.5	50.1	49.6	53.7	50.7	51.1	49.6	50.6	56.6	46.2
Jan-2012	50.8	48.3	54.3	49	50.8	51.8	51	50.6	50.7	48.5	48.8	46.8	45.1	49.2	41	48.8	52.2	51.7	52.2	50.8	50.6	48.8	48.5	57.5	47.2
Dec-2011	50.1	48.6	53.9	46.2	49	49	48.4	54	50.2	48.9	46.9	44.3	43.7	46.4	42	49.2	48.8	52	53.1	51.6	49.1	48.7	48.8	54.2	48.2
Nov-2011	49.3	48.5	53.4	46	47.3	47.6	47.9	53.3	49.1	47.3	46.4	44	43.8	47.1	40.9	48.6	49.5	52.3	53.7	52.6	48.7	47.7	50.1	51	49.9
Oct-2011 Sep-2011	50.5	50.1	53.6	48	49	48	49.1	53.7	50.6	48.5	47.1	43.3	43.9	48	40.5	51.7	51.7	53.3	54.7	50.4	46.5	51	51.6	52	49.7
Sep-2011 Aug-2011	50.4 50.9	47.3 49.7	53.7 53.9	48.9 50.7	50.5 49.4	<b>48.7</b> 50.1		55.5 55.4	49.3 51.9	48.2 49.1	48.5 49	48.3	43.7 45.3	47.5 49.7	43.2 43.3	53.3 53.4	50.2 51.8	51.5 48.8	53 51.7	50 49.9	45.5 46	49.9 49.9	49.7 50.8	50.4 52.6	50.5 49.6
			33.3	30.7		30.1	30.3	33.4										40.0	34.7	-0.0		40.0	50.0	32.0	45.0



## **Interest Rates May Be Low, But Inflation Was Lower**

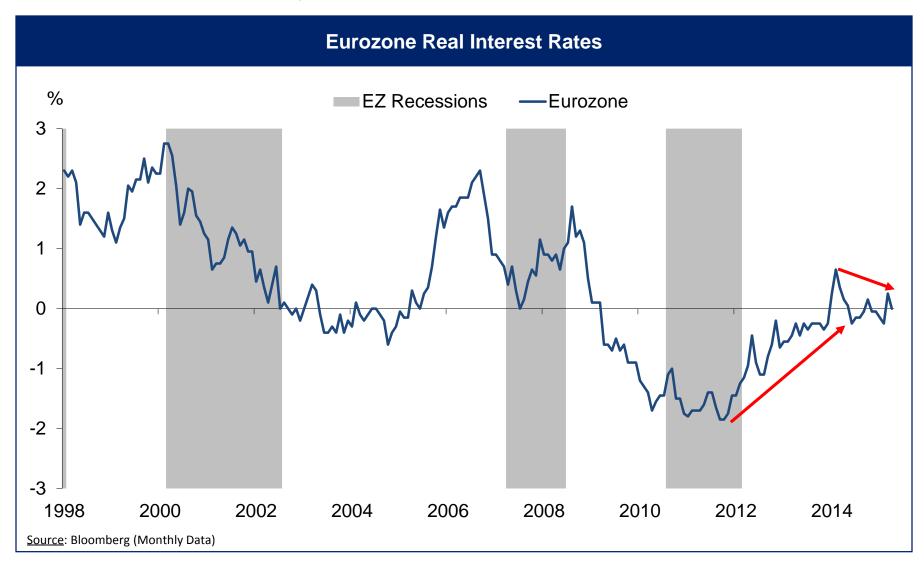






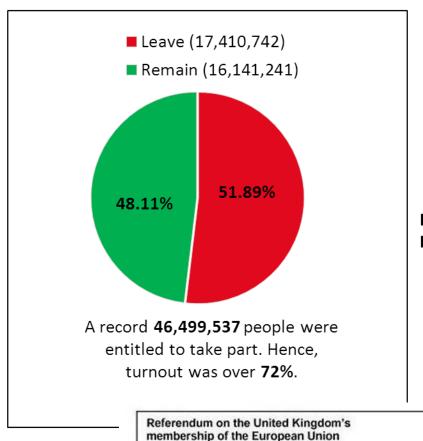


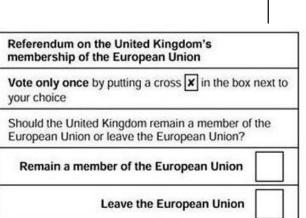
# Concerns over Rising Real Interest Rates Pushed ECB To Adopt Very Unconventional Monetary Policies

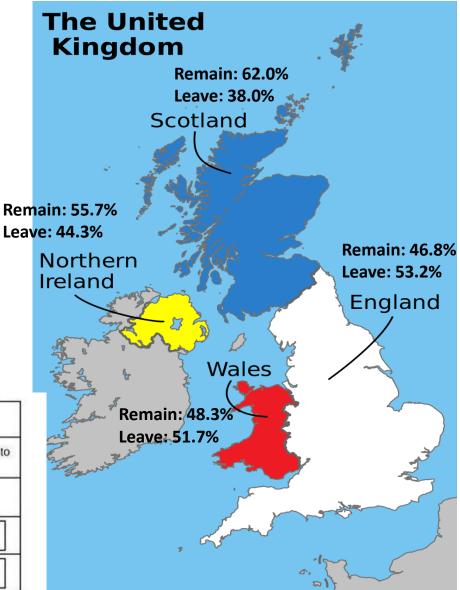




## **UK Referendum: The Outcome**

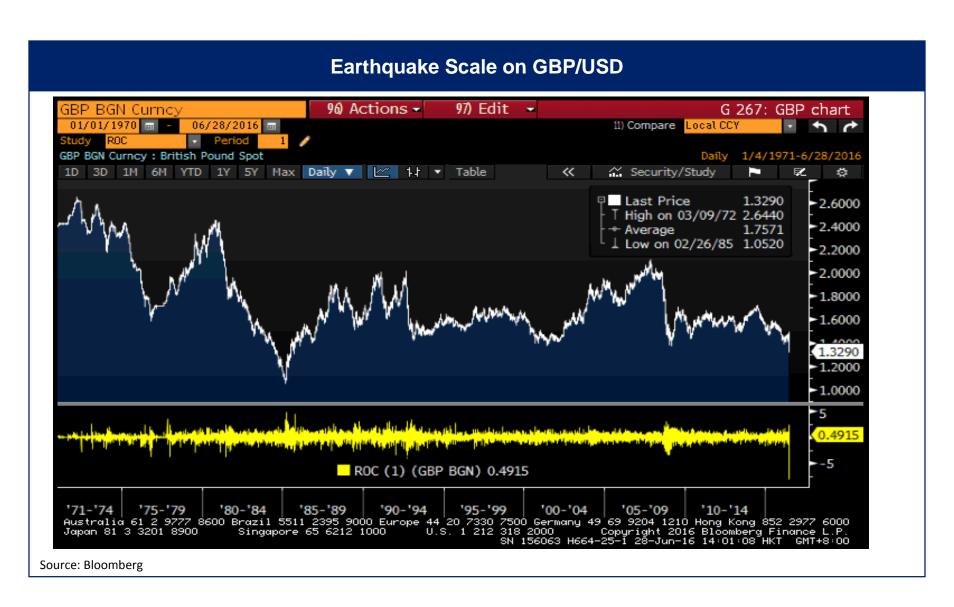








## **GBP/USD: Taking the brunt of impact**





# Credit spread widens but should be contained by Central Banks' pledge to offer liquidity





## European banks' CDS rose but still far below 2012 levels

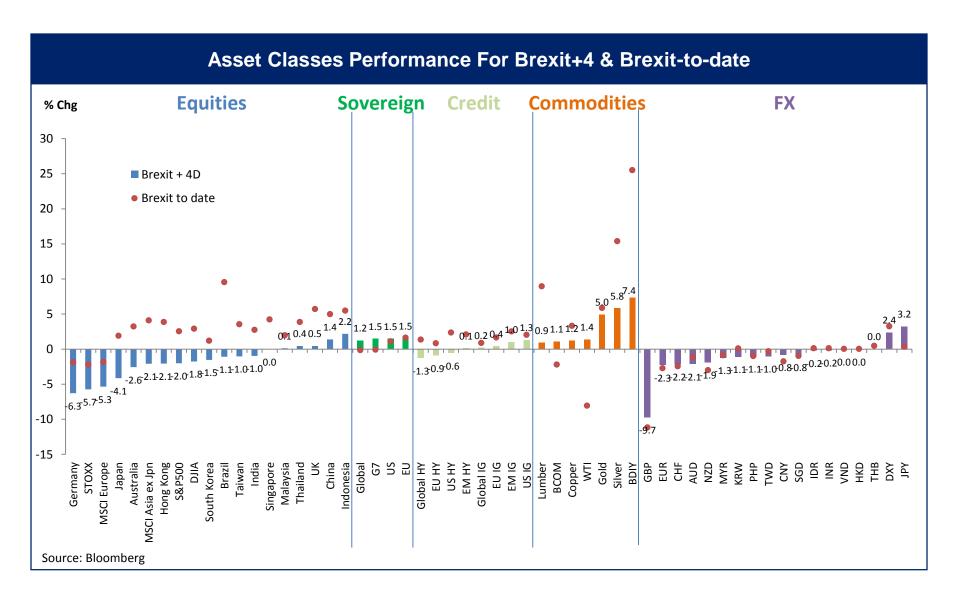




How Have G	Blobal Policymakers Responded?
G7	Released a statement in a post-Brexit conference that it "recognize that excessive volatility and disorderly movements in exchange rates can have adverse implications for economic and financial stability" and that they are monitoring markets.
Bank of England	True to its word, the BoE did not stand in the way of the currency adjustment, it did however pledge an extra GBP250bn of additional funds to ensure market stability.
European Central Bank	Issued a press release stating that "the ECB stands ready to provide additional liquidity, if needed, in euro and foreign currencies" and that it is "closely monitoring financial markets and is in close contact with other central banks."
Federal Reserve	Said it is carefully monitoring developments in the global markets and is prepared to provide USD liquidity through existing swap lines with central banks.
Bank of Japan	Said it is carefully monitoring developments in the global markets and is prepared to provide USD liquidity through existing swap lines with central banks.
Swiss National Bank	Confirmed intervention in CHF, and will remain active in the market.
Monetary of Singapore	Said trade-weighted SGD remains within its policy band; liquidity positions of major banks in Singapore are healthy; stands ready to curb excessive volatility in SGD; have been prepared for market volatility; continues to be vigilant and stay in close touch contact with fellow central banks and regulators; will provide additional liquidity to the banking system if needed.
Credit Rating Agencies	<ul> <li>S&amp;P downgraded UK's sovereign rating from AAA- to AA-</li> <li>Fitch cut its rating from AA+ to AA</li> <li>Moody's downgraded UK outlook to negative from stable while maintaining the Aa1 rating</li> </ul>



## Selling Off of Risky Assets; Accumulation in Safe Haven Assets







David Cameron has already announced his resignation. He is expected to be replaced



we doubt France's citizens will be granted any such plebiscite. And Germany won't allow for such.



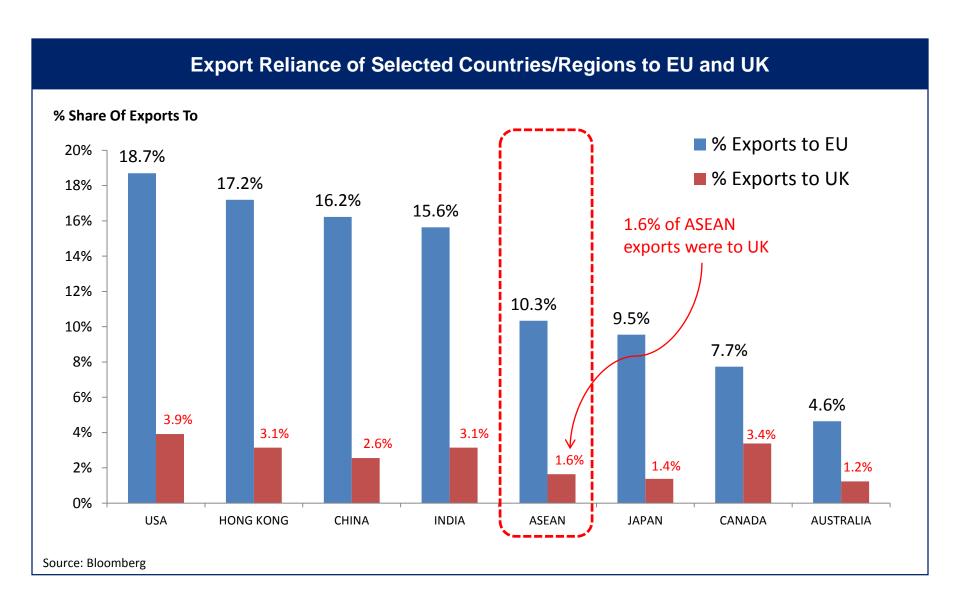
"... The big issues are not about financial markets or economics. The markets will react negatively, and overshoot, but this will not be like 2008 when the house came down. There will be a loss of growth in the UK and Europe because of the uncertainty of the next few years, and the weaknesses there will also hurt the rest of the world including us in Asia. But the more profound questions revolve around politics. ... "

Singapore Deputy PM Tharman Shanmugaratnam Facebook post 24 Jun 2016

https://www.facebook.com/TharmanShanmugaratnam/posts/1331060486923439:0

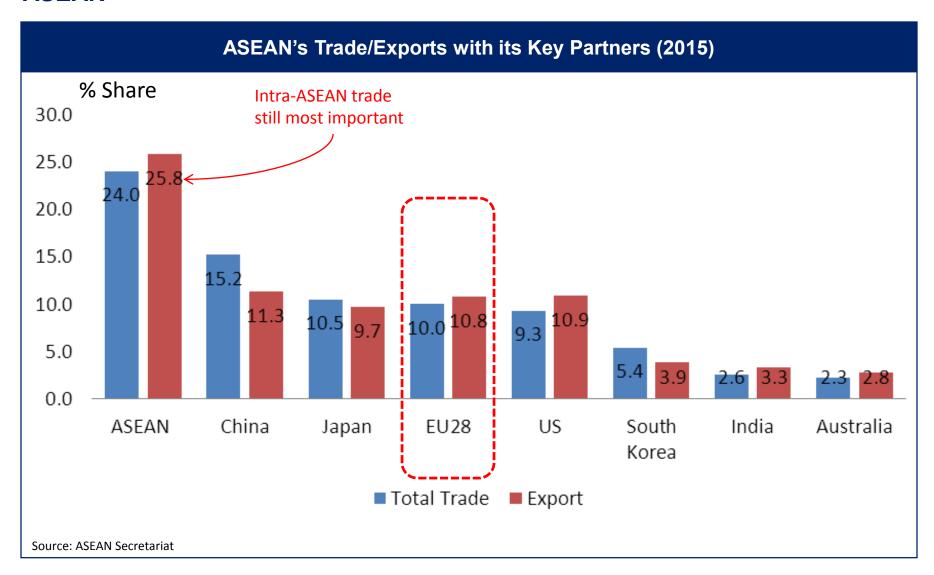


## 1.6% of ASEAN's Exports Were To The UK; 10.3% to EU



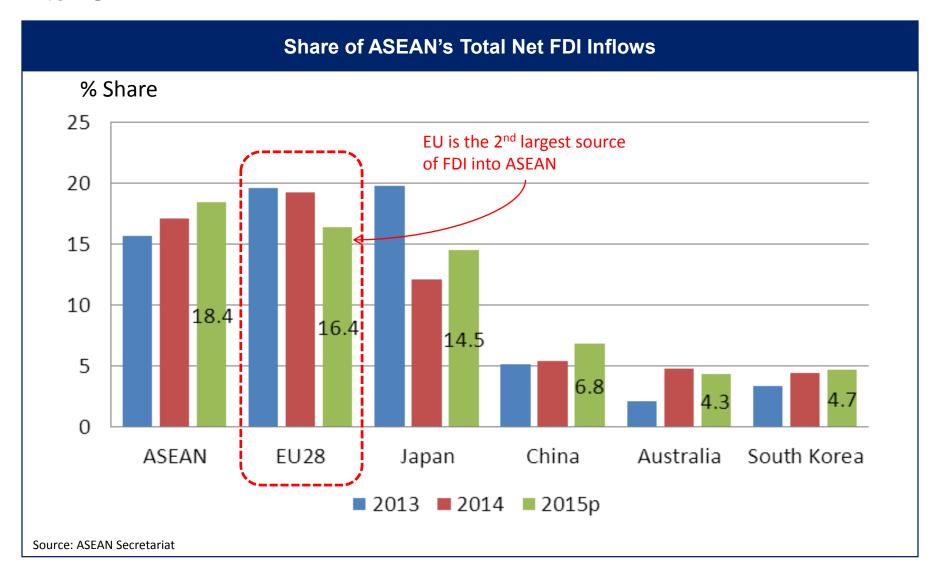


# Excluding Intra-ASEAN Trade, EU28 Was The Third Largest Trading Partner With ASEAN



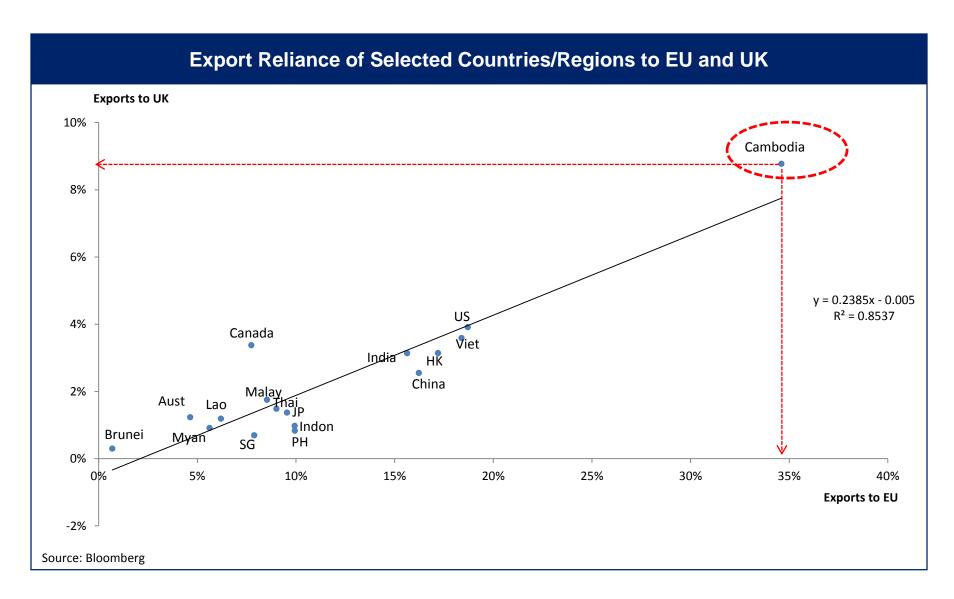


# Excluding Intra-ASEAN FDI, EU28 Was The Largest Source of FDI Net Inflows Into ASEAN





## However, The Reliance Is Very Different Across ASEAN Countries



Exports from Cambodia to UK: US\$1.27b (2014)





Exports from Cambodia to Germany: US\$1.29b (2014)





3.4%2.3%2.2%

Blank Audio... Office Machine Parts

1.9% 1.4% 1.1% 0.919

Liquid Pumps Equipment

0.90% Electrical Transformer

Video.. Electrical Transformer

Video.. Electrical Control..

4.2%

Sulfonamides

2.9%

Nitrogen...

Perfumes

Oxygen...

Disc...

Refined

Petroleum

Orthopedic...

1.4%

Aircraft Parts

0.66%

1.0%

Devellery

0.89%

Other...

Brochure

1.5%

Tea

Baked...

Fruit
Juice

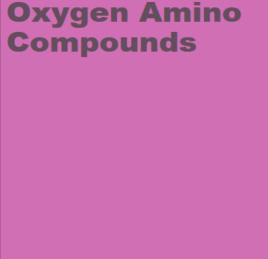
Partings

0.47%

Live...

Live...

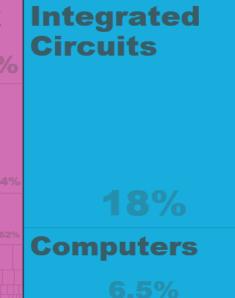
Exports from Singapore to Germany: US\$6.43b (2014)

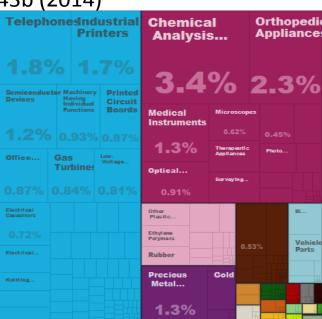


Gas

**Turbines** 









## **SG** Listed Companies With The Largest Exposure To UK

Name	Industry	% Rev From UK	Market Cap	% chg since BREXIT	Price
ELEKTROMOTIVE GROUP LTD	Electrical Equipment	76.9	\$ 9,742,101	33.3%	\$ 0.004
BROOK CROMPTON HOLDINGS					
LTD	Trading Companies & Distributo	57.8	\$ 12,942,502	-15.8%	\$ 0.320
INFORMATICS EDUCATION LTD	Diversified Consumer Services	44.2	\$ 14,804,205	-2.4%	\$ 0.200
AF GLOBAL LTD	Hotels Restaurants & Leisure	35.3	\$ 210,072,256	0.0%	\$ 0.199
HO BEE LAND LTD	Real Estate Management & Devel	30.5	\$ 1,432,404,864	0.0%	\$ 2.170
HWA HONG CORP LTD	Real Estate Management & Devel	25.5	\$ 196,051,200	-4.9%	\$ 0.290
COMFORTDELGRO CORP LTD	Road & Rail	24.9	\$ 5,755,910,144	10.5%	\$ 2.950
KOP LTD	Media	23.4	\$ 75,341,432	-4.7%	\$ 0.081
UG HEALTHCARE CORP LTD	Health Care Equipment & Suppli	22.8	\$ 56,407,060	-1.7%	\$ 0.290
FRASERS HOSPITALITY TRUST	Real Estate Investment Trusts	18.7	\$ 1,055,578,752	2.0%	\$ 0.775
CENTURION CORP LTD	Hotels Restaurants & Leisure	18.5	\$ 273,786,848	0.0%	\$ 0.355
MEGACHEM LTD	Trading Companies & Distributo	14.5	\$ 51,987,000	2.6%	\$ 0.390
ADVANCED INTEGRATED MANUFACT	Electronic Equip., Instruments	13.8	\$ 30,420,874	-17.4%	\$ 0.190
ASCOTT RESIDENCE TRUST	Real Estate Investment Trusts	13.6	\$ 1,797,650,304	3.7%	\$ 1.135
MTQ CORP LTD	Energy Equipment & Services	12.5	\$ 77,186,552	-2.0%	\$ 0.490
CITY DEVELOPMENTS LTD	Real Estate Management & Devel	12.4	\$ 7,428,992,000	2.9%	\$ 8.550
FORISE INTERNATIONAL LTD	Textiles, Apparel & Luxury Goo	10.2	\$ 39,780,000	-5.6%	\$ 0.017
BLUE SKY POWER HOLDINGS LTD	Commercial Services & Supplies	8.7	\$ 846,820,544	0.0%	\$ 0.100
AZEUS SYSTEMS HOLDINGS LTD	IT Services	8.3	\$ 15,000,000	-9.0%	\$ 0.455
CHINA HAIDA LTD	Building Products	7.3	\$ 3,568,329	28.6%	\$ 0.018
JARDINE MATHESON HLDGS LTD	Industrial Conglomerates	5.6	\$ 40,289,243,136	6.5%	\$ 57.840
		\/			



## **SG** Listed Companies With The Largest Exposure To EU

Name	Industry	% Rev From EU	Market Cap	% chg since BREXIT	Price
IREIT GLOBAL	Real Estate Investment Trusts	100.0	\$ 446,734,944	3.5%	\$ 0.745
ELEKTROMOTIVE GROUP LTD	Electrical Equipment	76.9	\$ 9,742,101	33.3%	\$ 0.004
BROOK CROMPTON HOLDINGS LTD	Trading Companies & Distributo	57.8	\$ 12,942,502	-15.8%	\$ 0.320
FORISE INTERNATIONAL LTD	Textiles, Apparel & Luxury Goo	52.7	\$ 39,780,000	-5.6%	\$ 0.017
FRENCKEN GROUP LTD	Machinery	46.7	\$ 93,196,552	-4.3%	\$ 0.220
UG HEALTHCARE CORP LTD	Health Care Equipment & Suppli	44.8	\$ 56,407,060	-1.7%	\$ 0.290
INFORMATICS EDUCATION LTD	Diversified Consumer Services	44.2	\$ 14,804,205	-2.4%	\$ 0.200
AF GLOBAL LTD	Hotels Restaurants & Leisure	35.3	\$ 210,072,256	0.0%	\$ 0.199
ACMA LTD	Machinery	34.8	\$ 19,287,818	-14.3%	\$ 0.390
RICKMERS MARITIME	Marine	34.7	\$ 71,249,440	1.3%	\$ 0.079
SEMBCORP MARINE LTD	Machinery	31.8	\$ 3,228,648,704	-1.3%	\$ 1.535
HO BEE LAND LTD	Real Estate Management & Devel	30.5	\$ 1,425,742,464	0.0%	\$ 2.170
SINGAPORE SHIPPING CORP LTD	Marine	30.1	\$ 117,814,120	5.6%	\$ 0.285
PNE INDUSTRIES LTD	Electronic Equip., Instruments	29.4	\$ 54,965,480	5.3%	\$ 0.695
ASCOTT RESIDENCE TRUST	Real Estate Investment Trusts	28.9	\$ 1,805,896,448	3.7%	\$ 1.135
HWA HONG CORP LTD	Real Estate Management & Devel	25.5	\$ 196,051,200	-4.9%	\$ 0.290
COMFORTDELGRO CORP LTD	Road & Rail	24.9	\$ 5,820,583,424	10.5%	\$ 2.950
KOP LTD	Media	23.4	\$ 75,341,432	-4.7%	\$ 0.081
CFM HOLDINGS LTD	Machinery	21.5	\$ 3,255,570	-10.0%	\$ 0.027
FRASERS HOSPITALITY TRUST	Real Estate Investment Trusts	18.7	\$ 1,055,578,752	2.0%	\$ 0.775
CENTURION CORP LTD	Hotels Restaurants & Leisure	18.5	\$ 273,786,848	0.0%	\$ 0.355
PCI LTD	Electronic Equip., Instruments	17.0	\$ 85,612,568	-2.3%	\$ 0.420
HOE LEONG CORPORATION LTD	Trading Companies & Distributo	15.8	\$ 16,189,699	0.0%	\$ 0.028
MEGACHEM LTD	Trading Companies & Distributo	14.5	\$ 51,987,000	2.6%	\$ 0.390
KEPPEL DC REIT	Real Estate Investment Trusts	14.1	\$ 975,842,560	11.3%	\$ 1.185
CHUAN HUP HOLDINGS LTD	Electronic Equip., Instruments	13.9	\$ 251,108,768	-1.8%	\$ 0.270
ADVANCED INTEGRATED MANUFACT	Electronic Equip., Instruments	13.8	\$ 30,420,874	-17.4%	\$ 0.190
MTQ CORP LTD	Energy Equipment & Services	12.5	\$ 77,186,552	-2.0%	\$ 0.490
CITY DEVELOPMENTS LTD	Real Estate Management & Devel	12.4	\$ 7,438,085,120	2.9%	\$ 8.550
KODA LTD	Household Durables	9.7	\$ 13,090,769	-10.4%	\$ 0.430
CHINA HAIDA LTD	Building Products	9.6	\$ 3,568,329	28.6%	\$ 0.018
BLUE SKY POWER HOLDINGS LTD	Commercial Services & Supplies	8.9	\$ 846,820,544	0.0%	\$ 0.100
AZEUS SYSTEMS HOLDINGS LTD	IT Services	8.3	\$ 15,000,000	-9.0%	\$ 0.455
COMBINE WILL INTERNATIONAL H	Leisure Products	7.2	\$ 17,780,070	2.7%	\$ 0.565
ANNAIK LTD	Metals & Mining	6.7	\$ 16,183,245	0.0%	\$ 0.080
YANGZIJIANG SHIPBUILDING	Machinery	6.6	\$ 3,372,227,840	2.3%	\$ 0.895
SP CORP LTD	Trading Companies & Distributo	6.2	\$ 14,390,652	14.6%	\$ 0.470
LIONGOLD CORP LTD	Metals & Mining	5.7	\$ 5,171,639	-50.0%	\$ 0.001
JARDINE MATHESON HLDGS LTD	Industrial Conglomerates	5.6	\$ 40,175,452,160	6.5%	\$ 57.840



## **Brexit Aftermath: Highlights of Forecasts Changes**

- GBP/USD to stay volatile and vulnerable: 1.28 by end-3Q16 and then to 1.24 by end-2016
- Negative effect on EUR/USD: 1.07 end-2016
- One US Fed rate hike, Dec 2016
- Risk aversion and Fed rate expectations to support USD/Asians,
   minor tweaks higher to USD/SGD, USD/MYR, and USD/CNY



## **Budget 2015**

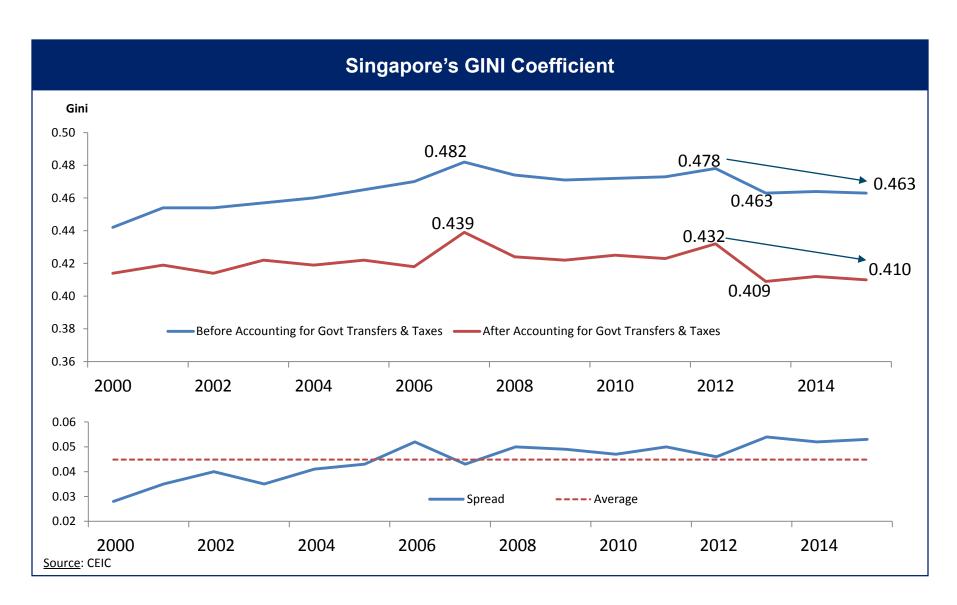


# Building Our Future, Strengthening Social Security

		Budget 2015	Pages	Number	
<u>_</u>		Building our Future, Strengthening Social Security	6 to 19	14	
<u>C</u> :	$\dashv$	Assurance in Retirement	46 to 56	11	<b>37</b>
Social		Supporting Families, Strengthening Community	59 to 70	12	(63%)
>					
conomy		Investing in Innovation & Internationalisation	32 to 43	12	22
on		Developing our People	21 to 30	10	(37%)



## Improvement in Income Inequality





**Budget 2016** 



## **Partnering for the Future**

39 to 44

6

7	5
7	5
U	

# Economy

Budget 2016	Pages	Number					
Building a Caring & Resilient Society	47 to 65	19					
		(34%)					
Transforming our Economy through Enterprise & Innovation							
Growing Singapore Together	11 to 16	6					
Addressing Near-Term Concerns	17 to 21	5					
Industry Transformation Programme	22 to 25	4					
- Enterprise	25 to 29	5					
- Industries	29 to 32	4					
- Innovation	33 to 39	7					

**37** (66%)

**Supporting Our People** 



**Budget 2016** 



_	Budget 2016	Pages	Number	
Socia	Building a Caring & Resilient Society	47 to 65	<b>19</b> (34%)	
	Transforming our Economy through En		ovation	
Short-Term	Addressing Near-Term Concerns	17 to 21	5	(16%)
0	Industry Transformation Programme	22 to 25	4	
2	- Enterprise	25 to 29	5	
Long-Term	- Industries	29 to 32	4	<b>21</b>
_	- Innovation	33 to 39	7	(84%)
	Supporting Our People	39 to 44	6	







cpf<sub>students</sub> families
subsidies lower
wagehealthcare
enhanced
second lastbillion credit
budget growth school
higher systemrate help skills skillsfuture provide manyadditional singaporean incomes government middle future singaporeans income life retirementeducationnext scheme based increaseinnovation singapore development productivity employers tax workers companiesquality learning social introduced training silver further receive million benefit smesrates cost costs aged

silver billion sector skills cash children projects million wage caring sectors community continue help develop programme scheme economic singaporeans measures seniors governmentbuildtransformation economy innovation industry development tax singapore society receive together total workers provide budget challenges fundbusinesses transformproductivity firms business social many growth income efforts smes three future

Source: MOF, UOB Data Management Office



## Words That Appeared Less Frequently

## Words That Appeared More Frequently

Words	2016	2015	2016-2015
income/incomes	25	123	
singaporean/(s)	28	99	
cpf	11	58	
tax	32	68	
retirement	5	33	
education	18	36	
subsidies/training	25	60	
students	6	23	
costs	3	20	
skillsfuture	14	30	
learning	10	26	
contribution	1	17	-16

Words	2016	2015	2016-2015
industry(ies)/sectors	99	42	57
transformation/transform	58	7	51
Business/enterprise(s)	59	20	39
firms	44	10	34
seniors	44	12	32
innovation	56	29	27
singapore	53	26	27
caring	22	2	20
challenges	21	1	20
economy	32	14	18
partnership	18	2	16
society	24	10	14
efforts	20	6	14
food	17	3	14
projects	20	7	13
trade	17	4	13
opportunities	15	3	12
technology	15	3	12
national	19	8	11
manufacturing	17	6	11
create	15	4	11

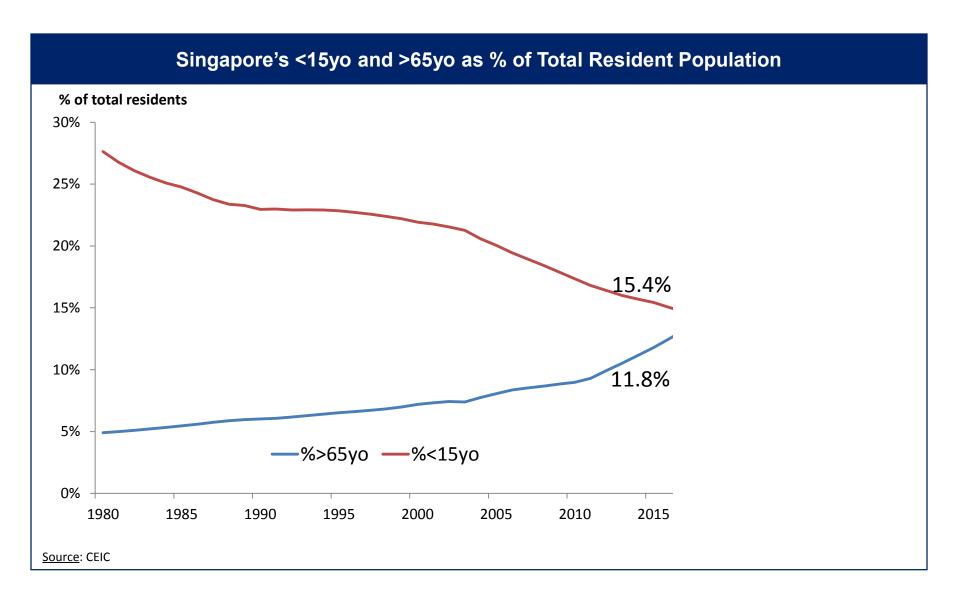
Source: MOF, UOB Data Management Office



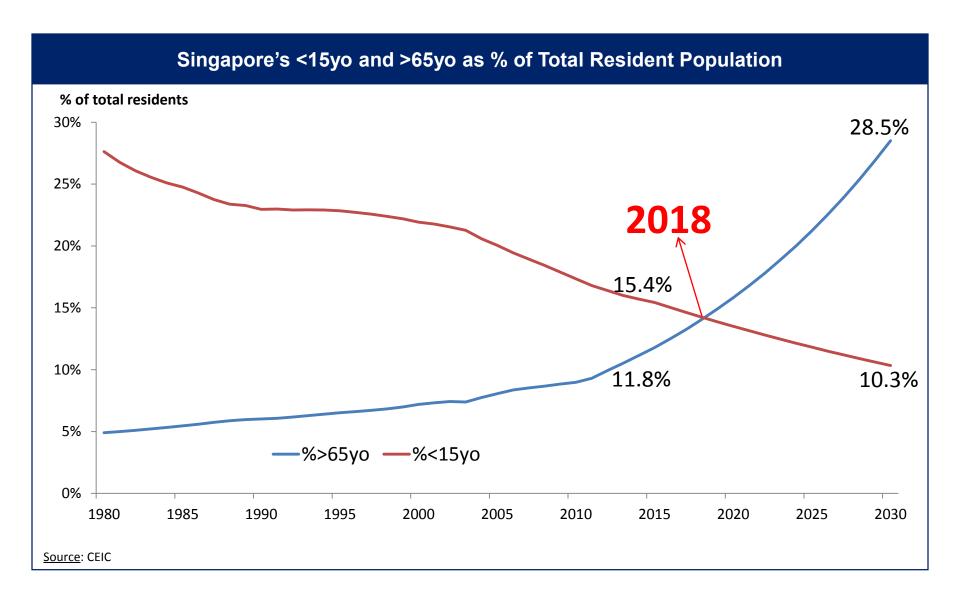






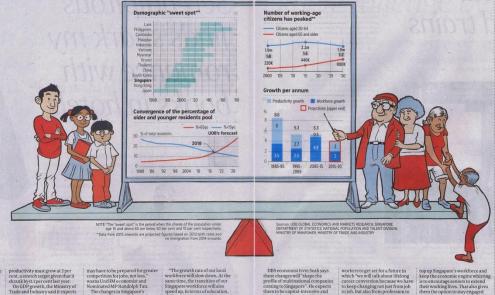








# The big shift from young to ageing workforce



The economic growth that once seemed easy won't occur unless productivity boots up

Fast Forward series

With Singapore firmly focused on the Future Economy, The Straits Times' series, Past For-ward: Disruption and the Sin-gapore Economy, helps you make sense of the big shifts that will shake up entire sec-tors, reshape jobs and change lives. Every Saturday for 12 weeks the paner's fournalist weeks the paner's fournalist



Last year, when SG50 was the talk of the town, Singapore crossed another major milestone - one that few noticed but which has serious implications for the city state's

future economic growth.

That second milestone involved

That second milestone involved the number of working age citizens, which peaked last year and is on the way down, assuming birth rates remain at 2013 levels and there is no minigration from 2014 onwards. Immigration helps to prevent the decline. If Singapore adds on a neb basis 30,000 citizens and permanent residents each year from 2005, the resident labour force will envolve 10 net cent force will grow by 10 per cent

between last year and 2050 Still, there is no getting around the ageing of the citizen workforce as the baby-boomer generation moves into retirement age because the new cohorts joining the workforce are far smaller in size. That means more Singaporean workers will leave the workforce than join it. The trend is not unusual. As

ountries develop, birth rates fall a the share of women working rises. cople marry later and desire paller families.

lives. Every Saturday for 12 weeks, the paper's journalists will examine a disruptive force, its likely impact on the economy and how soon that will be felt: from robotics, 3D printing and smart buildings to dire demographic trends, the global skills revolution and the Asean growth story. Next week, find out more about the big shifts in what, where, when and how people learn. smailer families.
Population growth eventually stagnates and can decline.
But that demographic transition is taking place particularly fast here. "We have less time to adapt to the situation than some other countries have had," says SIM University (UniSIM) economist

Walter Theseira.

In just six years' time, Singapore is expected to move out of its demographic "sweet spot"—the period when the shares of the pulation below age 15 and above 65 are below 30 per cent and 15 per cent respectively – according to UOB economist Francis Tan. UOIs economist reacts the "Generally, countries during this 'sweet' period will experience high GDP growth because a large percentage of their resident population is of working age," he

can no longer be taken for granted. That's because the nation's labour force growth – one of the two main drivers of economic growth – is slowing to a crawl.

So intent is Manpower Minister Lim Swee Say on explaining the challenge, he has come up with a eries of simple equations to get it icross. The first is 4+0=4, that is, across. The first is 4+0 = 4, final is, workforce growth of a per cent plus productivity growth of zero equals 4 per cent GDP growth. That held for the years 2011 to 2014, when the workforce grew by 4 per cent a year on average. But by 2020, that will slow to 1 per cent a year if measures to moderate the inflow of foreign manpower remain in place. Unless n productivity growth, that will lead to a near-stagnant economy as

"I plus zero equals 1", Mr Lim said during the debate on his ministry's budget in April this year. To achieve what Mr Lim considers a good outcome of 3 per cent economic growth,

productivity must grow at 2 per cent, a stretch target given that it shrank by 0.1 per cent last year. On GDP growth, the Ministry of Trade and Industry said it expects

GDP growth of 2 to 4 per cent per year for the rest of the decade. "GDP growth will increasingly be driven by productivity growth as workforce growth slows, especially towards the end of the decade. However, there is greater likelihood of growth averaging towards the lower end of the 2 to per cent range, in view of the downside risks posed by the

"If external demand condition main uncertain and sluggish, for workers may each be adversely affected. Under such circumstance

Already, employers worry that if birth rates and immigration do not rise, the tight labour market will only get tighter. "Employers may not be able to meet their manpower demands with residents... Dottmild impacting by demands with resolents...
potentially impacting business
growth, "says Singapore National
Employers Federation executive
director Koh Juan Kiat.
While an oversupply of jobs may
sound like good news for job
hunters, the labour shortfall could

put off multinational companies and cause them to turn to other countries in the region with a re supply of younger and cheaper

If firms move out and there is an outflow of both jobs and investments, job seekers will take longer to find jobs because positions redundant. "With sle growth, the average Singa

may have to be prepared for greate competition for jobs, not less," warns UniSIM economist and Nominated MP Randolph Tan. The changes in Singapore's demographic composition and education profile are driving a r structural shift in the economy. that this shift is taking place even as the economy comes up against rapid technological change and technological change and globalisation that it needs to adapt to in order to remain competitive, a Manpower Minister Mr Lim observed in an interview with The

"The growth rate of our local workforce will slow down. At the same time, the transition of our Singapore workforce will also speed up, in terms of education, skills, expectations, and aspiration... At the same time, on the economy side, we have to force the pace of transition so that we can remain competitive, and then thirdly, to keep the two in sync to

these changes will "shape the profile of multinational companies coming to Singapore". He expects them to be capital-intensive and low in labour intensity, like those it

the pharmaceutical cluster.
At the same time, jobs which have tended to be filled by older workers important skill? It's to make o workers reskillable," he says. WORK LIVES LENGTHEN as taxi-driving, could also become obsolete in a few decades when driverless vehicles hit the roads. So it is crucial that workers are prepared to move through differen

professions and pick up new skills. The Manpower Minister wants

The scale of this demographic disruption and its implications for people's work lives and retiremen dreams is best reflectd in the ofter heated and emotional debates on

profession". "So what's the mos

etirement age and incomes. One important and smart way to

> right) started his job as gardener at wholesale florist Ji Mei Flower two years rather than just as add-ons becaus younger workers are hard to com by in a tight labour market. "Older folks are an asset. They ago. He is one of five employees have wisdom, experience and they also learn on the job. We have to also tearn on the job. We have to make this (integrating older workers) part and parcel of the workplace... We have not done it very well in Singapore so far and we have to do much better in this have to do much better in this realm," said Mr Tharman, who is Chue, 67, also Coordinating Minister for Economic and Social Policies. He was responding to a question from Ambassador-at-large Tommy clerk Saw Lay Kim, 63, and gardener Tang Weng Tak, 65.

Koh, who at age 78 still works full-time and asked the DPM if the compulsory retirement. Their exchange sparked fierce debate online, with some agreeing with Mr Tharman's statement while others worried that it would mean they

their working lives. That also gives

them the option to stay engaged and productive for longer, and salt away more savings for their retirement years – which will

lengthen as life expectancies rise. Deputy Prime Minister Tharman

Deputy Frime Minister Tharman Shammugaratnam is the latest in a string of political leaders to broach the idea of how people's and businesses' ideas about retirement need to change, radically. During a dialogue at the World Cities

etirement age, which stands at 62

employers view older workers a

Summit last week, he said the

savings.
The relevant numbers for

 Retirement age of 62, which legally protects workers from being dismissed earlier than that because of their age. It also gives employers some flexibility to re-negotiate terms of contract beyond that point.

Re-employment age which will rise from 65 to 67 next year. Employers are required by law to offer eligible workers re-employment up to this age, or re-employment up to this age, or give the workers one-off payments if they cannot be rehired. After that age, workers can keep working if the employer

 CPF payout eligibility age which is set at 65 for those born in 1954 and after. CPF members have the option to start receiving monthly payouts under the CPF Life scheme from this age. If they choose to defer the start of the payouts, the monthly sum increases for every year of deferral, up to the age of 70.

Mr Lim looks forward to the day when employers and workers, by mutual consent, will agree that there is no longer a need for either

receives no longer a need not either a statutory retirement or re-employment age. "Our immediate step now will be to raise the re-employment age to 67 by next year. Then beyond that, whether we should raise our re-employment age or we should find a new way of forging this consensus without the need for retirement age, I think it's something that the tripartite partners will work (on) together,"

he says.

Before such a consensus can be forged, misinformation about and biases against older workers need to be cleared up. With improvements in

With improvements in healthcare and education levels, older workers today are able to work in better jobs than in the past "We should not assume that they can only take on low-value,

can only take on low-value, low-impact jobs," says UniSIM's Dr Theseira. As to whether ageing itself has a negative impact on productivity, "the jury is still out", says National The jury is stitlout, says National University of Singapore's Professor Paul Cheung, "Ageing itself does not necessarily diminish the capability of the workforce," adds Singapore's former chief statistician who was also director of the United Nations Statistics Division.

There have been several academic studies on the link between age, productivity and wages using data mostly from European countries. Academic C. van Ours and Lenny Stoeldraije for example, found that the age for example, round that the age effect on the gap between productivity gains and wage costs at high ages is small, while noting that other studies found noevidence of an age-related pay-productivity gap

#### PEOPLE ADJUST

On the ground, workers and ers are already adjusting to empioyers are aiready adjusting to the realities of an ageing workforce. Mr Ng Kee Hong, 76, started a new job two years ago as a gardener at wholesale florist JJ Mei Flower on Joan Road. He is one of five employees over age 62, out of about 80 staff in total.

He wants to continue working because it would be boring staying at home all the time. "It's easier to pass the time," he says. He used to run a small business but stopped run a small business but stopped after his eyesight deteriorated and he could no longer drive. He starts work at 8am, waters plants and arranges them so they look attractive and are easy for

customers to find. After his shift

ends at Ipm, he goes home to rest in nearby Ang Mo Kio, where he lives with his wife and daughter. Asked about whether he finds the job strenuous at his age, he says: "When we like the job, it's not tiring."

Job redesign lies behind this
happy arrangement. Business
manager Mok Keng Houng explain

Mr Ng can work half-day. Supervisors at Ji Mei also have the

Such changes are becoming necessary as demographic trends that have been years in the making and the resulting labour crunch -become a reality. As Mr Mok put it, "We do not go out (of our way) to hire senior workers... Our policy is to take the best fit out of the lot on condition that the shortlisted candidate meets the job requirements." On the policy level, the

Protessional Conversion
Programmes help workers acquire
skills they need to stay relevant and
move into growth industries.
At the national level, longer-term
change is being driven by the
SkillsFuture movement and the Industry Transformation

Programme. The first equips workers with the right skills for the industries and jobs here. The second is to help firms and industries compete and innovate The other big factor to consider is

electoral support. electoral support.
Some observers believe the
overall ratio of two local workers to
one foreigner, which the
Government has been maintaining,
will need to be relooked as resident
labour force growth slows. The

labour force growth slows. The time may come when more foreigners are needed to fill jobs which Singaporeans do not take But exactly what number is needed will have to be carefully calibrated, and balanced with cationated, and balanced with efforts to ensure locals are not discriminated against. As Prof Cheung says: "It's important for the Government to be aware of the grievances and tension in the

Singapore is still fairly new to the Singapore is still fairly new to the ageing scene compared with developed economies, like Japan and Germany, which are further along the road. "We are into this whole new experiment, and there are lots of possibilities," says Prof Cheuing. The difference, says DBS Mr Seah, is that "we're small". "We cannot afford to live like a big country. We need to be nimble; to adant." For now, Manpower Minister Mr

helping the economy and worker are for the coming changes "Those who are able to adapt and find a solution, in fact, will be able to find a way out ahead of the others," he says, using the Chinese idiom "xian bian xian tong" to illustrate hi point. "And we have our way out. It" by transforming our industry, by transforming our workforce and by keeping the two in sync."

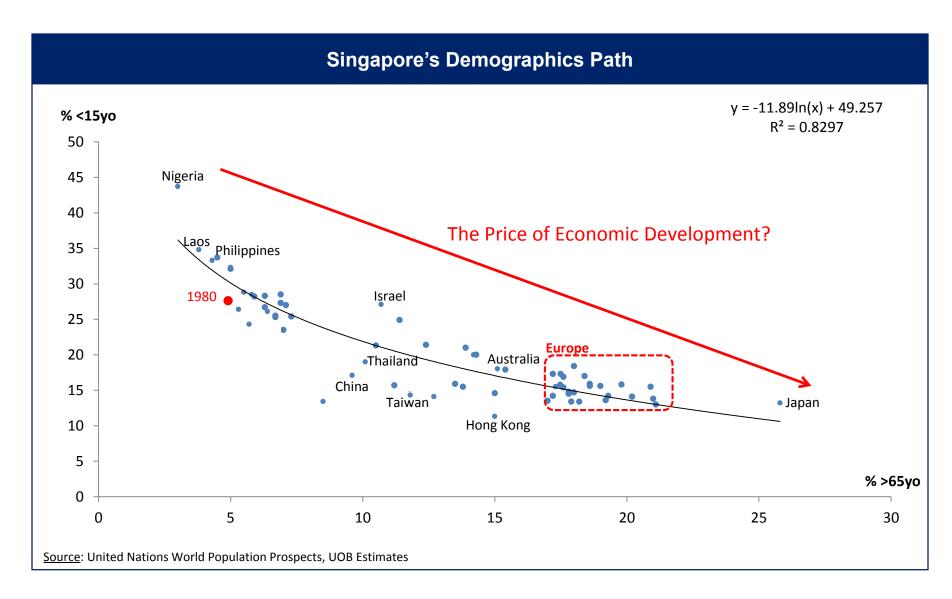
ioseow@sph.com.sq

KEY RETIREMENT NUMBERS

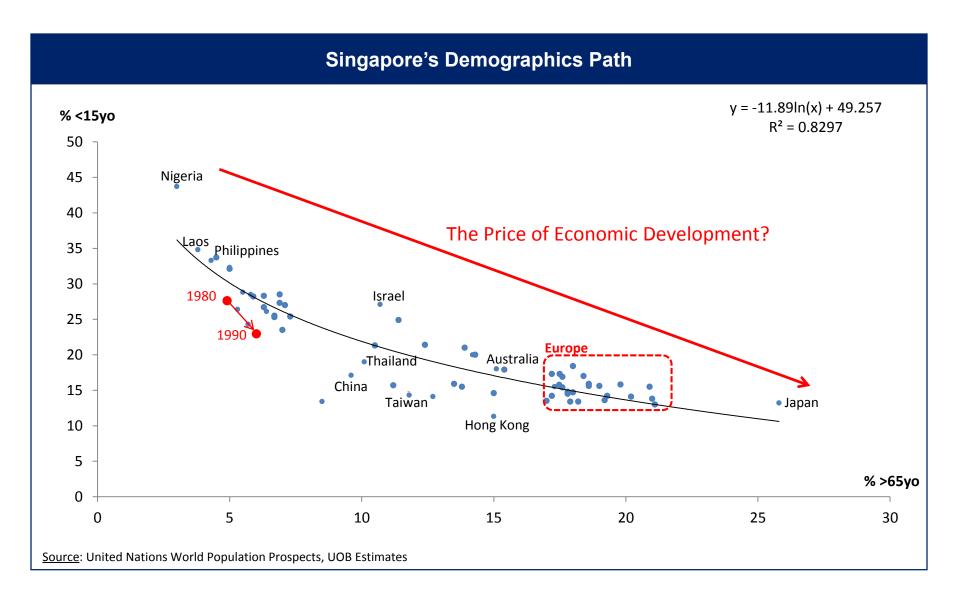
dismissed earlier than that

for those born in 1954 and afte

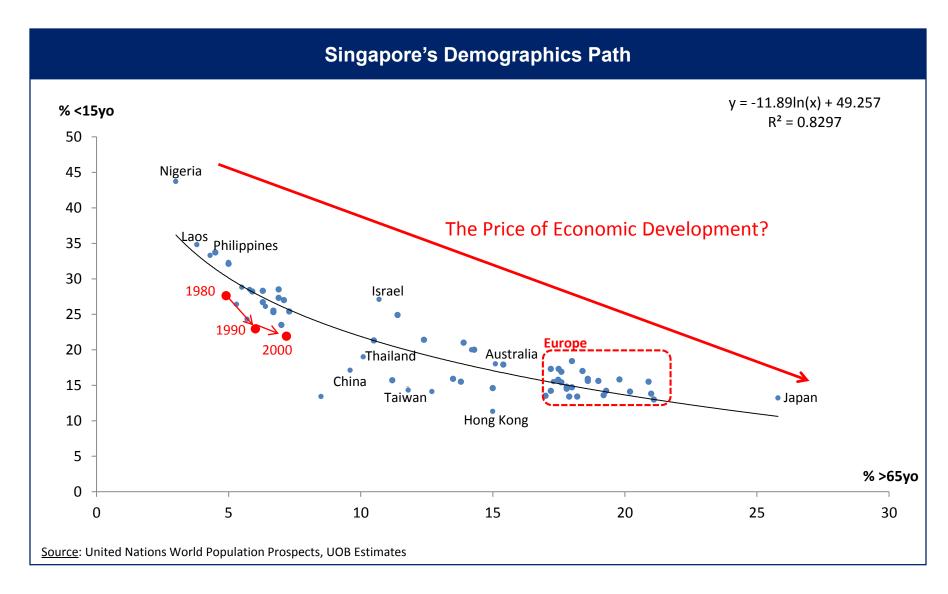




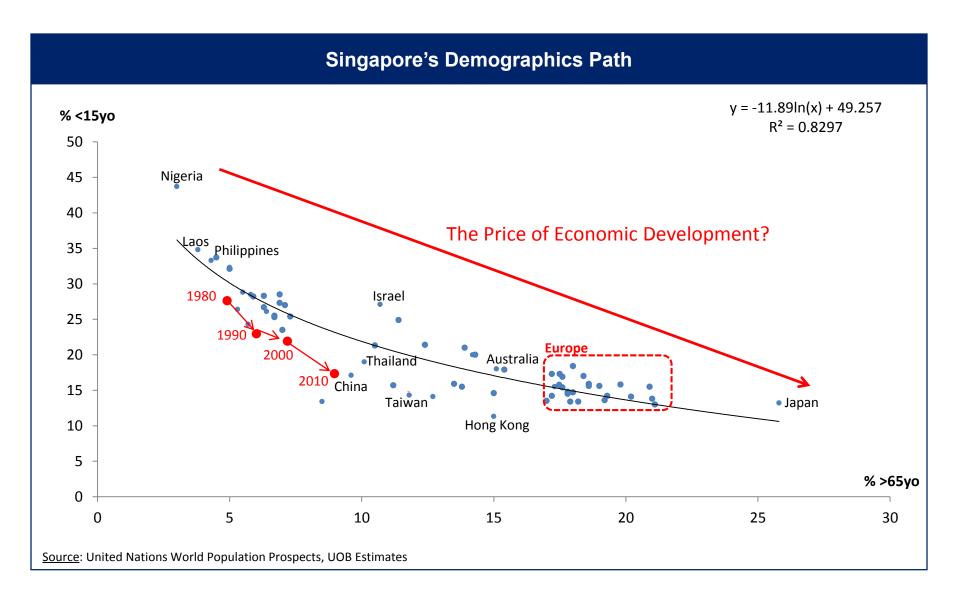




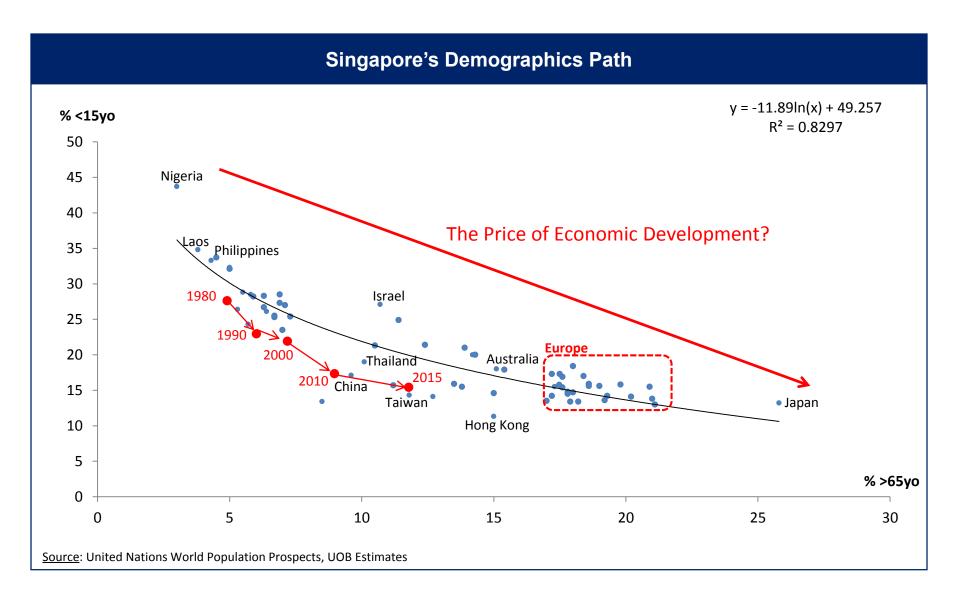




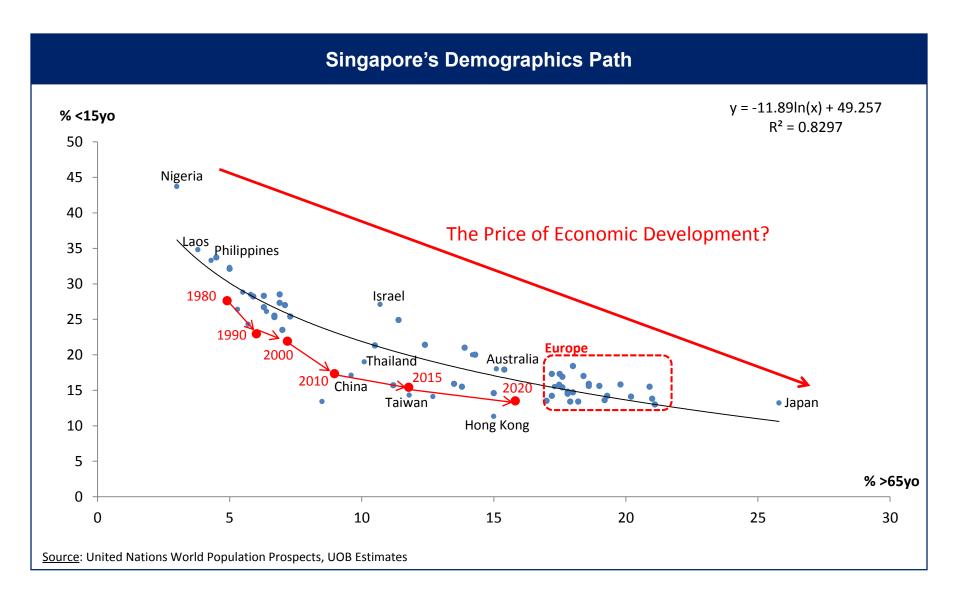




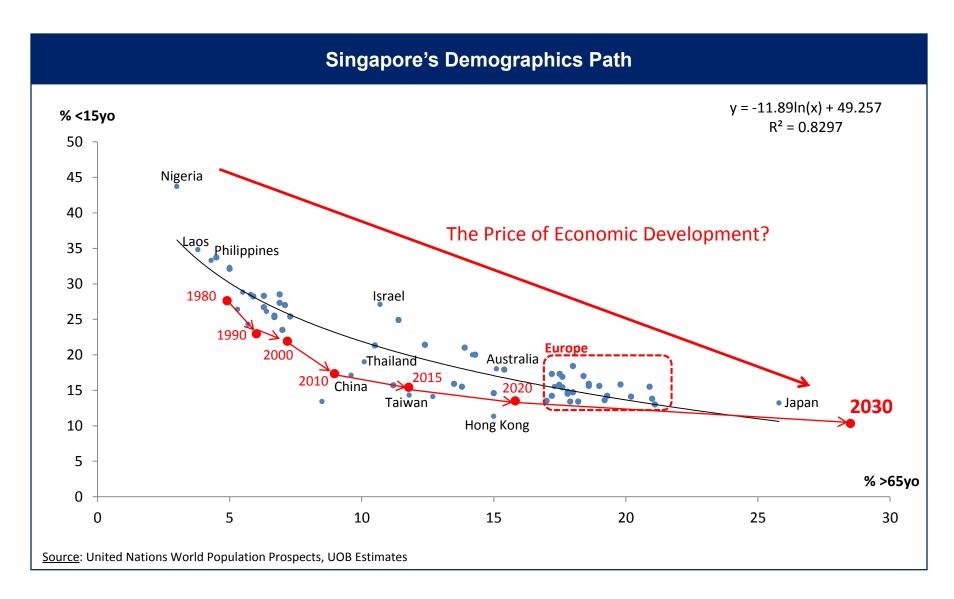








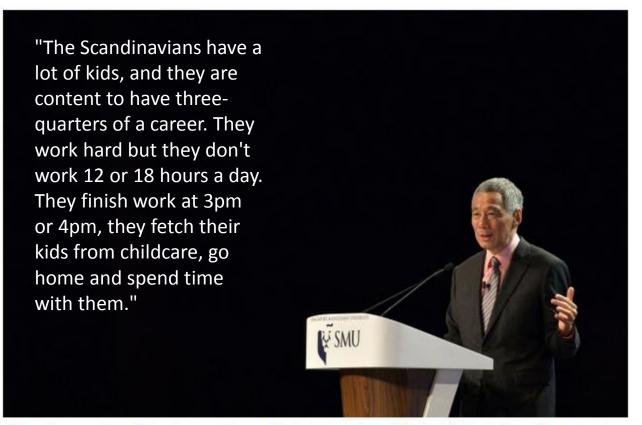






## THE BUSINESS TIMES

## "S'pore unlikely to go Scandinavian way to up fertility rate"



When it comes to rolling out generous goodies to try and boost the fertility rate here, Singapore is unlikely to go the way of the Scandinavian countries that have spent heavily over the years and succeeded in having more babies.

"that it was possible only if the country was willing to accept a higher goods and services tax of 20 per cent to fund the policies."

Source: The Business Times, 2<sup>nd</sup> Jul 2015



### **Question & Answer Session**

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#### **About The Speaker**

Francis is an economist with United Overseas Bank's Global Economics & Markets Research team and covers macroeconomic research on Asia. He provides regular economics commentary on TV and is frequently quoted in the media. Before joining UOB in 2012, Francis was an investment strategist at Phillip Capital where he used macroeconomics, business cycle theories, market timing and technical analyses to develop a systematic top-down investment approach for discretionary portfolios. Prior to that, Francis served as an Investment Manager in the wealth management arm of the Royal Bank of Scotland. His career also included stints as an economist at the Ministry of Trade and Industry and the Singapore Tourism Board, where he specialised in Tourism Economics.

Francis obtained the Bachelor of Social Science (Honours) in Economics in 2002 and the Master of Social Science in Applied Economics in 2003 from the National University of Singapore. Continuing his academic interests in the field of applied economics, Francis most recently contributed a chapter titled "Tourism Demand in Singapore: Estimating Neighbourhood Effects" in the Handbook of Tourism Economics published in 2013, and had just published a paper titled "Growth and Environmental Quality in Singapore: Is There Any Trade-off?" in the "Ecological Indicators" journal in 2014.