

Good MornING Asia - 3 December 2018

After a constant battering by China-US trade tensions for most of this year, the weekend developments come as a significant relief for the markets. How long the trade truce will last remains a question though

In this bundle



China

China: Rough seas in 2019

The Chinese economy is set to slow down in 2019. The most likely scenario is an escalation of the US-China trade conflict, hurting exporters,...



China

China: PMI disappoints but stimulus is coming

Though both official manufacturing and non-manufacturing PMIs are worse than expected, we believe that stimulus is on the way as local governments have...



Japan

Japan: Ready to bounce back

Economic growth in Japan contracted in the third quarter, hit by extensive damage from typhoon Jebi. But the doors are now open for a fourth-quarter...



South Korea

Korea: The central bank hikes policy rate by 25bp

Today's rate hike resets the Bank of Korea's policy for yet another long pause, possibly throughout 2019. We are reviewing our forecast of one...

China: Rough seas in 2019

The Chinese economy is set to slow down in 2019. The most likely scenario is an escalation of the US-China trade conflict, hurting exporters, manufacturing and logistics services. Pressure from trade and investment partners will also intensify



Escalation of the trade dispute is the key risk to China in 2019

2019 will be a difficult year for China in terms of economic growth and the increasingly tricky political relationships with its trading partners.

An escalation in trade tensions is the key risk to China in 2019 – and this seems like the most probable scenario. This will hurt exporters, manufacturing and logistics services, therefore slowing economic growth directly.

Indirectly, the bilateral trade conflict between China and the US has resulted in multilateral trade and investment disputes. This is exacerbated by international voices blaming the Belt and Road Initiative as a debt pile-up exercise for poorer economies. It has become more difficult to maintain existing relationships with trade and investment partners. The recent APEC meeting showed these economies having difficulties positioning themselves between China and the US.

Sizeable fiscal stimulus and looser monetary policy will see only a moderate slowdown next year

Having said that, we are not too worried about the economic growth rate. We expect GDP growth

to slow to 6.3% in 2019 from 6.6% in 2018.

This moderate slowdown in growth reflects our projection of fiscal stimulus worth between CNY 9-10 trillion from late 2018 to 2020, averaging about CNY 4 trillion each year. The size of this stimulus is comparable with that of 2009-2011's CNY 4 trillion, taking into account that nominal GDP has grown by 2.3 times between 2009 and 2018 to CNY88.6 trillion (rolling four quarters to 3Q18).

Manufacturing PMI approaching 50 and below



Source: Bloomberg, ING

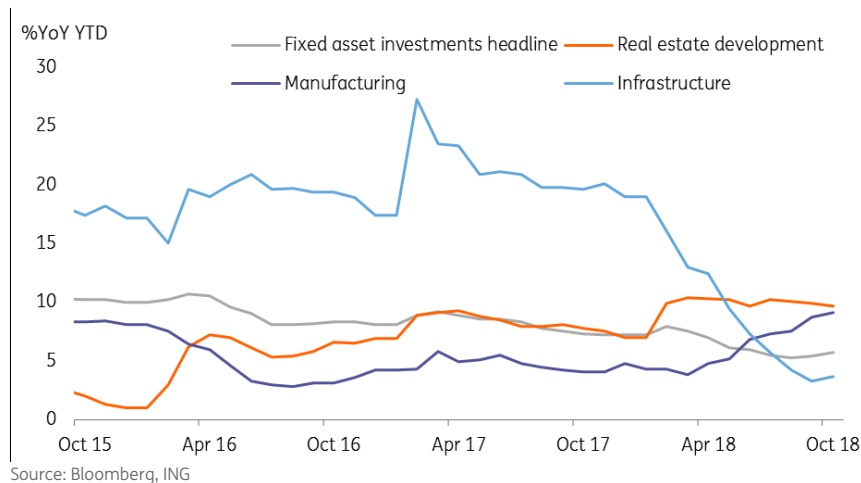
GDP won't rise proportionally to the fiscal money spent

This fiscal boost will take the form of tax cuts (salary tax cuts and more export tax rebates), creation of capital pools for advanced technology R&D, the creation of liquidity pools for small private companies, and infrastructure projects. We'd emphasise that fiscal spending on infrastructure projects may not reflect the same scale of increase in fixed-asset investments. This is because some of the money will be used for repayment of debt from local government financial vehicles (LGFVs) that finance infrastructure investments. Put simply, fiscal money spent will not result in a proportional increase in GDP. This also reflects the fact that the debt problem in China has yet to be solved.

Moderately loose monetary policy to support small private firms

We expect monetary policy to provide support to the economy, mainly to small private firms. Liquidity injections via cuts in the reserve requirement ratio (RRR) are necessary to keep private firms running. Again, some of this money will be used for debt repayments. To lower the interest burden when risk premiums should be rising, we expect the central bank (PBoC) to also cut its seven-day reverse repo policy rate twice (in [1Q19](#) and [3Q19](#)).

Infrastructure investments have increased in Oct18



Housing market restrictions will be relaxed to support growth

Restrictions on the housing market could be relaxed, as the government won't want another drag on the economy during the ongoing trade dispute, and the housing market could support construction activity.

USD/CNH crossing the 7.0 handle is a high probability scenario

We forecast the USD/CNY and USD/CNH will reach 7.30 by the end of 2019 from 7.00 by the end of 2018, as the trade conflict escalates.

Unlikely scenario: Resolution to trade conflict, what would happen?

In the unlikely event that China and the US agree to withdraw tariffs altogether, the Chinese government would focus again on reducing the economy's debt pile. This could prove just as difficult as facing a trade war. The deleveraging reform has been shelved since the middle of 2018 because the government has had to focus on combating the trade dispute. Within these few months, debt has piled up quickly within local governments, and LGFVs have made a comeback. It would take another few years (just like 2016 to mid-2018) to reduce debts of LGFVs, not to mention state-owned and privately-owned enterprises that receive liquidity for survival. In this scenario, GDP growth would be around 6.5%, depending on how fast the government wants to clean up debts. If the trade conflict were to end, the yuan would likely appreciate against the dollar to 6.50 by the end of 2019.

Author

Iris Pang

Chief Economist, Greater China

iris.pang@asia.ing.com

China: PMI disappoints but stimulus is coming

Though both official manufacturing and non-manufacturing PMIs are worse than expected, we believe that stimulus is on the way as local governments have raised funds to finance infrastructure projects

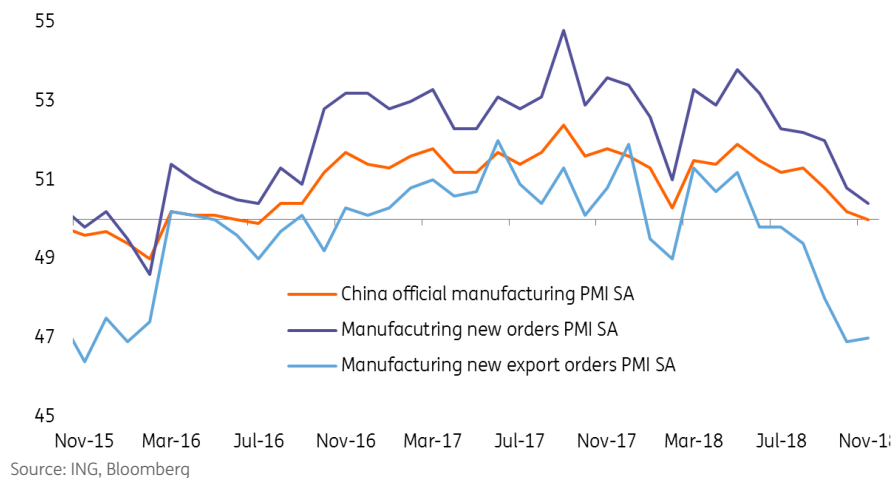


Source: Shutterstock

Manufacturing PMI at the brink of 50

Manufacturing activities did not grow in November despite local governments having raised funds for infrastructure projects. New orders grew slower to 50.4 in the month, down from 50.8 a month ago. New export orders were still gloomy at 47 but edged up from 46.9. It shows that stimulus on infrastructure projects has come in later than expected.

Slower new orders show stimulus was slow to get into the economy



But stimulus from local governments should arrive soon

The come back of local government financial vehicles should mean that stimulus via infrastructure projects is on the way. But it seems that some of the funds could have been used for debt repayments, and have yet to get new infrastructure projects up and running. But with the massive issuance of debt from local governments, via local government financial vehicles and local government special bonds, we expect stimulus will be more obvious in adding manufacturing activities from December.

We also expect that the government is going to cut import tariffs on more goods. This will reduce production costs in the manufacturing sector.

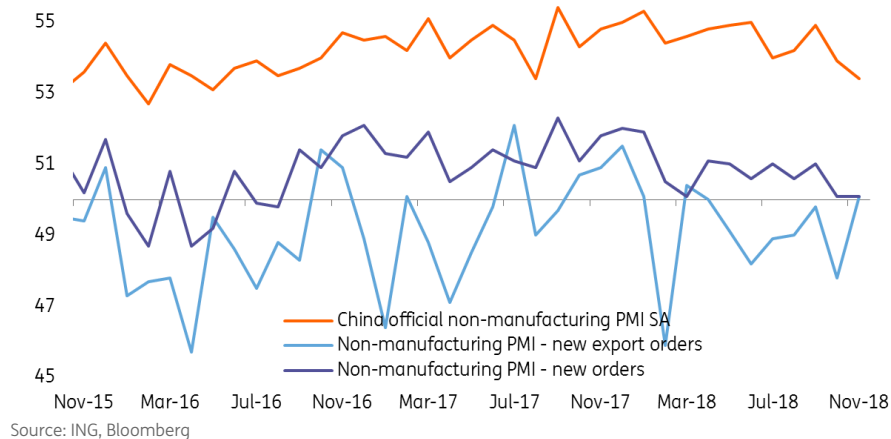
But we expect new export orders to keep contracting as long as the trade war continues, not to mention that the trade war tension could escalate after this weekend's meeting between President Xi and President Trump.

Non-manufacturing PMI shows that consumption is slowing but it should be temporary

A slowdown in non-manufacturing activities is a concern. Catering and real estate services were in contraction [according to the Statistic Bureau](#). Shrinking real estate services, a result of a fall in housing market transaction volume will continue in the coming months until more local governments relax tightening measures.

The contraction of the catering service is a surprise to us. It reflects that consumption is falling. But this could also be temporary as an expansion of activities in financial services, including insurance activities that back up loan growth, could provide a lifeline to private companies, which will secure jobs, and therefore consumption.

Non-manufacturing PMI falling steeper than expected



Overall, we are not pessimistic

As fiscal stimulus is on the way, we believe that both manufacturing and non-manufacturing activities should be steady from here. Our estimate of the size of fiscal stimulus is around CNY9-10 trillion for late 2018-2020, ie, averaging CNY4 trillion each year in 2019 and 2020.

Though some fiscal money will be used for debt repayment and loan rollovers, the rest will go into infrastructure projects, which will support manufacturing activities, even if the trade war continues to escalate.

Financial and insurance activities for lending and insurance to back up loans will support non-manufacturing activities.

As such we keep our GDP forecast at 6.3% in 2019 from 6.6% in 2018.

Author

Iris Pang

Chief Economist, Greater China

iris.pang@asia.ing.com

Japan: Ready to bounce back

Economic growth in Japan contracted in the third quarter, hit by extensive damage from typhoon Jebi. But the doors are now open for a fourth-quarter bounce back as the post-typhoon clean-up spurs economic activity



Source: Pexels

Jebi wreaks havoc on 3Q18 GDP figures

Typhoon Jebi made landfall over Shikoku and then the Kansai region of South Eastern Japan on 4 September, before tracking North West in the direction of Taiwan and Far East Russia. Jebi was estimated by one source as being the most powerful storm on the surface of the planet so far in 2018. It was the most intense tropical cyclone to hit Japan since Typhoon Yancy in 1993.

At peak intensity, Jebi was a Category 5 super Typhoon, with sustained wind speeds of 195km/h, and gusts of 280km/h.

Extensive capital losses and infrastructure damage caused a September slump

Damage from the typhoon was extensive. Flooding and winds wreaked havoc with infrastructure. Roads airports, bridges and ports were wrecked. Private residential property damage was extensive. Hundreds of cars were picked up and tossed to destruction by the winds. Not surprisingly, many businesses suffered capital losses, and many others were shut as staff were unable to reach them. Total insured losses for the economy have been estimated at between JPY340 and JPY620 billion (up to about 0.1% of GDP). But according to some estimates, uninsured

agricultural damage may have been up to ten times as large, with other uninsured losses probably of a similar magnitude.

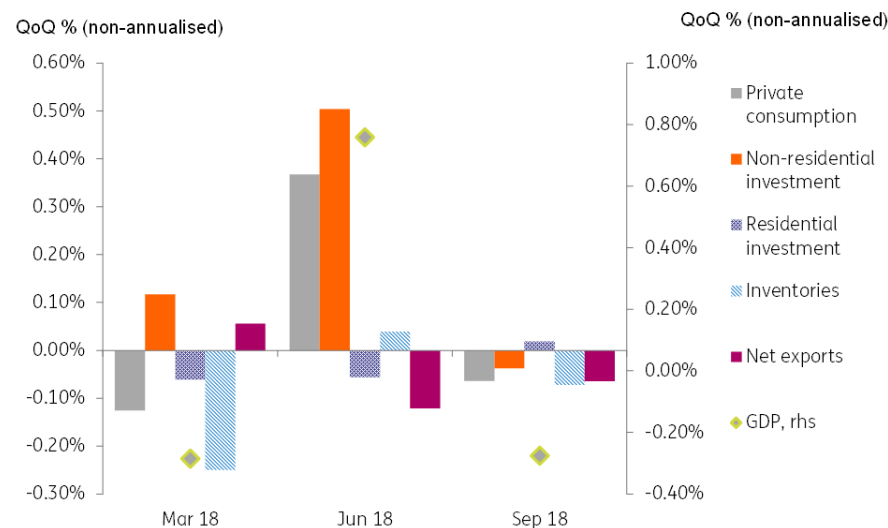
GDP contracted 0.3% QoQ in 3Q18

Our forecasts for third quarter GDP prior to Jebi had been quite strong, at about 2.2% (quarter-on-quarter annualised). Initial indications were that the economy had weathered the Typhoon well. But data released just prior to the GDP figures showed this was not the case. Private household spending dropped very sharply. Business investment was also badly hit, as were exports (though so too were imports). Nonetheless, we still thought there would be some offset in terms of an unintended inventory build as activity that should have happened didn't. The official GDP figures released suggested oddly that this did not happen – possibly inventories were damaged / lost in the Typhoon. The net result was a 0.3% quarterly GDP contraction or -1.1% QoQ in seasonally adjusted annualised terms.

But Japan will bounce back, with stronger growth in 4Q18 and 1Q19...

The common pattern with a natural disaster hitting an economy is real time economic disruption, followed in subsequent quarters by a bounce back, as clean-up spurs activity that would not ordinarily have happened, bolstered also by replacement of damaged capital and infrastructure. The net result on GDP is often (though not always, depending on the extent of infrastructure damage) positive. We imagine that this will be the case this time round too, and have nudged up our 4Q18 and 1Q19 GDP estimates, in response providing a little lift to the 2019 annual growth estimate, which now stands at a healthy 1.7%.

GDP gets wrecked by Typhoon Jebi



Source: CEIC, ING

Inflation spikes should also be limited by oil price declines

Near-term inflation in Japan could also be affected, in particular, agricultural damage should push up headline inflation rates as fresh food prices in Japan and across the Asia region spike higher. But against this, we also have to factor in the much sharper falls in oil prices that have coincided with

this event, and which will mitigate against some of this food price increase. In the very short-term, this may limit the quarterly impact on headline inflation rates. And core rates are likely to remain subdued at close to their current 0.4% year-on-year rate.

The BoJ will find it harder to make any near-term progress towards a taper

None of the above makes it easier for the Bank of Japan to further its attempt to follow the ECB and begin a taper of its own with respect to asset purchasing and bond yield targeting. 10Y JGB yields are back smack on their 0.1% target, and there is no sense that further taper progress is possible near-term. This is not helped, of course, by the macro and political difficulties being faced in the eurozone right now, which limit progress that can be made there, and which therefore deprives the BoJ of a screen for its own intentions.

Author

Amrita Naik Nimbalkar

Junior Economist, Global Macro

amrita.naik.nimbalkar@ing.com

Mateusz Sutowicz

Senior Economist, Poland

mateusz.sutowicz@ing.pl

Alissa Lefebvre

Economist

alissa.lefebvre@ing.com

Deepali Bhargava

Regional Head of Research, Asia-Pacific

Deepali.Bhargava@ing.com

Ruben Dewitte

Economist

+32495364780

ruben.dewitte@ing.com

Kinga Havasi

Economic research trainee

kinga.havasi@ing.com

Marten van Garderen

Consumer Economist, Netherlands

marten.van.garderen@ing.com

David Havrlant

Chief Economist, Czech Republic

420 770 321 486

david.havrlant@ing.com

Sander Burgers

Senior Economist, Dutch Housing

sander.burgers@ing.com

Lynn Song

Chief Economist, Greater China

lynn.song@asia.ing.com

Michiel Tukker

Senior European Rates Strategist

michiel.tukker@ing.com

Michal Rubaszek

Senior Economist, Poland

michal.rubaszek@ing.pl

This is a test author

Stefan Posea

Economist, Romania

tiberiu-stefan.posea@ing.com

Marine Leleux

Sector Strategist, Financials

marine.leleux2@ing.com

Jesse Norcross

Senior Sector Strategist, Real Estate

jesse.norcross@ing.com

Teise Stellema

Research Assistant, Energy Transition

teise.stellema@ing.com

Diederik Stadig

Sector Economist, TMT & Healthcare

diederik.stadig@ing.com

Diogo Gouveia

Sector Economist

diogo.duarte.vieira.de.gouveia@ing.com

Marine Leleux

Sector Strategist, Financials

marine.leleux2@ing.com

Ewa Manthey

Commodities Strategist

ewa.manthey@ing.com

ING Analysts

James Wilson

EM Sovereign Strategist

James.wilson@ing.com

Sophie Smith

Digital Editor

sophie.smith@ing.com

Frantisek Taborsky

EMEA FX & FI Strategist

frantisek.taborsky@ing.com

Adam Antoniak

Senior Economist, Poland

adam.antoniak@ing.pl

Min Joo Kang

Senior Economist, South Korea and Japan

min.joo.kang@asia.ing.com

Coco Zhang

ESG Research

coco.zhang@ing.com

Jan Frederik Slijkerman

Senior Sector Strategist, TMT

jan.frederik.slijkerman@ing.com

Katinka Jongkind

Senior Economist, Services and Leisure

Katinka.Jongkind@ing.com

Marina Le Blanc

Sector Strategist, Financials

Marina.Le.Blanc@ing.com

Samuel Abettan

Junior Economist

samuel.abettan@ing.com

Franziska Biehl

Senior Economist, Germany
Franziska.Marie.Biehl@ing.de

Rebecca Byrne
Senior Editor and Supervisory Analyst
rebecca.byrne@ing.com

Mirjam Bani
Sector Economist, Commercial Real Estate & Public Sector (Netherlands)
mirjam.bani@ing.com

Timothy Rahill
Credit Strategist
timothy.rahill@ing.com

Leszek Kasek
Senior Economist, Poland
leszek.kasek@ing.pl

Oleksiy Soroka, CFA
Senior High Yield Credit Strategist
oleksiy.soroka@ing.com

Antoine Bouvet
Head of European Rates Strategy
antoine.bouvet@ing.com

Jeroen van den Broek
Global Head of Sector Research
jeroen.van.den.broek@ing.com

Edse Dantuma
Senior Sector Economist, Industry and Healthcare
edse.dantuma@ing.com

Francesco Pesole
FX Strategist
francesco.pesole@ing.com

Rico Luman
Senior Sector Economist, Transport and Logistics
Rico.Luman@ing.com

Jurjen Witteveen
Sector Economist
jurjen.witteveen@ing.com

Dmitry Dolgin

Chief Economist, CIS
dmitry.dolgin@ing.de

Nicholas Mapa
Senior Economist, Philippines
nicholas.antonio.mapa@asia.ing.com

Egor Fedorov
Senior Credit Analyst
egor.fedorov@ing.com

Sebastian Franke
Consumer Economist
sebastian.franke@ing.de

Gerben Hieminga
Senior Sector Economist, Energy
gerben.hieminga@ing.com

Nadège Tillier
Head of Corporates Sector Strategy
nadege.tillier@ing.com

Charlotte de Montpellier
Senior Economist, France and Switzerland
charlotte.de.montpellier@ing.com

Laura Straeter
Behavioural Scientist
+31(0)611172684
laura.Straeter@ing.com

Valentin Tataru
Chief Economist, Romania
valentin.tataru@ing.com

James Smith
Developed Markets Economist, UK
james.smith@ing.com

Suvi Platerink Kosonen
Senior Sector Strategist, Financials
suvi.platerink-kosonen@ing.com

Thijs Geijer
Senior Sector Economist, Food & Agri
thijs.geijer@ing.com

Maurice van Sante

Senior Economist Construction & Team Lead Sectors

maurice.van.sante@ing.com

Marcel Klok

Senior Economist, Netherlands

marcel.klok@ing.com

Piotr Poplawski

Senior Economist, Poland

piotr.poplawski@ing.pl

Paolo Pizzoli

Senior Economist, Italy, Greece

paolo.pizzoli@ing.com

Marieke Blom

Chief Economist and Global Head of Research

marieke.blom@ing.com

Raoul Leering

Senior Macro Economist

raoul.leering@ing.com

Maarten Leen

Head of Global IFRS9 ME Scenarios

maarten.leen@ing.com

Maureen Schuller

Head of Financials Sector Strategy

Maureen.Schuller@ing.com

Warren Patterson

Head of Commodities Strategy

Warren.Patterson@asia.ing.com

Rafal Benecki

Chief Economist, Poland

rafal.benecki@ing.pl

Philippe Ledent

Senior Economist, Belgium, Luxembourg

philippe.ledent@ing.com

Peter Virovacz

Senior Economist, Hungary

peter.virovacz@ing.com

Inga Fechner

Senior Economist, Germany, Global Trade

inga.fechner@ing.de

Dimitry Fleming

Senior Data Analyst, Netherlands

Dimitry.Fleming@ing.com

Ciprian Dascalu

Chief Economist, Romania

+40 31 406 8990

ciprian.dascalu@ing.com

Muhammet Mercan

Chief Economist, Turkey

muhammet.mercan@ingbank.com.tr

Iris Pang

Chief Economist, Greater China

iris.pang@asia.ing.com

Sophie Freeman

Writer, Group Research

+44 20 7767 6209

Sophie.Freeman@uk.ing.com

Padhraic Garvey, CFA

Regional Head of Research, Americas

padhraic.garvey@ing.com

James Knightley

Chief International Economist, US

james.knightley@ing.com

Tim Condon

Asia Chief Economist

+65 6232-6020

Martin van Vliet

Senior Interest Rate Strategist

+31 20 563 8801

martin.van.vliet@ing.com

Karol Pogorzelski

Senior Economist, Poland

Karol.Pogorzelski@ing.pl

Carsten Brzeski

Global Head of Macro
carsten.brzeski@ing.de

Viraj Patel
Foreign Exchange Strategist
+44 20 7767 6405
viraj.patel@ing.com

Owen Thomas
Global Head of Editorial Content
+44 (0) 207 767 5331
owen.thomas@ing.com

Bert Colijn
Chief Economist, Netherlands
bert.colijn@ing.com

Peter Vanden Houte
Chief Economist, Belgium, Luxembourg, Eurozone
peter.vandenhoute@ing.com

Benjamin Schroeder
Senior Rates Strategist
benjamin.schroeder@ing.com

Chris Turner
Global Head of Markets and Regional Head of Research for UK & CEE
chris.turner@ing.com

Gustavo Rangel
Chief Economist, LATAM
+1 646 424 6464
gustavo.rangel@ing.com

Carlo Cocuzzo
Economist, Digital Finance
+44 20 7767 5306
carlo.cocuzzo@ing.com

Korea: The central bank hikes policy rate by 25bp

Today's rate hike resets the Bank of Korea's policy for yet another long pause, possibly throughout 2019. We are reviewing our forecast of one 25bp hike in the third quarter of 2019



Source: Shutterstock

The Bank of Korea is caught between a weak currency and weak growth

1.75%

As expected

The BoK policy rate

Up by 25bp today

A 25bp BoK policy rate hike

The Bank of Korea's Monetary Policy Board voted to increase the Base Rate by 25 basis points (bp) to 1.75% at their meeting today. The rate hike doesn't come as any reprieve to the Korean Won (KRW) from its recent underperformance vis-à-vis Asian currencies. Despite the rate hike, the USD/KRW spiked above 1123 in early trading today, though as of this writing the pair had retraced to Thursday's closing level of 1119.4.

The worsening export prospects as signalled by the recent rout in global technology shares will likely cap the upside for the currency while the rate hike won't be conducive for growth when inflation remains well-anchored around the BoK's 2% comfort level and is likely to track the global oil price lower. That said, the risk to our view of the USD/KRW spiking to the 1150 level in the near term remains skewed to the downside.

Not a unanimous decision

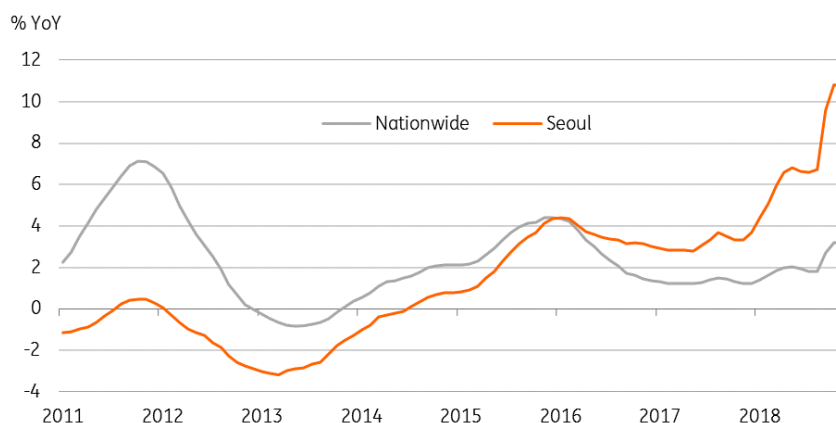
The rate hike, coming after a year-long pause, was widely expected, though we were sceptical of such a policy move just yet on grounds of anaemic growth and low inflation. These trends are likely to persist through 2019 amid intensified global trade tensions and lower oil prices. And indeed the decision wasn't unanimous by all BoK policy board members; two out of seven board members favoured no change to the policy rate.

It appears that financial stability, rather than the current growth-inflation dynamic, was the paramount factor behind today's policy move. Maybe gaining some policy space to increase accommodation in the event of a significant slippage in growth in the future was another factor.

The financial stability concern arose from the widening rate gap with the US as the Fed continues on the policy tightening path with another rate hike expected in December, albeit recent Fed signals of a more flexible approach towards the policy in 2019. This partly explains the recent underperformance of the Korean Won (KRW) vis-à-vis Asian currencies despite a persistently large external trade surplus.

And on the domestic front, the authorities have repeatedly voiced their concerns about high household debt and property overheating in cities as being potentially destabilizing.

Korea: Kookmin Bank home price index



Source: CEIC, ING

Was the rate hike warranted?

The BoK sees growth around the mid-to-upper 2% range and inflation around the mid-to-upper 1% range. On growth, the policy statement noted that "...domestic economic growth to be generally

consistent with the path projected in October, and to sustain a rate that does not diverge significantly from its potential level”.

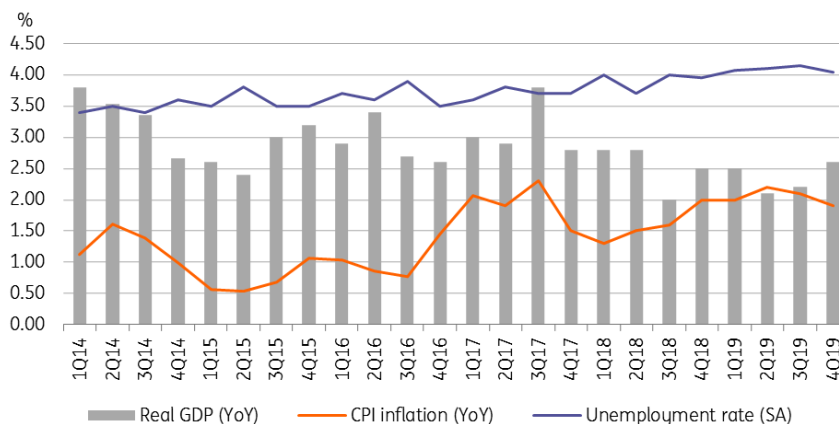
While the BoK’s forecast ranges for growth and inflation appear reasonable for now, the risk continues on the downside.

We consider the BoK’s growth forecast for the outer years, in this case, 2.7% forecast for 2019 as in the central bank’s quarterly Economic Outlook report published in October, as its estimate of potential growth. Judging by this, the 2% growth print for the third quarter of this year was a far cry, and it had taken the steam out of the rate hike argument. Moreover, growth has been stuck under 3% since 4Q17 and it will take a significant acceleration to at least 3.2% in the final quarter of this year to meet the full-year 2018 forecast of 2.7%. As things stand currently, this looks difficult to us.

At the post-policy press conference, Governor Lee Ju-yeol downplayed risks about a sharp downturn in the chip (semiconductor) sector. Korean electronics exports have outperformed their Asian counterparts (Taiwan, Singapore) this year. However, the recent rout in global technology stocks is a sign of something more than mere moderation in the global electronics cycle on the horizon. If so, the prospects of Korean electronics exports maintaining their current strength into 2019 looks dim.

And on inflation, we believe it’s close to the peak and expect it to retrace alongside the lower oil price.

Korea: growth, inflation, and unemployment



Source: Bloomberg, CEIC, ING
ING forecasts from 4Q18 to 4Q19

One and done - a start of another long policy pause

We believe today’s rate hike resets the BoK policy for yet another long pause. Governor Lee said that the policy was still accommodative and the policy rate still below its neutral level. However, his remarks about dissenting votes as pointing to high economic uncertainty indicate a persistent headwind for the policy rate to reach the neutral level anytime soon.

We are reviewing our forecast of one 25bp hike in the third quarter of 2019.

Author

Amrita Naik Nimbalkar

Junior Economist, Global Macro
amrita.naik.nimbalkar@ing.com

Mateusz Sutowicz

Senior Economist, Poland
mateusz.sutowicz@ing.pl

Alissa Lefebvre

Economist
alissa.lefebvre@ing.com

Deepali Bhargava

Regional Head of Research, Asia-Pacific
Deepali.Bhargava@ing.com

Ruben Dewitte

Economist
+32495364780
ruben.dewitte@ing.com

Kinga Havasi

Economic research trainee
kinga.havasi@ing.com

Marten van Garderen

Consumer Economist, Netherlands
marten.van.garderen@ing.com

David Havrlant

Chief Economist, Czech Republic
420 770 321 486
david.havrlant@ing.com

Sander Burgers

Senior Economist, Dutch Housing
sander.burgers@ing.com

Lynn Song

Chief Economist, Greater China
lynn.song@asia.ing.com

Michiel Tukker

Senior European Rates Strategist
michiel.tukker@ing.com

Michal Rubaszek

Senior Economist, Poland

michal.rubaszek@ing.pl

This is a test author

Stefan Posea

Economist, Romania

tiberiu-stefan.posea@ing.com

Marine Leleux

Sector Strategist, Financials

marine.leleux2@ing.com

Jesse Norcross

Senior Sector Strategist, Real Estate

jesse.norcross@ing.com

Teise Stellema

Research Assistant, Energy Transition

teise.stellema@ing.com

Diederik Stadig

Sector Economist, TMT & Healthcare

diederik.stadig@ing.com

Diogo Gouveia

Sector Economist

diogo.duarte.vieira.de.gouveia@ing.com

Marine Leleux

Sector Strategist, Financials

marine.leleux2@ing.com

Ewa Manthey

Commodities Strategist

ewa.manthey@ing.com

ING Analysts

James Wilson

EM Sovereign Strategist

James.wilson@ing.com

Sophie Smith

Digital Editor

sophie.smith@ing.com

Frantisek Taborsky

EMEA FX & FI Strategist

frantisek.taborsky@ing.com

Adam Antoniak

Senior Economist, Poland

adam.antoniak@ing.pl

Min Joo Kang

Senior Economist, South Korea and Japan

min.joo.kang@asia.ing.com

Coco Zhang

ESG Research

coco.zhang@ing.com

Jan Frederik Slijkerman

Senior Sector Strategist, TMT

jan.frederik.slijkerman@ing.com

Katinka Jongkind

Senior Economist, Services and Leisure

Katinka.Jongkind@ing.com

Marina Le Blanc

Sector Strategist, Financials

Marina.Le.Blanc@ing.com

Samuel Abettan

Junior Economist

samuel.abettan@ing.com

Franziska Biehl

Senior Economist, Germany

Franziska.Marie.Biehl@ing.de

Rebecca Byrne

Senior Editor and Supervisory Analyst

rebecca.byrne@ing.com

Mirjam Bani

Sector Economist, Commercial Real Estate & Public Sector (Netherlands)

mirjam.bani@ing.com

Timothy Rahill

Credit Strategist

timothy.rahill@ing.com

Leszek Kasek

Senior Economist, Poland

leszek.kasek@ing.pl

Oleksiy Soroka, CFA

Senior High Yield Credit Strategist

oleksiy.soroka@ing.com

Antoine Bouvet

Head of European Rates Strategy

antoine.bouvet@ing.com

Jeroen van den Broek

Global Head of Sector Research

jeroen.van.den.broek@ing.com

Edse Dantuma

Senior Sector Economist, Industry and Healthcare

edse.dantuma@ing.com

Francesco Pesole

FX Strategist

francesco.pesole@ing.com

Rico Luman

Senior Sector Economist, Transport and Logistics

Rico.Luman@ing.com

Jurjen Witteveen

Sector Economist

jurjen.witteveen@ing.com

Dmitry Dolgin

Chief Economist, CIS

dmitry.dolgin@ing.de

Nicholas Mapa

Senior Economist, Philippines

nicholas.antonio.mapa@asia.ing.com

Egor Fedorov

Senior Credit Analyst

egor.fedorov@ing.com

Sebastian Franke

Consumer Economist

sebastian.franke@ing.de

Gerben Hieminga

Senior Sector Economist, Energy

gerben.hieminga@ing.com

Nadège Tillier

Head of Corporates Sector Strategy

nadege.tillier@ing.com

Charlotte de Montpellier

Senior Economist, France and Switzerland

charlotte.de.montpellier@ing.com

Laura Straeter

Behavioural Scientist

+31(0)611172684

laura.Straeter@ing.com

Valentin Tataru

Chief Economist, Romania

valentin.tataru@ing.com

James Smith

Developed Markets Economist, UK

james.smith@ing.com

Suvi Platerink Kosonen

Senior Sector Strategist, Financials

suvi.platerink-kosonen@ing.com

Thijs Geijer

Senior Sector Economist, Food & Agri

thijs.geijer@ing.com

Maurice van Sante

Senior Economist Construction & Team Lead Sectors

maurice.van.sante@ing.com

Marcel Klok

Senior Economist, Netherlands

marcel.klok@ing.com

Piotr Poplawski

Senior Economist, Poland

piotr.poplawski@ing.pl

Paolo Pizzoli

Senior Economist, Italy, Greece

paolo.pizzoli@ing.com

Marieke Blom

Chief Economist and Global Head of Research

marieke.blom@ing.com

Raoul Leering

Senior Macro Economist

raoul.leering@ing.com

Maarten Leen

Head of Global IFRS9 ME Scenarios

maarten.leen@ing.com

Maureen Schuller

Head of Financials Sector Strategy

Maureen.Schuller@ing.com

Warren Patterson

Head of Commodities Strategy

Warren.Patterson@asia.ing.com

Rafal Benecki

Chief Economist, Poland

rafal.benecki@ing.pl

Philippe Ledent

Senior Economist, Belgium, Luxembourg

philippe.ledent@ing.com

Peter Virovacz

Senior Economist, Hungary

peter.virovacz@ing.com

Inga Fechner

Senior Economist, Germany, Global Trade

inga.fechner@ing.de

Dimitry Fleming

Senior Data Analyst, Netherlands

Dimitry.Fleming@ing.com

Ciprian Dascalu

Chief Economist, Romania

+40 31 406 8990

ciprian.dascalu@ing.com

Muhammet Mercan

Chief Economist, Turkey

muhammet.mercan@ingbank.com.tr

Iris Pang

Chief Economist, Greater China

iris.pang@asia.ing.com

Sophie Freeman

Writer, Group Research

+44 20 7767 6209

Sophie.Freeman@uk.ing.com

Padhraic Garvey, CFA

Regional Head of Research, Americas

padhraic.garvey@ing.com

James Knightley

Chief International Economist, US

james.knightley@ing.com

Tim Condon

Asia Chief Economist

+65 6232-6020

Martin van Vliet

Senior Interest Rate Strategist

+31 20 563 8801

martin.van.vliet@ing.com

Karol Pogorzelski

Senior Economist, Poland

Karol.Pogorzelski@ing.pl

Carsten Brzeski

Global Head of Macro

carsten.brzeski@ing.de

Viraj Patel

Foreign Exchange Strategist

+44 20 7767 6405

viraj.patel@ing.com

Owen Thomas

Global Head of Editorial Content

+44 (0) 207 767 5331

owen.thomas@ing.com

Bert Colijn

Chief Economist, Netherlands

bert.colijn@ing.com

Peter Vanden Houte

Chief Economist, Belgium, Luxembourg, Eurozone

peter.vandenhoute@ing.com

Benjamin Schroeder

Senior Rates Strategist

benjamin.schroeder@ing.com

Chris Turner

Global Head of Markets and Regional Head of Research for UK & CEE

chris.turner@ing.com

Gustavo Rangel

Chief Economist, LATAM

+1 646 424 6464

gustavo.rangel@ing.com

Carlo Cocuzzo

Economist, Digital Finance

+44 20 7767 5306

carlo.cocuzzo@ing.com

Disclaimer

This publication has been prepared by the Economic and Financial Analysis Division of ING Bank N.V. ("ING") solely for information purposes without regard to any particular user's investment objectives, financial situation, or means. *ING forms part of ING Group (being for this purpose ING Group N.V. and its subsidiary and affiliated companies).* The information in the publication is not an investment recommendation and it is not investment, legal or tax advice or an offer or solicitation to purchase or sell any financial instrument. Reasonable care has been taken to ensure that this publication is not untrue or misleading when published, but ING does not represent that it is accurate or complete. ING does not accept any liability for any direct, indirect or consequential loss arising from any use of this publication. Unless otherwise stated, any views, forecasts, or estimates are solely those of the author(s), as of the date of the publication and are subject to change without notice.

The distribution of this publication may be restricted by law or regulation in different jurisdictions and persons into whose possession this publication comes should inform themselves about, and observe, such restrictions.

Copyright and database rights protection exists in this report and it may not be reproduced, distributed or published by any person for any purpose without the prior express consent of ING. All rights are reserved. ING Bank N.V. is authorised by the Dutch Central Bank and supervised by the European Central Bank (ECB), the Dutch Central Bank (DNB) and the Dutch Authority for the Financial Markets (AFM). ING Bank N.V. is incorporated in the Netherlands (Trade Register no. 33031431 Amsterdam). In the United Kingdom this information is approved and/or communicated by ING Bank N.V., London Branch. ING Bank N.V., London Branch is authorised by the Prudential Regulation Authority and is subject to regulation by the Financial Conduct Authority and limited regulation by the Prudential Regulation Authority. ING Bank N.V., London branch is registered in England (Registration number BR000341) at 8-10 Moorgate, London EC2 6DA. For US Investors: Any person wishing to discuss this report or effect transactions in any security discussed herein should contact ING Financial Markets LLC, which is a member of the NYSE, FINRA and SIPC and part of ING, and which has accepted responsibility for the distribution of this report in the United States under applicable requirements.

Additional information is available on request. For more information about ING Group, please visit www.ing.com.