

Good MornING Asia - 20 April 2020

Pandemic is still the only game in town. Increasingly though, economic data will come back to prominence as politicians and scientists argue about ending lockdowns

In this bundle



Bored of the pandemic...

...but sadly, it's still the only game in town. Increasingly though, economic data will come back to prominence as politicians and scientists argue...



FX | China

China: Terrible GDP contraction means a fat U recovery

China's GDP went into deep contraction in 1Q20, and signs of a recovery in activity are mixed. As long as strict social distancing measures are in...



India

Reserve Bank of India's "whatever it takes"

It was still a disappointment for markets as the widely-expected unconventional easing, through debt purchases and monetisation of the fiscal deficit,...

Opinion | 20 April 2020

Bored of the pandemic...

...but sadly, it's still the only game in town. Increasingly though, economic data will come back to prominence as politicians and scientists argue about ending lockdowns



Source: Shutterstock
Boredom

Today, I will be mainly talking about the pandemic, again

I have to write a message to my Dad in the UK today, he has a birthday coming up. And like this note, it is going to be a struggle to write. I'd normally fill it up with newsy stuff about what the family has been doing, places we've visited, nice meals out, people we've seen. Chuck in a couple of photos of the kids. Of course, I have none of that to offer today, having been nowhere, seen no-one, and done nothing.

And it is much the same with work too. There really is still only one game in town - the pandemic and how it is shaping up in various geographies. In Europe, real progress does seem to be being made, and as I noted last week, pioneers in the re-opening field, Austria and Denmark, are illustrating how it could go. Austria's new case numbers are still trending lower, so it looks good so far. Denmark's are holding up between 150 and 200, but their active cases are falling, so if they consider the capacity of their health service to cope as a key metric for re-opening, then it is still on track.

The arguments for opening up states in the US is turning uglier, with Governors on both sides of the political divide noting the inadequacy of testing as a major constraint for them when it comes to re-opening. You could still probably argue that new cases in the US look to have peaked, which should mean the daily death tally should also soon begin to ease back, but the decline is still pretty marginal, and looks highly vulnerable to policy mistakes.

The UK is also having to deal with an increasingly tetchy public, with rebuttals of claims that a re-opening may occur as soon as May 11, and of newspaper criticisms of early UK policy towards the virus outbreak.

Here in Asia, there is no one-size-fits-all remark that can be levied on how it is going. China is having to respond to new outbreaks in Heilongjiang with lockdowns in the town of Suifenhe, according to the Financial Times. And of course, we are still digesting last week's negative GDP figures. Korea gets to show how it has coped under the crisis, with its GDP release this week. The consensus is for a relatively modest 1.5%QoQ decline in GDP, which would be a remarkably good outcome if it is close to the mark. This could show what could have been done when testing capacity is aggressively ramped up early on in a pandemic - Korea has not had any *mandatory* lockdowns (Daegu was voluntary, though well followed). That said, it is a bit like showing losing contestants on a TV game-show what they could have won if they hadn't gambled their [paltry winnings on the big prize.](#)

Increasingly, we will turn back again to economic data like this to see how badly lockdowns have affected our countries, and to throw into the hat alongside clinical and epidemiological requirements for any re-opening. Like it or not, there will be a trade-off between the state of an economy and the lives of its citizens that politicians will implicitly, and often behind closed-doors, explicitly be making. And the worse the economic numbers, the greater the pressure on them to bow to public demands for a relaxation of controls. So there is still a purpose to being an economist, even if it hasn't felt like that for many weeks.

Asia today

Later this morning, the PBOC will release its new figures for the Loan Prime Rate: Iris Pang in Hong Kong writes, "The PBoC is widely expected to cut 1Y LPR by 20 bps. A smaller or deeper cut will surprise the market. The next question is then how many more cuts can the PBoC perform given that it does not agree with ultra-low interest rate policy. We believe that there will be hints on this question from the PBoC Q&A or statement".

And we've already had 1Q20 New Zealand CPI, which at 2.5%YoY (+0.8%QoQ), has exceeded the midpoint of its inflation target mandate (1-3%). Its a bit ironic now they've cut policy rates to their effective lower bound and started Quantitative Easing - but much of the increase appears to be related to indirect taxes, and the biggest rises from a year ago are cigarettes and alcohol. The coming quarters will almost certainly pare back these increases taking inflation back below or close to its midpoint. But the message here may be, NZ could be one of the first countries to start normalising policies as it exits its own very successful lockdown programme.

Author

Alissa Lefebre

Economist

alissa.lefebre@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 Havlant

Chief Economist, Czech Republic

420 770 321 486

david.havlant@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

China: Terrible GDP contraction means a fat U recovery

China's GDP went into deep contraction in 1Q20, and signs of a recovery in activity are mixed. As long as strict social distancing measures are in place, we think China will struggle to recover quickly



Economy contraction worse than 1967

GDP contracted 6.8% year-on-year in 1Q20, the last time we saw such a big contraction was back in 1967 when China saw the economy shrink -5.8% during the Cultural Revolution, [according to data from the World Bank](#). The contraction this time is a result of city lockdowns and strict social distancing measures but the comparison provides us with a sense of how big an impact Covid-19 has had.

Investment was up in March it can't be described as a recovery

Fixed asset investments contracted 16.1%YoY in 1Q20 but rose 6.05%MoM in March.

According to the National Bureau of Statistics, there were many items that experienced a slower contraction in Jan-Mar compared to in Jan-Feb. That means there are signs of some growth in investment in March. But it is still too soon to gauge the effectiveness of stimulus measures on investment.

The central government is now pushing the "New infra" plan, which currently consists of 5G

infrastructure, big-data centres, AI, Industrial internet of things, ultra-high voltage connectors and e-vehicle chargers. The contents of the plan are quite fluid and more items have been added to it since January.

But we believe the speed of putting money into projects and turning this into measurable production will take much longer than it would do without social distancing in place. In short, recovery will be a long road.

Factories were the least affected

Industrial production shrank 8.4%YoY in 1Q20 but shows signs of heading back to recovery in March as the shrinkage narrowed to 1.1%YoY during that month.

Automobiles and related parts were heavily impacted by the lockdown. Automobile production shrank 43%YoY and new energy cars fell 43.9%YoY.

This positive note was mainly a result of the need to fight against Covid-19, e.g. non-woven textiles (masks and protective wear) +6.1%YoY, medicines +4.5%YoY. Other positive notes include the push for the “New Infra” projects by the central government. Computation and telecommunication rose 9.9%YoY and robot production also increased at 12.9%YoY in March.

Exports are expected to be dismal due to the Covid-19 situation in Europe and the US. This could last until June-July.

Retail sales were the most hit

Retail sales in March fell 15.8%YoY after falling 19.0%YoY in Jan-Feb. Retail sales show some improvement in terms of the variety of spending. It was not just food and medicine as in Jan-Feb, but also telecommunication equipment (+6.5%YoY), which is most likely purchases of smartphones.

But there was still a deep contraction in many retail sales items, e.g. clothing (-34.8%YoY), furniture (-22.7%YoY) and automobiles (-18.4%YoY).

As mentioned earlier, as long as there are strict social distancing measures, the recovery of activity will be very slow, and this will be reflected in consumption.

Policy expectation

Monetary easing and fiscal stimulus will certainly continue.

We expect a 20bp cut in the 1Y Loan Prime Rate on 20 April. Apart from that, there will be more targeted RRR cuts, which should focus on inclusive finance so that SMEs, which are employers of many workers, can get loans from banks.

Another policy expectation is the combination of monetary and fiscal policy of government guarantee loans for SMEs if banks continue to be reluctant to lend to SMEs.

To further stabilise the jobs market, the central government will push harder on the “New infra” plan, to make sure that the local government special bonds issued so far this year at CNY1.1 trillion can be put into projects as soon as possible. But the difficulty is still that even getting enough

capital, the projects need to run smoothly without strict social distancing measures, which we don't think will be relaxed any time soon.

Revision of GDP forecasts

We have downgraded China' GDP growth further to -3.1%YoY in 2Q20, -0.5%YoY in 3Q20 and 4.5%YoY in 4Q20. 2020 full-year growth is projected at -1.5%.

USD/CNY has been affected by the changes of cases and death tolls of Covid-19 globally. We are revising the yuan to depreciate less than in our previous forecasts to USD/CNY at 7.15, 7.0 and 6.9 by end of 2Q, 3Q and 4Q20, respectively.

Author

Iris Pang

Chief Economist, Greater China

iris.pang@asia.ing.com

Reserve Bank of India's "whatever it takes"

It was still a disappointment for markets as the widely-expected unconventional easing, through debt purchases and monetisation of the fiscal deficit, were missing in the new measures just announced



Source: Shutterstock

Whatever it takes...

The Reserve Bank of India's Governor Shaktikanta Das announced an additional set of liquidity-boosting measures in an unscheduled press conference held today, topping up about \$50 billion worth of measures unveiled less than a month ago on 27 March. Today's announcement includes:

Policy rates: A 25 basis point cut in the reverse repo rate to 3.75%. No change to the repo rate of 4.40%. The move discourages banks from depositing funds with the central bank instead of lending them out.

TLTRO 2.0: A targeted long-term repo operation INR 500 billion to start with, and in tranches thereafter, to support liquidity for small and medium-sized non-bank finance companies (NBFC). Banks are mandated to deploy the same amount of funds within one month and 50% of these are assigned for mid-sized NBFCs and microfinance institutions (MFIs).

Liquidity Coverage Ratio: Freeing up more cash for scheduled commercial banks, with a cut to 80% from 100% in the proportion of liquid assets they are required to be set aside to cover short-

term obligations. The cut will be rolled back in two phases in October 2020 and April 2021.

All-India Financial Institutions: A special financial facility of INR 500 billion at the repo rate to NABARD, SIDBI, and NHB, the national lenders to the agriculture sector, small-scale industries, and housing sector, respectively.

Easing lending guidelines: Extension of the loan-repayment moratorium for three months though with additional provisioning of 10% to be fully reversed back in two quarters once the situation is normalised. Easier restructuring of loans to the real estate sector.

More funding for states: Increase in the ways and means advance (WMA) limit for states by 60% until 30 September, 2020.

... but no quantitative easing

The announcement was, however, a disappointment for the markets, which expected aggressive easing via unconventional routes such as debt purchases, as well as monetisation of the fiscal deficit. As the government is embarking on a record domestic borrowing spree to finance the budget gap and this supply-overhang is driving yields higher, the markets were hoping that the central bank would absorb this debt in the secondary market and keep yields from going higher.

Alas, that's not going to happen. Our reasoning for this is that, unlike developed economies where exceptionally low inflation and interest rates have forced central banks on the quantitative easing path, the RBI still has room to ease by cutting policy interest rates. Admittedly, the policy transmission has been weak and the RBI's Operation Twist since December (buying of long-dated government bonds and simultaneously selling short-dated ones) has worked well in keeping yields low.

Governor Das did point out that the potentially low inflation rate allows for further rate cuts. At 5.9% year-on-year in March, inflation is just back within the RBI's 2-6% policy target range. We expect it to fall below 5% within this quarter.

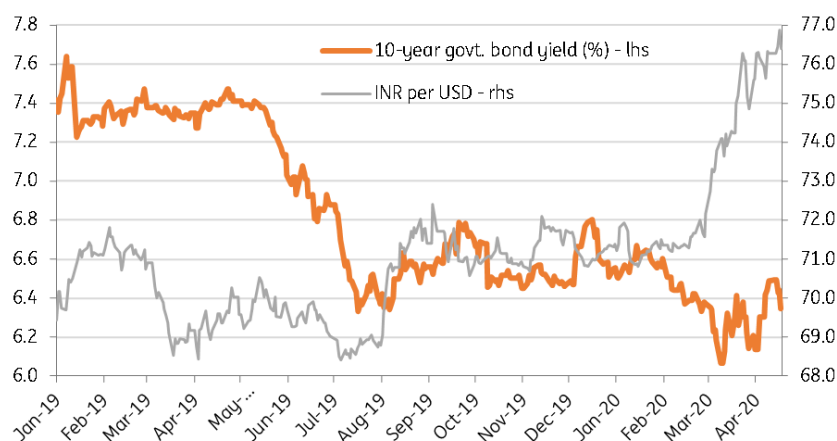
What's ahead?

Today's liquidity-boosting measures of INR 1 trillion combined with those worth INR 3.74 trillion announced on 27 March amount to about 2.4% of GDP monetary stimulus so far. Add to this 1.3% of GDP fiscal thrust, including the imminent second package said to be worth INR 1 trillion, and this still doesn't put India among the ranks of the more aggressive, 10-20% of GDP, aggregate policy thrusts seen elsewhere in Asia.

We don't consider economic stimulus as strong enough to position the economy for a speedy recovery once the pandemic ends. Stretched public finances have constrained fiscal stimulus and this has forced the RBI to do all the heavy lifting. However, liquidity-boosting efforts may not be much help to corporate and household cash flows, at least not until confidence returns, which is too difficult to time given the unprecedented nature of the current crisis.

Meanwhile, the markets will continue to ponder the depth of the economic downturn ahead of us and the length of the recovery after that. The extended lockdown until early May adds further downside risk to our view of a 5% YoY GDP fall in the current quarter, the worst ever. No doubt Indian government bonds and the rupee will remain under pressure in the near-term. Our end-2Q20 USD/INR forecast is 79.0 (spot 76.4).

Under weakening pressure



Source: Bloomberg, ING

Author

Alissa Lefebre

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 Kloek

Senior Economist, Netherlands
marcel.kloek@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.