

Monthly Focus

No more kind of magic

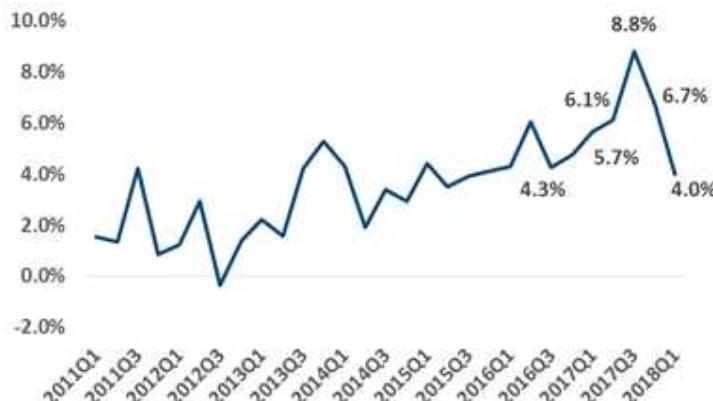
Chief Economist:
Horia Braun Erdei,

+40 3735 10424
Horia.BraunErdei@bcr.ro

Since I joined BCR as chief economist at the beginning of 2017, the story that I had to tell investors, clients and other foreign institutions interested in Romania's fate was that our country is a front runner in the economic recovery chase. Even if I knew and shared the obvious concern about the sustainability and the health of that fiscal stimulus based consumption led growth, I must admit I was secretly proud to picture Romania as the "tiger" of CEE and of the EU at large. Well, it looks like at the beginning of 2018 this tiger's got seriously injured and with it my national pride's bubble has if not burst, then at least fizzled.

Of course, the surprise was actually not that large as the signs have been kind of written on the wall for some months: consumer confidence has been worsening for 6 months in a row, wage growth was bound to slow significantly after the social contributions "revolution" and Romania's export markets were also beginning to show signs of "growth fatigue". Not to mention that GDP growth itself had been relatively meagre already in the fourth quarter of last year, much below the average growth of 2017¹. Even if to some extent expected, the first quarter's GDP figures of 0.0% QoQ/ 4.0% YoY, together with the NSI's downward revisions of quarterly growth rates in the last 3 quarters of 2017 are no longer compatible with a 4.7% GDP growth rate for this year. We are therefore revising our 2018 forecast downwards to 4.1%. That number is in line with GDP dynamics expected in other countries in the CEE region, so we have nothing special to really brag about.

Chart 1. GDP growth rate (YoY, %, unadjusted)

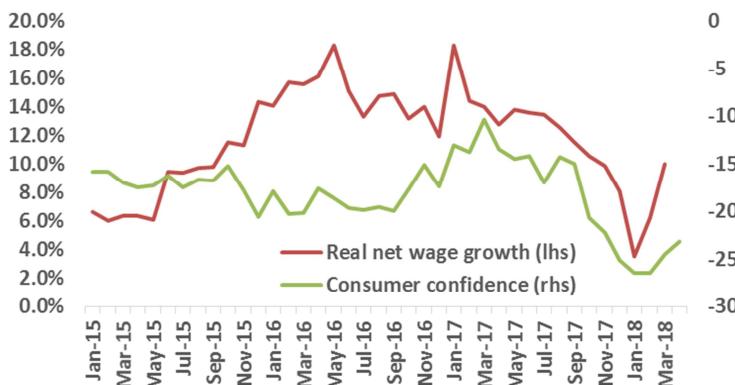


Source: National Statistics Institute

Should these figures make us depressed? Our implicit message from the new forecast we have put forward is "No, it's too soon for that". There are of course reasons to be concerned, given that Economic Sentiment indicators have been slowing also in April and recently

¹ This was even before NSI's quarterly growth rates revision which was published together with the Q1 flash GDP estimate, indicating 17Q4 growth rate at 0.3%, down from 0.5%.

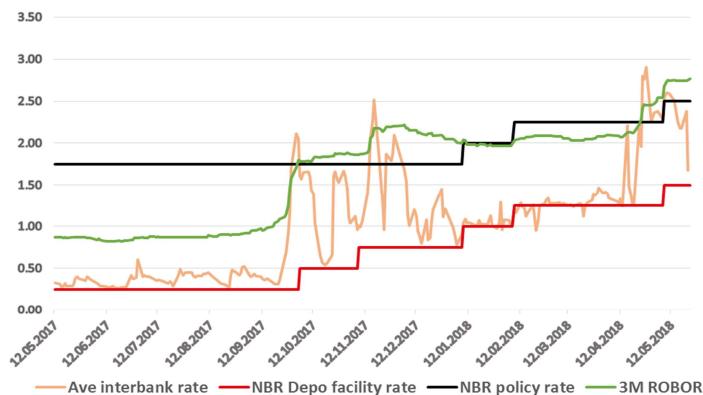
published industrial confidence has continued to disappoint in the Eurozone. Our view nevertheless is that for the second quarter of 2018 we should expect a rebound in quarterly growth, at least as far as domestic consumption is concerned. Consumers seem to have left behind them the taxation change related turmoil and consumer confidence has stabilized and even slightly improved in April. This has come simultaneously with an improvement in wage dynamics, which may have been down to the temporary effect of bonus payments, but it nevertheless means more money in the pockets of consumers. Inflation too is no longer deteriorating as fast as it did in the past few months and very likely to peak soon in annual terms, then to decline abruptly in the last quarter of this year. This means that the purchasing power of the population has been on the rise and could continue to advance in the rest of the year. It's true, no more kind of magic in those growth rates. That however is good from a long-term economic perspective, because productivity growth in Romania is not running at the double digit rates that wages grew in 2016-2017, but a 4%-5% productivity advance has been a sustainable one for several years now, so a similar real wage growth rate can be accommodated without severely impairing on the competitiveness of Romanian employers.

Chart 2. Real wage growth (YoY) and consumer confidence (index level)

Source: National Statistics Institute, European Commission

So our message here is one of normalization of economic dynamics. That is positive news for some policymakers and negative news for others. In terms of monetary policy, it means that the heavy lifting of interest rates (2 hikes in the deposit facility alone, then 3 hikes in the policy rate) that we witnessed in the last 6 months has no strong reason to continue. That is unless: (1) external market conditions were to severely worsen; (2) European central banks were to hasten their own tightening; (3) a new supply shock were to lift inflation rate even higher in the next 3-6 months or (4) fresh consumption stimulus is introduced by the Government, as promised actually in the Governing Program. Since we don't see a high likelihood of any of those alternative scenarios, we remain of the view that the NBR will slow its tightening pace. We therefore expect no more than 1 hike per semester in the next 12 months. One such preventive hike could come in the summer, if Emerging Market sentiment were to continue its current bad patch and eventually engulf the EURRON exchange rate, which is so far enjoying a fine strengthening ride supported by a positive carry-to-volatility

spread versus peers. A second hike could only come well into 2019 and it should be very much conditional on significant progress in any of the 4 factors mentioned above, among which the ECB's end of QE looks like the most likely trigger.

Chart 3. Money market and policy interest rates, %

Source: National Bank of Romania

The slowdown in growth is not good news for fiscal policymakers, especially in the context of the strained relationship with the European Commission, which has recently sent another warning to the Romanian authorities with respect to their lack of convincing efforts to reverse the deterioration of the structural budget deficit. The ambitious tax collection plan for this year, especially in the case of VAT revenues, can be jeopardized by a slowing economy. Combined that with the EC's pressure and with the increasing pressure for the government to perform on the investments and the EU funds absorption side which imply extra spending compared to 2017, we see the odds as increasing for further fiscal adjustment measures. In that sense, the continuing request for special dividends collection from State-owned companies or a potential re-routing of social contributions funding the Pillar II private pensions system to the social security budget are just a way of buying time. They could carry the budget deficit home for perhaps one more year, but they are not solving the budget's structural problems.

The Government's bet is that investment spending can do that magic, especially if those much awaited infrastructure projects with large multiplier effects can finally hit the road. They could potentially boost GDP growth and "create" the basis for revenues to come back to the budget through extra taxes. Of course, who wouldn't support an investment led growth model? The business community certainly does, as reflected by the AmCham's recently published investment report², which also includes a few ideas on what/how/where to boost investments. The only problem is that ideas are many, but what is needed is hard, detailed work. In that respect, we are perhaps too much used to expecting the magic fairy perform instead of us. Having the public sector wages rise every year by 25% with no guarantee of a

² You can consult the report in Romanian language at the following link:

https://www.amcham.ro/UserFiles/articleFiles/Investitiile%20Coloana%20Vertebraala%20pentru%20o%20dezvoltare%20economica%20sustenabila%20a%20Romaniei_05220848.pdf

corresponding productivity boost is not the way to go anymore. We need a different strategy or else we will all pay the costs in terms of higher taxes, lower social benefits and poorer and poorer public services.

Macro Monitor

Analyst

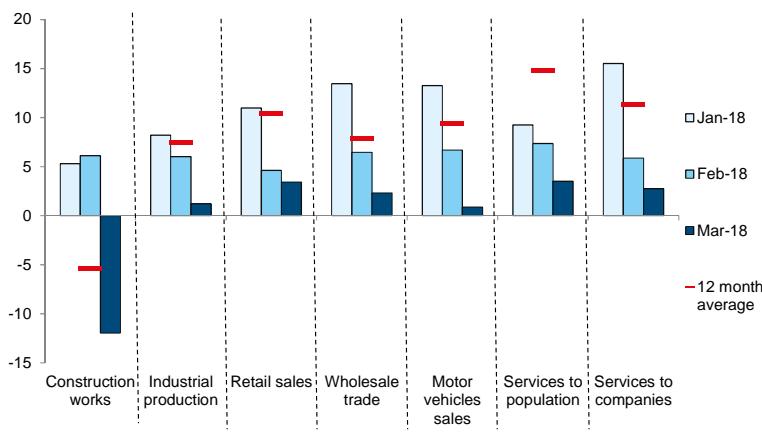
Dorina Ilășco,

+40 3735 10436

dorina.ilasco@bcr.ro**Romanian economy slowed down in first quarter of 2018**

Real GDP growth arrived at 0% q/q (s.a. data) and 4% y/y in 1Q18, according to the flash estimate published by the National Institute of Statistics. The Romanian economy thus continued to lose momentum compared to 4Q17, when the economic growth was already pointing towards a slowdown at 0.3% q/q and 6.7% y/y. Economic growth deceleration in 1Q18 was not a surprise for us, as earlier signals from weaker confidence indicators and hard data reinforced our belief that the activity in industry, retailing and services was slowing. The Economic Sentiment Indicator averaged 102.3 points in 1Q18, the lowest quarterly reading in three years.

While no breakdown has been provided by the National Statistics Institute on what caused the slowdown, we think that both domestic and external factors stood behind the expected deceleration of the Romanian economy. The Eurozone, our leading trading partner, grew only 0.4% q/q in 1Q18, the weakest quarterly expansion over the last five quarters. Unfavorable weather conditions, strikes in some countries, and growing fears about a trade conflict between the US and its trading partners have often been cited as key reasons for the poorer growth performance of the Eurozone in the first quarter of this year.

Chart 4. Economic developments by sector in March, % y/y

Source: National Statistics Institute

At the same time, Romania experienced unusually cold weather in March, which most likely dampened the activity in some sectors. Industrial production, wholesale and retail trade, services for the population and companies only showed a marginal advance in March (2-3% y/y), after posting solid growth rates in the previous two months (10-15% y/y and 6-7% y/y in January and February). The surprise

pullback in construction added to the slowing signs in 1Q18. The activity of this sector was particularly weak in March, when it fell almost 12% y/y, after three months of decent performance. March marked the third consecutive double-digit drop in the residential segment.

Engineering works also shrank, while the non-residential segment barely rose. We currently think that it is too early to say whether the weakness in construction works will persist in the following months, as these disappointing numbers can be attributed to the unusually cold weather in the first month of the spring and not necessarily to structural weakness.

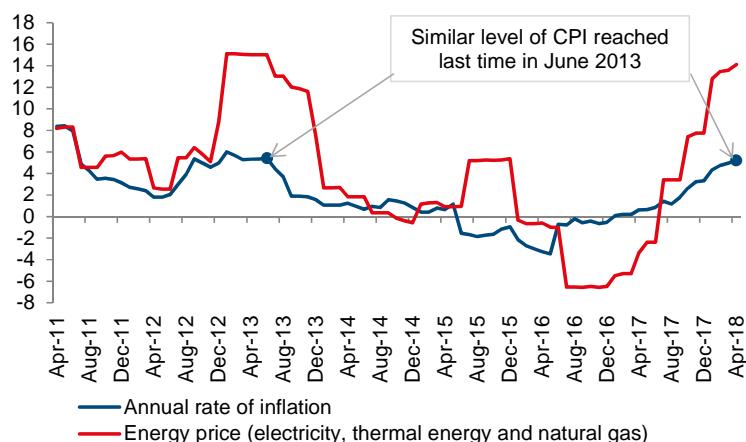
GDP growth is seen to rebound in the second quarter of this year, as we believe that part of the current slowdown is only temporary. March, however, brought some good economic news too. Annual growth in exports was faster than that of imports (+6.6% versus +5.8%), indicating a possible recovery in industry after a period of modest readings. What is more, new orders' solid development, including the domestic new orders, amid slightly perkier consumer confidence in April, adds to the evidence for stronger industry reading in the second quarter.

Consumer prices at 5-year high in April, to slow around year-end

Annual inflation headed higher to 5.2% in April from 5% in the previous month, as it was mostly influenced by some temporary factors such as the natural gas price hikes or higher excise duties for tobacco. The mark-up in fuel prices was also substantial and was driven by a run-up in Brent oil price.

Barring the hikes in natural gas and tobacco prices and rise in fuel prices, inflation would have slowed slightly to 4.8% in April. Core 2 adjusted inflation (CPI less administered, volatile food and fuels, tobacco and alcohol), central bank's preferred gauge for tracking underlying inflation pressures, barely moved in April. However, because of rounding, core 2 adjusted inflation ticked up to 3.1% (from 3% in March).

Chart 5. Annual rate of inflation, %



Source: National Statistics Institute

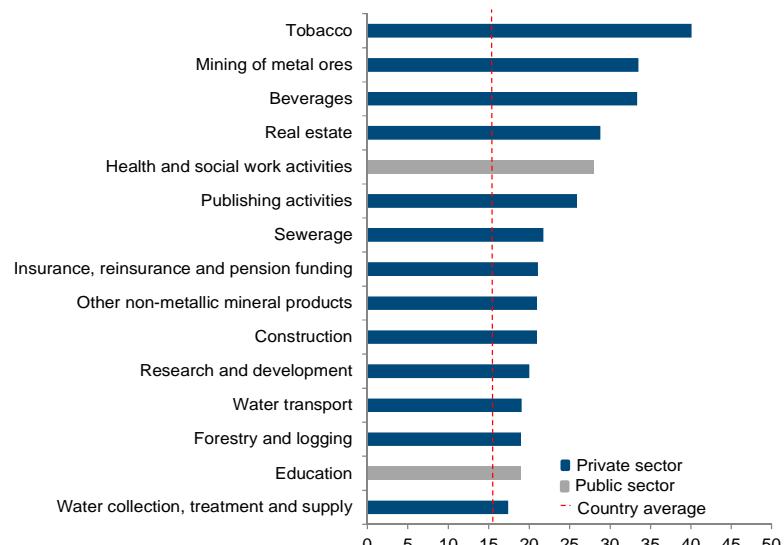
We think there is no reason to worry at least as yet, even though the CPI is more likely to hover around the 5% level throughout the autumn. We continue to expect the inflation to slacken off to 3.7% as of end-2018 helped by a favorable base effect. Risks to our baseline scenario

are rather tilted to the upside, as the unremitting tensions in the Middle East that could drive the international price of oil even higher. Also, we do not rule out some negative surprises from local agriculture – derelict irrigation systems make it largely vulnerable to the elements.

Salary gains scaled dizzy heights in March, helped by private sector

Net salary gains picked up significant speed in March (+15.5% y/y), bolstered by notable pay rises in both the public and private sectors. The steepest growth rates were reported in 'health' and 'education', where net salary gains were up a whopping 28% y/y and 19% y/y, respectively. In the private sector, industries such as 'tobacco', 'mining of metal ores' and 'beverages' were at the top end of net salary gains in March (33.4-40.1% y/y); this was mostly a seasonal impact of employers paying bonuses and other sums to their workers. The recent surge will gradually taper off in the coming months, once the recent bonuses extended drop out of the base effect.

Chart 6. Average net wages by sector in March, % y/y



Source: National Statistics Institute

Bond Monitor

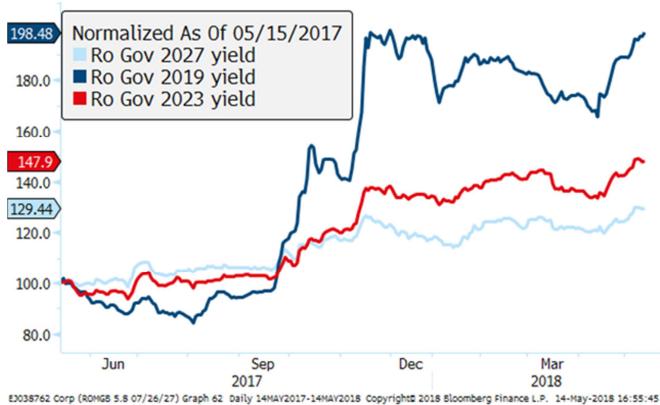
Chief Economist:

Horia Braun Erdei,

+40 3735 10424

Horia.BraunErdei@bcr.ro

Compared to a month ago, Romanian government bond yields rose on average by approximately 60 bps, boosted by an adverse combination of both local and external factors. Local drivers included the NBR's liquidity tightening and its subsequent policy interest rate hike, but also the relatively high inflation print in April, which took the year-on-year CPI growth rate to a 4-year high of 5.2%. External factors were also unsupportive for bonds, with US Treasury yields moving past the 3% resistance level and Emerging Market bonds feeling the pinch of the rising USD FX and interest rates, on top of the country specific negative stories such as the bailout requested by Argentina and the virtual currency crisis in the close-by Turkey.

Chart 7. One year evolution of Romanian government bond yields maturing in 2019, 2023 and 2027 (base period = 100)

Source: Bloomberg

As was the case since the autumn of 2017, in the past month it was also short-term yields that rose faster than long-term ones. Over the last year, this has led to a significant flattening of the yield curve: the term spread between 10-year and 1-year government bonds has declined from a high of 300 bps in the summer of 2017 to less than 200 bps today. In a country where monetary policy is full swing in a tightening cycle, this may not be surprising and it mirrors a similar phenomenon from other markets (e.g. UST market or Polish government bond market). We nevertheless think that further flattening days may be over. As we mentioned before, monetary policy is likely to slow down its tightening pace as inflation tail risks are diminishing with the slowing economy and with the more stable RON. A more sluggish GDP growth may nevertheless shift investor focus towards fiscal policy risks, with long-term bond yields usually more sensitive to such investor concerns.

Even if local fundamentals would support it, the trigger for a steepening of the local yield curve is still likely to come from abroad. This is because in all likelihood it is foreign investors that are currently most active on the longer part of the curve, given that local players (banks, pension funds, mutual funds) have few incentives to take on duration risk. In case of banks and mutual funds, their benchmarks are generally of shorter durations and in the case of pension funds, the uncertainty surrounding the future of the mandatory private system means they are more likely to steer their portfolios to safety in order to avoid recording negative absolute returns that would worsen their case in the heated public debate. Given the foreigners involvement, global market trends will set the mood for long-term Romanian bonds trading as well. Potential triggers for long-term yields going higher could come from a potential steepening of the ultra-flat US Treasuries yield curve or from the steepening of the Euro curve as the ECB announces further cutback or even the end of the QE program. The most nearby risk however comes from a continuing Emerging Markets turmoil, as a potential streak of outflows from dedicated bond funds can cause the pressure to build up also on Romanian bonds, even if their lack of liquidity and hefty yield spread to CEE peers have so far provided some protection.

Macro forecasts

	2010	2011	2012	2013	2014	2015	2016	2017	2018f
Real economy									
GDP - %, y/y real change	-1.1	2.3	0.6	3.5	3.1	4.0	4.8	6.9	4.1
GDP - RON bn	534	565	597	637	668	713	762	858	935
GDP per capita - EUR tsd	6.2	6.6	6.7	7.2	7.5	8.1	8.6	9.5	10.1
Households' consumption - %, y/y real ch.	0.2	1.4	1.5	-2.4	4.4	5.7	7.3	9.0	5.2
Industrial production - % y/y real ch.	5.6	5.6	0.0	7.8	6.1	2.7	1.7	8.2	4.9
Retail sales - %, y/y real ch.	-7.0	-1.2	4.1	0.5	7.0	8.9	13.5	10.7	6.0
External sector									
Exports of goods & services - EUR bn.	40.6	48.8	49.8	57.3	61.9	65.8	70.2	77.7	83.0
Imports of goods & services - EUR bn.	48.1	56.1	56.2	58.0	62.4	66.7	71.7	81.7	88.4
Balance of goods & services - % of GDP	-5.9	-5.5	-4.8	-0.5	-0.3	-0.6	-0.9	-2.2	-2.7
C/A balance - % of GDP	-4.6	-4.6	-4.5	-0.8	-0.5	-1.2	-2.1	-3.4	-4.0
Prices									
CPI - y/y (%)	8.0	3.1	5.0	1.6	0.8	-0.9	-0.5	3.3	3.7
CPI - average (%)	6.1	5.8	3.3	4.0	1.1	-0.6	-1.5	1.3	4.6
Labour market									
Unemployment rate - %	6.9	7.2	6.8	7.1	6.8	6.8	5.9	4.9	4.9
Net wages - RON	1,391	1,444	1,507	1,579	1,697	1,859	2,046	2,336	2,570
Net wages - %, real change	-3.7	-1.9	1.0	0.7	6.3	10.2	11.7	12.7	5.2
Public sector									
Fiscal deficit - % of GDP (ESA)	-6.9	-5.4	-3.7	-2.1	-1.4	-0.8	-3.0	-2.9	-3.3
Public debt - % of GDP (Eurostat)	29.9	34.2	37.3	38.0	39.8	37.9	37.6	35.1	34.9
Interest rates									
Monetary policy rate, eoy	6.25	6.00	5.25	4.00	2.75	1.75	1.75	1.75	2.75
ROBOR 3M - %, eoy	6.2	6.1	6.1	2.4	1.7	1.0	0.9	2.1	2.8
ROBOR 3M - %, average	6.7	5.8	5.3	4.2	2.5	1.3	0.8	1.2	2.4
10Y ROGB, %, eoy	7.2	7.2	6.4	5.3	3.6	3.7	3.6	4.3	5.4
FX rate									
EUR/RON eoy	4.28	4.32	4.43	4.48	4.48	4.52	4.54	4.66	4.73

Source: Central bank, Eurostat, NIS, BCR Research

Macro and Fixed Income:

Horia Braun-Erdei	+4 (021) 312 67 73/10424	Horia.BraunErdei@bcr.ro
Dumitru Dulgheru	+4 (021) 312 67 73/10433	DumitruTeodor.Dulgheru@bcr.ro
Florin Eugen Sinca	+4 (021) 312 67 73/10435	Eugen.Sinca@bcr.ro
Dorina Ilasco	+4 (021) 312 67 73/10436	Dorina.Ilasco@bcr.ro

Erste Group Research

Monthly Focus | Fixed Income | Romania

24 May 2018

Contacts

Group Research

Head of Group Research

Friedrich Mostböck, CEFA

+43 (0)5 0100 11902

Major Markets & Credit Research

Head: Gudrun Egger, CEFA

+43 (0)5 0100 11909

Ralf Burchert, CEFA (Agency Analyst)

+43 (0)5 0100 16314

Hans Engel (Senior Analyst Global Equities)

+43 (0)5 0100 19835

Christian Enger, CFA (Covered Bonds)

+43 (0)5 0100 84052

Margarita Grushanina (Economist AT, Quant Analyst)

+43 (0)5 0100 11957

Peter Kaufmann, CFA (Corporate Bonds)

+43 (0)5 0100 11183

Stephan Lingnau (Global Equities)

+43 (0)5 0100 16574

Carmen Riefler-Kowarsch (Covered Bonds)

+43 (0)5 0100 19632

Rainer Singer (Senior Economist Euro, US)

+43 (0)5 0100 17331

Bernadett Povazsai-Römhild (Corporate Bonds)

+43 (0)5 0100 17203

Elena Statilev, CIIA (Corporate Bonds)

+43 (0)5 0100 19641

Gerald Walek, CFA (Economist Euro, CHF)

+43 (0)5 0100 16360

Macro/Fixed Income Research CEE

Head CEE: Juraj Kotian (Macro/FI)

+43 (0)5 0100 17357

Zoltan Arokszallasi, CFA (Fixed income)

+43 (0)5 0100 18781

Katarzyna Rzentalarzewska (Fixed income)

+43 (0)5 0100 17356

CEE Equity Research

Head: Henning Eßkuchen

+43 (0)5 0100 19634

Daniel Lion, CIIA (Technology, Ind. Goods&Services)

+43 (0)5 0100 17420

Christoph Schultes, MBA, CIIA (Real Estate)

+43 (0)5 0100 11523

Vera Sutedja, CFA, MBA (Telecom, Steel)

+43 (0)5 0100 11905

Thomas Unger, CFA (Banks, Insurance)

+43 (0)5 0100 17344

Vladimira Urbankova, MBA (Pharma)

+43 (0)5 0100 17343

Martina Valenta, MBA

+43 (0)5 0100 11913

Editor Research CEE

Brett Aarons

+420 956 711 014

Research Croatia/Serbia

Head: Mladen Dodig (Equity)

+381 11 22 09178

Head: Alen Kovac (Fixed income)

+385 72 37 1383

Anto Augustinovic (Equity)

+385 72 37 2833

Milan Deskar-Skrbic (Fixed income)

+385 72 37 1349

Magdalena Dolenec (Equity)

+385 72 37 1407

Ivana Rogic (Fixed income)

+385 72 37 2419

Davor Spoljar, CFA (Equity)

+385 72 37 2825

Research Czech Republic

Head: David Navratil (Fixed income)

+420 956 765 439

Head: Petr Bartek (Equity)

+420 956 765 227

Vit Machacek (Fixed income)

+420 956 765 456

Jiri Polansky (Fixed income)

+420 956 765 192

Michal Skorepa (Fixed income)

+420 956 765 172

Pavel Smolik (Equity)

+420 956 765 434

Jan Sumbera (Equity)

+420 956 765 218

Research Hungary

Head: József Miró (Equity)

+361 235 5131

Gergely Ürmössy (Fixed income)

+361 373 2830

András Nagy (Equity)

+361 235 5132

Orsolya Nyeste (Fixed income)

+361 268 4428

Tamás Pletser, CFA (Oil&Gas)

+361 235 5135

Research Poland

Head: Tomasz Duda (Equity)

+48 22 330 6253

Marek Czachor (Equity)

+48 22 330 6254

Magdalena Komaracka, CFA (Equity)

+48 22 330 6256

Mateusz Krupa (Equity)

+48 22 330 6251

Karol Brodziński (Equity)

+48 22 330 6252

Research Romania

Head: Horia Braun-Erdei

+40 3735 10424

Mihai Caruntu (Equity)

+40 3735 10427

Dumitru Dulgheru (Fixed income)

+40 3735 10433

Eugen Sinca (Fixed income)

+40 3735 10435

Dorina Ilasco (Fixed Income)

+40 3735 10436

Research Slovakia

Head: Maria Valachyova, (Fixed income)

+421 2 4862 4185

Katarina Muchova (Fixed income)

+421 2 4862 4762

Research Turkey

Ender Kaynar (Equity)

+90 212 371 2530

Efe Kalkandelen (Equity)

+90 212 371 2537

Treasury - Erste Bank Vienna

Group Markets Retail Sales

Head: Christian Reiss

+43 (0)5 0100 84012

Markets Retail a. Sparkassen Sales AT

Head: Markus Kaller

+43 (0)5 0100 84239

Equity a. Fund Retail Sales

Head: Kurt Gerhold

+43 (0)5 0100 84232

Fixed Income a. Certificate Sales

Head: Uwe Kolar

+43 (0)5 0100 83214

Markets Corporate Sales AT

Head: Christian Skopek

+43 (0)5 0100 84146

Fixed Income Institutional Sales

Group Markets Financial Institutions

Head: Manfred Neuwirth

+43 (0)5 0100 84250

Bank and Institutional Sales

Head: Jürgen Niemeier

+49 (0)30 8105800 5503

Institutional Sales Western Europe AT, GER, FRA, BENELUX

Head: Thomas Almen

+43 (0)5 0100 84323

Charles-Henry de Fontenilles

+43 (0)5 0100 84115

Marc Pichler

+43 (0)5 0100 84118

Rene Klasen

+49 (0)30 8105800 5521

Dirk Seefeld

+49 (0)30 8105800 5523

Bernd Bolthof

+49 (0)30 8105800 5525

Bank and Savingsbanks Sales

Head: Marc Frieberthhäuser

+49 (0)711 810400 5540

Sven Kienzle

+49 (0)711 810400 5541

Michael Schmotz

+43 (0)5 0100 85542

Ulrich Ihnofner

+43 (0)5 0100 85544

Klaus Vosseler

+49 (0)711 810400 5560

Andreas Goll

+49 (0)711 810400 5561

Mathias Gindel

+49 (0)711 810400 5562

Institutional Sales CEE and International

Head: Jaromir Malak

+43 (0)5 0100 84254

Central Bank and International Sales

Head: Margit Hraschek

+43 (0)5 0100 84117

Christian Kössler

+43 (0)5 0100 84116

Bernd Thaler

+43 (0)5 0100 84119

Institutional Sales PL and CIS

Pawel Kielek

+48 22 538 6223

Michał Jarmakowicz

+43 50100 85611

Institutional Sales Slovakia

Head: Peter Kniz

+421 2 4862 5624

Sarlota Sipulova

+421 2 4862 5619

Monika Smelikova

+421 2 4862 5629

Institutional Sales Czech Republic

Head: Ondřej Čech

+420 2 2499 5577

Milan Bartos

+420 2 2499 5562

Barbara Suvaldová

+420 2 2499 5590

Institutional Asset Management Sales Czech Republic

Head: Petr Holecek

+420 956 765 453

Martin Perina

+420 956 765 106

Petr Valenta

+420 956 765 140

David Petracek

+420 956 765 809

Blanca Weinerova

+420 956 765 317

Institutional Sales Croatia

Head: Antun Buric

+385 (0)7237 2439

Željko Pavličić

+385 (0)7237 1494

Natalija Zujic

+385 (0)7237 1638

Institutional Sales Hungary

Head: Peter Csizmadia

+36 1 237 8211

Attila Holló

+36 1 237 8209

Borbala Csizmadia

+36 1 237 8205

Institutional Sales Romania

Head: Ciprian Mitu

+43 (0)50100 85612

Stefan Mortan Racovita

+40 373 516 531

Business Support

Tamara Fodera

+43 (0)50100 12614

Bettina Mahoric

+43 (0)50100 86441

Erste Group Research

Monthly Focus | Fixed Income | Romania
24 May 2018

Disclaimer

This publication was prepared by Erste Group Bank AG or any of its consolidated subsidiaries (together with consolidated subsidiaries "Erste Group") independently and objectively as other information pursuant to the Circular of the Austrian Financial Market Authority regarding information including marketing communication pursuant to the Austrian Securities Supervision Act. This publication serves interested investors as additional source of information and provides general information, information about product features or macroeconomic information without emphasizing product selling marketing statements. This publication does not constitute marketing communication pursuant to Art. 36 (2) Austrian Securities Supervision Act as no direct buying incentives were included in this publication, which is of information character. This publication does not constitute investment research pursuant to § 36 (1) Austrian Securities Supervision Act. It has not been prepared in accordance with legal requirements designed to promote the independence of investment research and it is not subject to the prohibition on dealing ahead of the dissemination of investment research. The information only serves as non-binding and additional information and is based on the level of knowledge of the person in charge of drawing up the information on the respective date of its preparation. The content of the publication can be changed at any time without notice. This publication does not constitute or form part of, and should not be construed as, an offer, recommendation or invitation to subscribe for or purchase any securities, and neither this publication nor anything contained herein shall form the basis of or be relied on in connection with or act as an inducement to enter into any contract or inclusion of a security or financial product in a trading strategy. Information provided in this publication are based on publicly available sources which Erste Group considers as reliable, however, without verifying any such information by independent third persons. While all reasonable care has been taken to ensure that the facts stated herein are accurate and that the forecasts, opinions and expectations contained herein are fair and reasonable, Erste Group (including its representatives and employees) neither expressly nor tacitly makes any guarantee as to or assumes any liability for the up-to-dateness, completeness and correctness of the content of this publication. Erste Group may provide hyperlinks to websites of entities mentioned in this document, however the inclusion of a link does not imply that Erste Group endorses, recommends or approves any material on the linked page or accessible from it. Neither a company of Erste Group nor any of its respective managing directors, supervisory board members, executive board members, directors, officers or other employees shall be in any way liable for any costs, losses or damages (including subsequent damages, indirect damages and loss of profit) howsoever arising from the use of or reliance on this publication. Any opinion, estimate or projection expressed in this publication reflects the current judgment of the author(s) on the date of publication of this document and do not necessarily reflect the opinions of Erste Group. They are subject to change without prior notice. Erste Group has no obligation to update, modify or amend this publication or to otherwise notify a reader thereof in the event that any matter stated herein, or any opinion, projection, forecast or estimate set forth herein, changes or subsequently becomes inaccurate. The past performance of securities or financial instruments is not indicative for future results. No assurance can be given that any financial instrument or issuer described herein would yield favorable investment results or that particular price levels may be reached. Forecasts in this publication are based on assumptions which are supported by objective data. However, the used forecasts are not indicative for future performance of securities or financial instrument. Erste Group, its affiliates, principals or employees may have a long or short position or may transact in the financial instrument(s) referred to herein or may trade in such financial instruments with other customers on a principal basis. Erste Group may act as a market maker in the financial instruments or companies discussed herein and may also perform or seek to perform investment services for those companies. Erste Group may act upon or use the information or conclusion contained in this publication before it is distributed to other persons. This publication is subject to the copyright of Erste Group and may not be copied, distributed or partially or in total provided or transmitted to unauthorized recipients. By accepting this publication, a recipient hereof agrees to be bound by the foregoing limitations.

© Erste Group Bank AG 2018. All rights reserved.

Published by:

Erste Group Bank AG
Group Research
1100 Vienna, Austria, Am Belvedere 1
Head Office: Wien
Commercial Register No: FN 33209m
Commercial Court of Vienna

Erste Group Homepage: www.erstegroup.com