## Market Comment | Surge in commodity prices supports rebound in financial markets

Global Financial Markets Unit 19 Apr 2016

BBVA Research

- Worse-than-expected macroeconomic data in the US. US housing starts moderated in March, increasing below expectations (by 1089K; consensus: 1166K; previous: 1194K), while building permits also rose by less than expected (by 1086K; consensus: 1200K; previous: 1177K).
- Mixed ZEW data in Europe. Euro zone ZEW survey expectations surged in April (to 21.5 points from 10.6). Nonetheless, the German ZEW showed a mixed performance, with the expectations index raising beating estimations (by 6.9 to 11.2; BBVAe: 7.3, consensus: 8.0), while the current situation index unexpectedly dropped (by 3.0 points to 47.7; BBVAe: 50.0, consensus: 50.8). The sharp increase in ZEW expectations could be underpinned by the green shoots in China, which improved the sentiment in financial markets.
- Fed's Rosengren insists that markets are too pessimistic about the Fed's tightening path. Eric Rosengren, Boston Fed President reiterated that the market is excessively pessimistic in expecting only one interest rate hike this year and another in 2017. Inflation is closer to the Fed's target of 2 percent.
- Positive mood in financial markets extended today, driven by the rebound in commodity prices. Although the Doha meeting ended without agreement on a freeze in production, oil prices enjoyed the positive market mood (Brent: +3.0% WTx: +3.7%), supporting the rebound in other commodity prices (Copper: +2.5% Natural Gas: +5.21% Silver: +4.5%) as well as other risky assets. The ongoing upward trend in oil prices was reinforced today by the Kuwait oil workers' strike - in reaction to public sector pay reform - which contributed to reducing - momentarily - the global oil supply. The depreciation of the USD also drove commodity prices upwards (repricing movement). The rebound in commodity prices, coupled with better-than-expected macroeconomic data, contributed to increased risk-taking in financial market, this mood especially benefiting EM currencies, which appreciated across the board against the US dollar (RUB: +0.8% BRL: +2.1% COP: +2.2% CLP: +0.9% MXN: +0.9%). The USD also weakened against the main developed country currencies with the exception of the Japanese Yen (EUR: +0.57% GBP: +0.83% CAD: 1.12% NOK: +1.30% JPY: -0.46%). The recent depreciation of the JPY, which is still at very high levels, gave a breath to the Nikkei index (+3.7%), which outperformed other developed country equity The European equity indices also rose, helped by better-than-expected confidence data indices. (Eurostoxx: +1.5% IBEX: +0.9% DAX: +2.2% CAC: +1.2%). On bond markets, the positive mood caused a mild increase in yields across the board (US 10Y and GER 10Y: +2 bps), while European peripheral yields showed a mixed performance with Portugal remaining unchanged (ITA 10Y: +6 bps SPA 10Y: +5 bps).

Update 17.3 CET 19 April, 2016 Table 1



(Current level and changes at daily, weekly, monthly and annual frequencies)
Debt markets (changes in bp) Developed Narioss V2 3 yr 0.76 (2)(17) (-28)
10 (10 (10 (10 (10 (10 (1)))))) 10 3 - μ <sup>-1</sup> (12 (2) (2) (2) (2) (2) 10 3 - μ <sup>-1</sup> (2) (2) (2) (2) (2) 10 3 - μ <sup>-1</sup> (2) (2) (2) (2) (2) 10 3 - μ <sup>-1</sup> (2) (2) (2) (2) (2) 10 - μ <sup>-1</sup> (2) (2) (2) (2) (2)
GER 2-yr -4,5 (0) (1) (-3) (-16) GER 5-yr -4,3 (6) (1) (-6) (-31) GER 10-yr 0,18 (2) (1) (-3) (-45)
Belgium 10-yr 0.57 (2) (0) (-4) (-40) France 10-yr 0.52 (2) (0) (-4) (-47)
Sequence 100 + 0.2 × 0.0 + 0.1 × 0.1     Sequence 100 + 0.0 × 0.0 × 0.0       Sequence 100 + 0.0 × 0.0 × 0.0 × 0.0     Sequence 100 + 0.0 × 0.0 × 0.0       Sequence 100 + 0.0 × 0.0 × 0.0 × 0.0 × 0.0 × 0.0     Sequence 100 + 0.0 × 0.0 × 0.0       Pressure 100 + 0.0 × 0.0 × 0.0 × 0.0 × 0.0 × 0.0 × 0.0     Sequence 100 + 0.0 × 0.0 × 0.0 × 0.0       Pressure 100 + 0.0 ×
[Integrity] (Markela Brand Holyn (256) (4) (41) (-123) (365) Drile Holyn (256) (4) (41) (-131) Colomba Holyn (256) (4) (41) (42) (42) Mexicon Dayn (256) (4) (41) (42) Mexicon Dayn (256) (4) (44) (45) (45)
Poland 16-yr 2,95 (-2) (1) (14) (1) Reeda 5-yr 95.27 (4) (-7) (23)(-4) Reeda 16-yr 97.15 (-7) (23)(-38) Tarkey 18-yr 9.89 (-4) (-37) (-74) (-138)
india 19yr 7,42 (0) (0) (-10) (-34) Indenesia 19yr 7,43 (-1) (4) (-23) (-132) Country risk (changes in bp)
Developed likriwite 19 yr awereiga spenada (agalot Gernary) Edgiun 30 (0 (-1) (-1) (5)
Composition
Netherlands 21 (0) (-2,8) (12) (6) Portugal 284 (-142,1) (22) (107) Spain 137 (4) (-1) (15) (23)
Appendix     The (F) (10) (MA)       Figure 10     (B) (F) (F) (F)       Figure 10     (C) (F) (F) (F)       Figure 10     (C) (F) (F) (F)       Figure 10     (C) (F) (F) (F)
Seeded wate ((()) (()) (()) Mada 33 (()) (() (()) May 74 () (0) ((1) (0) Mathematical 2- (() (-1) (-1)
Portagal (256 (-1) (-31) (24) (125) Spain 76 (5) (6) ((11) (5) 2-yr sovereigin spirada (sgalrad Gerrany)
Belgium 4 (0) (0) (-1) (0) France 4 (0) (-7) (-7) (-7) Instead 9 (2) (-7) (-7) (-7) Instead 9 (2) (-7) (-7) (-7) Instead 9 (2) (-7) (-7) (-7) (-7) (-7) (-7) (-7) (-7
$\label{eq:2.1} \begin{array}{l} \frac{1}{2} e^{-1} \cos(2\pi i g \sin(2\pi i - 2g \sin(2\pi i -$
Los company: G13       Los Collegaria: G10: G10: G10: G10: G10: G10: G10: G10
S-yr COS Germany 18 (9) (9) (1) (6) S-yr COS Germany 18 (9) (9) (1) (6) S-yr COS Resend (97 (1) (2) (5) (27) S-yr COS Resend (97 (1) (2) (5) (27) S-yr COS Resend (97 (1) (2) (5) (27)
Syr CDS Netherlands 22 (2)(2) (4) (12) Syr CDS Partigal 28 (4)(4)(18)(191) Syr CDS Spain. 94 (4)(2) (10) (6)
Set Sector Start 32 (4)(43)(47)(45)       Set CTS Set 32 (4)(43)(47)(45)       Set CTS Set 32 (4)(43)(47)(45)       Set CTS Set 32 (4)(43)(47)(47)       Set CTS Set 32 (4)(43)(44)(41)(41)       Set CTS Set 32 (4)(44)(41)(41)       Set CTS Set 32 (4)(45)(41)(41)(41)       Set CTS Set 32 (4)(45)(41)(41)(42)(41)(42)(42)(42)(42)(42)(42)(42)(42)(42)(42
-эут цээ нехной 156 (-3) (-14) (5) (-14) 5ут (CB F war 122 (-3) (-16) (11) (-33) 5ут (CB Venezuela 5715 (134) (-434) (213) (-328)
5.yr CDS Poland86 (-1) (-2(-1)) (-4) 5.yr CDS Roada 256 (-9) (-26) (-1) (-4) 5.yr CDS Roada 256 (-9) (-26) (-1) (-4) 5.yr CDS Roada 256 (-6) (-2) (-5) (-3)
5-pr CDS China 119 (2) (4) (0) (11) 5-pr CDS india 119 (0) (4) (0) (17) 5-pr CDS indiaes (19) (2) (3) (17) (28)
C and a TWN (bulky) A parameter as events for 24.4 generatic, bo) (VII.344.6.3) (VII.344.6) UII.344.6.3) (VII.344.6) UII.344.6.3) (VII.344.6) UII.344.6) (VII.344.6) UIII
Croft speed (BAA) 255 4 (2) (4)(-15,8) (28) US bonds visibility index 66 (0) (4) (7) (2)
Bank risk (zhenges in ba) 16 banks CDS 85 (3) (41) (3) (10) EUL banks CDS 84 (3) (45) (40) (23) UK banks CDS 119 (2) (41) (5) (42)
Large Spanish banks CDS 120 (-4) (-15) (8) (-17) Medum Spanish banks CDS 197 (9) (-14) (5) (59)
Greek banks CDS 1657 (20) (26) (-50) (55) Russian banks CDS 352 (2) (-7) (-5) (0) Company Re (dir) (-famous in the cost
Corporate risk (changes in dps) 15 Mas-hannois (CS 239 (f) (-052) (211) (-143) EUL Mon-Menaciol (CDS 119 (-2) (-15) (-11) (48) UK Man-hancial (CDS 119 (-2) (-12) (-6) (-11)
[nterbank markets (changes in bp) UEW 05 spreed bm 10 (0)(5)(-1)(-1) UEW 05 spreed bm 30 (0)(-1) (0) (0) UEW πD spreed bm 35 (0) (0, 5)(5)(-6) UEW πD spreed bm 35 (0) (0, 5)(5)(-6)
UE HI TED spread 3m 35 (分) (小) (小) UE DE spread 3m 35 (分) (分) (小) UE DE spread 12m 73 (2) (小) (力) (丁) UE DE spread 12m 73 (2) (小) (力) (丁)
Spain Ted Spread 3m 0 (2) (4,3) (3) (4)
EOMA Index -4,35 (0) (-6,7) (0) (-22) Eurobor 3m -6,25 (0) (-6,7) (-2) (-2) Eurobor 12m -6,01 (0) (0) (-1) (-7)
Liber 3m 0,63 (0) (0) (1) (2) Liber 12m 1,22 (0) (1) (1) (4)
Stock mankets (Changes in percentage) (Intrinsed Status) Main equity indices Series 2006 (2011) (91(25)(0))
Dow.Lones. 1903.1.5 (3) (3) (2) (2) (5) (4) Mikel 10374 (47) (5) (5) (5) (4) FTSE 100 6405 (2) (5) (2) (2) (5) (2)
Ban media media       Ban media media       Ban media media       Ban media
MB 19427,2 (0,4) (5,6) (-1) (-14) ABE Attens \$76,9 (0,8) (4,6) (5,5) (-8) Bank stocks
Data     Strate     S.S.G. (18) (7.3) (7.4) (7.4) (7.4)       JPM     C3.3 (7.4) (7.4) (7.4) (7.4)     JPM       JPM     C3.4 (7.4) (7.4) (7.4)     JPM       JPM     C3.4 (7.4) (7.4) (7.4)     JPM       JPM     C3.4 (7.4) (7.4) (7.4) (7.4)     JPM
MS 28.2 (1.9)(67.1 (4.2)(4.6) GS 192.1 (1.9)(5)(2.9)(-10) III hanks 17.6 (5.16.7)(6.7)(4.6)
$ \begin{array}{llllllllllllllllllllllllllllllllllll$
Lanyan er (ar (4,20) (1,6) (4,20) (7) ENU bensk 8 d.8 (4,6) (82) (4,2) (20) ENU 455 (4,6) (6,5) (6,5) (4,5) (-13)
$ \begin{array}{l} \label{eq:constraint} \begin{tabular}{lllllllllllllllllllllllllllllllllll$
50 342 (4.1) (6.2) (4.4) (5.6) Velocedio 1.3 (4.7) (9.5) (-18.5) (-36) Unionedio 1.3 (4.7) (9.5) (-18.5) (-36)
Large Spanish tanks (7.9 (0,7) (0,5) (4,6) (-10) Sontander (4,2 (0,5)) ((0,4) (-2,8) (4)) SB VA 6 ((5), (6) (-6))
$\label{eq:response} \begin{array}{l} \text{Median Spansin barks, $72,2(-1,3)$}(7,4)(-5,5)(+2)\\ \text{Constants, $2,7,6(-1,1)$}(-5,4)(-5)\\ \text{Constants, $2,7,6(-1,1)$}(-5,4)(-5)\\ \text{Ended} $1,6(-5,4)(-2)(-5,4)(-6)\\ \text{Barkster, $4,6(-1,1)$}(-5,1)(-2)\\ Barkster, $4,6$
Banking 7, 4 (4, 1) (4, 5) (-1, 1) (2) Bankin 0, 7, (-4, 2) (6) (-9, 2) (-22) Ganki bank, 2 (-4, 1) (5, 5) (-4, 5) (-25)
Genet. banks: 3,4 (-4,1) (5,5) (4,8) (-35) Alpha Bank3,2 (-1) (10,4) (16,4) (-23) Piezen Bank3,2 (2) (13,2) (3,67), (-4) National Central Bank3,2 (13,1) (-53) (-43), (-23) Evolution (Equination (-24), (-24), (-23))
Europant Ergemanu, (c) (c,5) (c,5) (c0) Enroging Markets Main equity indices Main equity indices
Boweppa (Brazil) 53912 (1,9) (3,7) (5,1) (24,4) Mexhol: 45555 (1,4) (1,3) (0,4) (5,3)
MSCIEN E unspe 4086 (4,3) (0,8) (1,5) (8,2) Polant 1066 (1) (3) (0,1) (3,7) Micro (Russia) 102 (1,8) (1,3) (8,3) Micro (Russia) 102 (1,8) (1,3) (8,3) Be 100 (Turkey) 88251 (4,1) (3) (4, (0,2)
MSCIE M. (Henney) Maaal (40, (1),(1),(4), (20, 2), MSCIE M. (2009) (1,22), (2,5), (1,3), Strengthal Composite (Indian SH4), (3), (8), (5), (1,4), Jakanta Composite (Indianesia), 4882 (0,3), (1,1), (4,1), (6)
[Nark decisis Mathematics A.S. 97 (42,17) (627) (241) Alabanatics A.S. 97 (42,217) (53,0) (26,7) General (9,0,0) (73,01 (54,9) (27,7) Tarkhyne In Banksani S (4,0,6) (64,0) (1,0, (0))
Rumaian bardus (65 (1, 2) (1) (3) (5, 8) Skontank (23 (2, 5) (2, 7) (7, 5) (10, 0) VIT Skats (1, 4) (2, 1) (2, 1, 2) (4) (-7, 9)
Currencies (in percentage, positive for dollar depreciation)
GBPUSD 1,44 (0,83) (0,85) (-0,5) (-2,3)
EURIDBD 1, 138 (0,57) (4,46) (0,9) (4,7) GBPUBD 1, 144 (0,85) (6,85) (4,5) (4,5) GDUPT 91832 (4,46) (4,72) (2) (9,1) D00' 91,86 (0,5) (6) (1,2) (4,7)
Immutual Meeting     1     0.21(2.2)(4.6)(4.7)       Media Generational Actional State St
Constant
Instabil Person (1 + 2 - 20 - 20 - 40 - 40 - 1) Instabil Person (1 + 2 - 20 - 20 - 40 - 4) Instability Person (1 - 20 - 20 - 4) Instability Person (1 - 20 -
Instabil Person (1 + 2 - 20 - 20 - 40 - 40 - 1) Instabil Person (1 + 2 - 20 - 20 - 40 - 4) Instability Person (1 - 20 - 20 - 4) Instability Person (1 - 20 -
Instabil Person (1 + 2 - 20 - 20 - 40 - 40 - 1) Instabil Person (1 + 2 - 20 - 20 - 40 - 4) Instability Person (1 - 20 - 20 - 4) Instability Person (1 - 20 -
Constant





(Current level and changes at daily, weekly, monthly and annual frequencies)	
Debt markets     (changes in bp)       Convergest Markets     22 - 90 (28 (2)(21) - 12)       UE S-yr (18 (2)(21) - 12)     UE S-yr (18 (2)(21) - 12)       UE S-yr (18 (2)(21) - 12)     UE S-yr (18 (2)(21) - 12)       UE S-yr (18 (2)(21) - 12)     UE S-yr (18 (2)(21) - 12)	-
Japan 10-yr 4,12 (-1) (-2) (-3) (-39)	
0ER 2-yr - 0,5 (0) (1) (-3) (-16) 0ER 3-yr - 0,5 (0) (1) (-6) (-31) 0ER 10-yr - 0,16 (2) (1) (-3) (-45) Perform 10-ar - (2) (1) (-(4) (-45)	
Beigen 19-yr 6.21 (2) (6) (-4) (-4) fraes 39-yr (2) (2) (0) (-4) (-4) fraes 39-yr (2) (2) (2) (-4) Hend 19-yr 247 (1) (2) (7) Hey 19-yr (-4) (0) (0) (-10) Hey 19-yr (-4) (0) (0) (-4) Bean 19-yr 155 (0) (0) (2) (-2) Bean 19-yr 155 (0) (0) (2) (-2)	
Energy Multicles Bandi 15yr 123 (c) (c) (c1) (-123) (c36) Drile 15yr 433 (c) (c) (c) (c) (c) (c) Ecolomia 15yr 423 (c) (c) (c) (c) (c) (c) Mexicon 10yr 53.0 (c) (c) (c) (c) (c) Mexicon 10yr 53.0 (c) (c) (c) (c) (c) Pana 15yr 63.2 (c) (c) (c) (c) (c)	
Potend 19-yr 2,95 (2) (1) (14) (1) Russis 9/yr 2,77 (6) (7) (23) (41) Russis 19-yr 3,77 (6) (7) (23) (6) Turkey 10-yr 9,89 (4) (37) (27) (-138)	
India 10-yr 7,42 (0) (0) (-(0) (-34) Indonesia 10-yr 7,43 (-1) (4) (-42) (-332) <u>C ountry risk (changes in bp)</u>	_
Constantinue	
Enter     Tel (v(1)) (tr))       Bergin T (1) (tr) (tr))     Tel (tr) (tr))       Bergin T (1) (tr))     Tel (tr))       Bergin T (tr) (tr))     Tel (tr))       Bergin T (tr))     Tel (tr))	
2 ye covering warned (Agalist Generary) 2 ye covering a warned (Agalist Generary) 1 ward 90 (x12) (x12) 1 ward 90 (x12) (x10) 1 ward 90 (x12) (x10) 1 warned 91 (x12) (x10) 1 warned 91 (x12) (x12) 2 warn 47 (x12) (x12) 2 warn 47 (x12) (x12) 2 warn 47 (x12) (x12) 2 warned 91 (x12) (x12)	
Exercise Control (C)	
Spr:03 Personality (1)(2) (0)(1)     Spr:03 Personality (1)(2)(3)(1)(1)       Spr:03 Personality 2013 (0)(2)(2)(3)(3)     Spr:03 Tensorality (2)(4)(1)(1)       Spr:03 Tensorality (2)(4)(1)(1)     Spr:03 Tensorality (2)(4)(1)(1)       Spr:03 Tensorality (2)(4)(1)(1)(1)     Spr:03 Tensorality (2)(4)(1)(1)(1)	_
L radia L Rais (n 24 km) Paperpelin generating models for BAA spreads, 6(i) (interpelint 21 km) (interpelint 24 km) (interpel	
Noni Add Spreaders H Add)       Starter SCB # 5(-5) (+5) (+1) (+1) (+1)       EVB Adds SCD 1990 (-1) (+1) (+1) (+1)       EVB Adds SCD 1990 (-1) (+1) (+1)       Lines SCB 1990 (-1) (+1) (+1)       Lines SCB 1990 (-1) (+1) (+1)       Lines SCB 1990 (-1) (+1) (+1)       Maximum Spanni Hadds CS 35 (+1) (+1) (+1)       Owner Hank CS 35 (+1) (+1) (+1) (+1)       Maximum Spanni Hadds CS 35 (+1) (+1) (+1) (+1)       Maximum Hadds CS 35 (+1) (+1) (+1) (+1)       Maximum Hadds CS 35 (+1) (+1) (+1) (+1)	
Reven team (20 20 (c) (-1,6)) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c)	_
US 015 spread 3m 25 (0) (0) (1) (2) US 005 spread 3m 73 (2(-1)) (0) (17) US TLD spandol 3m 4 (-1) (2) (9) (2) Spain Ted Spread 3m 8 (2) (40, 3) (3) (4)	
Coll-A line(A, 2)(B)(A, (T)(A)(2))       Enter Ent A, 2(B)(B)(A)(2)       Enter Ent A, 2(B)(B)(A)(2)       Line(T) Enter Ent(B)(B)(B)(A)       Line(T) Enter	_
Control     Control       Control     <	-
10年 (Anites A Byl 7) (3) (3) (3) (4) 19年 (43) (7) (3) (4) 19年 (43) (7) (3) (4) 19年 (43) (7) (4) 19年 (43) (7) (4) 19年 (43) (4) 19 (5) 19 (4) 19 (5) 19 (	
$\label{eq:constraint} \begin{array}{l} (k \mbox{ trans} 2 \mbox{ trans} $	
Tay Uses AS, 6, 6, 6, 7, 4, 4, 2, 600       Deal Agents AS, 6, 6, 6, 7, 4, 4, 2, 600       Deal Agents AS, 6, 6, 6, 7, 4, 4, 2, 600       Deal Agents AS, 6, 6, 7, 4, 4, 2, 600       Deal Agents AS, 6, 7, 8, 7, 4, 6, 4, 6, 100       Deal Agents AS, 6, 7, 8, 7, 4, 6, 4, 6, 100       Deal Agents AS, 6, 7, 8,	
Medium Speanink banka 72,2 (-1 3) (7,4) (-5,1) (-12) Constantar 2,6 (7,4) (4,62) (-10) Popular 2,4 (-1,1) (6,4) (-6,8) (-20) Sabadel 11,4 (-6,8) (-27) (-5,8) (-0) Benkitter 4,5 (-4,1) (-(5,1) (-1,1) (-2) Benkitter 4,5 (-4,1) (-(5,1) (-2) Benkitter 4,5 (-2,1) (-(5,1) (-2) Benkitter 4,5 (-(5,1) (-2)) Benkitter 4,5 (-(5,1) (-2))	
Oeek banks, 3, 4, 5, 1, 6(3), (4, 3), (25)       Apple bank, 3, 6, 1, 1, 0, 0, 0, 4, (2)       Pinus Bank, 2, 0, 1, 1, 0, 1, 0, 0, 1,	
Ling (g) (1950) MSC Latan 67493 (472) (3) (2) (13.8) Bergag (Berg/1921 (2) (3) (7) (5.1) (24.4) Merchal 45053 (1.4) (1.3) (9.4) (5.3)	
9501010700000000000000000000000000000000	
Data     Balance     B	
Vite Bank x1 (42)(42)(42)(72)       Currencies (in proceedings, poolw for dollar dispreciation)       Interaction (in proceedings)       Vite Bank x1 (42)(42)(42)(42)(42)(42)(42)(42)(42)(42)	-
Include: The second secon	
Commodifier     (#high optical)       With 47 (#high (high optical)     (#high optical)       Ball Color (#high optical)     (#high optical)	
Source Biomberg, Determent and Hever	-



\*CDS, EMBI & MSCI indices with one day delay \*\*Credit spread (BAA) with two days delay \*\*\*S&P GSCI with one day delay

## DISCLAIMER

This document and the information, opinions, estimates and recommendations expressed herein, have been prepared by Banco Bilbao Vizcaya Argentaria, S.A. (hereinafter called "BBVA") to provide its customers with general information regarding the date of issue of the report and are subject to changes without prior notice. BBVA is not liable for giving notice of such changes or for updating the contents hereof.

This document and its contents do not constitute an offer, invitation or solicitation to purchase or subscribe to any securities or other instruments, or to undertake or divest investments. Neither shall this document nor its contents form the basis of any contract, commitment or decision of any kind.

Investors who have access to this document should be aware that the securities, instruments or investments to which it refers may not be appropriate for them due to their specific investment goals, financial positions or risk profiles, as these have not been taken into account to prepare this report. Therefore, investors should make their own investment decisions considering the said circumstances and obtaining such specialized advice as may be necessary. The contents of this document are based upon information available to the public that has been obtained from sources considered to be reliable. However, such information has not been independently verified by BBVA and therefore no warranty, either express or implicit, is given regarding its accuracy, integrity or correctness. BBVA accepts no liability of any type for any direct or indirect losses arising from the use of the document or its contents. Investors should note that the past performance of securities or instruments or the historical results of investments do not guarantee future performance.

The market prices of securities or instruments or the results of investments could fluctuate against the interests of investors. Investors should be aware that they could even face a loss of their investment. Transactions in futures, options and securities or high-yield securities can involve high risks and are not appropriate for every investor. Indeed, in the case of some investments, the potential losses may exceed the amount of investment and, in such circumstances; investors may be required to pay more money to support those losses. Thus, before undertaking any transaction with these instruments, investors should be aware of their operation, as well as the rights, liabilities and risks implied by the same and the underlying stocks. Investors should also be aware that secondary markets for the said instruments may be limited or even not exist.

BBVA or any of its affiliates, as well as their respective executives and employees, may have a position in any of the securities or instruments referred to, directly or indirectly, in this document, or in any other related thereto; they may trade for their own account or for third-party account in those securities, provide consulting or other services to the issuer of the aforementioned securities or instruments or to companies related thereto or to their shareholders, executives or employees, or may have interests or perform transactions in those securities or instruments before or after the publication of this report, to the extent permitted by the applicable law.

BBVA or any of its affiliates' salespeople, traders, and other professionals may provide oral or written market commentary or trading strategies to its clients that reflect opinions that are contrary to the opinions expressed herein. Furthermore, BBVA or any of its affiliates' proprietary trading and investing businesses may make investment decisions that are inconsistent with the recommendations expressed herein. No part of this document may be (i) copied, photocopied or duplicated by any other form or means (ii) redistributed or (iii) quoted, without the prior written consent of BBVA. No part of this report may be copied, conveyed, distributed or furnished to any person or entity in any country (or persons or entities in the same) in which its distribution is prohibited by law. Failure to comply with these restrictions may breach the laws of the relevant jurisdiction.

In the United Kingdom, this document is directed only at persons who (i) have professional experience in matters relating to investments falling within article 19(5) of the financial services and markets act 2000 (financial promotion) order 2005 (as amended, the "financial promotion order"), (ii) are persons falling within article 49(2) (a) to (d) ("high net worth companies, unincorporated associations, etc.") Of the financial promotion order, or (iii) are persons to whom an invitation or inducement to engage in investment activity (within the meaning of section 21 of the financial services and markets act 2000) may otherwise lawfully be communicated (all such persons together being referred to as "relevant persons"). This document is directed only at relevant persons and must not be acted on or relied on by persons who are not relevant persons. Any investment or investment activity to which this document relates is available only to relevant persons and will be engaged in only with relevant persons. The remuneration system concerning the analyst/s author/s of this report is based on multiple criteria, including the revenues obtained by BBVA and, indirectly, the results of BBVA Group in the fiscal year, which, in turn, include the results generated by the investment banking business; nevertheless, they do not receive any remuneration based on revenues from any specific transaction in investment banking.

BBVA is not a member of the FINRA and is not subject to the rules of disclosure affecting such members.

"BBVA is subject to the BBVA Group Code of Conduct for Security Market Operations which, among other regulations, includes rules to

## BBVA Research

prevent and avoid conflicts of interests with the ratings given, including information barriers. The BBVA Group Code of Conduct for Security Market Operations is available for reference at the following web site: www.bbva.com / Corporate Governance".

BBVA is a bank supervised by the Bank of Spain and by Spain's Stock Exchange Commission (CNMV), registered with the Bank of Spain with number 0182.