

## Euro Economics Weekly

### Some Deserved Fiscal Leeway for Portugal

- Portugal negotiated an extension of its deficit targets this week and it is also likely to get a maturity lengthening of its bailout loans together with Ireland in coming weeks. Portugal has shown a remarkable commitment towards its bailout programme, delivering sizable fiscal consolidation efforts so far. However, these have not translated into equally-sized declines in the fiscal deficit (still at 6% of GDP in 2012), due to underperforming tax revenues.
- A higher fiscal deficit profile will add to a debt-to-GDP ratio, which has probably already exceeded the 120% mark at the end of last year. Persistent weakness in GDP (real and nominal) due to the ongoing deleveraging process and risks of new contingent liabilities being recorded in the government balance sheet still leave concerns about the sustainability of Portuguese public debt, about half of which is now in official hands (Giada Giani, see page 2).

Figure 1. Citi Market Forecasts

|      | \$/€ | Euro Repo | 10-yr Bunds | £/€  | U.K. Bank Rate | 10-yr Gilt-Bund | \$/¥ | SEK Policy Rate | NOK/€ | NOK Policy Rate | SFr/€ | CHF Policy Rate | CHF Spread vs Bunds |
|------|------|-----------|-------------|------|----------------|-----------------|------|-----------------|-------|-----------------|-------|-----------------|---------------------|
| 2Q13 | 1.33 | 0.50      | 1.40        | 0.87 | 0.50           | 71              | 8.36 | 1.00            | 7.33  | 1.50            | 1.25  | 0.00            | -78                 |
| 1Q14 | 1.31 | 0.25      | 1.35        | 0.88 | 0.50           | 96              | 8.44 | 0.75            | 7.29  | 1.75            | 1.26  | 0.00            | -86                 |

Source: Citi Research

**Jürgen Michels**

+44-20-7986-3294

juergen.michels@citi.com

**Giada Giani**

+44-20-7986-3281

giada.giani@citi.com

**Guillaume Menuet**

+44-20-7986-1314

guillaume.menuet@citi.com

**Michael Saunders**

+44-20-7986-3299

michael.saunders@citi.com

**Ebrahim Rahbari**

+44-20-7986-6522

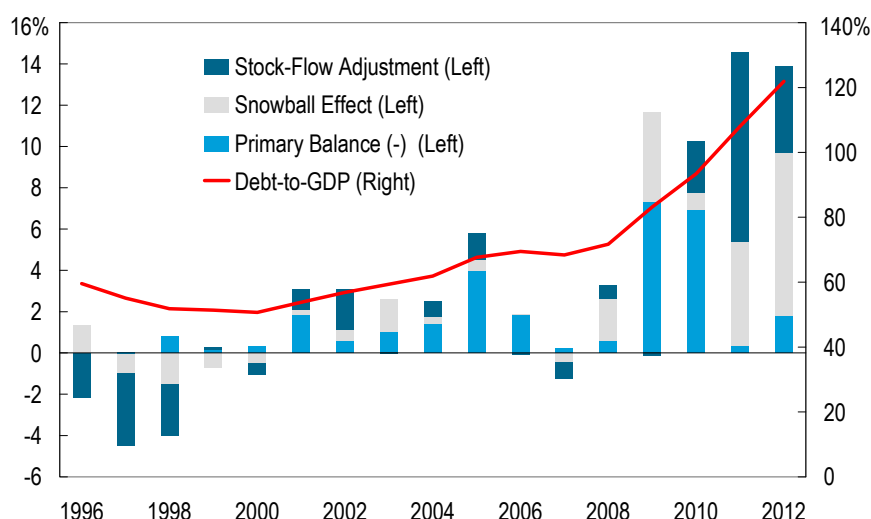
ebrahim.rahbari@citi.com

**Ann O'Kelly**

+44-20-7986-3297

ann.okelly@citi.com

Figure 2. Portugal – Decomposition of Public Debt Accumulation (pp of GDP), 1996-2012F



Sources: EU Commission, IMF and Citi Research

For all distribution enquiries regarding Citi Economics research, including access via Citi websites and via third party distribution channels, please contact [michael.saunders@citi.com](mailto:michael.saunders@citi.com) or [jan.maguire@citi.com](mailto:jan.maguire@citi.com)

See Appendix A-1 for Analyst Certification, Important Disclosures and non-US research analyst disclosures.

Citi Research is a division of Citigroup Global Markets Inc. (the "Firm"), which does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that the Firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

## Some Deserved Fiscal Leeway for Portugal

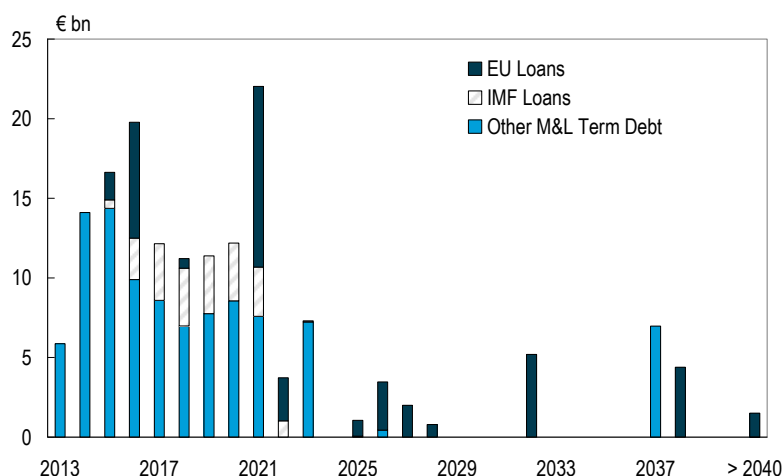
**Portugal won some deficit targets relaxation this week, amid a worsening growth outlook**

With the economic situation somewhat gloomier than was generally expected a few months ago — GDP down by 1.8.% QQ and unemployment up to 16.9% in Q4 12 — and with rising discontent against the austerity-centered adjustment programme, Portugal is asking for some softening of its bailout terms. Together with Ireland, it is calling for a smoother and back-loaded principal repayment profile of the EFSF/EFSM loans and perhaps a reduction in the interest rate charged, similar to the concessions made to Greece in December. In addition, the Portuguese government (one of many in the eurozone) obtained an extra year (until 2015) to meet its budget deficit target of 3% of GDP. Given the more flexible stance adopted by European creditors on compliant debtor countries, Portugal is looking well-placed to obtain these concessions. However, with growth unlikely to pick up soon and a private sector deleveraging process still well away from completion, we think the sustainability of Portuguese public debt remains questionable.

**Portugal faces two refinancing humps on official loans in 2016 and 2021...**

The Portuguese aid package agreed in May 2011 amounted to €78bn of loans equally divided between IMF, EU Commission (EC) funding facility (EFSM) and EFSF. The original 7.5 years average maturity of the European loans has already been extended once and currently stands at 12.4 years on EFSM loans and 14.4 years on EFSF loans. The IMF loans still have an average maturity of 7.3 years (see Figure 3). Despite a reasonably long average maturity, the redemption profile of the European loans shows two major humps, one in 2016 (€7.3bn of which €2.5bn to the EFSF) and another in 2021 (€11.35bn, of which €4.6bn to the EFSF).

**Figure 3. Portugal – Government Debt Redemption Profile (€bn)**



Sources: Portugal Debt Management Office (IGCP) and Citi Research

**...which are likely to be smoother out by a likely maturity extension granted on official EFSF/EFSM loans**

The Portuguese government, alongside Ireland, had hinted at a possible extension of all loan maturities by 15 years, but recent statements have suggested a more likely scenario would be a postponement of the shortest maturities, aimed at smoothing the redemption profile of the next decade. The extension for EFSF and EFSM loans will require the approval of the Eurogroup (euro area finance ministers) and the Ecofin (EU 27 finance ministers), respectively. Given that no additional funding is involved in the decision and given that the Portuguese government remains committed to the aid programme, we think Portugal will likely see its request approved. Also, note that Greece has already obtained an even longer extension of its maturities just a few months ago. Spreading evenly the redemption of the loans maturing in 2016 and 2021 beyond 2022 — when refinancing needs drop significantly — looks to us a likely outcome.

**Interest rate reduction on official loans less likely to occur**

On the other hand, a further reduction in the cost of funding seems less likely. The overall cost of debt on the EFSF/EFSM loans — at around 3% — is already incorporating effectively no surcharges on top of the funding costs for the EFSF and EFSM themselves (see Figure 4). Also, the average cost is already well below Portugal's current average cost of debt (just below 4% in 2012). This means that, even if left unchanged, the current interest rate charges will contribute to reducing the average cost of debt in the next few years (official EFSF/EFSM loans at present account for about 20% of total public debt).

**Figure 4. Portugal – Bailout Loans**

|              | Nominal Value Of Loan (€Bn) | All In Cost  | Average Maturity |
|--------------|-----------------------------|--------------|------------------|
| EFSM         | 22.1                        | 3.00%        | 12.4             |
| EFSF         | 20.3                        | 3.00%        | 14.4             |
| IMF          | 22.2                        | 3.90%        | 7.3              |
| <b>Total</b> | <b>64.5</b>                 | <b>3.30%</b> | <b>11.2</b>      |

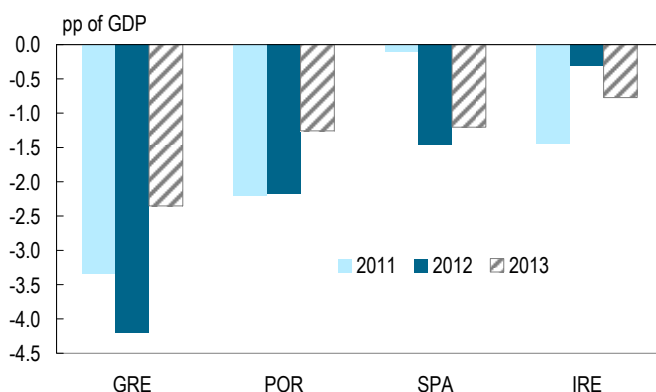
Sources: Portugal Debt Management Office (IGCP) and Citi Research

Portugal this week also won new concessions in terms of fiscal targets, in the form of an extra year to meet the 3% deficit-to-GDP target. EU Commission President Barroso argued this week that any budget deviation from the targets was mostly due to weaker growth around Europe rather than a lack of fiscal consolidation efforts from Portugal. As we argued last week<sup>1</sup>, Portugal will be just one of several eurozone members requesting (and probably obtaining) one extra year to bring the deficit ratio below 3% of GDP, starting from a deficit of 6% in 2012. Under the old assumptions, Portugal was expected to meet the 3% target by 2014 compared to Ireland's 2015 deadline. Now the deficit targets have been revised upwards to 5.5% in 2013 (from 4.5% previously), 4.0% for 2014 (from the previous target of 2.5%) and 2.5% in 2015 (from 2.0% previously). Note that in the initial bailout programme in 2011, Portugal was expected to bring down its budget deficit ratio to 3% by 2013.

**Fiscal consolidation efforts in Portugal have been significant so far**

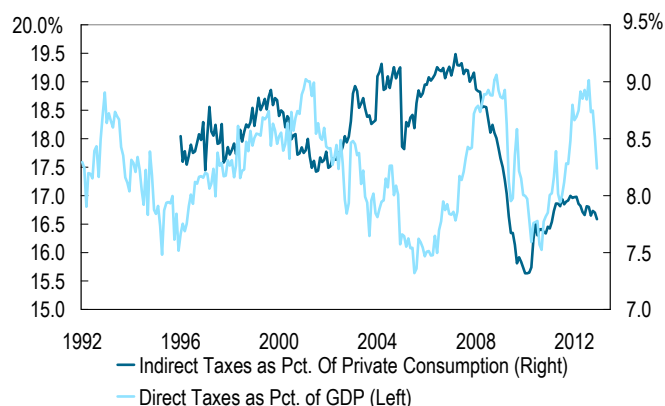
Arguments in favour of some leeway on fiscal austerity for Portugal are plentiful. Since the inception of the programme, the Portuguese government has already delivered an outstanding improvement in the structural budget deficit worth 4.5-5.0pp of GDP — and an even larger improvement of about 6pp for the primary structural balance. An additional 1¼-to-1¾ pp of GDP reduction in the structural deficit is expected in 2013 (see Figure 5). Moreover, the narrowing in the structural deficit has been achieved by adopting even larger fiscal consolidation measures — about 4.3pp of GDP in 2011 and 6pp in 2012, according to EC estimates. The 2013 Budget envisages additional deficit-cutting measures of close to 4pp of GDP in 2013, while the agreement reached with the troika over 2013-15 envisages additional spending cuts for 2.4% of GDP (€4bn). To add to the list of achievements, Portugal is on track with its privatisation target (€5bn or 3% of GDP by the end of the programme).

**Figure 5. Selected Euro Area Countries – Change in the Structural Fiscal Deficit (pp of GDP), 2011-2013F**



Sources: EU Commission Winter Forecasts and Citi Research

**Figure 6. Portugal – Tax Revenues, 1992-2012**



Sources: Bank of Portugal and Citi Research

<sup>1</sup> See "Euro Economics Weekly: Fiscal Compact: A Structural Straight-Jacket", 8 March 2013, Citi

**Headline deficit targets have been missed (net of one off measures) because of weaker tax revenues**

Yet, despite these efforts headline deficit targets were missed both in 2011 and in 2012 (if one excludes the one-off measure worth 3.5pp of GDP from the transfer in 2011 of banks' pension funds to the public social security system). Portugal has been one of the clearest examples of how fiscal austerity has failed to yield the expected budget improvements as the economic recession (which largely matched initial expectations) has had a much larger-than-expected negative impact on tax revenues and boosted social security spending. A shift in the composition of GDP growth away from tax-rich domestic demand towards exports and the reduction in personal income with the move towards lower tax brackets have generated a weaker-than-projected tax performance. In fact, to account for this the IMF has recently increased the fiscal multiplier used in its forecasts for Portugal from 0.5 to 0.8<sup>2</sup>.

**Revenue growth has decelerated further in recent months**

The weakness in tax revenues has become even more pronounced in the second half of 2012: direct taxes were down by 9.5% YY on average in 2012, but fell by 16% YY in H2 12, probably reflecting renewed deterioration in domestic demand (which contracted by 2.5% QQ in Q4 12) (see Figure 6). The weakness is likely to extend into 2013 as we think domestic demand weakness will persist, suggesting that achieving the previous deficit target of 4.5% of GDP would have required sizable additional fiscal tightening.

**Rising unemployment makes additional austerity much less acceptable**

In addition to deficit over-shoots, the recession has produced a much bigger deterioration in the labour market than previously anticipated. In autumn 2011 the EU Commission estimated the unemployment rate would peak in Portugal at 13.7% in 2013, while recent data show it has risen to 16.9% already at the end of 2012 and probably remains on an upward path. The acceleration in the pace of job losses is probably a major reason behind voters' increasing discontent with the government's austerity strategy. Additional austerity could back-fire in that it may further undermine the still-relatively supportive political environment towards the adjustment programme seen so far in Portugal.

**What would these changes do to Portugal's public debt sustainability?**

**Higher deficits will probably be financed still via official external assistance**

The extension of the loan maturities — *de facto* a form of OSI — will reduce liquidity risks and the NPV of the debt, but will leave unchanged its face value. In contrast, the larger budget deficit figures — anticipated by 1.0pp in 2012, 1.0pp in 2013, 1.5pp in 2014 and 0.5pp in 2015 — will push the debt ratio higher by some 5pp of GDP by 2015 (even taking into account some less negative growth developments). The financing of the extra deficit should be covered by the fact that Portugal will receive financial assistance under the current programme until mid-2014 and, if necessary, it should also be able to access additional external help (perhaps in the form of a precautionary credit line) thereafter.

**Higher fiscal deficits are pushing an already-high debt-to-GDP ratio well above the 120% threshold**

While an increase in the debt ratio by 5pp hardly changes the medium-term fiscal sustainability outlook, the Portuguese public debt ratio has already jumped by 14.5pp of GDP in 2011 and probably by another 13-14pp in 2012, getting above the 120% threshold (probably around 122% of GDP). Similarly to other eurozone countries (eg. Italy), the key driver behind this increase has not been a large fiscal deficit, but rather (a) negative GDP growth (i.e., negative "snowball effect" – capturing the gap between nominal GDP growth and average cost of debt) and (b) large "stock-flow" adjustments. Debt-increasing flows due to government financial support to domestic banks and, in the case of Portugal, to the recognition of

<sup>2</sup> See IMF "Portugal: Fifth Review Under the Extended Arrangement", Country Report No 12/292, October 2012.

**2013 GDP growth has been revised down for the second time in two months, to -2.3%**

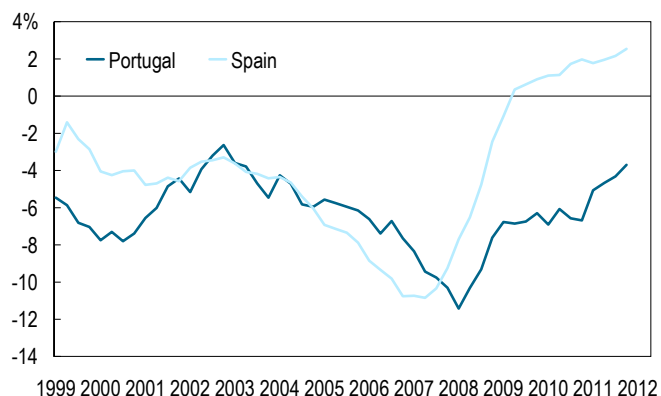
government's contingent liabilities have been the main drivers behind the rise in the debt ratio in the past couple of years (see Figure 2 on the front page).

We think these factors will continue to be the main risks for public debt sustainability in Portugal. This week, at the end of the troika negotiations, the government has announced a new downward revision in its 2013 real GDP forecast to -2.3%, from -1.9%, just revised lower from -1.0% in January. The new revision takes into account the much weaker-than-expected GDP result in Q4 12 (-1.8% QQ), and an even weaker result for final domestic demand (-2.5% QQ). Moreover, negative wage growth and shrinking profits mean that the GDP deflator has now moved into negative territory (-0.4% YY in Q4 12), implying that nominal GDP is falling even faster than real GDP. Despite the relatively low cost of debt, the snowball effect in the debt dynamic calculation is likely to continue pushing the debt ratio significantly higher both in 2013 and in 2014.

**Corporate sector deleveraging still has a long way to go**

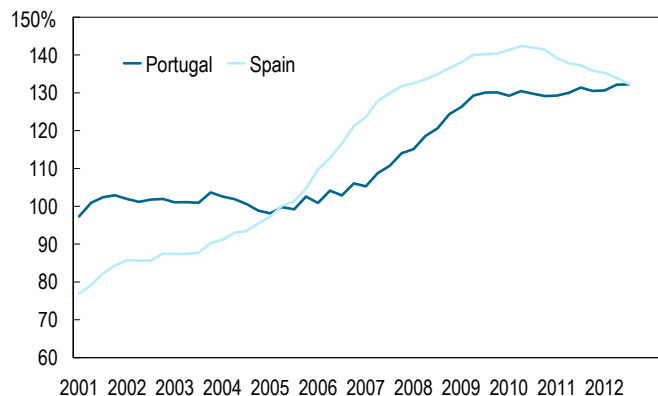
The huge task of deleveraging the private sector — the corporate sector is the most indebted part of the economy — will weigh heavily on Portugal's economic prospects for the next few years. The financial balance of the corporate sector remains well in deficit (4% of GDP in the four quarters ending in Q3 12), as opposed to a surplus of 2.5% of GDP in Spain (see Figure 7). As a result, the debt of non-financial corporations as a percentage of GDP is still rising in Portugal, in contrast to Spain, where it peaked at a higher level, but is now falling (see Figure 8). It is no surprise therefore that lending conditions in Portugal remain very restrictive: Portuguese banks charge the highest corporate lending rates in the euro area after Greece and Cyprus (6.7% in January 2013 for new corporate loans up to €1 mln).

**Figure 7. Portugal and Spain – Non-Financial Corporations Financial Balance (Pct. of GDP)**



Sources: Haver Analytics and Citi Research

**Figure 8. Portugal and Spain – Non-Financial Corporations Debt (Pct. of GDP)**



Sources: Haver Analytics and Citi Research

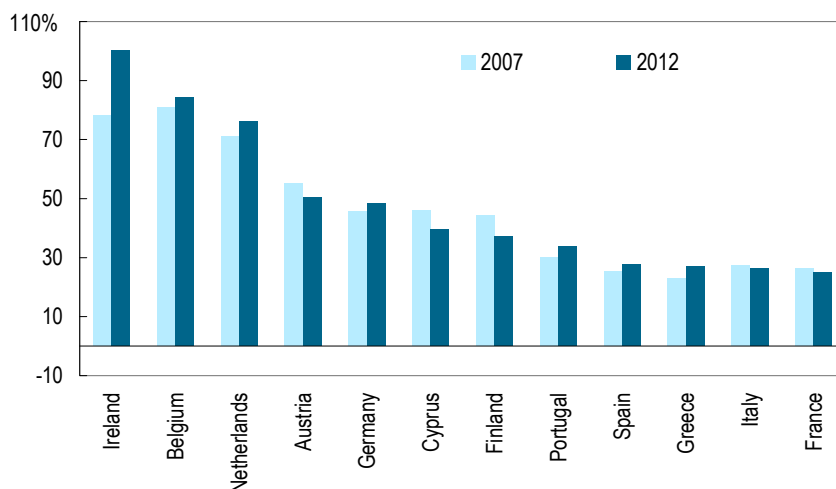
**Corporate debt remains high, risks of contingent liabilities lifting the public debt ratio still high**

The still high level of leverage of the corporate sector — which includes both private and semi-private companies (i.e., private-public-partnerships, PPPs and state-owned enterprises, SOEs which benefit from sizable government guarantees) — remains one of the major sources of risks for financial stability in the country, we reckon. Progress has been made in the past couple of years on improving the profitability of PPPs and SOEs, for example, by renegotiating road concessions and rising tariffs, therefore reducing the upward risks on the government budget. However, the debt overhang of SOEs (IMF had estimated contingent liabilities from SOEs at 10% of GDP in 2010) and the PPPs' future liabilities still represent major source of risk for public debt sustainability.

**Portugal cannot benefit as much as Ireland from positive export growth**

In clear contrast to Ireland, Portugal cannot rely just on exports to return to positive GDP growth. The share of exports in GDP has been improving in the past three years, but at 34% in 2012 still remains much lower than Ireland (100%) and actually also lower than other similar-sized euro area countries (eg, Belgium or Austria) (see Figure 9). This means that while the exporting sectors may be growing faster than the rest of the economy thanks to improved competitiveness (which is indeed happening), they are still not large enough to lift the overall economy and offset the negative drags from a shrinking domestic demand.

**Figure 9. Euro Area – Exports of Goods and Services (Pct. of GDP)**



Sources: Eurostat and Citi Research

**Debt sustainability still questionable, although a high share of debt held in official hands makes the need of PSI more debatable**

The recent increased flexibility with respect to fiscal targets is probably beneficial in the short term to help retain the government's commitment to the fiscal and financial consolidation paths, and the likely maturity extension of the official loans will improve its liquidity situation. However, we think doubts remain on the ultimate sustainability of Portuguese debt. The relaxation of the fiscal targets will lift a debt ratio that is already above 120% (getting close to Italy) and will probably rise fast because of a shrinking nominal GDP. Whether concerns on debt sustainability will lead to some form of debt restructuring (similar to the Greek PSI) remains debatable. Around 45% of the public debt is now held in official hands — including the EU/IMF official loans (€63bn disbursed so far) and the government securities bought by the ECB under the SMP (€22.8bn) — making additional OSI quite a powerful tool to reduce the debt burden if creditors and debtor countries can agree on it. However, before creditors agree to take losses, we think the risks of some form of private sector involvement — perhaps via maturity extensions and/or coupon reductions — remain considerable, in our view.

**Key Economic Indicators (18 March – 22 March 2013)**

| <b>Monday 18 March</b>    |   | <b>Forecast</b>       | <b>Last</b>           |
|---------------------------|---|-----------------------|-----------------------|
| 06:45                     | Switzerland: SECO Spring Economic Forecasts         |                       |                       |
| 09:00                     | Italy: Trade Balance, Jan                           |                       |                       |
| 10:00                     | Euro Area: Trade Balance, Jan                       |                       |                       |
| <b>Tuesday 19 March</b>   |   | <b>Forecast</b>       | <b>Last</b>           |
| 07:00                     | EU-27: New Car Registrations, Feb                   |                       |                       |
| 09:00                     | Italy: Industrial Production, Jan                   | 0.0% MM, -4.8% YY     | 0.4% MM, -6.6% YY     |
| 09:30                     | UK: Producer Input Prices, Feb                      | 2.1% MM, 1.3% YY      | 1.3% MM, 1.8% YY      |
| 09:30                     | UK: Producer Output Prices, Feb                     | 0.3% MM, 1.7% YY      | 0.2% MM, 2.0% YY      |
|                           | Excluding Food, Drink, Tobacco, Energy, Feb         | 0.2% MM, 1.1% YY      | 0.2% MM, 1.4% YY      |
| 09:30                     | UK: Consumer Prices, Feb                            | 0.8% MM, 2.9% YY      | -0.5% MM, 2.7% YY     |
|                           | CPI Ex Food, Drink, Tobacco, Energy, Feb            | 0.6% MM, 2.3% YY      | -0.9% MM, 2.3% YY     |
|                           | Retail Prices, Feb                                  | 0.8% MM, 3.3% YY      | -0.4% MM, 3.3% YY     |
| 10:00                     | Germany: ZEW Economic Expectations, Mar             | 60.0                  | 48.2                  |
| 10:00                     | Italy: Current Account, Jan                         |                       |                       |
| 10:00                     | Euro Area: Construction Output, Jan                 |                       |                       |
| 14:00                     | Belgium: Consumer Confidence, Mar                   |                       |                       |
| <b>Wednesday 20 March</b> |   | <b>Forecast</b>       | <b>Last</b>           |
| 07:00                     | Germany: Producer Prices, Feb                       | 0.3% MM, 1.5% YY      | 0.8% MM, 1.7% YY      |
| 08:30                     | Netherlands: Consumer Confidence, Mar               |                       |                       |
| 09:00                     | Euro Area: Balance of Payments, Jan                 |                       |                       |
| 09:30                     | UK: Claimant Count Unemployment, Feb                | -5,000 MM, 4.7% Rate  | -12,500 MM, 4.7% Rate |
|                           | LFS Unemployment, Nov-Jan                           | -29,000 QQ, 7.8% Rate | -14,000 QQ, 7.8% Rate |
| 09:30                     | UK: MPC Minutes (Mar 6)                             |                       |                       |
| 09:30                     | UK: BoE Agents' Summary of Business Conditions, Mar |                       |                       |
| c. 12:30                  | UK: 2013 Budget                                     |                       |                       |
| 15:00                     | Euro Area: Consumer Confidence, Mar Flash           | -23.0                 | -23.6                 |
| 16:30                     | US: FOMC Outcome                                    |                       |                       |
| <b>Thursday 21 March</b>  |   | <b>Forecast</b>       | <b>Last</b>           |
| 08:30                     | Netherlands: Unemployment, Feb                      |                       |                       |
| 09:00                     | Euro area: Manufacturing PMIs, Mar Flash            | 48.5                  | 47.9                  |
|                           | Services PMI, Mar Flash                             | 48.0                  | 47.9                  |
|                           | Composite PMI, Mar Flash                            | 48.3                  | 47.9                  |
| 09:30                     | UK: Retail Sales Volumes, Feb                       | 0.8% MM, 0.8% YY      | -0.6% MM, -0.6% YY    |
| 09:30                     | UK: Public Sector Net Borrowing – PSNB ex, Feb      |                       |                       |
| 11:00                     | UK: CBI Industrial Trends Survey, Mar               |                       |                       |
| 11:00                     | Ireland: GDP, 4Q                                    |                       |                       |
| 11:00                     | Ireland: Balance of Payments, 4Q                    |                       |                       |
|                           | Greece: Current Account, Jan                        |                       |                       |
| <b>Friday 22 March</b>    |   | <b>Forecast</b>       | <b>Last</b>           |
| 07:45                     | France: Business Confidence, Mar                    | 89                    | 90                    |
|                           | Personal Production Outlook, Mar                    | -5                    | 2                     |
| 09:00                     | Norway: Registered Unemployment Rate, Mar           | 2.7%                  | 2.7%                  |
| 08:30                     | Netherlands: Consumer Spending, Jan                 |                       |                       |
| 08:30                     | Netherlands: Producer Confidence, Mar               |                       |                       |
| 09:00                     | Germany: ifo Business Climate, Mar                  | 109.0                 | 107.4                 |
| 14:00                     | Belgium: Business Confidence, Mar                   |                       |                       |

Sources: National statistical offices, central banks and Citi Research



## Economic Indicators

### Euro Area

Mar 20 15:00 **Consumer Confidence, Mar Flash** Forecast: -23.0 Prior: -23.6

London Time With ongoing high unemployment, we expect consumer sentiment to remain weak for a prolonged period.

Mar 21 09:00 **Manufacturing PMI, Mar Flash** Forecast: 48.5 Prior: 47.9

**Services PMI, Mar Flash** Forecast: 48.0 Prior: 47.9

London Time **Composite PMI, Mar Flash** Forecast: 48.3 Prior: 47.9

We expect an increase in the manufacturing PMI, with the services PMI remaining largely unchanged. Overall we expect the composite PMI to stay in the sub-50 contraction territory, being around 1 standard deviation below its long-term average.

### Germany

Mar 19 10:00 **ZEW Economic Expectations, Mar** Forecast: 60.0 Prior: 48.2

London Time We expect a fourth consecutive increase in the business expectations of financial experts (the survey participants), although with a smaller gain than in the prior three months.

Mar 20 07:00 **Producer Prices, Feb** Forecast: +0.3% MM, 1.5% YY Prior: +0.8% MM, 1.7% YY

London Time Following a higher-than-expected January reading, we expect that benign base effects will contribute to a reduction in the YY rate of producer prices, which have been in a range between 1.4% and 1.7% since August 2012.

Mar 22 09:00 **Ifo Business Climate, Mar** Forecast: 109.0 Prior: 107.4

London Time We expect a further increase in the headline ifo sentiment reading in March. If our forecast is correct, this would be the highest reading since April 2012.

### France

Mar 22 07:45 **Business Confidence, Mar** Forecast: 89 Prior: 90

**Personal Production Outlook, Mar** Forecast: -5 Prior: 2

London Time Business confidence rose by three points to 90 in February, an improvement of three points on the 4Q-12 average with sizeable gains in personal output perspectives (+16 pts) and order books. Although the government launched the €20bn business tax credit scheme to boost firms' competitiveness on Mar 11, we doubt that the improvement in confidence can be sustained and forecast a one-point drop in March to 89 (-1.2sd). Note that the gap with the manufacturing PMI (one point below its 4Q average) remains sizeable and that this measure has often been a leading indicator of the INSEE survey.

### Italy

Mar 19 09:00 **Industrial Production, Jan** Forecast: 0.0% MM, -4.8% YY Prior: 0.4% MM, -6.6 YY

London Time Industrial output probably stayed flat in January, after a modest increase in December. The improvement in the survey-based indicators at the end of last year suggests the underlying trend in industrial output may not be negative any more, although a new drop in the PMI in February indicates that weakness may resurface soon.

### Norway

Mar 22 09:00 **Registered Unemployment Rate, Mar** Forecast: 2.7% Prior: 2.7%

London Time The Nov-Jan (referred to as Dec) LFS unemployment data suggested that the labour market deteriorated sharply towards yearend/early-2013. The surprisingly sharp jump in unemployment was the result of an unfavourable mix of a rising labour force and decreasing employment. However, the marked jump in unemployment is not supported by indicators and should prove temporary, in our view. The registered unemployment rate jumped 0.3pp to 2.7% in January (stayed here in Feb), but this development was in line with the seasonal pattern. In other words, the Mar registered unemployment data will give an important perspective on labour market developments as the data also includes non-permanent residents and hence is more closely watched by Norges Bank.

### United Kingdom

Mar 19 09:30 **Consumer Prices, Feb** Forecast: 0.8% MM, 2.9% YY Prior: -0.5% MM, 2.7% YY

**CPI Ex Food, Drink, Tobacco, Energy, Feb** Forecast: 0.6% MM, 2.3% YY Prior: -0.9% MM, 2.3% YY

London Time **Retail Prices, Feb** Forecast: 0.8% MM, 3.3% YY Prior: -0.4% MM, 3.3% YY

**RPIX – Excludes Mortgages, Feb** Forecast: 0.9% MM, 3.3% YY Prior: -0.4% MM, 3.3% YY

We expect that the recent sharp rise in petrol prices will push CPI inflation higher again, after four consecutive readings of 2.7% YY. The AA report that petrol prices rose by 4.4% MM in February, the biggest MM rise since Jan-11 (when the VAT hike lifted petrol prices by 5.1% MM). Looking ahead, we currently expect that CPI inflation will rise to a peak of about 3.4% YY in the middle of this year, although this path clearly is sensitive to any indirect tax measures in the Budget.

Mar 19 09:30 **Producer Input Prices, Feb** Forecast: 2.1% MM, 1.3% YY Prior: 1.3% MM, 1.8% YY

London Time We expect that gains in oil prices and the weaker pound will push input prices higher again, and indeed our forecast implies the biggest MM rise in input prices for a year.



## Economic Indicators

### United Kingdom continued

|             |  |                                   |                                |
|-------------|--|-----------------------------------|--------------------------------|
| Mar 19      | <b>Producer Output Prices, Feb</b>                 | <b>Forecast: 0.3% MM, 1.7% YY</b> | <b>Prior: 0.2% MM, 2.0% YY</b> |
| 09:30       | <b>Output Prices Ex Tax, Feb</b>                   | <b>Forecast: 0.3% MM, 1.4% YY</b> | <b>Prior: 0.2% MM, 1.8% YY</b> |
| London Time | <b>Excluding Food, Drink, Tobacco, Energy, Feb</b> | <b>Forecast: 0.2% MM, 1.1% YY</b> | <b>Prior: 0.2% MM, 1.4% YY</b> |

We expect that base effects from the relatively strong rise in output prices a year earlier (prices ex tax rose 0.6% MM in Feb-12) will pull the YY rate lower in February. However, we are rather nervous about this forecast, because the recent CBI surveys suggest that manufacturing firms intend to hike prices more rapidly. Hence, the risks to our forecast probably lie to the upside.

|             |   |  |                                     |
|-------------|---|--|-------------------------------------|
| Mar 20      | <b>Claimant Count Unemployment, Feb</b> | <b>Forecast: -5,000 MM, 4.7% Rate</b>  | <b>Prior: -12,500 MM, 4.7% Rate</b> |
| 09:30       | <b>LFS Unemployment, Nov-Jan</b>        | <b>Forecast: -29,000 QQ, 7.8% Rate</b> | <b>Prior: -14,000 QQ, 7.8% Rate</b> |
| London Time |   |  |                                     |

We expect that the LFS total will show a slight decline in unemployment over the past three months as the relatively high October figure drops out of the latest three months. The data are likely to show a continued mix of solid gains in employment, concentrated in particular among the over 50s, accompanied by rapid growth in the workforce and falling real wages.

|             |                                  |                                   |                                  |
|-------------|----------------------------------|-----------------------------------|----------------------------------|
| Mar 21      | <b>Retail Sales Volumes, Feb</b> | <b>Forecast: 0.8% MM, 0.8% YY</b> | <b>Prior: -0.6% MM, -0.6% YY</b> |
| 09:30       |                                  |                                   |                                  |
| London Time |                                  |                                   |                                  |

Retail sales volumes have fallen for four consecutive months, the longest run of declines since 1990. Although surveys suggest that the retail sector is sluggish, they do not point to a continued run of declines and hence we expect some payback with a rise in volumes this month. However, we are conscious that weather effects again were adverse, with the average temperature in England and Wales matching 1994 as the third lowest for any February of the last 20 years. That may have been an adverse factor for sales.

Sources: National Statistical Offices, National Central Banks, Bloomberg, and Citi Research forecasts.

## Accessing Citi Economic Research

We want to highlight to you that our research is also available for your convenience through the following research distribution providers:

- Bloomberg using CTIR<GO>
- FactSet
- Thomson Reuters
- TheMarkets.com from Capital IQ

You are automatically able to view Citi research if you have entitlement on one of these systems. If you do not currently have Citi entitlement on these systems, please contact your provider representative to request access. These services are available to you in addition to Citi website access and research email services you may already receive from Citi directly.

If you have any questions or we can be of further assistance please do not hesitate to contact us.

Source: Citi Research

## Key Economic Indicators (25 March – 29 March 2013)

| During The Week    |   | Forecast | Last |
|--------------------|---|----------|------|
| 07:00              | Germany: Retail Sales, Feb (by Mar 28)              |          |      |
| 07:00              | Germany: Import Prices, Feb (by Mar 28)             |          |      |
| 08:00              | UK: Nationwide House Prices, Mar                    |          |      |
| Monday 25 March    |   | Forecast | Last |
| 08:00              | Spain: Producer Prices, Feb                         |          |      |
| 09:00              | Italy: Consumer Confidence, Mar                     |          |      |
| 09:30              | UK: BBA Mortgage Advances, Feb                      |          |      |
| Tuesday 26 March   |   | Forecast | Last |
| 07:45              | France: Consumer Confidence, Mar                    |          |      |
| 08:30              | Sweden: Producer Prices, Feb                        |          |      |
| 11:00              | UK: CBI Retail Survey, Mar                          |          |      |
| 17:00              | France: Jobseekers, Feb                             |          |      |
|                    | Spain: Budget Balance, Feb                          |          |      |
| Wednesday 27 March |   | Forecast | Last |
| 07:45              | France: GDP Details, 4Q                             |          |      |
| 08:00              | Switzerland: KOF Economic Barometer, Mar            |          |      |
| 08:00              | Sweden: Business & Consumer Surveys, Mar            |          |      |
| 08:00              | Spain: Retail Sales, Mar                            |          |      |
| 08:00              | Spain: HICP, Mar Flash                              |          |      |
| 08:30              | Sweden: Trade Balance, Feb                          |          |      |
| 08:30              | Sweden: Household Lending, Feb                      |          |      |
| 08:30              | Sweden: Retail Sales, Feb                           |          |      |
| 09:00              | Italy: Industrial Orders, Jan                       |          |      |
| 09:30              | UK: Balance of Payments, 4Q                         |          |      |
| 09:30              | UK: GDP Details, 4Q (3 <sup>rd</sup> Release)       |          |      |
| 10:00              | Italy: Retail Sales, Jan                            |          |      |
| 10:00              | Euro Area: Business & Consumer Surveys, Mar         |          |      |
|                    | Spain: Current Account, Jan                         |          |      |
| Thursday 28 March  |   | Forecast | Last |
| 08:55              | Germany: Unemployment, Mar                          |          |      |
| 09:00              | Euro Area: M3, Feb                                  |          |      |
| 09:00              | Italy: Business Confidence, Mar                     |          |      |
| 09:30              | UK: Service Sector Output, Jan                      |          |      |
| 09:30              | UK: Labour Productivity, 4Q                         |          |      |
| Friday 29 March    |   | Forecast | Last |
| 07:45              | France: Public Sector Debt (Maastricht measure), 4Q |          |      |
| 07:45              | France: Consumer Spending, Feb                      |          |      |
| 07:45              | France: Producer Prices, Feb                        |          |      |
| 08:30              | Netherlands: GDP Details, 4Q                        |          |      |
| 09:00              | Italy: Producer Prices, Feb                         |          |      |
| 10:00              | Italy: Consumer Prices, Mar Preliminary             |          |      |

Sources: National statistical offices, central banks and Citi Research

| Recent Research Publications   | Author                              | Date of Publication |
|--|-------------------------------------|---------------------|
| <b>Euro Area</b>   |                                     |                     |
| <a href="#">Euro Area: Sovereign Debt Crisis Update</a>  | Jürgen Michels                      | Mar 15, 2013        |
| <a href="#">ECB - Room, But No Certainty of an April Rate Cut</a>  | Jürgen Michels                      | Mar 7, 2013         |
| <a href="#">European Economic Forecast Highlights - February 2013</a>  | Ann O'Kelly                         | Feb 28, 2013        |
| <a href="#">ECB - Tolerating the Irish Promissory Note Transaction</a>   | Jürgen Michels                      | Feb 8, 2013         |
| <a href="#">ECB - Against Premature Tightening in Monetary Conditions</a>                                      | Jürgen Michels                      | Feb 7, 2013         |
| <b>Euro Economics Weekly</b>   |                                     |                     |
| <a href="#">Fiscal Compact: A Structural Straight-Jacket</a>   | Jürgen Michels and Guillaume Menuet | Mar 8, 2013         |
| <a href="#">Italian Worries and ECB Challenges</a>   | Giada Giani                         | Mar 1, 2013         |
| <a href="#">Netherlands — In the Triple Dip Recession Club</a>   | Guillaume Menuet and Jürgen Michels | Feb 22, 2013        |
| <a href="#">Ireland — Steps Back to Fiscal Sustainability</a>  | Michael Saunders                    | Feb 15, 2013        |
| <a href="#">Spain — It's All About The Lack of Growth</a>  | Giada Giani                         | Feb 8, 2013         |
| <a href="#">ECB Is Likely to Turn More Cautious</a>  | Jürgen Michels                      | Feb 1, 2013         |
| <b>Chief Economist Publications</b>  |                                     |                     |
| <a href="#">Global Economic Outlook and Strategy - February 2013</a>   | Willem Buiter                       | Feb 27, 2013        |
| <a href="#">Global Economics View - More Expansionary Monetary Policy Weakens the Currency: Get Used to It</a> | Willem Buiter and Ebrahim Rahbari   | Feb 15, 2013        |
| <a href="#">Global Economics View - New and old risks in the Euro Area</a>                                     | Willem Buiter and Ebrahim Rahbari   | Feb 6, 2013         |
| <b>Italy</b>   |                                     |                     |
| <a href="#">Italian Election - Risks of Political Instability Have Increased</a>                               | Giada Giani                         | Feb 15, 2013        |
| <b>Greece</b>  |                                     |                     |
| <a href="#">Greece - Recession Not Showing Signs of Easing</a>   | Giada Giani                         | Mar 11, 2013        |
| <b>Ireland</b>   |                                     |                     |
| <a href="#">Ireland - Better Data, Mostly</a>  | Michael Saunders                    | Feb 5, 2013         |
| <b>Norway</b>  |                                     |                     |
| <a href="#">Scandi Economics Update</a>  | Tina Mortensen                      | Mar 15, 2013        |
| <a href="#">Norway - Norges Bank: No Change, But Very Dovish Report</a>  | Tina Mortensen                      | Mar 14, 2013        |
| <a href="#">Norway - Core Inflation Eases Further, Undershoots Norges Bank Forecast</a>                        | Tina Mortensen                      | Mar 11, 2013        |
| <b>Sweden</b>  |                                     |                     |
| <a href="#">Sweden - Headline CPI Falls below Zero (again) in February</a>                                     | Tina Mortensen                      | Mar 12, 2013        |
| <a href="#">Sweden - Industrial Production in Deep Fall in January</a>   | Tina Mortensen                      | Mar 8, 2013         |
| <b>Switzerland</b>   |                                     |                     |
| <a href="#">Switzerland - Economy Continues to Outperform EMU</a>  | Michael Saunders                    | Nov 29, 2012        |
| <b>UK</b>  |                                     |                     |
| <a href="#">UK - Poor Start To Q1 Activity</a>   | Michael Saunders                    | Mar 12, 2013        |
| <a href="#">UK - Weak Construction, High Inflation Expectations</a>  | Michael Saunders                    | Mar 8, 2013         |
| <a href="#">UK - MPC Leave Policy on Hold</a>  | Michael Saunders                    | Mar 7, 2013         |
| <a href="#">UK - Press Reports on Possible Changes to MPC Remit</a>  | Michael Saunders                    | Mar 7, 2013         |
| <b>UK Economics Weekly</b>   |                                     |                     |
| <a href="#">More QE and Looser MPC Remit Likely</a>  | Michael Saunders                    | Mar 8, 2013         |
| <a href="#">More Stimulus On the Way</a>   | Michael Saunders                    | Mar 1, 2013         |
| <a href="#">The Looming Budget Dilemma</a>   | Michael Saunders                    | Feb 22, 2013        |
| <a href="#">2% Inflation Target Probably Out of Reach</a>  | Michael Saunders                    | Feb 15, 2013        |
| <a href="#">Using the "Flex" in Flexible Inflation Targeting</a>   | Michael Saunders                    | Feb 8, 2013         |

Source: Citi Research

**Notes**

## Appendix A-1

### Analyst Certification

The research analyst(s) primarily responsible for the preparation and content of this research report are named in bold text in the author block at the front of the product except for those sections where an analyst's name appears in bold alongside content which is attributable to that analyst. Each of these analyst(s) certify, with respect to the section(s) of the report for which they are responsible, that the views expressed therein accurately reflect their personal views about each issuer and security referenced and were prepared in an independent manner, including with respect to Citigroup Global Markets Inc and its affiliates. No part of the research analyst's compensation was, is, or will be, directly or indirectly, related to the specific recommendation(s) or view(s) expressed by that research analyst in this report.

### IMPORTANT DISCLOSURES

Analysts' compensation is determined based upon activities and services intended to benefit the investor clients of Citigroup Global Markets Inc. and its affiliates ("the Firm"). Like all Firm employees, analysts receive compensation that is impacted by overall firm profitability which includes investment banking revenues.

For important disclosures (including copies of historical disclosures) regarding the companies that are the subject of this Citi Research product ("the Product"), please contact Citi Research, 388 Greenwich Street, 28th Floor, New York, NY, 10013, Attention: Legal/Compliance [E6WYB6412478]. In addition, the same important disclosures, with the exception of the Valuation and Risk assessments and historical disclosures, are contained on the Firm's disclosure website at [https://www.citivelocity.com/cvr/eppublic/citi\\_research\\_disclosures](https://www.citivelocity.com/cvr/eppublic/citi_research_disclosures). Valuation and Risk assessments can be found in the text of the most recent research note/report regarding the subject company. Historical disclosures (for up to the past three years) will be provided upon request.

### NON-US RESEARCH ANALYST DISCLOSURES

Non-US research analysts who have prepared this report (i.e., all research analysts listed below other than those identified as employed by Citigroup Global Markets Inc.) are not registered/qualified as research analysts with FINRA. Such research analysts may not be associated persons of the member organization and therefore may not be subject to the NYSE Rule 472 and NASD Rule 2711 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account. The legal entities employing the authors of this report are listed below:

Citigroup Global Markets Ltd

Jürgen Michels; Giada Giani; Guillaume Menuet; Michael Saunders; Ebrahim Rahbari; Ann O'Kelly

### OTHER DISCLOSURES

For securities recommended in the Product in which the Firm is not a market maker, the Firm is a liquidity provider in the issuers' financial instruments and may act as principal in connection with such transactions. The Firm is a regular issuer of traded financial instruments linked to securities that may have been recommended in the Product. The Firm regularly trades in the securities of the issuer(s) discussed in the Product. The Firm may engage in securities transactions in a manner inconsistent with the Product and, with respect to securities covered by the Product, will buy or sell from customers on a principal basis.

Securities recommended, offered, or sold by the Firm: (i) are not insured by the Federal Deposit Insurance Corporation; (ii) are not deposits or other obligations of any insured depository institution (including Citibank); and (iii) are subject to investment risks, including the possible loss of the principal amount invested. Although information has been obtained from and is based upon sources that the Firm believes to be reliable, we do not guarantee its accuracy and it may be incomplete and condensed. Note, however, that the Firm has taken all reasonable steps to determine the accuracy and completeness of the disclosures made in the Important Disclosures section of the Product. The Firm's research department has received assistance from the subject company(ies) referred to in this Product including, but not limited to, discussions with management of the subject company(ies). Firm policy prohibits research analysts from sending draft research to subject companies. However, it should be presumed that the author of the Product has had discussions with the subject company to ensure factual accuracy prior to publication. All opinions, projections and estimates constitute the judgment of the author as of the date of the Product and these, plus any other information contained in the Product, are subject to change without notice. Prices and availability of financial instruments also are subject to change without notice. Notwithstanding other departments within the Firm advising the companies discussed in this Product, information obtained in such role is not used in the preparation of the Product. Although Citi Research does not set a predetermined frequency for publication, if the Product is a fundamental research report, it is the intention of Citi Research to provide research coverage of the/those issuer(s) mentioned therein, including in response to news affecting this issuer, subject to applicable quiet periods and capacity constraints. The Product is for informational purposes only and is not intended as an offer or solicitation for the purchase or sale of a security. Any decision to purchase securities mentioned in the Product must take into account existing public information on such security or any registered prospectus.

Investing in non-U.S. securities, including ADRs, may entail certain risks. The securities of non-U.S. issuers may not be registered with, nor be subject to the reporting requirements of the U.S. Securities and Exchange Commission. There may be limited information available on foreign securities. Foreign companies are generally not subject to uniform audit and reporting standards, practices and requirements comparable to those in the U.S. Securities of some foreign companies may be less liquid and their prices more volatile than securities of comparable U.S. companies. In addition, exchange rate movements may have an adverse effect on the value of an investment in a foreign stock and its corresponding dividend payment for U.S. investors. Net dividends to ADR investors are estimated, using withholding tax rates conventions, deemed accurate, but investors are urged to consult their tax advisor for exact dividend computations. Investors who have received the Product from the Firm may be prohibited in certain states or other jurisdictions from purchasing securities mentioned in the Product from the Firm. Please ask your Financial Consultant for additional details. Citigroup Global Markets Inc. takes responsibility for the Product in the United States. Any orders by US investors resulting from the information contained in the Product may be placed only through Citigroup Global Markets Inc.

**Important Disclosures for Morgan Stanley Smith Barney LLC Customers:** Morgan Stanley & Co. LLC (Morgan Stanley) research reports may be available about the companies that are the subject of this Citi Research research report. Ask your Financial Advisor or use [smithbarney.com](http://smithbarney.com) to view any

available Morgan Stanley research reports in addition to Citi Research research reports.

Important disclosure regarding the relationship between the companies that are the subject of this Citi Research research report and Morgan Stanley Smith Barney LLC and its affiliates are available at the Morgan Stanley Smith Barney disclosure website at [www.morganstanleysmithbarney.com/researchdisclosures](http://www.morganstanleysmithbarney.com/researchdisclosures).

For Morgan Stanley and Citigroup Global Markets, Inc. specific disclosures, you may refer to [www.morganstanley.com/researchdisclosures](http://www.morganstanley.com/researchdisclosures) and [https://www.citivelocity.com/cvr/eppublic/citi\\_research\\_disclosures](https://www.citivelocity.com/cvr/eppublic/citi_research_disclosures).

This Citi Research research report has been reviewed and approved on behalf of Morgan Stanley Smith Barney LLC. This review and approval was conducted by the same person who reviewed this research report on behalf of Citi Research. This could create a conflict of interest.

**The Citigroup legal entity that takes responsibility for the production of the Product is the legal entity which the first named author is employed by.** The Product is made available in **Australia** through Citi Global Markets Australia Pty Ltd. (ABN 64 003 114 832 and AFSL No. 240992), participant of the ASX Group and regulated by the Australian Securities & Investments Commission. Citigroup Centre, 2 Park Street, Sydney, NSW 2000. The Product is made available in Australia to Private Banking wholesale clients through Citigroup Pty Limited (ABN 88 004 325 080 and AFSL 238098). Citigroup Pty Limited provides all financial product advice to Australian Private Banking wholesale clients through bankers and relationship managers. If there is any doubt about the suitability of investments held in Citigroup Private Bank accounts, investors should contact the Citigroup Private Bank in Australia. Citigroup companies may compensate affiliates and their representatives for providing products and services to clients. The Product is made available in **Brazil** by Citigroup Global Markets Brasil - CCTVM SA, which is regulated by CVM - Comissão de Valores Mobiliários, BACEN - Brazilian Central Bank, APIMEC - Associação dos Analistas e Profissionais de Investimento do Mercado de Capitais and ANBID - Associação Nacional dos Bancos de Investimento. Av. Paulista, 1111 - 11º andar - CEP. 01311920 - São Paulo - SP. If the Product is being made available in certain provinces of **Canada** by Citigroup Global Markets (Canada) Inc. ("CGM Canada"), CGM Canada has approved the Product. Citigroup Place, 123 Front Street West, Suite 1100, Toronto, Ontario M5J 2M3. This product is available in **Chile** through Banchile Corredores de Bolsa S.A., an indirect subsidiary of Citigroup Inc., which is regulated by the Superintendencia de Valores y Seguros. Agustinas 975, piso 2, Santiago, Chile. The Product is made available in **France** by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. 1-5 Rue Paul Cézanne, 8ème, Paris, France. The Product is distributed in **Germany** by Citigroup Global Markets Deutschland AG ("CGMD"), which is regulated by Bundesanstalt fuer Finanzdienstleistungsaufsicht (BaFin). CGMD, Reuterweg 16, 60323 Frankfurt am Main. Research which relates to "securities" (as defined in the Securities and Futures Ordinance (Cap. 571 of the Laws of Hong Kong)) is issued in **Hong Kong** by, or on behalf of, Citigroup Global Markets Asia Limited which takes full responsibility for its content. Citigroup Global Markets Asia Ltd. is regulated by Hong Kong Securities and Futures Commission. If the Research is made available through Citibank, N.A., Hong Kong Branch, for its clients in Citi Private Bank, it is made available by Citibank N.A., Citibank Tower, Citibank Plaza, 3 Garden Road, Hong Kong. Citibank N.A. is regulated by the Hong Kong Monetary Authority. Please contact your Private Banker in Citibank N.A., Hong Kong, Branch if you have any queries on or any matters arising from or in connection with this document. The Product is made available in **India** by Citigroup Global Markets India Private Limited, which is regulated by Securities and Exchange Board of India. Bakhtawar, Nariman Point, Mumbai 400-021. The Product is made available in **Indonesia** through PT Citigroup Securities Indonesia. 5/F, Citibank Tower, Bapindo Plaza, Jl. Jend. Sudirman Kav. 54-55, Jakarta 12190. Neither this Product nor any copy hereof may be distributed in Indonesia or to any Indonesian citizens wherever they are domiciled or to Indonesian residents except in compliance with applicable capital market laws and regulations. This Product is not an offer of securities in Indonesia. The securities referred to in this Product have not been registered with the Capital Market and Financial Institutions Supervisory Agency (BAPEPAM-LK) pursuant to relevant capital market laws and regulations, and may not be offered or sold within the territory of the Republic of Indonesia or to Indonesian citizens through a public offering or in circumstances which constitute an offer within the meaning of the Indonesian capital market laws and regulations. The Product is made available in **Israel** through Citibank NA, regulated by the Bank of Israel and the Israeli Securities Authority. Citibank, N.A., Platinum Building, 21 Ha'arba'ah St, Tel Aviv, Israel. The Product is made available in **Italy** by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. Via dei Mercanti, 12, Milan, 20121, Italy. The Product is made available in **Japan** by Citigroup Global Markets Japan Inc. ("CGMJ"), which is regulated by Financial Services Agency, Securities and Exchange Surveillance Commission, Japan Securities Dealers Association, Tokyo Stock Exchange and Osaka Securities Exchange. Shin-Marunouchi Building, 1-5-1 Marunouchi, Chiyoda-ku, Tokyo 100-6520 Japan. If the Product was distributed by SMBC Nikko Securities Inc. it is being so distributed under license. In the event that an error is found in an CGMJ research report, a revised version will be posted on the Firm's Citi Velocity website. If you have questions regarding Citi Velocity, please call (81 3) 6270-3019 for help. The Product is made available in **Korea** by Citigroup Global Markets Korea Securities Ltd., which is regulated by the Financial Services Commission, the Financial Supervisory Service and the Korea Financial Investment Association (KOFIA). Citibank Building, 39 Da-dong, Jung-gu, Seoul 100-180, Korea. KOFIA makes available registration information of research analysts on its website. Please visit the following website if you wish to find KOFIA registration information on research analysts of Citigroup Global Markets Korea Securities Ltd. <http://dis.kofia.or.kr/fs/dis2/fundMgr/DISFundMgrAnalystPop.jsp?companyCd2=A03030&pageDiv=02>. The Product is made available in Korea by Citibank Korea Inc., which is regulated by the Financial Services Commission and the Financial Supervisory Service. Address is Citibank Building, 39 Da-dong, Jung-gu, Seoul 100-180, Korea. The Product is made available in **Malaysia** by Citigroup Global Markets Malaysia Sdn Bhd (Company No. 460819-D) ("CGMM") to its clients and CGMM takes responsibility for its contents. CGMM is regulated by the Securities Commission of Malaysia. Please contact CGMM at Level 43 Menara Citibank, 165 Jalan Ampang, 50450 Kuala Lumpur, Malaysia in respect of any matters arising from, or in connection with, the Product. The Product is made available in **Mexico** by Acciones y Valores Banamex, S.A. De C. V., Casa de Bolsa, Integrante del Grupo Financiero Banamex ("Accival") which is a wholly owned subsidiary of Citigroup Inc. and is regulated by Comisión Nacional Bancaria y de Valores. Reforma 398, Col. Juárez, 06600 Mexico, D.F. In **New Zealand** the Product is made available to 'wholesale clients' only as defined by s5C(1) of the Financial Advisers Act 2008 ('FAA') through Citigroup Global Markets Australia Pty Ltd (ABN 64 003 114 832 and AFSL No. 240992), an overseas financial adviser as defined by the FAA, participant of the ASX Group and regulated by the Australian Securities & Investments Commission. Citigroup Centre, 2 Park Street, Sydney, NSW 2000. The Product is made available in **Pakistan** by Citibank N.A. Pakistan branch, which is regulated by the State Bank of Pakistan and Securities Exchange Commission, Pakistan. AWT Plaza, 1.1. Chundrigar Road, P.O. Box 4889, Karachi-74200. The Product is made available in the **Philippines** through Citicorp Financial Services and Insurance Brokerage Philippines, Inc., which is regulated by the Philippines Securities and Exchange Commission. 20th Floor Citibank Square Bldg. The Product is made available in the Philippines through Citibank NA Philippines branch, Citibank Tower, 8741 Paseo De Roxas, Makati City, Manila. Citibank NA Philippines NA is regulated by The Bangko Sentral ng Pilipinas. The Product is made available in **Poland** by Dom Maklerski Banku Handlowego SA an indirect subsidiary of Citigroup Inc., which is regulated by Komisja Nadzoru Finansowego. Dom Maklerski Banku Handlowego S.A. ul.Senatorska 16, 00-923 Warszawa. The Product is made available in the **Russian Federation** through ZAO Citibank, which is licensed to carry out banking activities in the Russian Federation in accordance with the general banking license issued by the Central Bank of the Russian



Federation and brokerage activities in accordance with the license issued by the Federal Service for Financial Markets. Neither the Product nor any information contained in the Product shall be considered as advertising the securities mentioned in this report within the territory of the Russian Federation or outside the Russian Federation. The Product does not constitute an appraisal within the meaning of the Federal Law of the Russian Federation of 29 July 1998 No. 135-FZ (as amended) On Appraisal Activities in the Russian Federation. 8-10 Gasheka Street, 125047 Moscow. The Product is made available in **Singapore** through Citigroup Global Markets Singapore Pte. Ltd. ("CGMSPL"), a capital markets services license holder, and regulated by Monetary Authority of Singapore. Please contact CGMSPL at 8 Marina View, 21st Floor Asia Square Tower 1, Singapore 018960, in respect of any matters arising from, or in connection with, the analysis of this document. This report is intended for recipients who are accredited, expert and institutional investors as defined under the Securities and Futures Act (Cap. 289). The Product is made available by The Citigroup Private Bank in Singapore through Citibank, N.A., Singapore Branch, a licensed bank in Singapore that is regulated by Monetary Authority of Singapore. Please contact your Private Banker in Citibank N.A., Singapore Branch if you have any queries on or any matters arising from or in connection with this document. This report is intended for recipients who are accredited, expert and institutional investors as defined under the Securities and Futures Act (Cap. 289). This report is distributed in Singapore by Citibank Singapore Ltd ("CSL") to selected Citigold/Citigold Private Clients. CSL provides no independent research or analysis of the substance or in preparation of this report. Please contact your Citigold/Citigold Private Client Relationship Manager in CSL if you have any queries on or any matters arising from or in connection with this report. This report is intended for recipients who are accredited investors as defined under the Securities and Futures Act (Cap. 289). Citigroup Global Markets (Pty) Ltd. is incorporated in the **Republic of South Africa** (company registration number 2000/025866/07) and its registered office is at 145 West Street, Sandton, 2196, Saxonwold. Citigroup Global Markets (Pty) Ltd. is regulated by JSE Securities Exchange South Africa, South African Reserve Bank and the Financial Services Board. The investments and services contained herein are not available to private customers in South Africa. The Product is made available in **Spain** by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. 29 Jose Ortega Y Gasset, 4th Floor, Madrid, 28006, Spain. The Product is made available in the **Republic of China** through Citigroup Global Markets Taiwan Securities Company Ltd. ("CGMTS"), 14 and 15F, No. 1, Songzhi Road, Taipei 110, Taiwan and/or through Citibank Securities (Taiwan) Company Limited ("CSTL"), 14 and 15F, No. 1, Songzhi Road, Taipei 110, Taiwan, subject to the respective license scope of each entity and the applicable laws and regulations in the Republic of China. CGMTS and CSTL are both regulated by the Securities and Futures Bureau of the Financial Supervisory Commission of Taiwan, the Republic of China. No portion of the Product may be reproduced or quoted in the Republic of China by the press or any third parties [without the written authorization of CGMTS and CSTL]. If the Product covers securities which are not allowed to be offered or traded in the Republic of China, neither the Product nor any information contained in the Product shall be considered as advertising the securities or making recommendation of the securities in the Republic of China. The Product is for informational purposes only and is not intended as an offer or solicitation for the purchase or sale of a security or financial products. Any decision to purchase securities or financial products mentioned in the Product must take into account existing public information on such security or the financial products or any registered prospectus. The Product is made available in **Thailand** through Citicorp Securities (Thailand) Ltd., which is regulated by the Securities and Exchange Commission of Thailand. 18/F, 22/F and 29/F, 82 North Sathorn Road, Silom, Bangrak, Bangkok 10500, Thailand. The Product is made available in **Turkey** through Citibank AS which is regulated by Capital Markets Board. Tekfen Tower, Eski Buyukdere Caddesi # 209 Kat 2B, 23294 Levent, Istanbul, Turkey. In the **U.A.E.**, these materials (the "Materials") are communicated by Citigroup Global Markets Limited, DIFC branch ("CGML"), an entity registered in the Dubai International Financial Center ("DIFC") and licensed and regulated by the Dubai Financial Services Authority ("DFSA") to Professional Clients and Market Counterparties only and should not be relied upon or distributed to Retail Clients. A distribution of the different Citi Research ratings distribution, in percentage terms for Investments in each sector covered is made available on request. Financial products and/or services to which the Materials relate will only be made available to Professional Clients and Market Counterparties. The Product is made available in **United Kingdom** by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. This material may relate to investments or services of a person outside of the UK or to other matters which are not regulated by the FSA and further details as to where this may be the case are available upon request in respect of this material. Citigroup Centre, Canada Square, Canary Wharf, London, E14 5LB. The Product is made available in **United States** by Citigroup Global Markets Inc, which is a member of FINRA and registered with the US Securities and Exchange Commission. 388 Greenwich Street, New York, NY 10013. Unless specified to the contrary, within EU Member States, the Product is made available by Citigroup Global Markets Limited, which is regulated by Financial Services Authority.

Pursuant to Comissão de Valores Mobiliários Rule 483, Citi is required to disclose whether a Citi related company or business has a commercial relationship with the subject company. Considering that Citi operates multiple businesses in more than 100 countries around the world, it is likely that Citi has a commercial relationship with the subject company.

Many European regulators require that a firm must establish, implement and make available a policy for managing conflicts of interest arising as a result of publication or distribution of investment research. The policy applicable to Citi Research's Products can be found at [https://www.citivelocity.com/cvr/eppublic/citi\\_research\\_disclosures](https://www.citivelocity.com/cvr/eppublic/citi_research_disclosures).

Compensation of equity research analysts is determined by equity research management and Citigroup's senior management and is not linked to specific transactions or recommendations.

The Product may have been distributed simultaneously, in multiple formats, to the Firm's worldwide institutional and retail customers. The Product is not to be construed as providing investment services in any jurisdiction where the provision of such services would not be permitted.

Subject to the nature and contents of the Product, the investments described therein are subject to fluctuations in price and/or value and investors may get back less than originally invested. Certain high-volatility investments can be subject to sudden and large falls in value that could equal or exceed the amount invested. Certain investments contained in the Product may have tax implications for private customers whereby levels and basis of taxation may be subject to change. If in doubt, investors should seek advice from a tax adviser. The Product does not purport to identify the nature of the specific market or other risks associated with a particular transaction. Advice in the Product is general and should not be construed as personal advice given it has been prepared without taking account of the objectives, financial situation or needs of any particular investor. Accordingly, investors should, before acting on the advice, consider the appropriateness of the advice, having regard to their objectives, financial situation and needs. Prior to acquiring any financial product, it is the client's responsibility to obtain the relevant offer document for the product and consider it before making a decision as to whether to purchase the product. With the exception of our product that is made available only to Qualified Institutional Buyers (QIBs) and other product that is made available through other distribution channels only to certain categories of clients to satisfy legal or regulatory requirements, Citi Research concurrently disseminates its research via proprietary and non-proprietary electronic distribution platforms. Periodically, individual Citi Research analysts may also opt to circulate research posted on such platforms to one or more clients by email. Such email distribution is discretionary and is done only after the research has been disseminated via the aforementioned distribution channels. Citi Research simultaneously distributes product that is limited to QIBs only through email distribution.



The level and types of services provided by Citi Research analysts to clients may vary depending on various factors such as the client's individual preferences as to the frequency and manner of receiving communications from analysts, the client's risk profile and investment focus and perspective (e.g. market-wide, sector specific, long term, short-term etc.), the size and scope of the overall client relationship with Citi and legal and regulatory constraints. Citi Research product may source data from dataCentral. dataCentral is a Citi Research proprietary database, which includes Citi estimates, data from company reports and feeds from Reuters and Datastream.

© 2013 Citigroup Global Markets Inc. Citi Research is a division of Citigroup Global Markets Inc. Citi and Citi with Arc Design are trademarks and service marks of Citigroup Inc. and its affiliates and are used and registered throughout the world. All rights reserved. Any unauthorized use, duplication, redistribution or disclosure of this report (the "Product"), including, but not limited to, redistribution of the Product by electronic mail, posting of the Product on a website or page, and/or providing to a third party a link to the Product, is prohibited by law and will result in prosecution. The information contained in the Product is intended solely for the recipient and may not be further distributed by the recipient to any third party. Where included in this report, MSCI sourced information is the exclusive property of Morgan Stanley Capital International Inc. (MSCI). Without prior written permission of MSCI, this information and any other MSCI intellectual property may not be reproduced, disseminated or used to create any financial products, including any indices. This information is provided on an "as is" basis. The user assumes the entire risk of any use made of this information. MSCI, its affiliates and any third party involved in, or related to, computing or compiling the information hereby expressly disclaim all warranties of originality, accuracy, completeness, merchantability or fitness for a particular purpose with respect to any of this information. Without limiting any of the foregoing, in no event shall MSCI, any of its affiliates or any third party involved in, or related to, computing or compiling the information have any liability for any damages of any kind. MSCI, Morgan Stanley Capital International and the MSCI indexes are services marks of MSCI and its affiliates. The Firm accepts no liability whatsoever for the actions of third parties. The Product may provide the addresses of, or contain hyperlinks to, websites. Except to the extent to which the Product refers to website material of the Firm, the Firm has not reviewed the linked site. Equally, except to the extent to which the Product refers to website material of the Firm, the Firm takes no responsibility for, and makes no representations or warranties whatsoever as to, the data and information contained therein. Such address or hyperlink (including addresses or hyperlinks to website material of the Firm) is provided solely for your convenience and information and the content of the linked site does not in anyway form part of this document. Accessing such website or following such link through the Product or the website of the Firm shall be at your own risk and the Firm shall have no liability arising out of, or in connection with, any such referenced website.

ADDITIONAL INFORMATION IS AVAILABLE UPON REQUEST

EU30315C