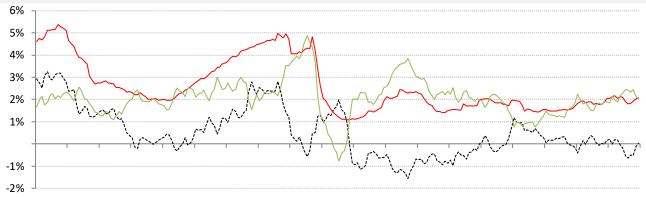


Data Insights: Global Real Rates and Long-term Yields

Tuesday, January 8, 2019

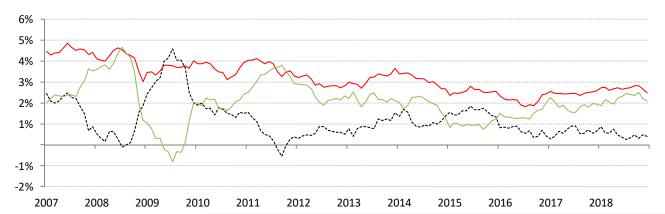
The world-wide average inflation-adjusted cost of debt

US, Euro Area, Japan, UK, Brazil, India and China rates and yields weighted by nominal GDP at official USD (For 10-year, Euro Area is capital-key weighted average of DE, FR, IT, ES, ND, BE)



2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018

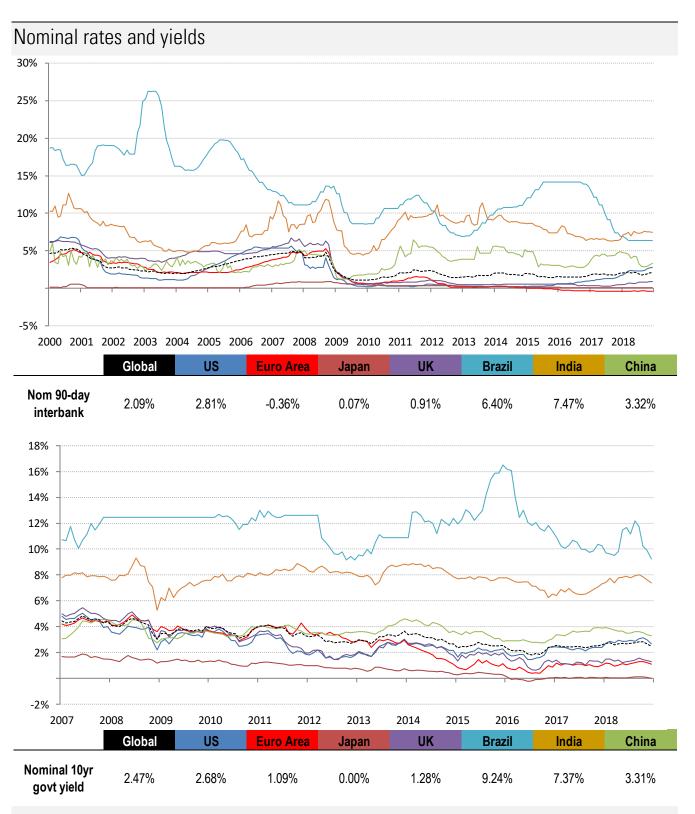
| | | Global | US | Euro Area | Japan | UK | Brazil | India | China |
|----------------------|-----------|--------|-------|-----------|--------|--------|--------|-------|-------|
| Nom 90-day interbank | | 2.09% | 2.81% | -0.36% | 0.07% | 0.91% | 6.40% | 7.47% | 3.32% |
| less | СРІ | 2.06% | 2.20% | 1.60% | 0.80% | 2.30% | 3.56% | 4.86% | 2.20% |
| equals | Real rate | 0.03% | 0.61% | -1.96% | -0.73% | -1.39% | 2.84% | 2.61% | 1.12% |



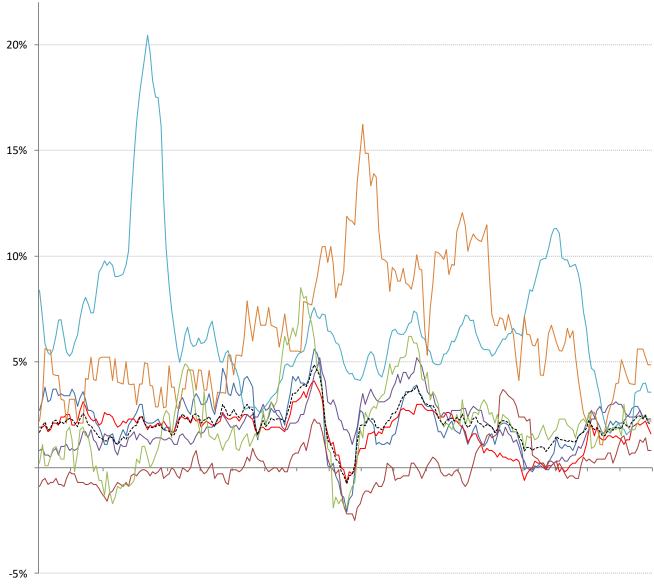
| | | 0 | US | Euro Area | Japan | UK | Brazil | India | China |
|-------------------------|------------|-------|-------|-----------|--------|--------|--------|-------|-------|
| Nominal 10yr govt yield | | 2.47% | 2.68% | 1.09% | 0.00% | 1.28% | 9.24% | 7.37% | 3.31% |
| less | СРІ | 2.06% | 2.20% | 1.60% | 0.80% | 2.30% | 3.56% | 4.86% | 2.20% |
| eguals | Real yield | 0.39% | 0.48% | -0.61% | -0.80% | -1.02% | 5.68% | 2.51% | 1.11% |

Source: Respective data bureaus, TrendMacro calculations

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2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018

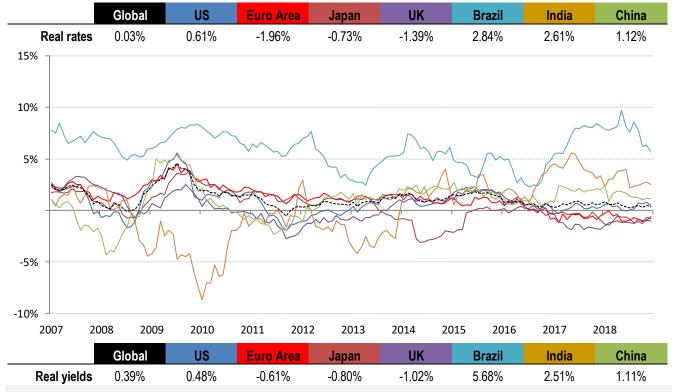
| | Global | US | Euro Area | Japan | UK | Brazil | India | China |
|---------|--------|-------|-----------|--------|-------|--------|-------|-------|
| СРІ | 2.06% | 2.20% | 1.60% | 0.80% | 2.30% | 3.56% | 4.86% | 2.20% |
| | , | , | , | 0.0070 | , | 0.00,0 | | , |

Source: Respective data bureaus, TrendMacro calculations

Real rates and yields: nominal minus YOY headline CPI change



2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018



Source: Bloomberg, respective data bureaus, TrendMacro calculations