

The Outlook and the Policy Mix: MMT to the Rescue?

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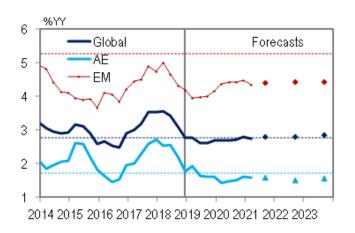
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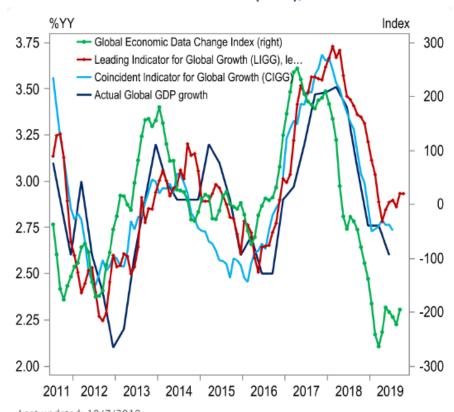
Overview of October Projections and Prospects

Global, AE, EM - GDP Growth (%YY), 2014-2023F



Note: At market exchange rates. Dashed lines show 2000-2017 average growth. Source: National Statistical Offices, IMF and Citi Research

Global Tracker - Citi Coincident and Leading Indicators for Global Growth (%YY), 2011-2019



Last updated: 10/7/2019 Coincident data through: July 2019

Leading indicator data (3m lead) shown through: September 2019

Note: Q2 2019 data availability of 65%. Source: Citi Research. For more details, see: Global Economics View - New Global Growth Trackers: Stabilization, no Turning Point Yet

Policy Being Deployed—But the Right Mix?

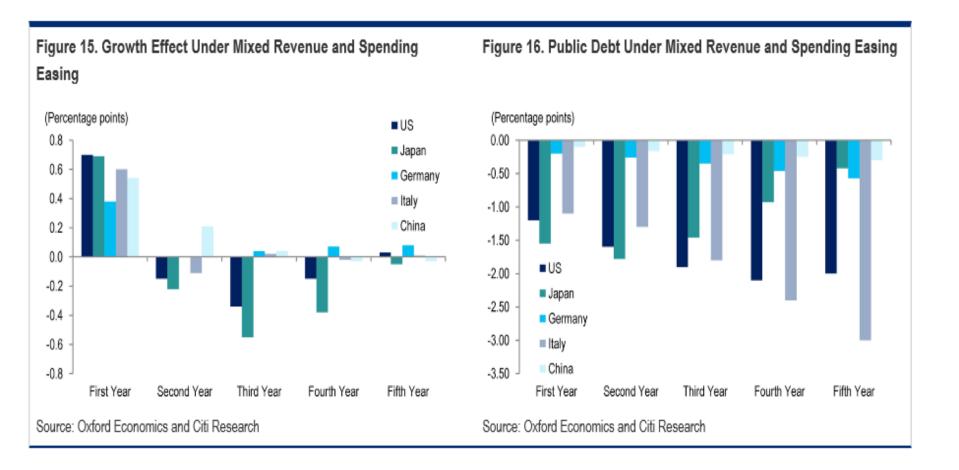
Medium-term Change in Fiscal balance (% of GDP) and in Monetary Policy (bp) as of various Global Economy Chart Book dates.

Change in policy rate (bp) over 2019-2023					Change in fiscal balance (% of GDP) over 2019-2023			
(estimate as of)					(estimates as of)			
Economy	Dec-18	Apr-19	JuF19	Oct-19	Dec-18	Apr-19	Jul-19	Oct-19
Global	54	17	-22	-29	-0.4	-0.6	-0.3	-0.1
AEs	122	75	12	1	-0.8	-0.8	-0.4	0.0
EMs	-63	-78	-90	-96	0	-0.21	-0.24	-0.37
US	108	60	10	-15	-1.9	-2.3	-1.2	0.2
EΑ	150	117	0	0	-0.3	-0.7	-0.5	-0.7

Note: Select Economies – Change in Citi's Expectations for Monetary Policy Rate and Fiscal Balance over 2019-

2023. Source: Citi Research

Taking Out More Policy Insurance: Balanced Budget Multiplier



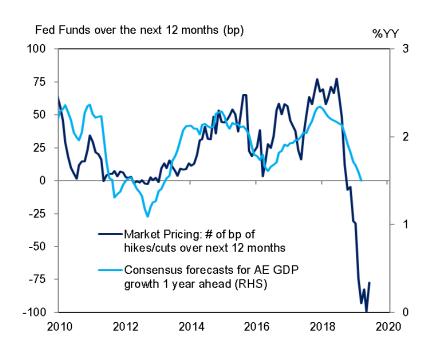


So, MMT to the Rescue? Not Quite

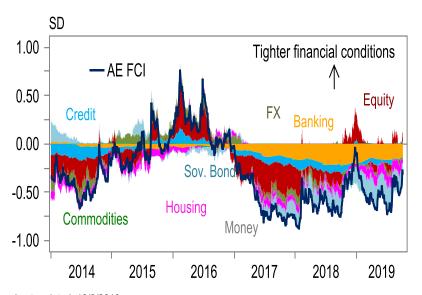
- What right is not new
 - Consolidate public finances (for analytical purposes)
 - -Monopoly on issuance (Libra?)
 - Seniorage relaxes fiscal constraint (a little bit)
- What's new is not right
 - -Public debt is a future burden, unless...
 - -ZLB is not a natural state, unless....
- What's left is too simplistic
 - Exorbitant privilege is not immutable
 - Fiscal choices matter
 - -Financial sector is absent

MMT to the Rescue? Not Quite—Don't Ignore the Intermediaries

Expectations for AE GDP Growth 12 months ahead vs. Market Pricing for Fed Funds over the next 12 months



AE – FCI and Market-wise Contribution (SD), 2014-2019 September



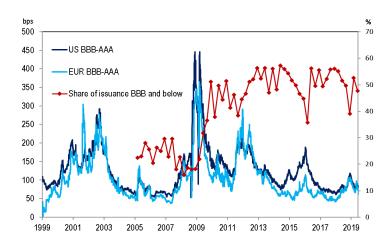
Last updated: 10/8/2019 Data through: 10/4/2019

Note: Higher (lower) values suggest financial conditions are tightening (easing). Positive values suggest tighter conditions relative to 2004-17 average

Source: National Statistical Offices, Macrobond, Bloomberg and Citi Research

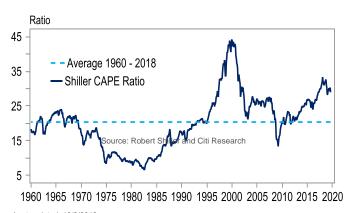
ZLB + Financial Intermediates = Asset Overvaluation?

US and Euro Credit Spreads vs Share of BBB (and Below), 1999-2019 Sep



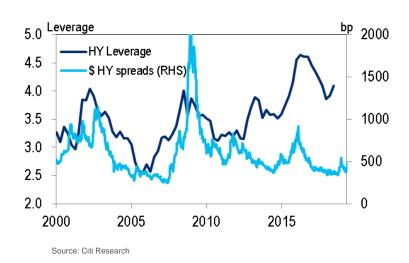
Note: Last updated 9/26/2019. Spread data through 9/26/2019, Issuance data through Q2 '19. Source: Citi Research

Shiller Cyclically Adj S&P Price to Earnings Ratio



Last updated: 10/8/2019 Data through: August 2019

HY Leverage (Ex-Finance, Utilities) and HY spreads



EM IG Spreads relative to average and 2SD



Source: Citi Research, Citi Velocity.

See: EM Credit Weekly - Have EM spreads gone too far?.

Appendix A-1

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