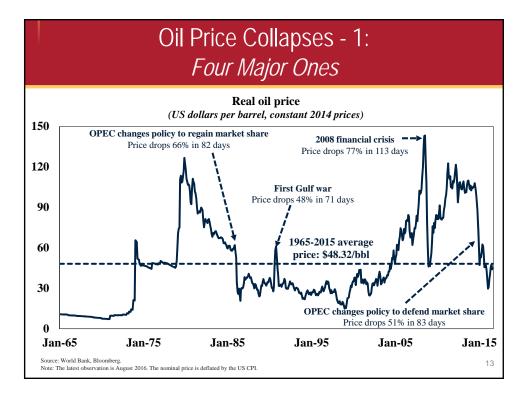
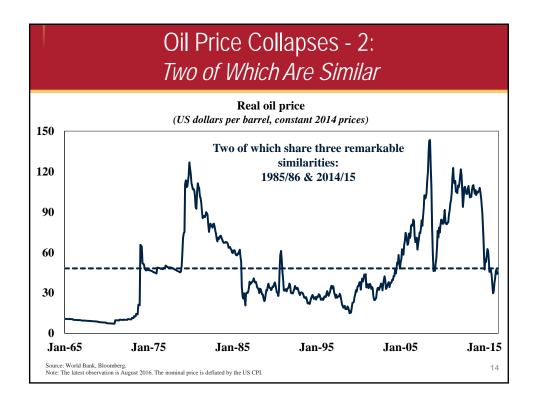


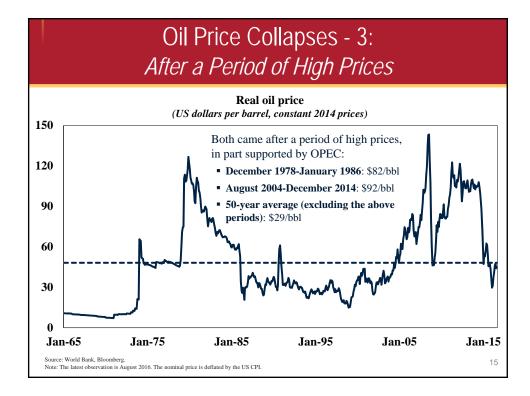
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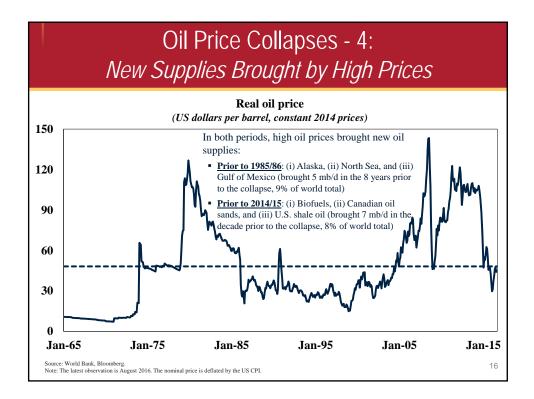
OPEC's Objective: Changing with the Market...

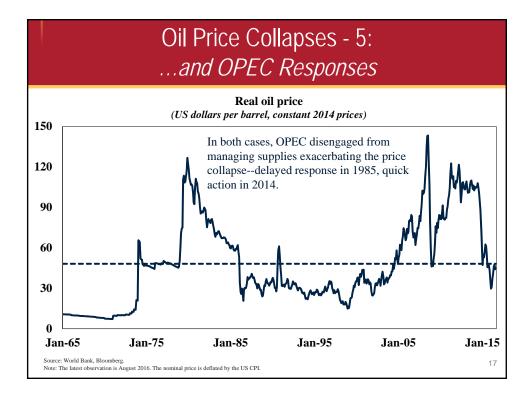
- Following the East Asian financial crisis when oil dropped below \$10/bbl, OPEC began setting a price target range, initially at \$20-25/bbl and gradually reaching \$100-110/bbl.
- In the face of weakening demand and increasingly strong supplies from unconventional sources, OPEC decided not to cut production in order to defend market share (November 27, 2014). An earlier, similar move was taken in 1985-86.
- The decision most likely reflects the realization that global commodity markets cannot be "managed" for long. Artificially maintaining high and stable prices not only attracts suppliers not bound by the agreements but also encourages development of substitute products.

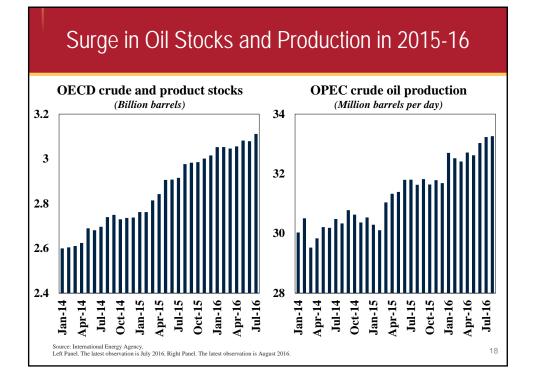


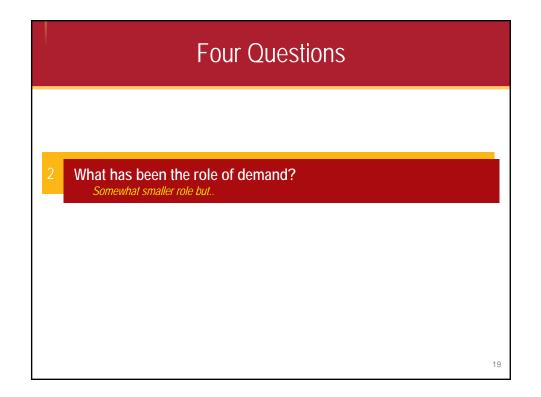


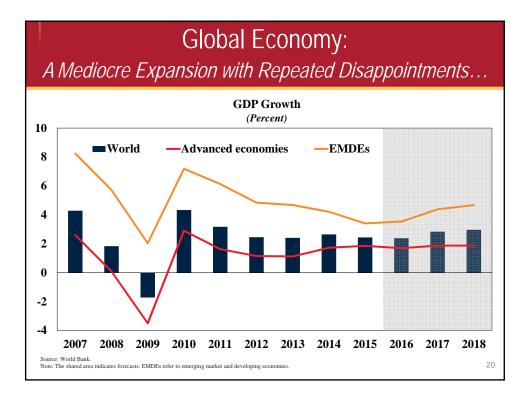


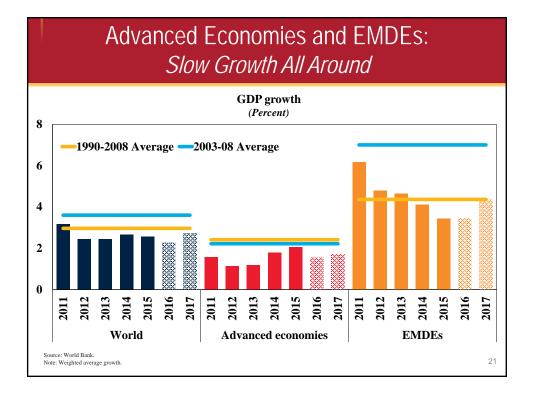


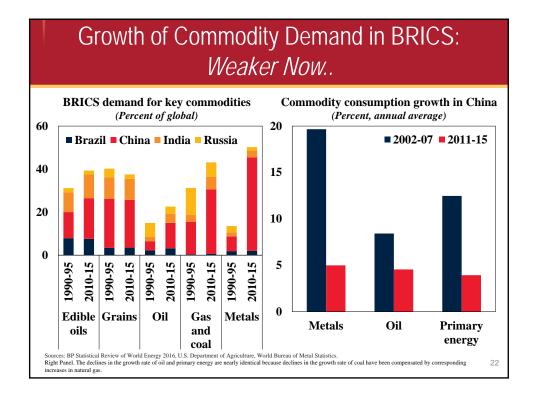








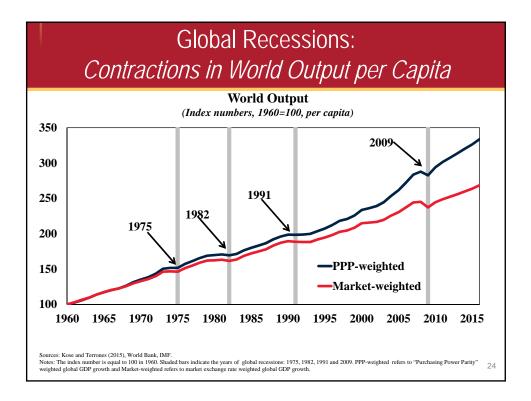


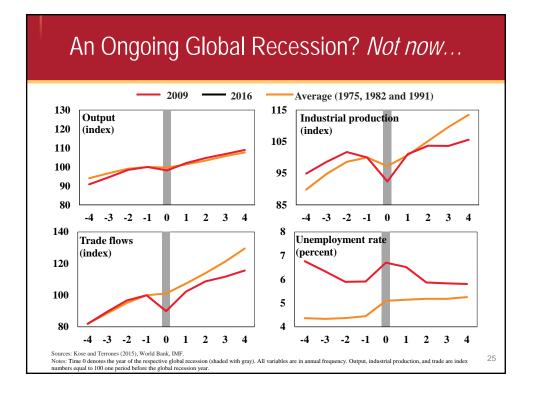


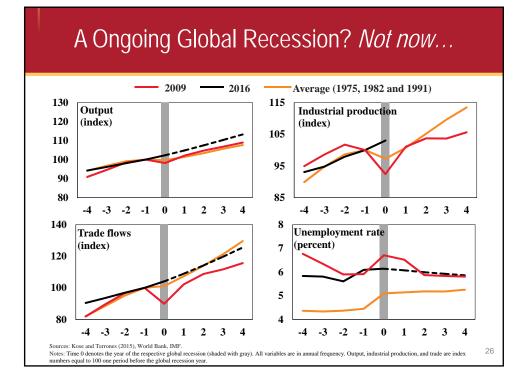
A Constant Question: Is a Global Recession Coming?

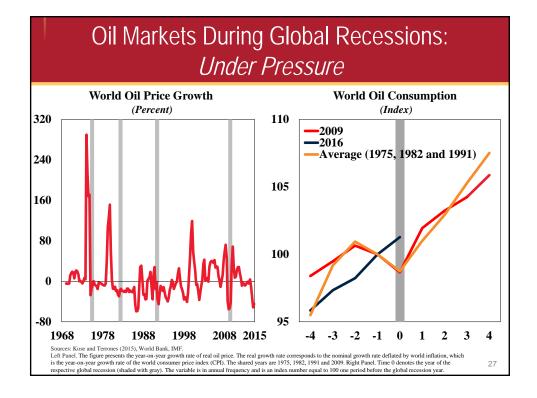
- A global recession is defined as a decline in world real GDP per capita accompanied by a broad synchronized deceleration in multiple measures of global economic activity (IP, trade, capital flows, employment, energy consumption).
- Four global recessions: 1975 (1.5; -0.4), 1982 (0.7; -1.0); 1991 (1.1; -0.5), 2009 (-2.0; -3.2)
- The average decline in world per-capita output is 1.3 percent during these episodes; about 3 percentage points lower than the average (with market weights)
- Two global downturns: Lowest global growth except recessions 1998 (2.3; 0.9), 2001 (1.7; 0.4)

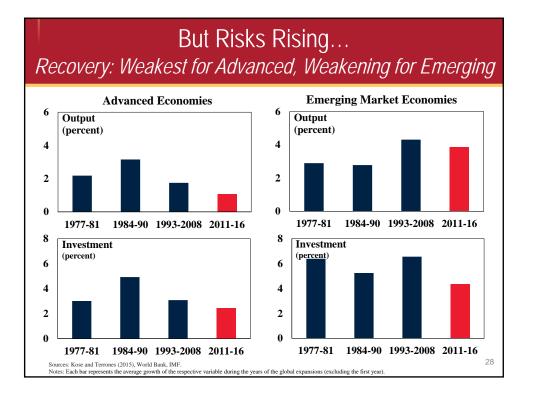
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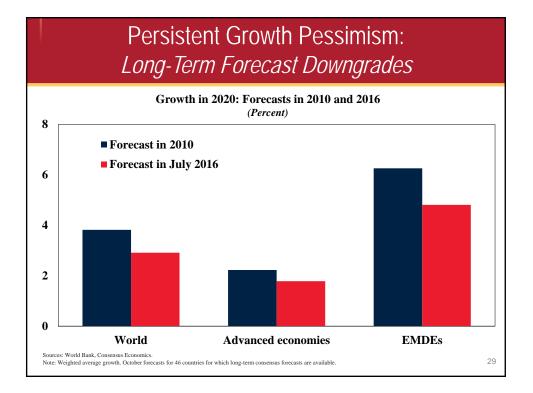


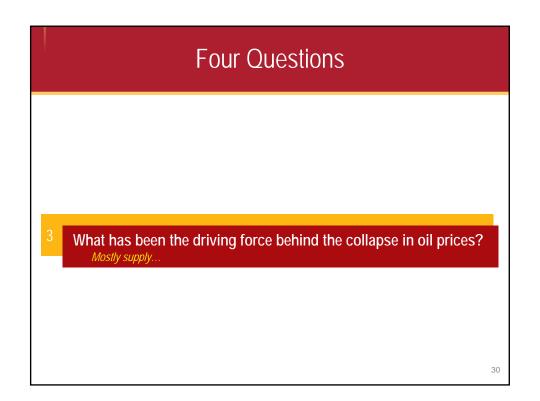


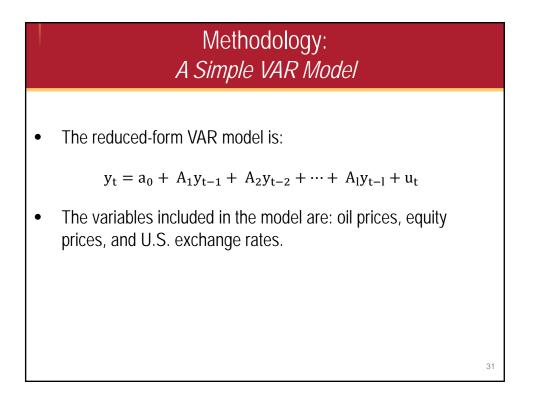








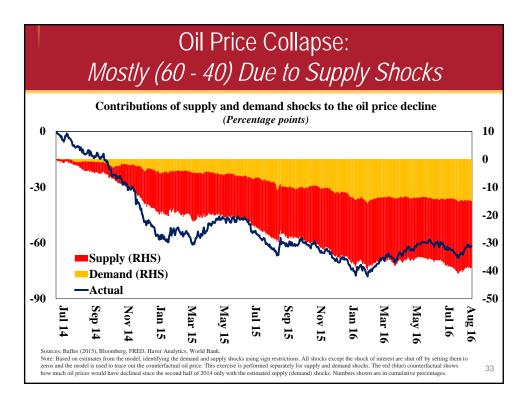


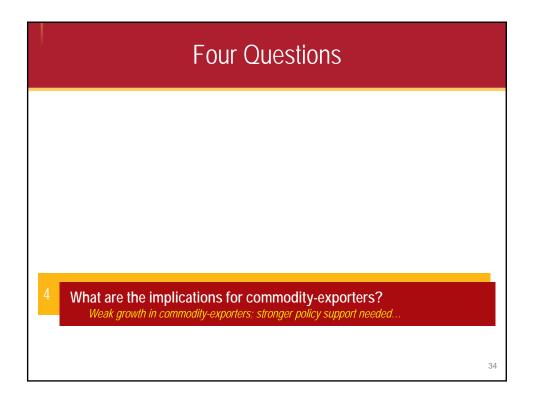


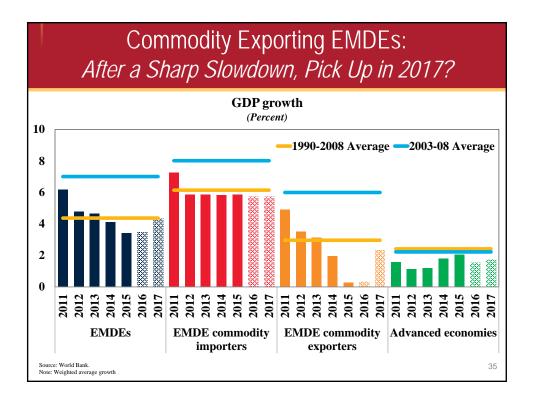
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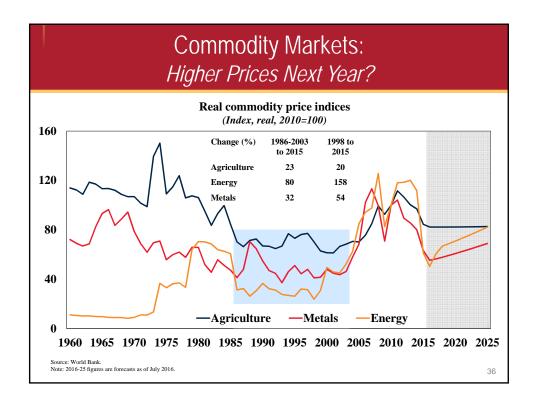
Methodology: Shock Identification

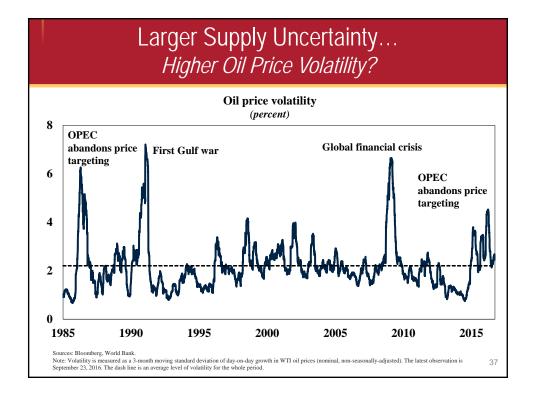
- Supply and demand shocks are identified using sign restrictions
- Two orthogonal shocks with impulse responses that satisfy certain signs are estimated using the model
- *Adverse demand shock:* Oil and equity prices decline reflecting a weak economy
- Favorable supply shock: Oil prices decline but equity prices increase
- The differing movement of equity prices allows one to discriminate between supply and demand shocks

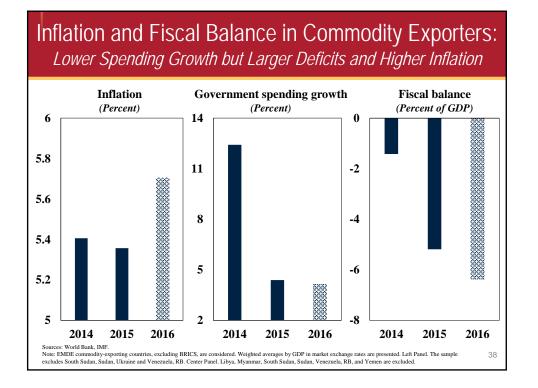


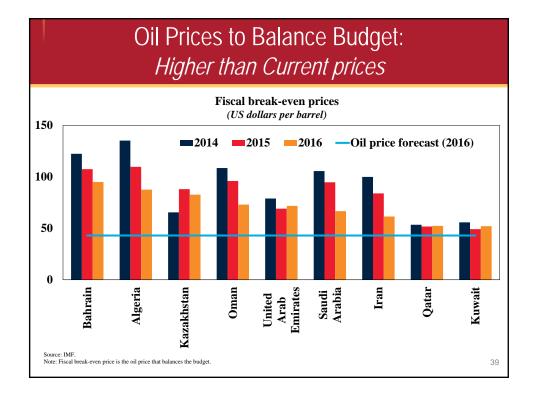












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An Umbrella of Growth Enhancing Policies: *To Address Cyclical and Structural Challenges*

| | What types of policies needed? |
|------------|---|
| Fiscal | Effective; Efficient; Medium-Term fiscal plan |
| Monetary | Credible; Price stability; Financial stability |
| Structural | Effective; Demand side implications; Supportive measures |
| Global | Promotion of trade and financial integration; Supportive measures; Pooling resources for investment |
| | 40 |

