

The Great Plunge in Oil Prices: Causes, Consequences and Policy Responses

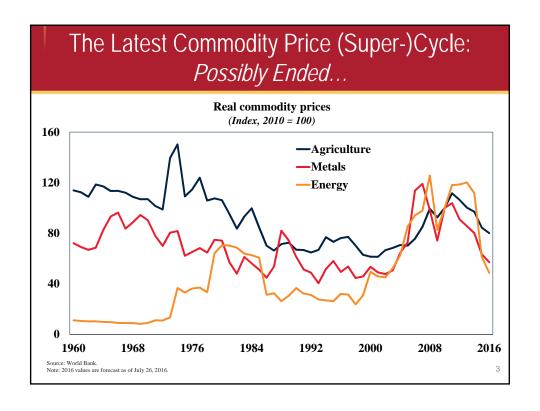
September 28, 2016

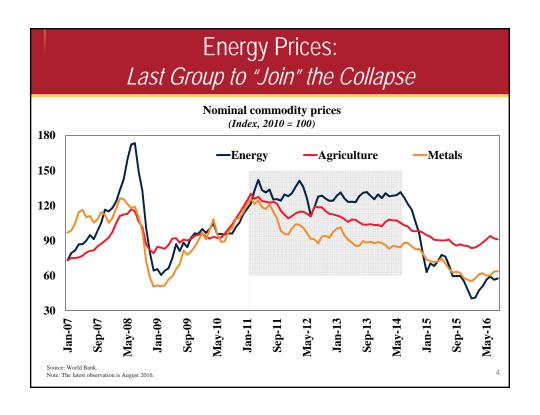
M. Ayhan Kose akose@worldbank.org

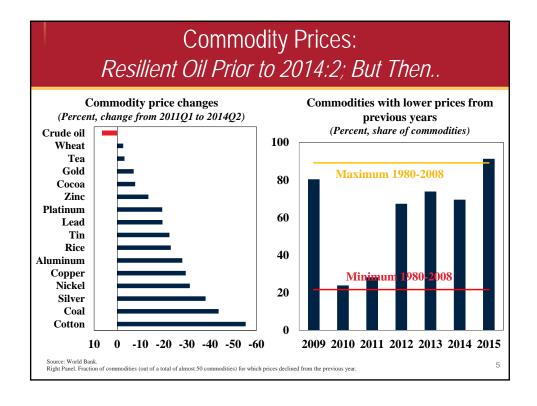
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Select Publications on Global Economy

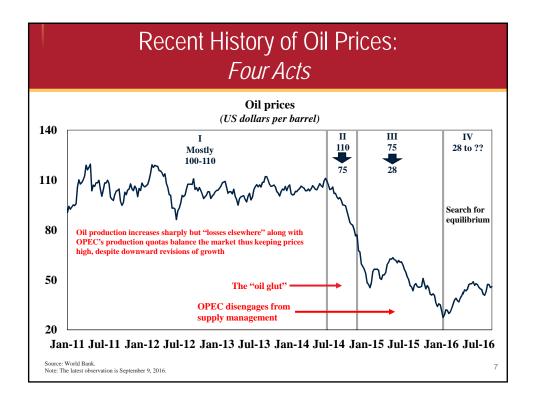
- Global Economic Prospects January 2017
 (January and June)
- Commodity Markets Outlook October 2016
 (January, April, July, and October)
- · Global Monthly, Global Weekly, and Global Daily
- Negative Interest Rate Policies: Sources and Implications
 Arteta, Kose, Stocker and Taskin, Policy Research Working Paper August 2016

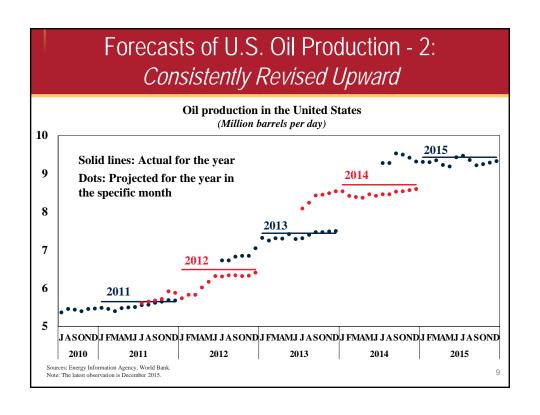


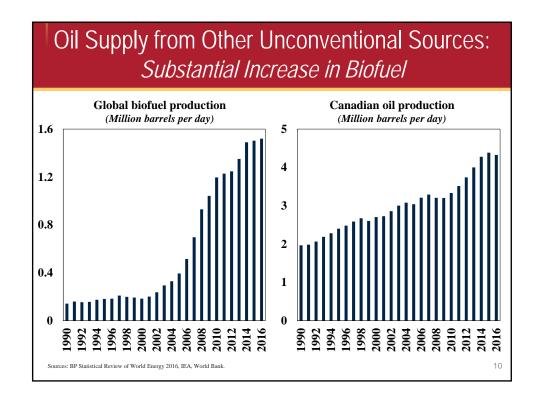


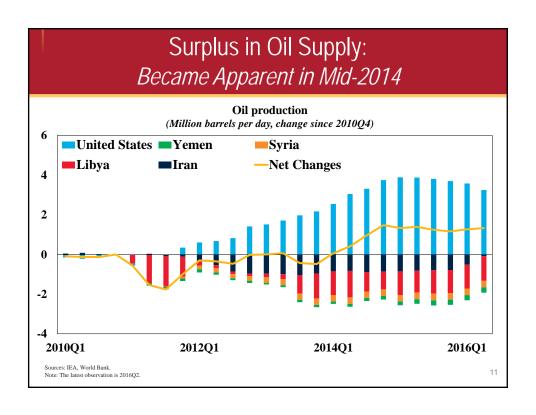






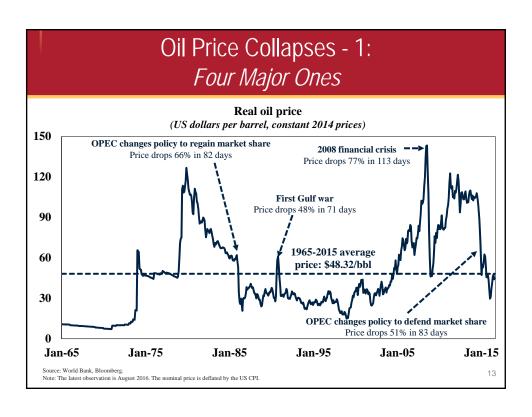


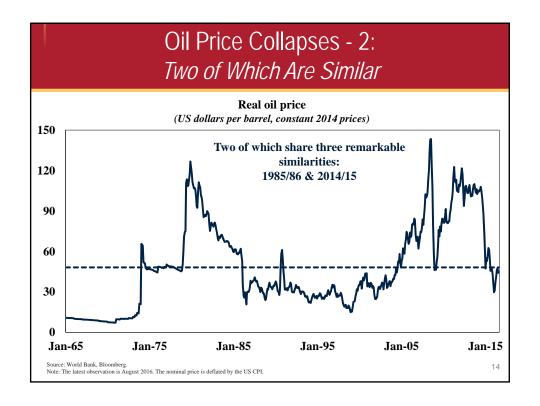


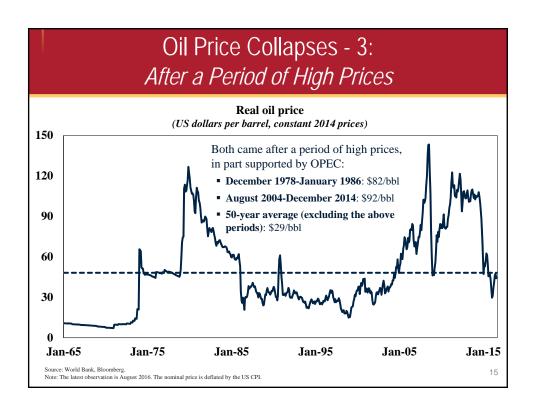


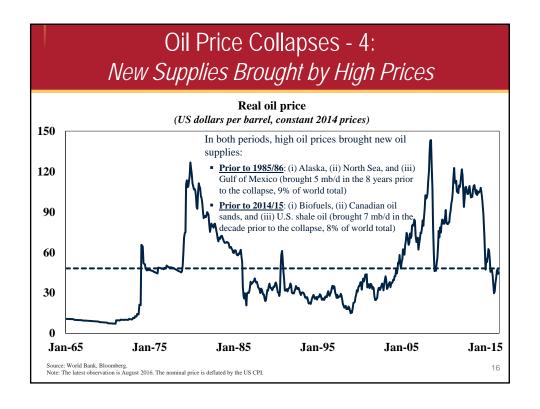
OPEC's Objective: Changing with the Market...

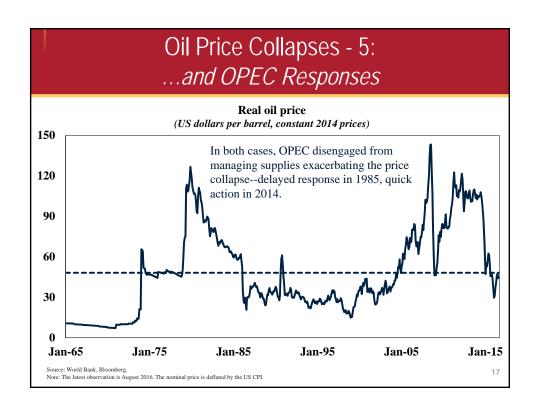
- Following the East Asian financial crisis when oil dropped below \$10/bbl, OPEC began setting a price target range, initially at \$20-25/bbl and gradually reaching \$100-110/bbl.
- In the face of weakening demand and increasingly strong supplies from unconventional sources, OPEC decided not to cut 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.

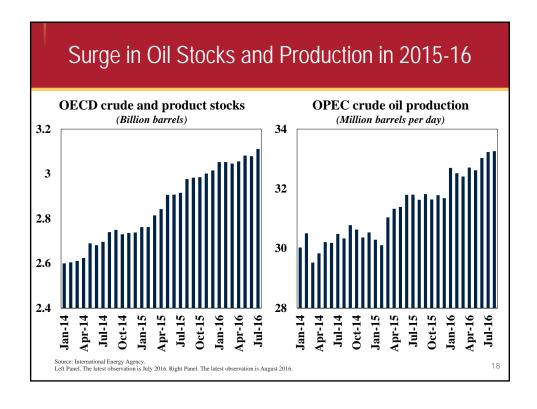


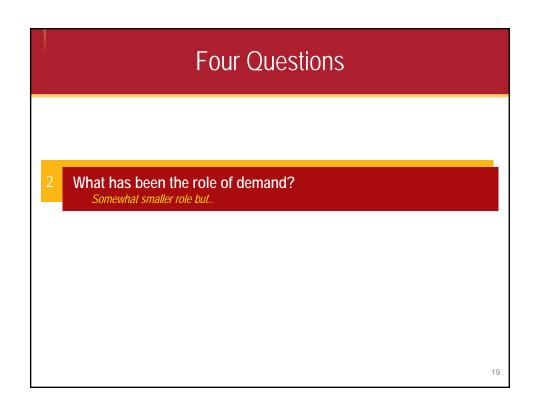


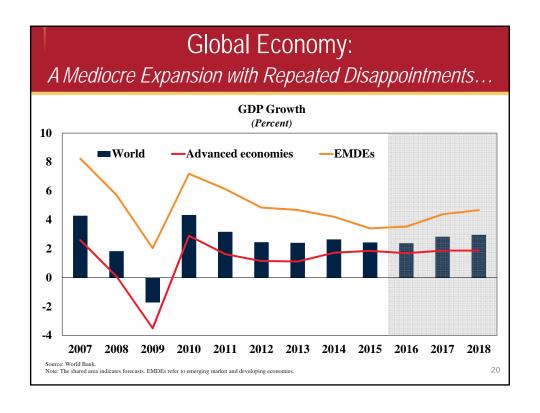


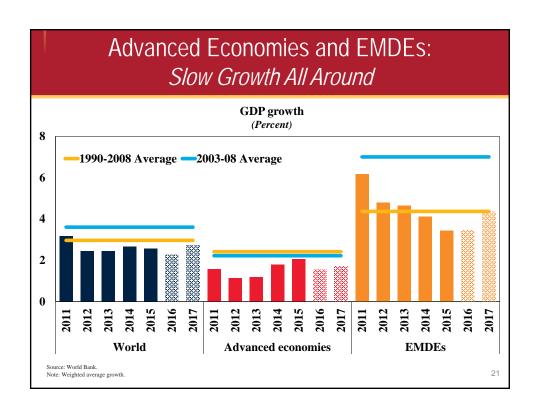


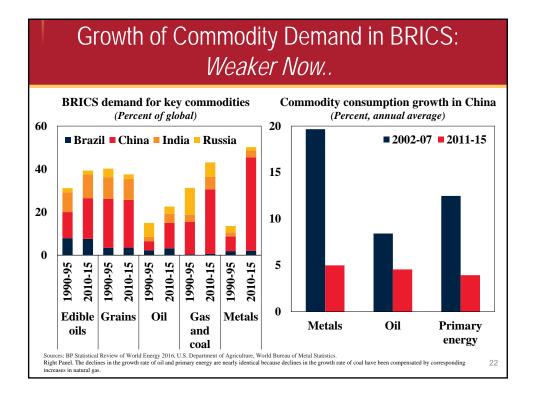






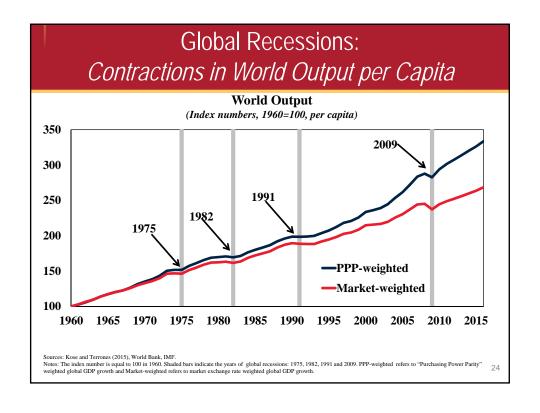


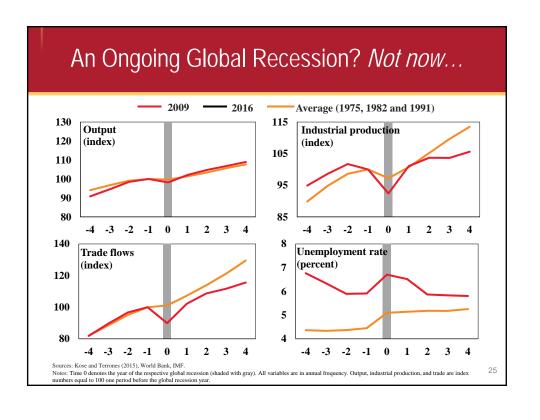


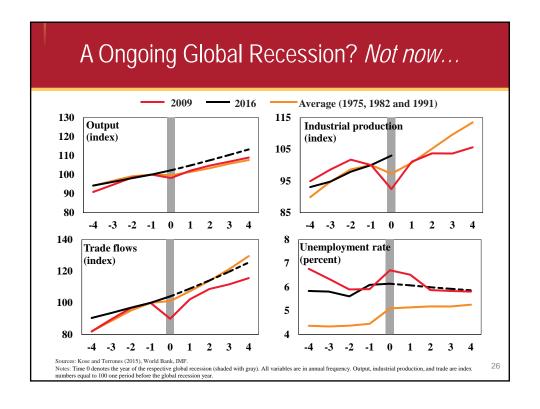


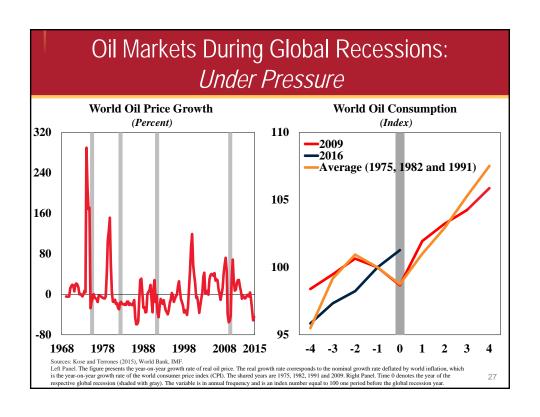
A Constant Question: Is a Global Recession Coming?

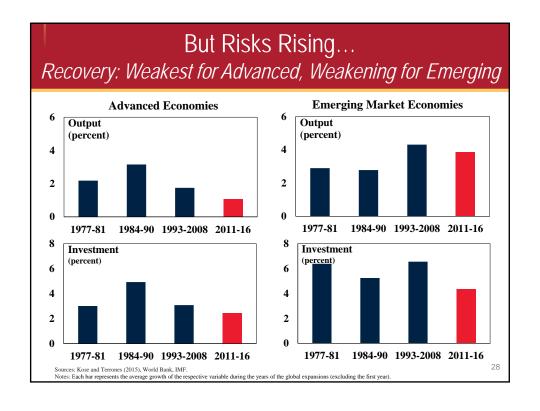
- A global recession is defined as a decline in world real GDP per capita
 accompanied by a broad synchronized deceleration in multiple measures of global
 economic activity (IP, trade, capital flows, employment, energy consumption).
- Four global recessions: 1975 (1.5; -0.4), 1982 (0.7; -1.0);
 1991 (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)

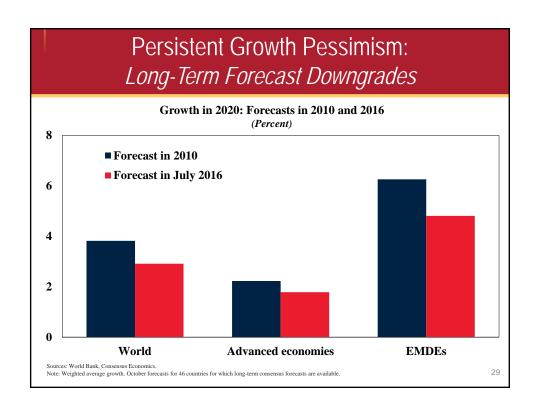












Four Questions

What has been the driving force behind the collapse in oil prices?

Mostly supply...

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Methodology: A Simple VAR Model

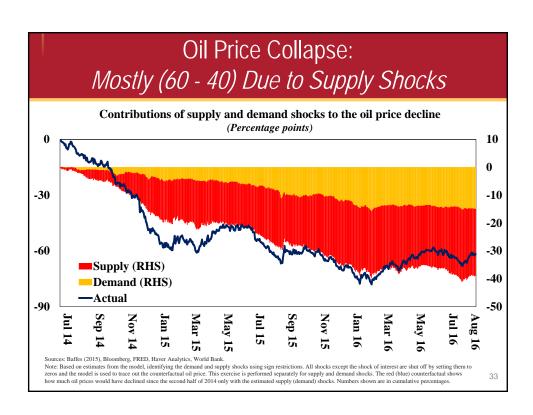
• The reduced-form VAR model is:

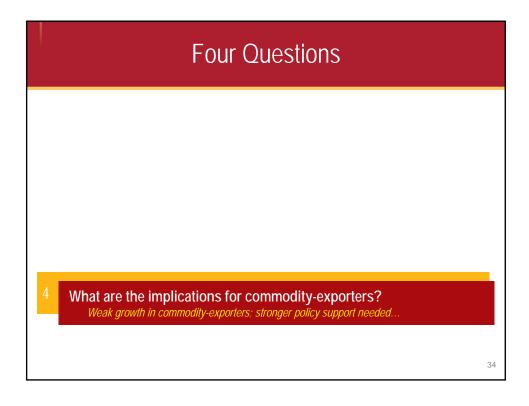
$$y_t = a_0 + A_1 y_{t-1} + A_2 y_{t-2} + \dots + A_l y_{t-l} + u_t$$

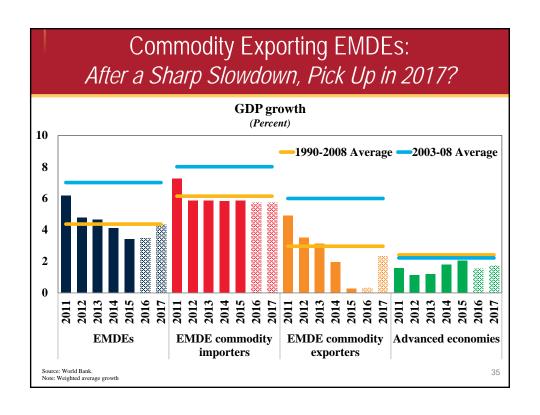
 The variables included in the model are: oil prices, equity prices, and U.S. exchange rates.

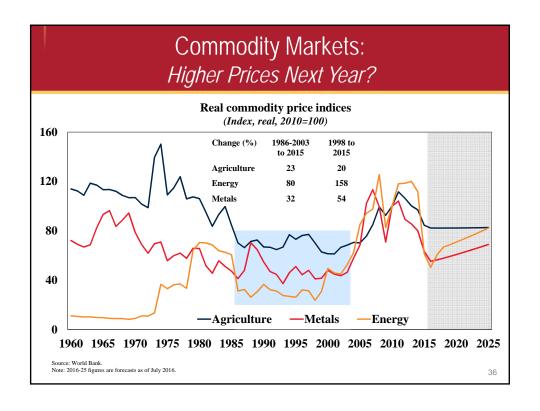
Methodology: Shock Identification

- 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

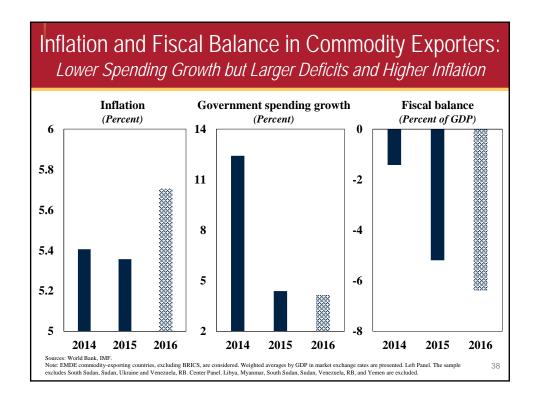


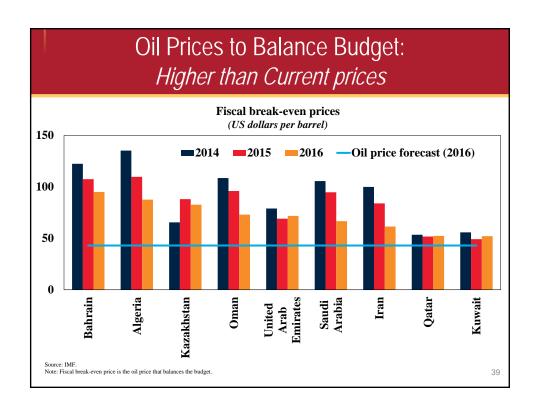




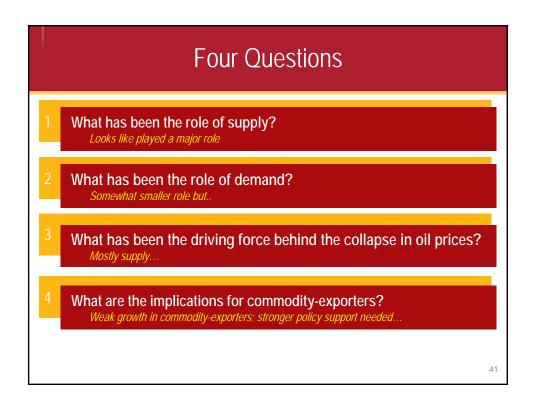








An Umbrella of Growth Enhancing Policies: To Address Cyclical and Structural Challenges		
What types of policies needed?		
Fiscal	Effective; Efficient; Medium-Term fiscal plan	5
Monetary	Credible; Price stability; Financial stability	į.
Structural	Effective; Demand side implications; Supportive measures	,
Global	Promotion of trade and financial integration; Supportive measures; Pooling resources for investment	F
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Questions & Comments Thanks!

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