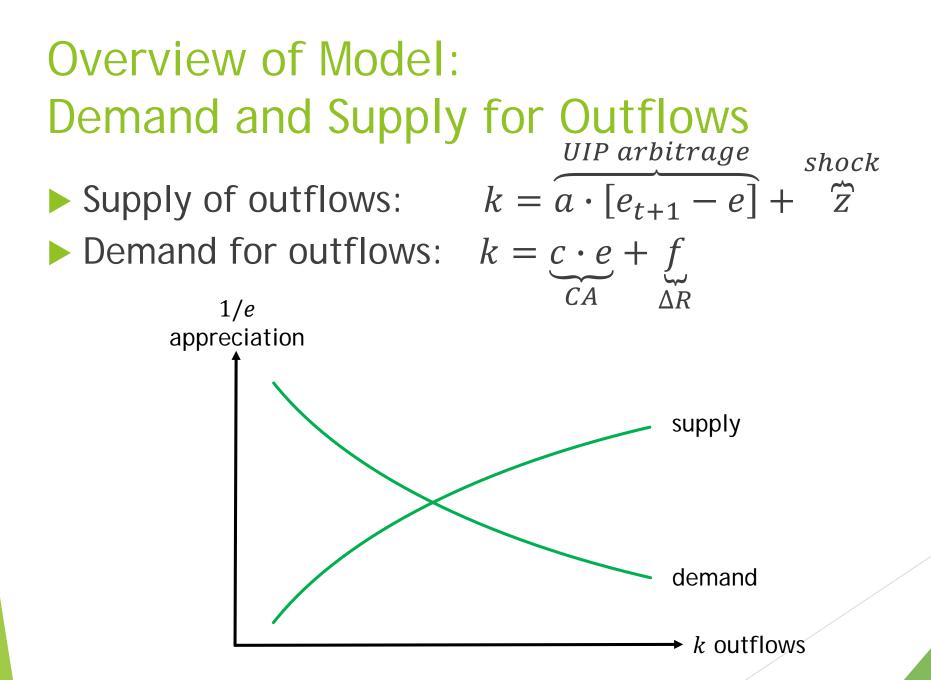
Managing Capital Outflows: The Role of Foreign Exchange Intervention by Basu, Ghosh, Ostry and Winant

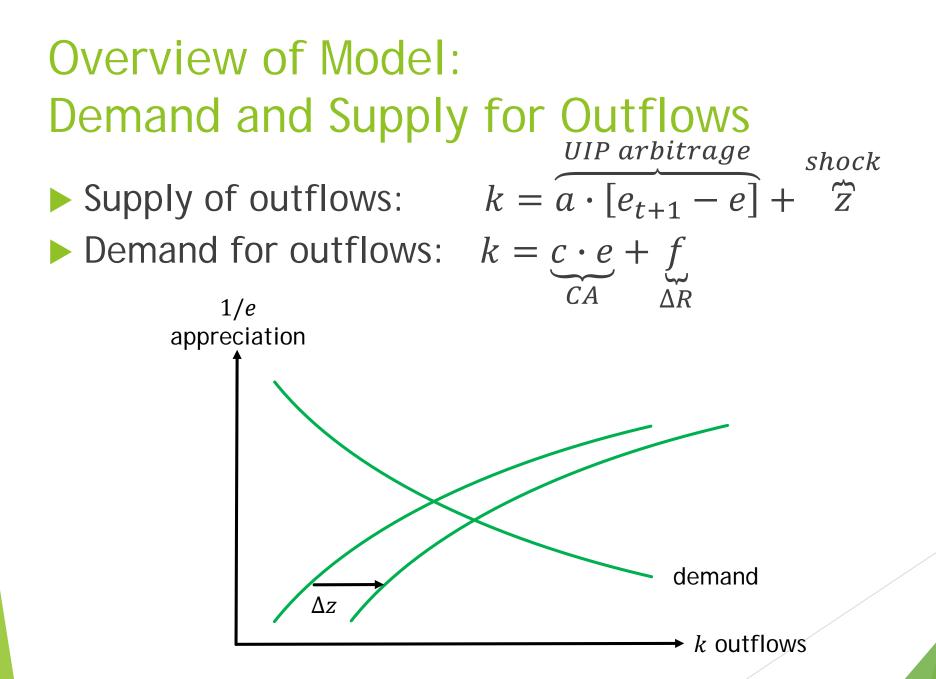
> Discussion by Anton Korinek Johns Hopkins University and NBER

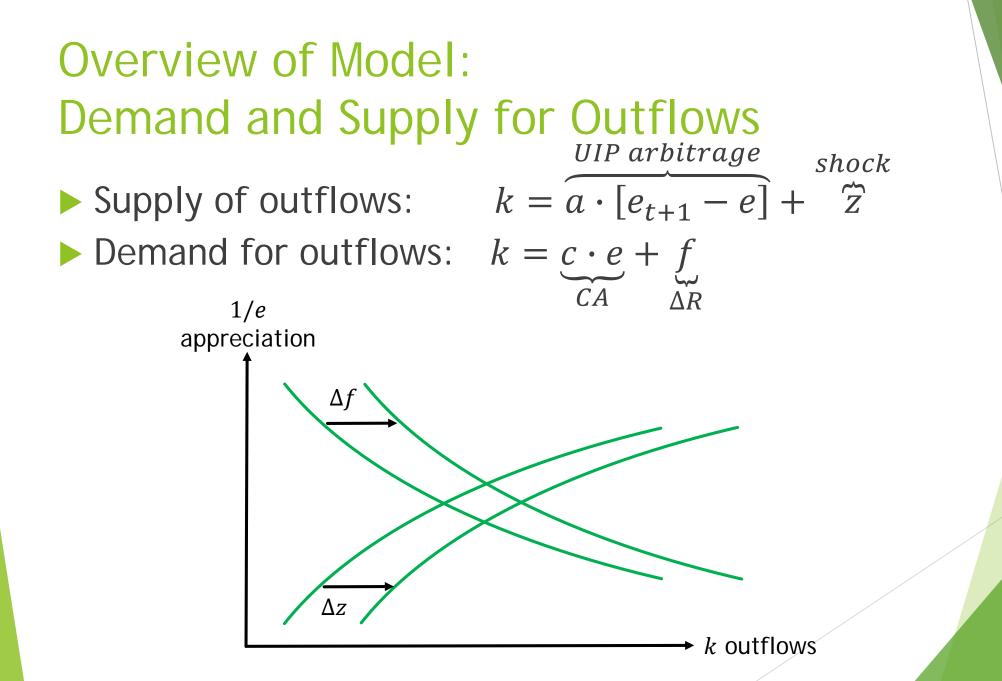
Summary

I. Highly sophisticated intertemporal model of foreign exchange intervention

- market segmentation breaks UIP arbitrage
- > exchange rate = asset price = PDV(future shocks & interventions)
- II. Analysis of optimal intervention
 - ▶ if CB cares about *level* of exchange rate
 - solved under commitment and under time consistency







Overview of Model: Intertemporal Structure

Supply of outflows: $k = \overbrace{a \cdot [e_{t+1} - e]}^{UIP \ arbitrage} + \overbrace{z}^{shock}$ Demand for outflows: $k = \underbrace{c \cdot e}_{CA} + \underbrace{f}_{\Delta R}$

- iterate forward to obtain *e* as asset price $e = PDV(z_{t+s} - f_{t+s})$
- discount factor $\left(\frac{a}{a+c}\right) < 1$ each period
- ► future intervention appreciates current *e*

Analysis of Optimal Policy

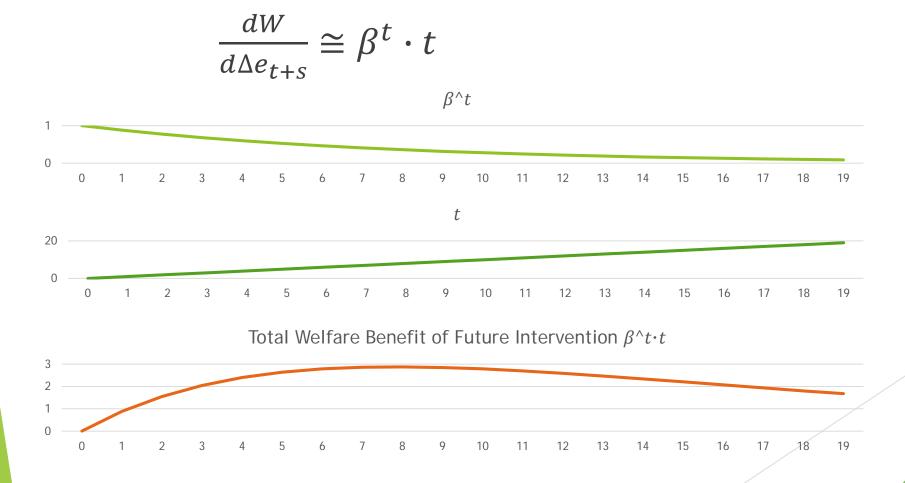
Welfare function: $W = -\sum_t \beta^t (e_t - e^*)^2$

- ▶ policymaker values *level* of e_t
- benefit of intervention at t adds up since it appreciates e_t, e_{t-1}, ..., e₁, e₀
- \triangleright but it is also discounted at rate β
- ▶ in authors' preferred specification,

$$\frac{dW}{d\Delta e_t} \cong \beta^t \cdot t$$

Intertemporal Structure

Benefit of intervention for misaligned exchange rate:



Main Results:

Under commitment:

- promise future intervention at date with maximum payoff
- potentially delayed start
- intervene until reserves depleted (or shock over)

Main Results:

Under time consistency:

- keeping reserves = only way to create expectations of future intervention
 always keeping some reserves is beneficial
- depreciation much greater, welfare lower, esp. when reserves are low
- → simple rules (e.g. peg, fixed intervention, ...) may serve as 2nd best form of commitment

Q: Does Welfare Depend on Level or Changes in Exchange Rate?

Welfare function: $W = -\sum_t \beta^t (\Delta e_t)^2$

 \triangleright policymaker dislikes changes in e_t

- same interesting intertemporal effects of intervention
- but very different implications for optimal policy

interesting to elaborate (e.g is time consistency problem smaller?)

Q: Alternative Reading of Examples of Forex Intervention

Several of the examples cited in the paper (e.g. Russia, Korea, Brazil):

- banks/corporates with large currency mismatch, implicitly earning profits from carry trade
- keeping fixed exchange rate = implicit bailout = socializing losses that are flipside of carry trade

Optimal policy: forbid mismatches very little forex intervention