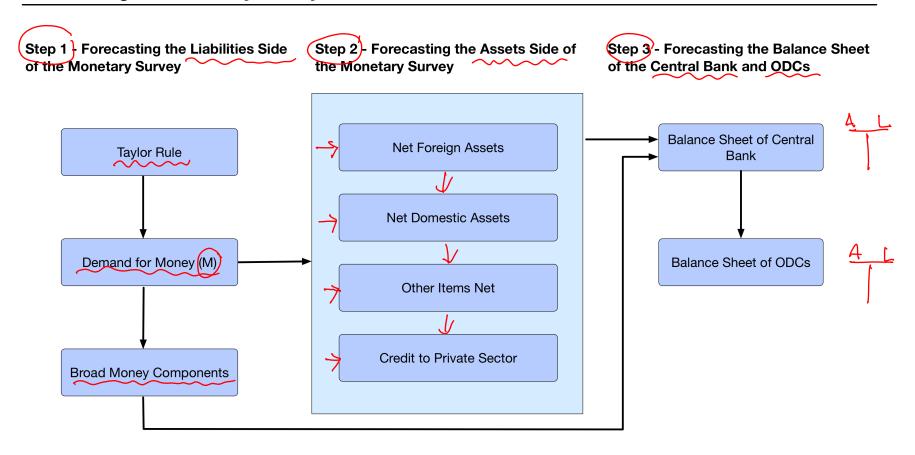
Forecasting the Monetary Survey



Finalizing the Asset Side of the Monetary Survey

$$\Delta M_{t} = \Delta NFA_{t} + \Delta NDA_{t}$$

$$\Delta NDA_{t} = \Delta NDC_{t} + \Delta OIN_{t}$$

$$\Delta NDC_{t} = \Delta NCG_{t} + \Delta CPS_{t}$$

Forecasting Net Foreign Assets (NFA)

$$NFA_{t} = e_{t}^{EOP} \left(\underbrace{NFA_{t-1}}_{e_{t-1}^{EOP}} + \Delta RES_{t} + \Delta BNFA_{t} \right)$$

- e_t^{EOP} is the exchange rate (domestic currency per U.S. dollar) at the end of period t
- \triangle ARES is the change in reserves (in U.S. dollars) from the BOP
- $\triangle BNFA$ is the change in other net foreign assets of the banking system (not included in reserves) from BOP, financial account.

Forecasting Other Items, Net

Other Items, Net (OIN) affected by:

- - NFA of central bank and commercial banks
 - Residents' foreign currency deposits or loans
- Other
 - Changes in bank capital
 - Bank profits/losses deriving from FX currency transactions

Forecasting Other Items, Net

$$\underbrace{OIN_{t}}_{t} = \underbrace{OIN_{t-1}}_{t-1} - \underbrace{Valuation adjustment}$$

$$\underbrace{Valuation adjustment}_{t} = \left(NFA_{t}^{NC} - NFA_{t-1}^{NC}\right) - \underbrace{Transaction flow}_{t}$$

$$\underbrace{CIN_{t-1}}_{t-1} - \underbrace{Valuation adjustment}_{t-1} - NFA_{t-1}^{NC}$$

$$\underbrace{CIN_{t-1}}_{t-1} - \underbrace{Valuation adjustment}_{t-1}$$

where:

 e_t^{AVG} is the average exchange rate (domestic currency units per USD) NFA_t^{NC} , NFA_t^{S} are at the end of period t

Forecasting Net Domestic Credit and Private Sector Credit

$$\Delta NDC_t = \Delta M_t - \Delta NFA_t - \Delta OIN_t$$

$$\Delta CPS_t = \Delta NDC_t - \Delta NCG_t$$