

Cash and Debt Management Coordination

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Outline

The
Principles of
Debt
Management

Debt
Management
Strategy and
its Execution

Debt & Cash
Managers:
Functions &
Objectives

Debt & Cash
Managers:
Coordination
Mechanisms

What is Sovereign Debt Management?

“The process of establishing and executing a strategy for managing the government’s debt* in order to:

- Raise the required amount of funding at the lowest possible cost over the medium to long term consistent with a prudent degree of risk
- Meet related goals – e.g. developing an efficient market for government securities.”

IMF/World Bank, Guidelines for Public Debt Management, (revised April 2014)

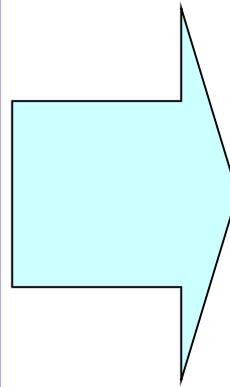
“Debt” includes bills, bonds (domestic and external), loans and credits (whether from governments, international financial institutions, central bank or commercial banks, internal or external) and any outstanding arrears [beware of “net” debt]

Debt Management is Important!

- Successive crises in EMCs characterised by vulnerabilities arising from poor debt structures; and crystallisation of contingent liabilities

Causes

- Size and growth of indebtedness (Debt/GDP)
- Poorly structured portfolio - maturity, currency or interest rate composition (excessive focus on short-term or FX debt)
- Large and unfunded contingent liabilities (East Asian crisis)
- Exposure to economic shocks (lack of liquidity)



Effects

- Fiscal problems – both short- and long-term
- Financial and economic vulnerability
- Damage to creditworthiness
- Damage to private sector development
- Poor inter-generational equity *

* “Blessed are the young for they shall inherit the national debt.”

Herbert Hoover (US President 1929-33)

Both Size and Composition Matter

- Over 50% of sovereign debt defaults in recent decades even when Debt/GDP is below 60% (arbitrary, but the target threshold adopted by Eurozone & other countries)

Debt Sustainability

- Ability to continue servicing debt without an unrealistically large macro-economic adjustment
- Feeds into fiscal policy decisions, especially the primary balance

Debt Strategy

- Focuses on the composition of the debt portfolio, rather than its overall size.
- Objective is improved resilience to economic shocks

- Important in practice to share data and analysis

The 6 Building Blocks of Sound Practice

1. Debt Management Objectives

Objectives, priorities and Coordination with Monetary and Fiscal Policy

2. Transparency and Accountability

Clarity of roles; open process; publication of information; integrity

3. Institutional Framework

Governance, legal and decision-making framework, organisation and management of operations

4. Debt Management Strategy

Monitoring and evaluating risks

5. Risk Management Framework

Trading off costs and risks; taking account of contingent liabilities

6. Development and Maintenance of an Efficient Market for Government Securities

Guidelines for Public Debt Management

IMF and World Bank, 2001, updated 2014

Governance in Debt Management: the Main Components

Structures that shape and direct operations

- Broad legal apparatus (statutory legislation, ministerial decrees, etc) that defines aims, authorities, and accountabilities
- The role of Parliament or National Assembly

Policy process

- How decisions are made – both at a high level and day to day
- Who makes them and who is consulted

Management framework

- The formulation and implementation of strategy, business planning, operational procedures, risk management, capacity building, and internal reporting responsibilities

Accountability

- Audit
- Wider reporting framework

Governance: the Framework

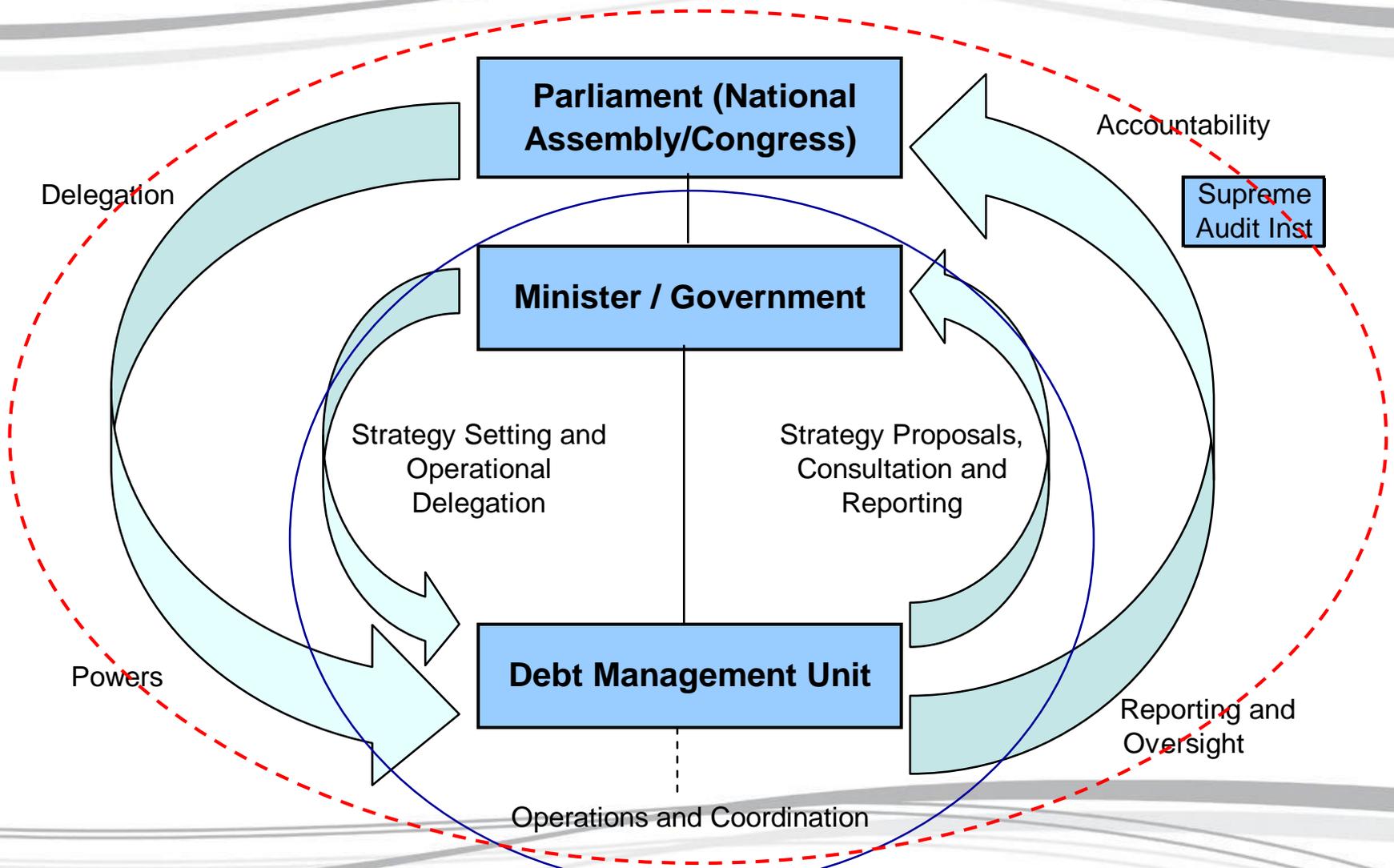


Chart Adapted from: World Bank Debt Management Performance Acceptance Tool

Different Organisational Models

The typical traditional MoF - Treasury may be an "agency" with responsibilities for payments, accounts and cash management. Usually the Debt Directorate will issue bonds and bills (Treasury in Indonesia); but the Treasury may invest surplus cash



Some countries have amalgamated the Treasury and Debt Directorate, although they do not all work in an integrated way



The "European Model". A separate Debt Management Office with cash management responsibilities - which may be an "agency"



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Risk Management

Risk management is at the heart of debt management

- Risk arises because future borrowing costs are uncertain
 - Market risk – changes in interest rates, exchange rates, prices
 - Rollover or refinancing risk; also liquidity risk

Risk is not symmetrical

- Sound debt management is about robustness and resilience
- Weaknesses exacerbate economic crises

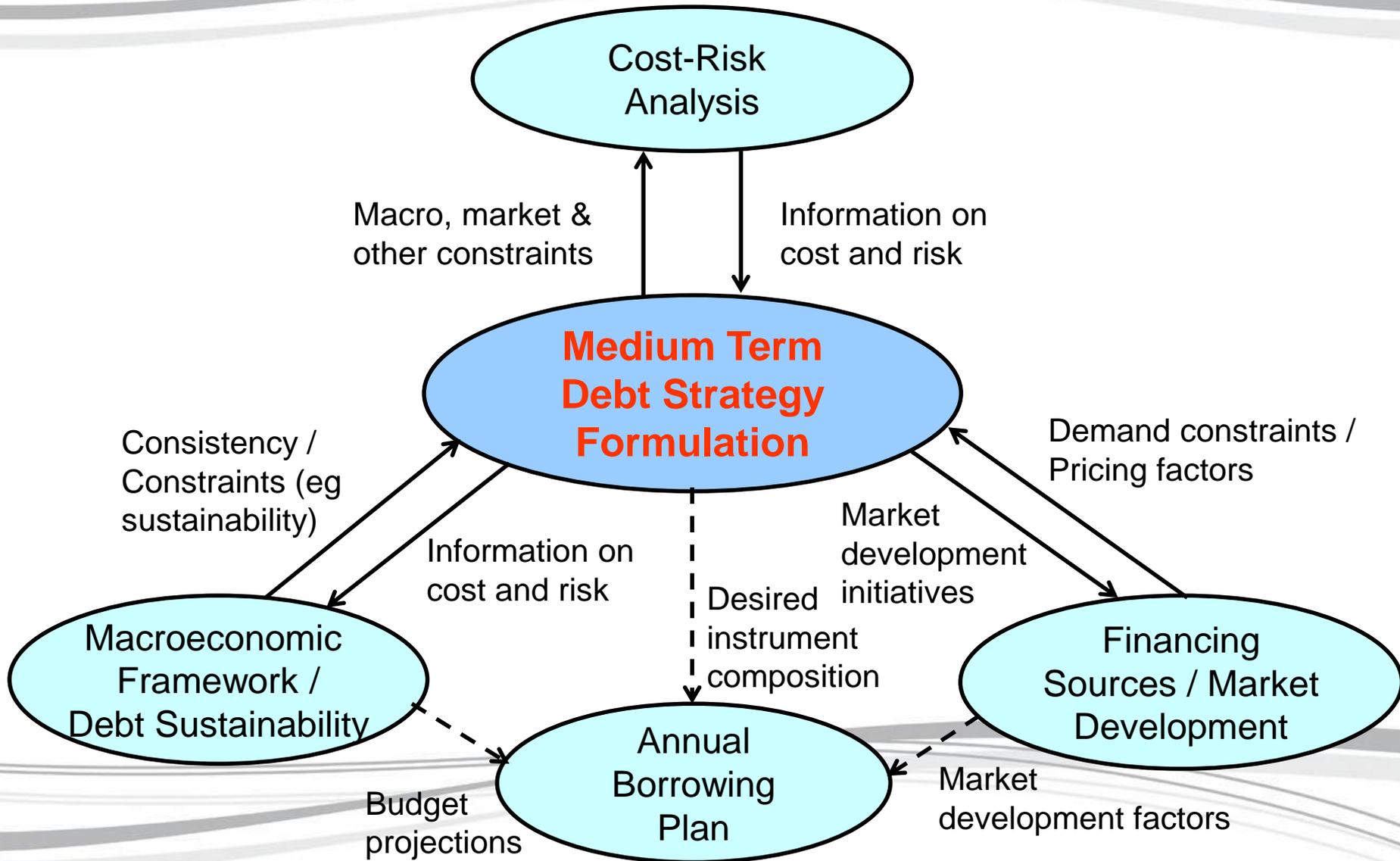
Debt managers have the task

- To design the strategy to manage market risk in debt portfolio
- Their focus is on the composition of debt - to design systems and controls to implement the strategy and manage other risks (credit and operational)

The Debt Management Strategy....

- A DMS is about how to develop the composition of the debt portfolio over time
 - In a way that manages risk and the trade-off between cost and risk
- The Medium-Term Debt Management Strategy (MTDS) makes operational the agreed high-level debt management objectives
 - Ensuring financing needs are met
 - Expressing cost-risk preferences
 - Implies targets for key risk indicators (foreign/domestic currency, long/short-term debt, fixed/floating rates etc)
- A formal strategy is important
 - Clear framework for making informed choices
 - Ensures consistency in borrowing strategies
 - Improves coordination with fiscal and monetary policy
 - Helps to identify constraints (eg market development)

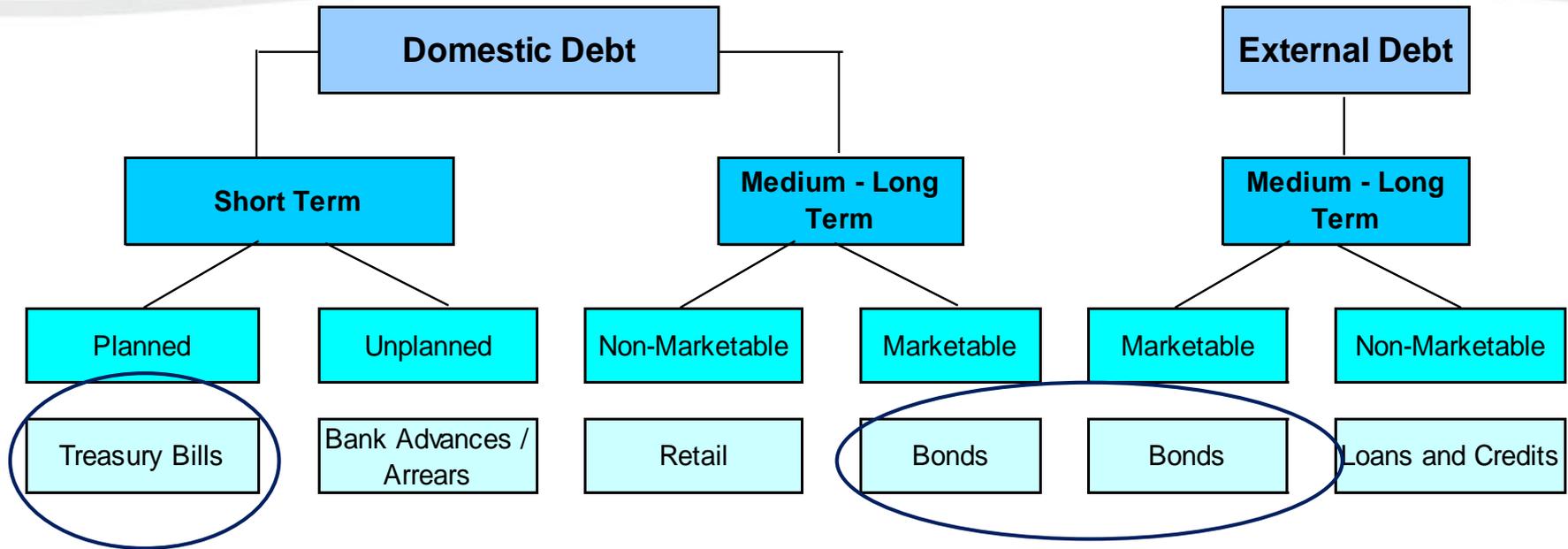
MDTS: Key Interlinkages



Annual Borrowing Plan (ABP)

- How best to meet gross financing requirement for year ahead consistently with MTDS targets?
- Based on
 - Projection of budget deficit, cash profile over the year
 - Taking account of expected disbursement of ODA loans
 - Consulting with central bank, macro-fiscal unit, others
- Bond issuance
 - Cost-risk trade-off, borrowing externally or domestically
 - Consider domestic market demand, expected interest rates, and shape of yield curve
 - Develop auction program for Treasury bonds; Treasury bills primarily to manage cash flow; publish calendar
 - All relevant units follow agreed borrowing plan

Scope of the Issuance Plan



- Other instruments to improve cost-risk characteristics of debt profile
 - Liability management operations (buy backs, debt exchanges) – also improve market liquidity
 - Derivatives (swaps etc) – change interest or currency composition – requires operational and risk management capabilities
 - Indicate intention in the MTDS

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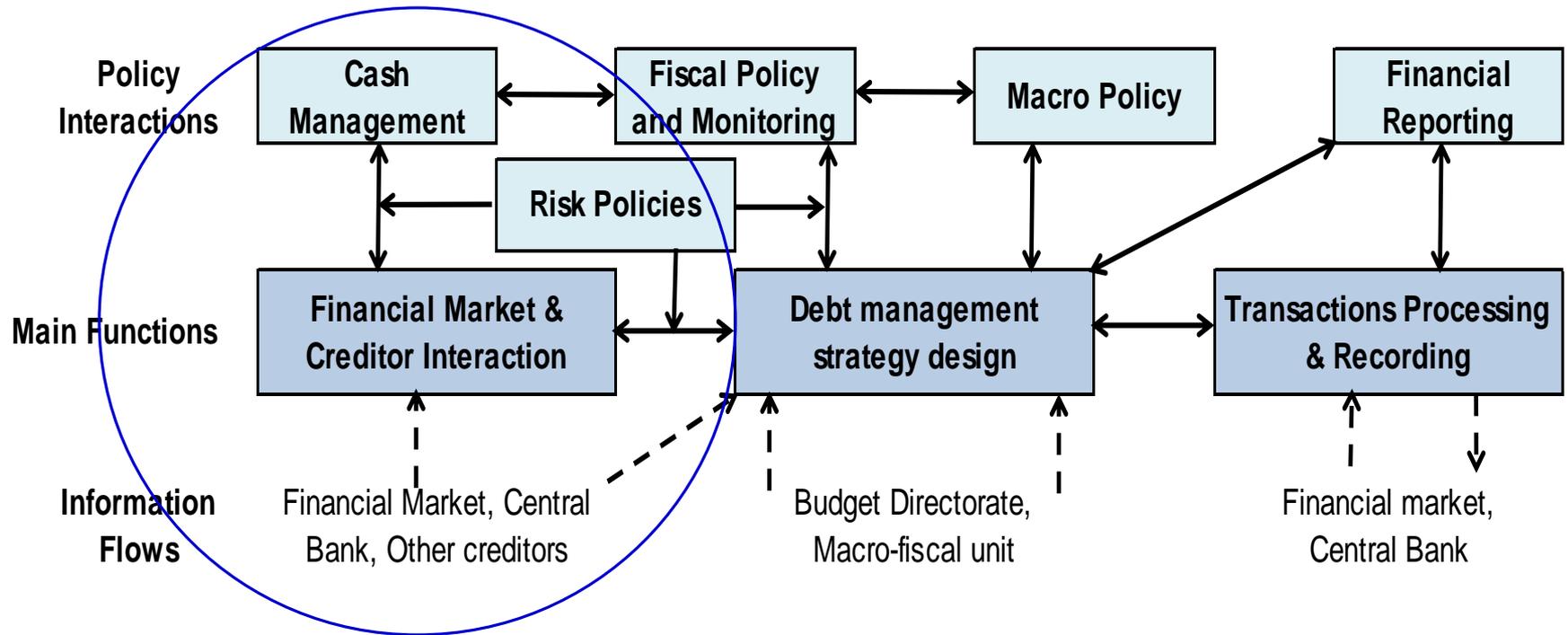
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Debt Managers' Objectives and Functions

- Objectives
 - “to ensure that the government’s financing needs and its payment obligations are met at the lowest possible cost over the medium to long run, consistent with a prudent degree of risk” [and develop the bond market]
- Key roles
 - “to establish and then execute a strategy ...in order to raise the required amount of funding, and to achieve its cost and risk objectives”
- Functions
 - Debt management strategy design
 - Transactions execution, negotiation with creditors
 - Transactions processing and recording
 - Also
 - Financial reporting
 - Risk monitoring and compliance:
 - Stakeholder relationship management
 - Policy and advisory services

Functions and Interactions



The Functions of Today's Cash Manager

Monitoring and accessing the government's cash

- Development of the TSA, identifying other available assets
- Monitoring the cash balance
- Developing policies for the use of surpluses, and the cash buffer

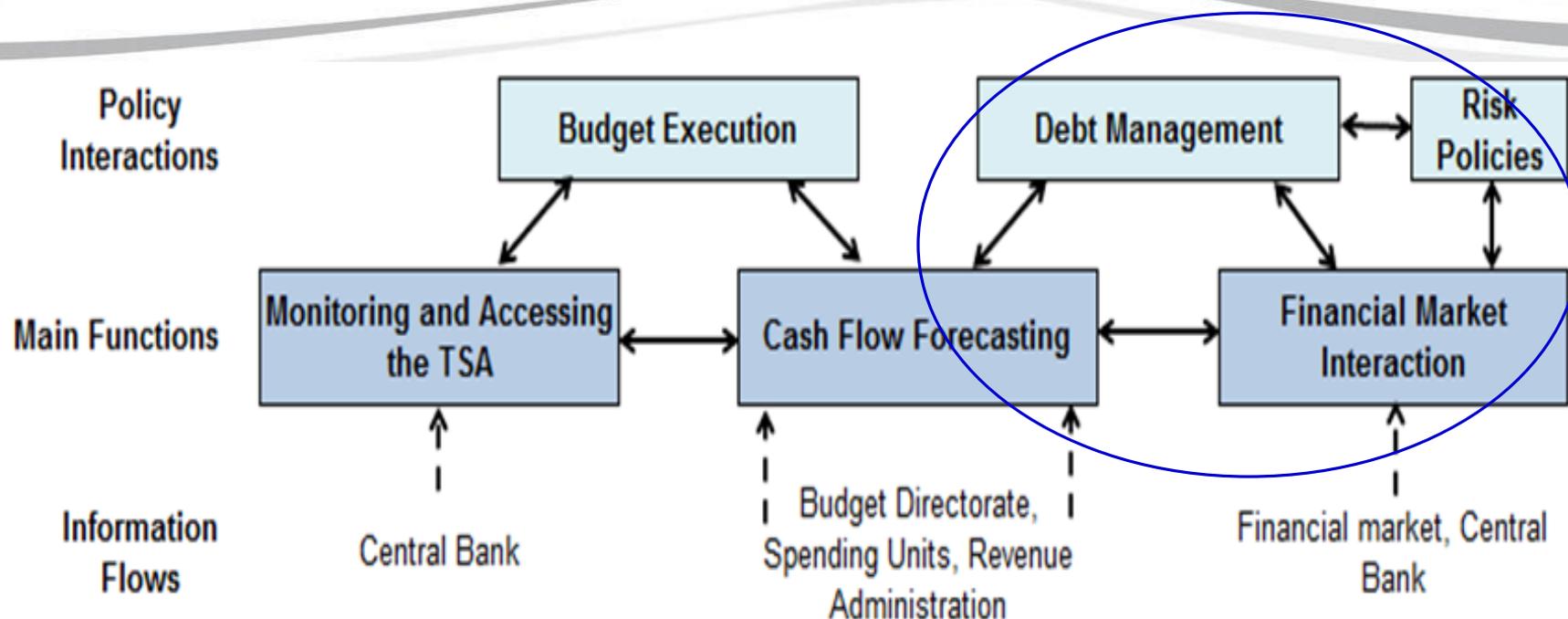
Cash flow forecasting

- The development of a capability to monitor and forecast (at least 3 months ahead) changes in balances in the TSA

Financial market interaction

- Identifying options to manage cost-effectively the net cash flow deficits and surpluses
- Putting in place safety nets for meeting unanticipated cash flow deficits
- [Executing short-term transactions]

Some implications...



- A range of functions and policy interactions
- In making their financing decisions [debt/cash] managers must
 - Juggle the full range of instruments
 - Trading-off the demands of the strategy, the demands of the market, and the government's need for cash, taking account of interest rates
- Several interested parties and information needs

Operational Coordination

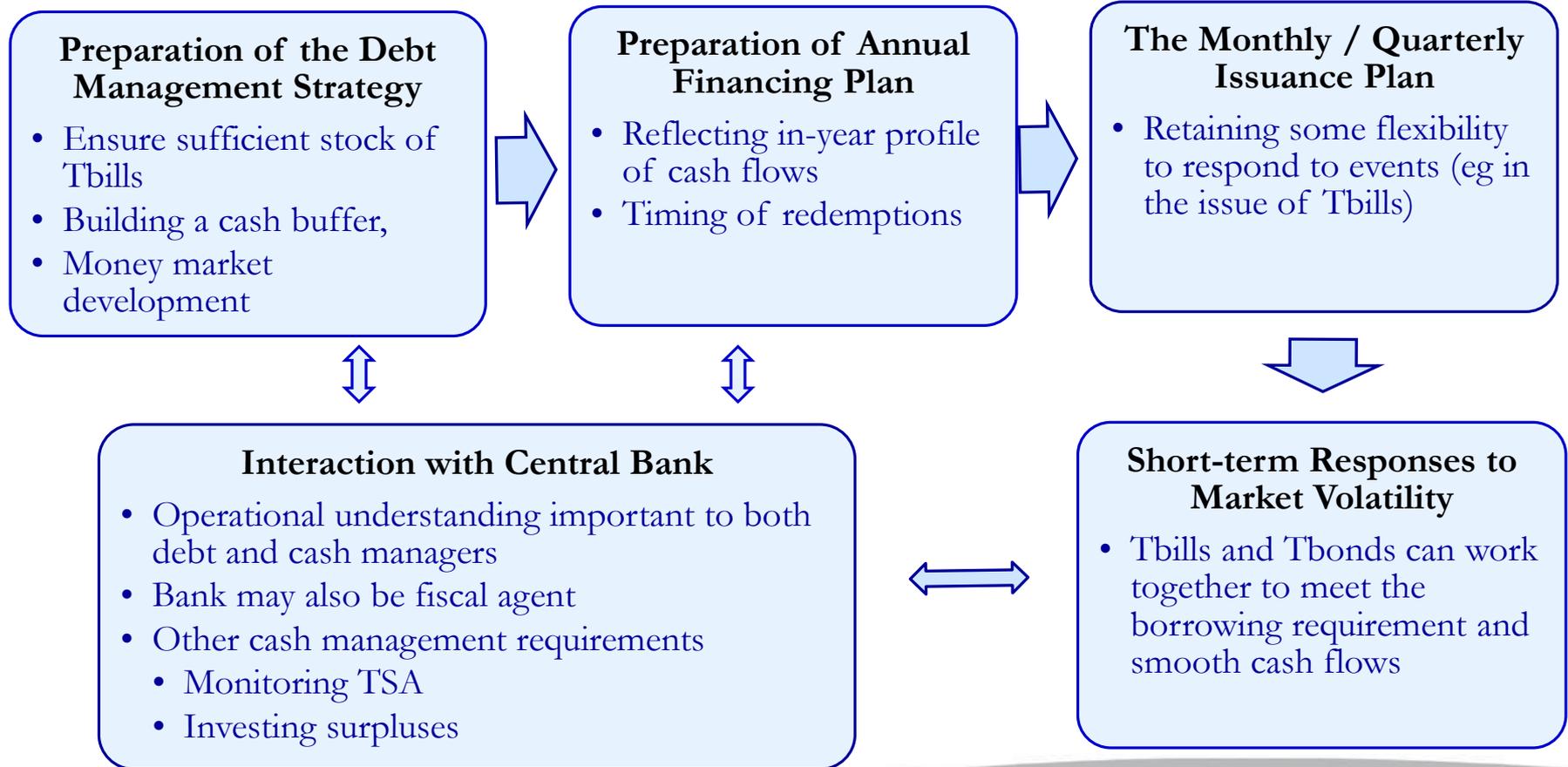
Other day-to-day coordination requirements include:

- Linkage of issuance dates with redemption dates
- Maturity dates chosen to avoid weeks, and especially days, of heavy cash outflow (e.g. salary payments): instead target days of cash inflow (the due date for tax payments)
- Debt managers can mitigate the cash management problems that potentially arise when large bonds come to maturity
- Debt managers can also correct repo market distortions or disruptions

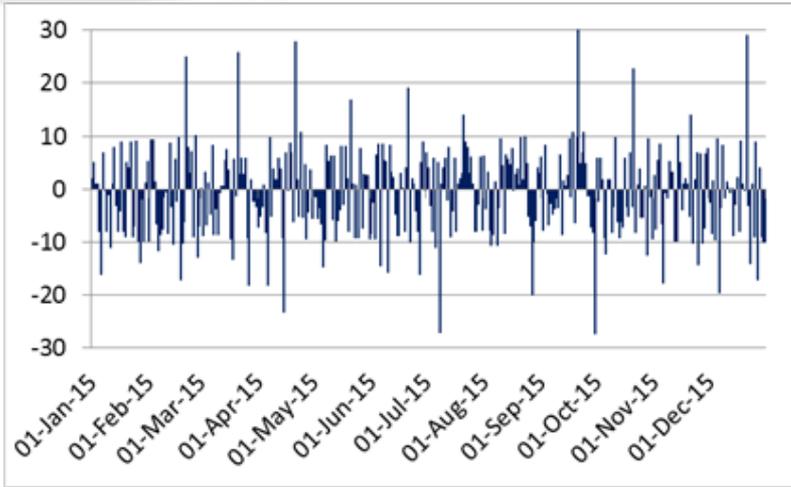
As interaction with the market develops, potentially greater benefits flow from integration of debt & cash functions

- In time, through active management of the short-term cash position, the combined function will be better placed to weaken the link between the timing of cash flows and bond issuance
 - Allows pattern of bond sales to be announced in advance
- In any event, front office should be integrated - to ensure that the government presents a consistent face to the market

The Coordination Cycle

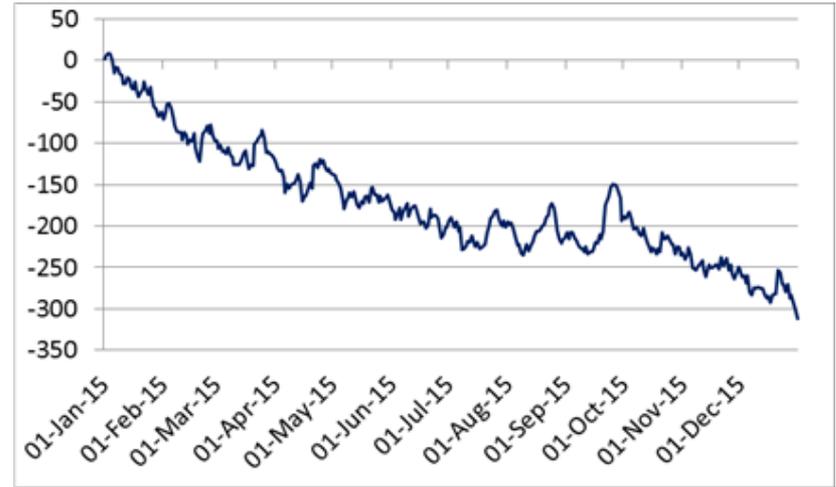


Smoothing Cash Flow: Treasury Bonds



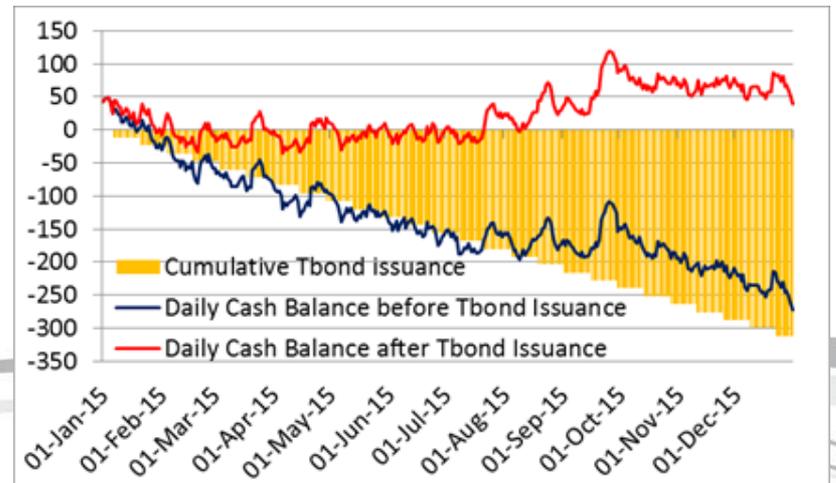
Daily cash flow
before bond issuance

Cumulative daily
cash flow

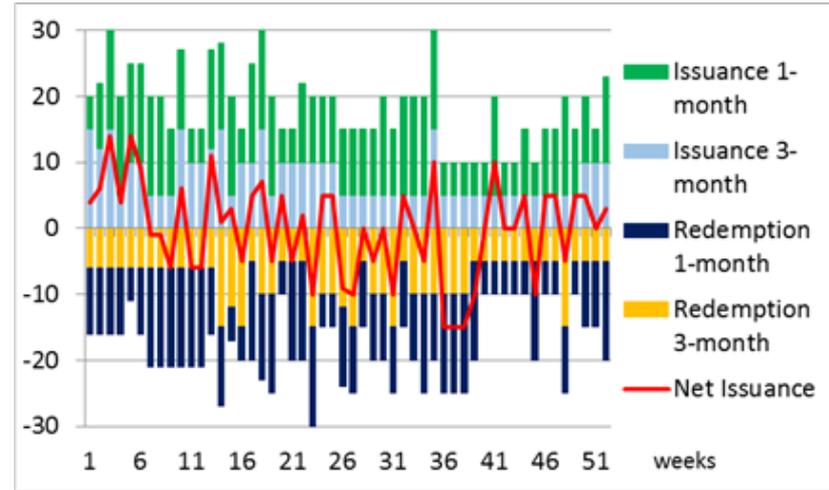
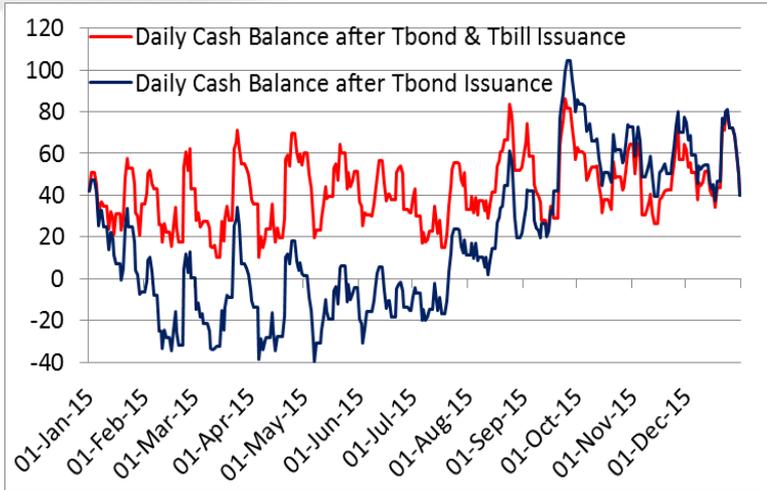


The impact of smooth gross Tbond
issuance (net issuance = deficit)

How does the Treasury maintain
the cash buffer close to its target
(40 in the example)?

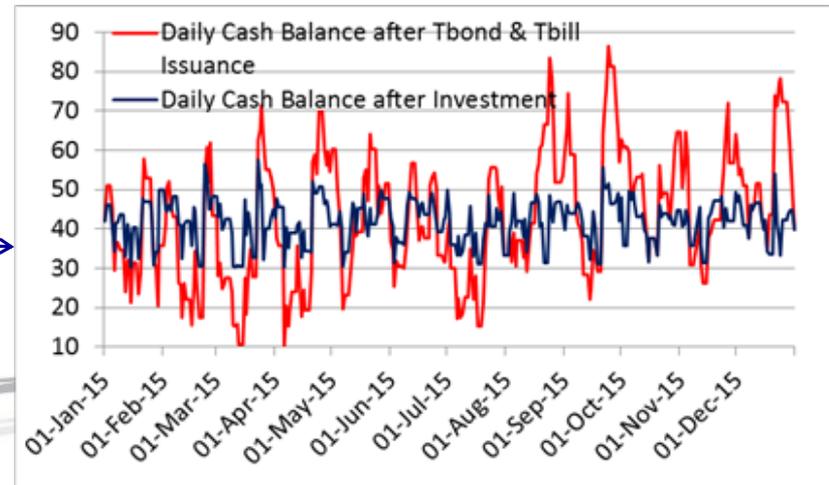


Smoothing Cash Flows with Tbills



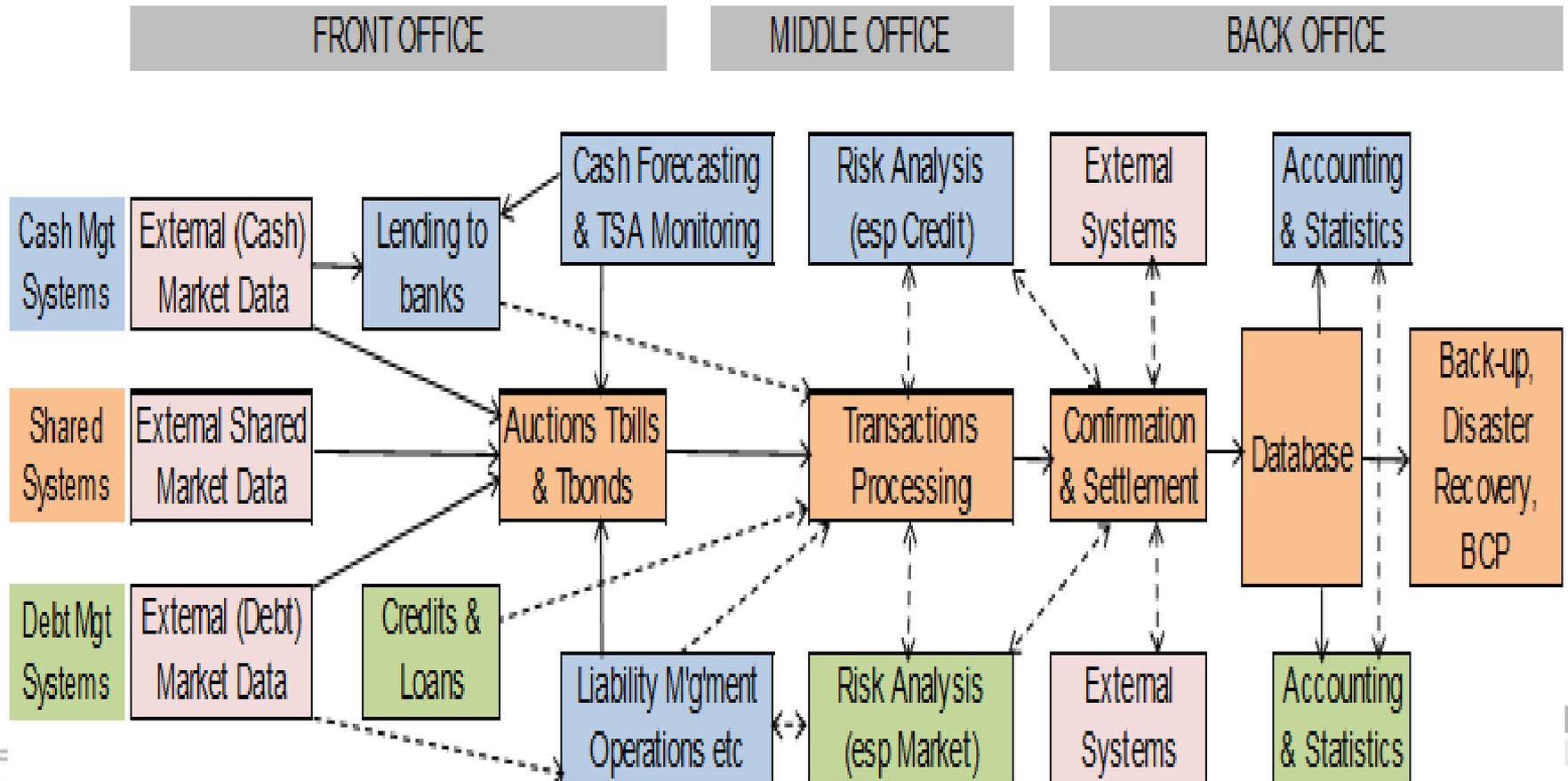
↑ Smoothing with 1-month & 3-month Tbills

Additional Smoothing with short-term investment

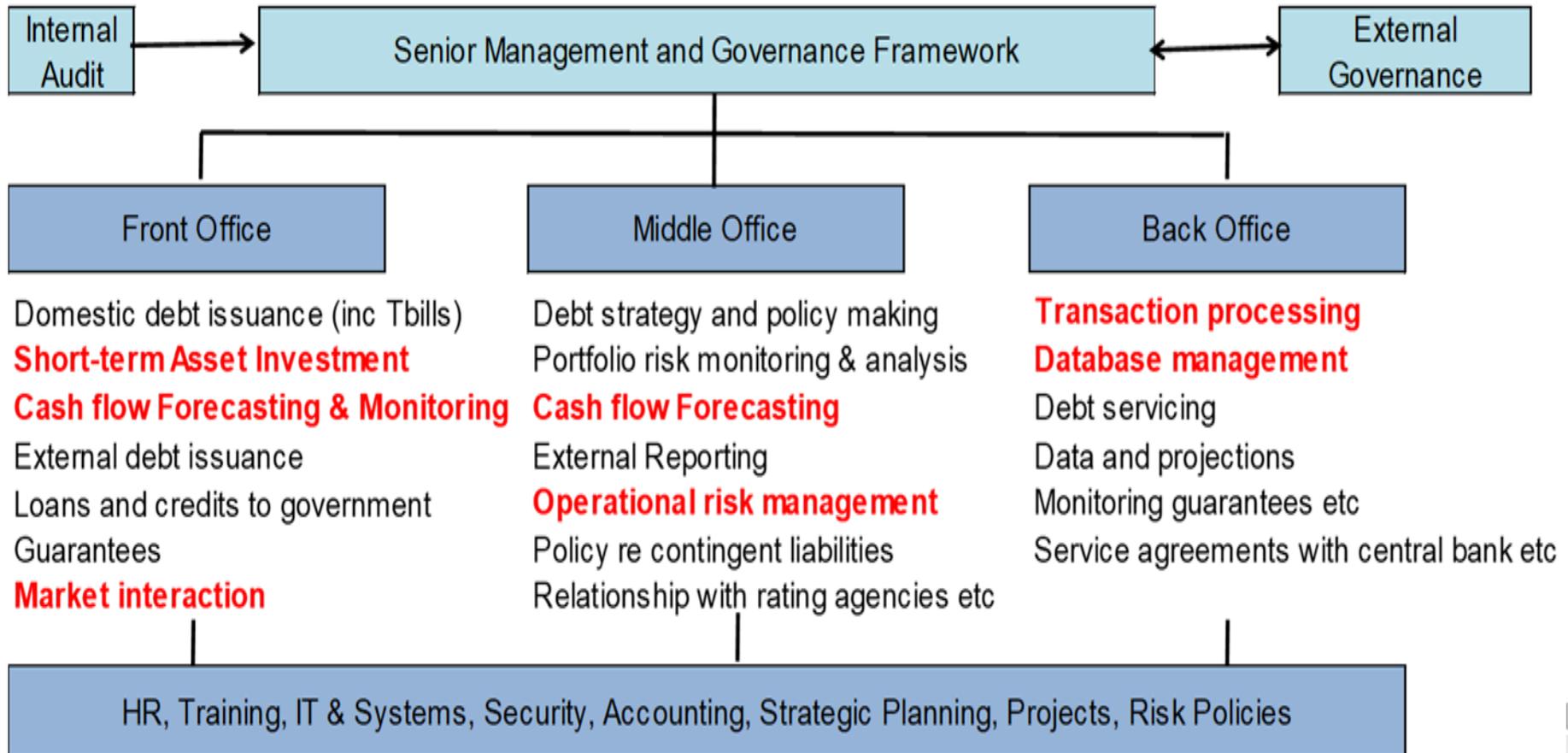


Administrative Synergies and Savings Drive Integration (esp. in Developed Countries)

Common skill requirements; and administrative savings in data & operational risk management



The Integrated Office



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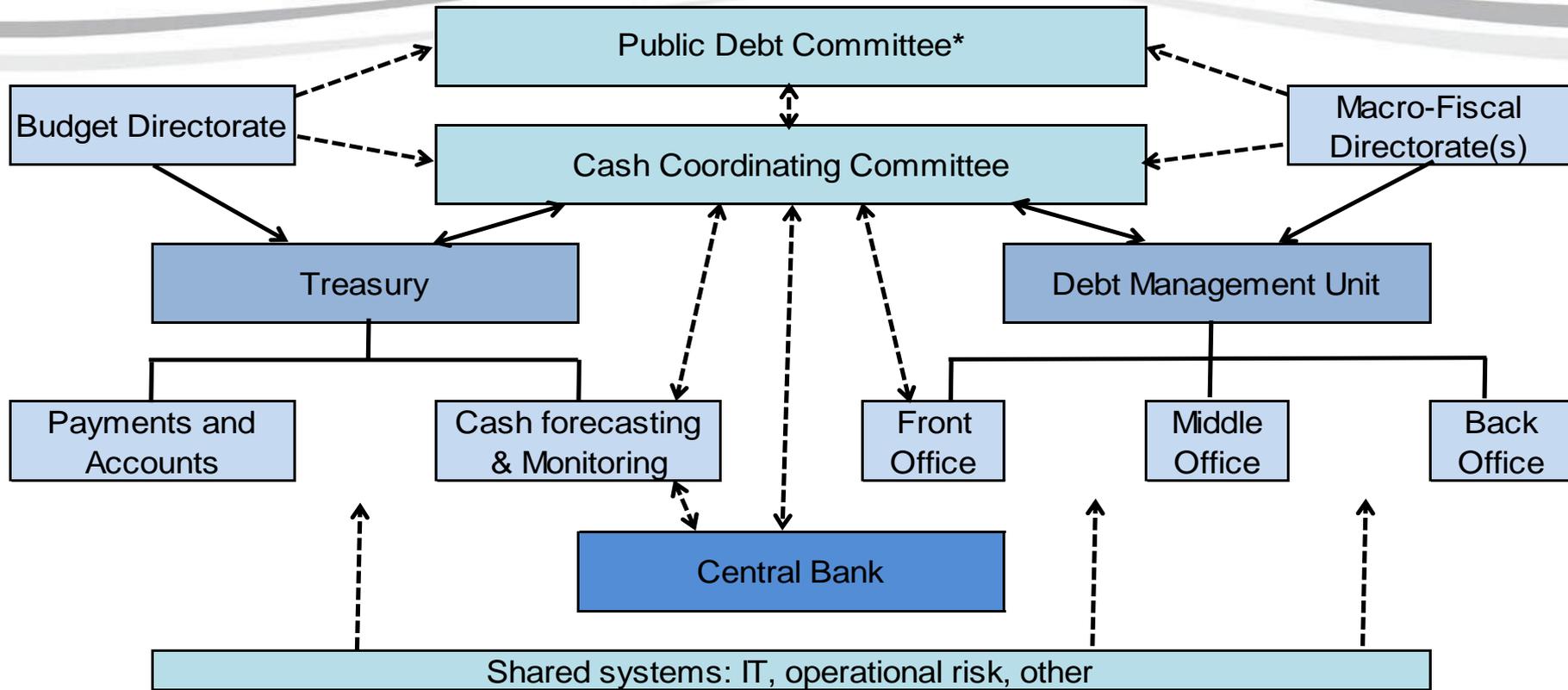
Effective Coordination requires...

- Coordinated approach to stakeholders
 - Single interface with the market for transactions
 - Coordinated negotiation of MoUs/SLAs with central bank
- Shared support services
 - Especially IT, including disaster recovery and BCP
- Common operational risk framework
 - Identification, assessment and reporting
 - Including role of internal control and internal audit
- Systematic exchange of information
- Coordination of decision making
 - Strategic: debt management strategy taking account of short term assets and liabilities
 - Tactical: issuance taking account of cash requirements
 - Implications for governance framework

Cash Coordinating Committee

- Useful and widely used coordination mechanism for short-term cash management decisions
- Meets weekly, chaired e.g. by Head Treasury
 - Including also budget division, debt managers, central bank, tax authorities, possibly large spending ministries
 - Delegated authority for decisions within agreed parameters
- Main responsibilities:
 - Review cash flow outturns, and the comparison with forecasts
 - Review cash flow forecasts for the period ahead
 - Decide on the action needed to ensure cash adequacy over the period ahead [making recommendations accordingly]
- Supported by Cash Management Unit (CMU)
 - Responsible for forecast preparation, database, error analysis etc
 - Also preparation of scenarios and what-ifs

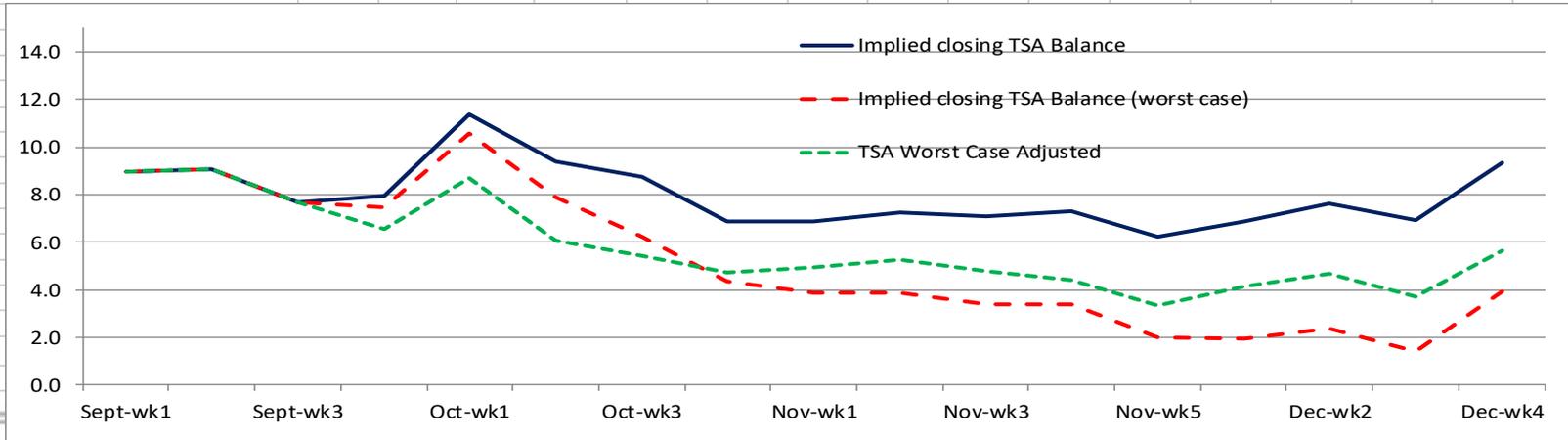
Debt and Cash Management: Coordination



- *PDC: main roles: high-level policy and risk framework for debt [& cash] management; preparation/approval debt strategy; mandating execution responsibilities; target setting and performance monitoring
- CCC may report to Minister or be constituted as a sub-committee of PDC

Advising the Cash Committee - 2

	Sept-wk1	Sept-wk2	Sept-wk3	Sept-wk4	Oct-wk1	Oct-wk2	Oct-wk3	Oct-wk4	Nov-wk1	Nov-wk2	Nov-wk3	Nov-wk4	Nov-wk5	Dec-wk1	Dec-wk2	Dec-wk3	Dec-wk4	
Sensitivities/Contingencies																		
18				-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	
19							-0.3	0.3										0.4
20									-0.2	-0.2								
21							-0.1	-0.1	0.1	0.1								
22								-0.6										
23				-0.3	-0.3	-0.7	-1.0	0.0	-0.5	-0.4	-0.3	-0.2	-0.3	-0.7	-0.3	-0.3	0.1	
24				-0.5	-0.8	-1.5	-2.5	-2.5	-3.0	-3.4	-3.7	-3.9	-4.2	-4.9	-5.2	-5.5	-5.4	
25	9.0	9.1	7.7	7.4	10.6	7.9	6.2	4.4	3.9	3.9	3.4	3.4	2.0	2.0	2.4	1.4	3.9	
Possible policy options																		
26				-1.0	-1.0	1.0	1.0											
27					0.1	0.1	0.2	0.3	0.1	0.1	0.0	0.1	0.1	0.0				
28										0.7	-0.6	0.7						
29				-0.9	-1.0	0.1	1.0	1.2	0.7	0.3	0.0	-0.4	0.3	0.9	0.1	0.0	-0.6	
30				-0.9	-1.9	-1.8	-0.8	0.4	1.1	1.4	1.4	1.0	1.3	2.2	2.3	2.3	1.7	
31				-0.9	-1.9	-1.8	-0.8	0.4	1.1	1.4	1.4	1.0	1.3	2.2	2.3	2.3	1.7	
32	9.0	9.1	7.7	6.5	8.7	6.1	5.4	4.8	5.0	5.3	4.8	4.4	3.3	4.2	4.7	3.7	5.6	



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Thank You!