# Emerging Opportunities and Challenges with Central Bank Data

Note: These slides were prepared for presentation at the Seventh ECB Statistics Conference. These slides are intended only as a primer on the basic topics covered; they reflect the author's views and not necessarily those of the Federal Reserve Board or anyone else associated with the Federal Reserve System.
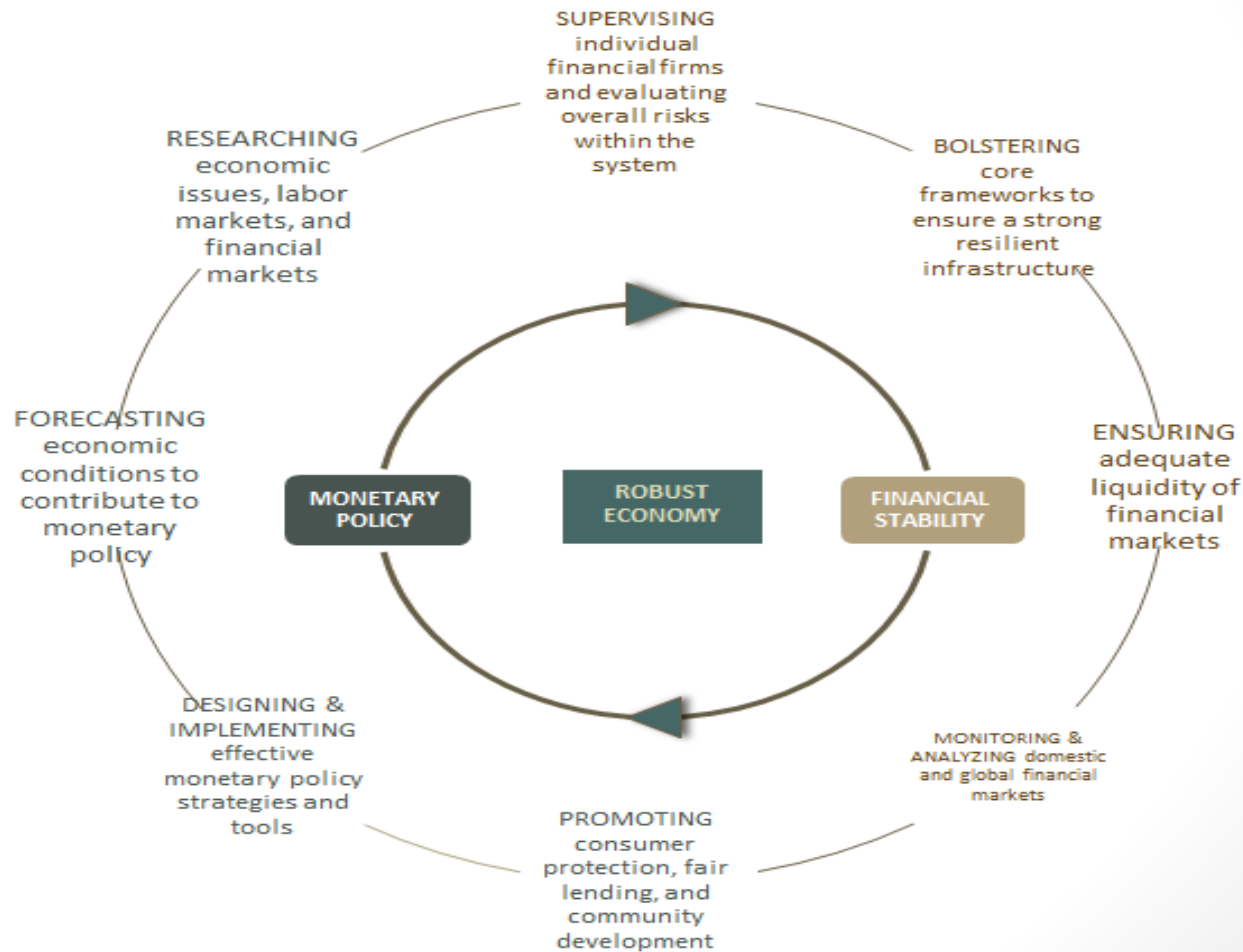
Source: Robert Galleta, FRB NY EDMO

Sub-optimized Data Leads to Increased Business Risk

- Skyrocketing data volume
- Lack of data visibility
- Lack of data fluidity (difficult to integrate and disseminate data)
- Data 'my-ning'
- Security and access control issues
- Historical siloed view
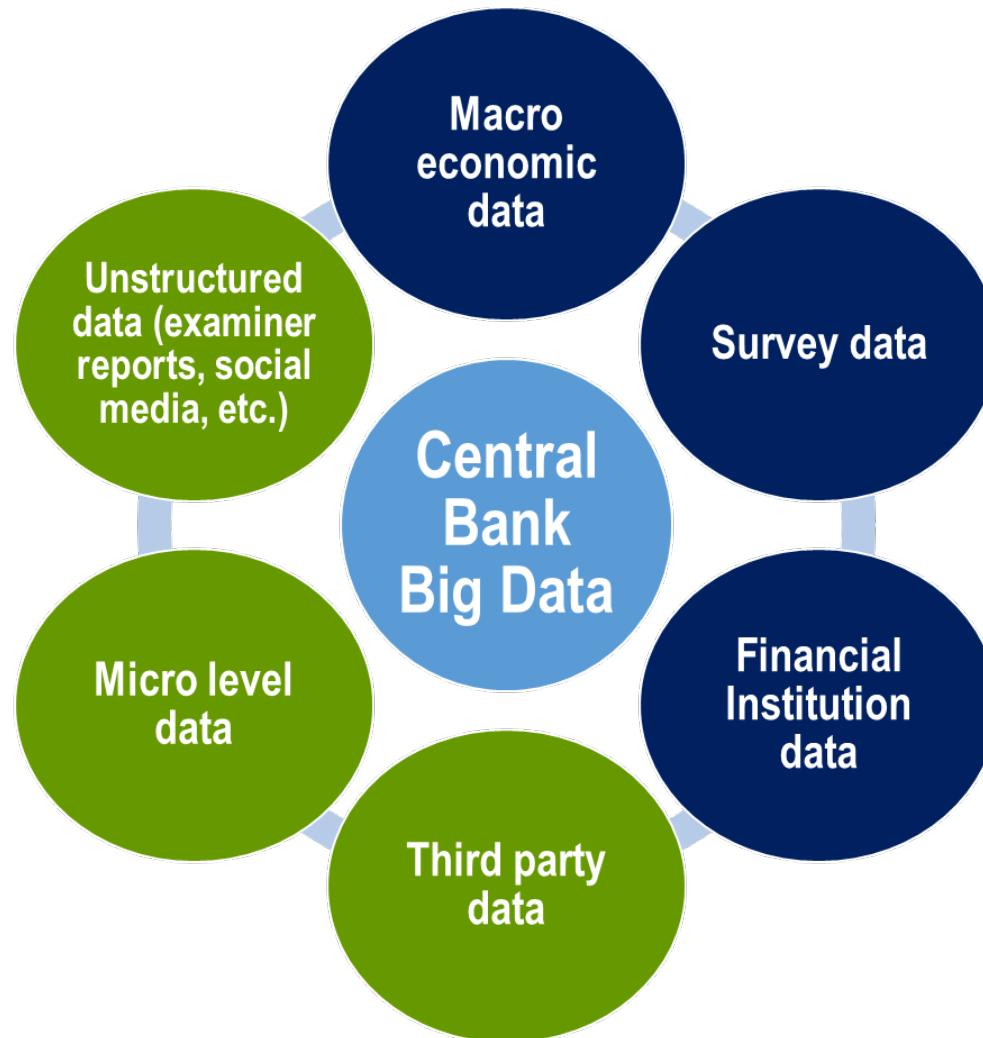- Legacy system issues
- Increasing cost pressures

Reduced Efficiency & Quality

Inability to Connect the Dots

Increased Security Risks

Increased Costs

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Traditional and Newly Emerging Data Types Merging to Form Big Data for Central Banks

Central Bank Big Data

- Macro economic data
- Survey data
- Financial Institution data
- Third party data
- Micro level data
- Unstructured data (examiner reports, social media, etc.)

Traditional data
Newer data types

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Increased Needs and Complexity Must Drive New Approaches and Solutions
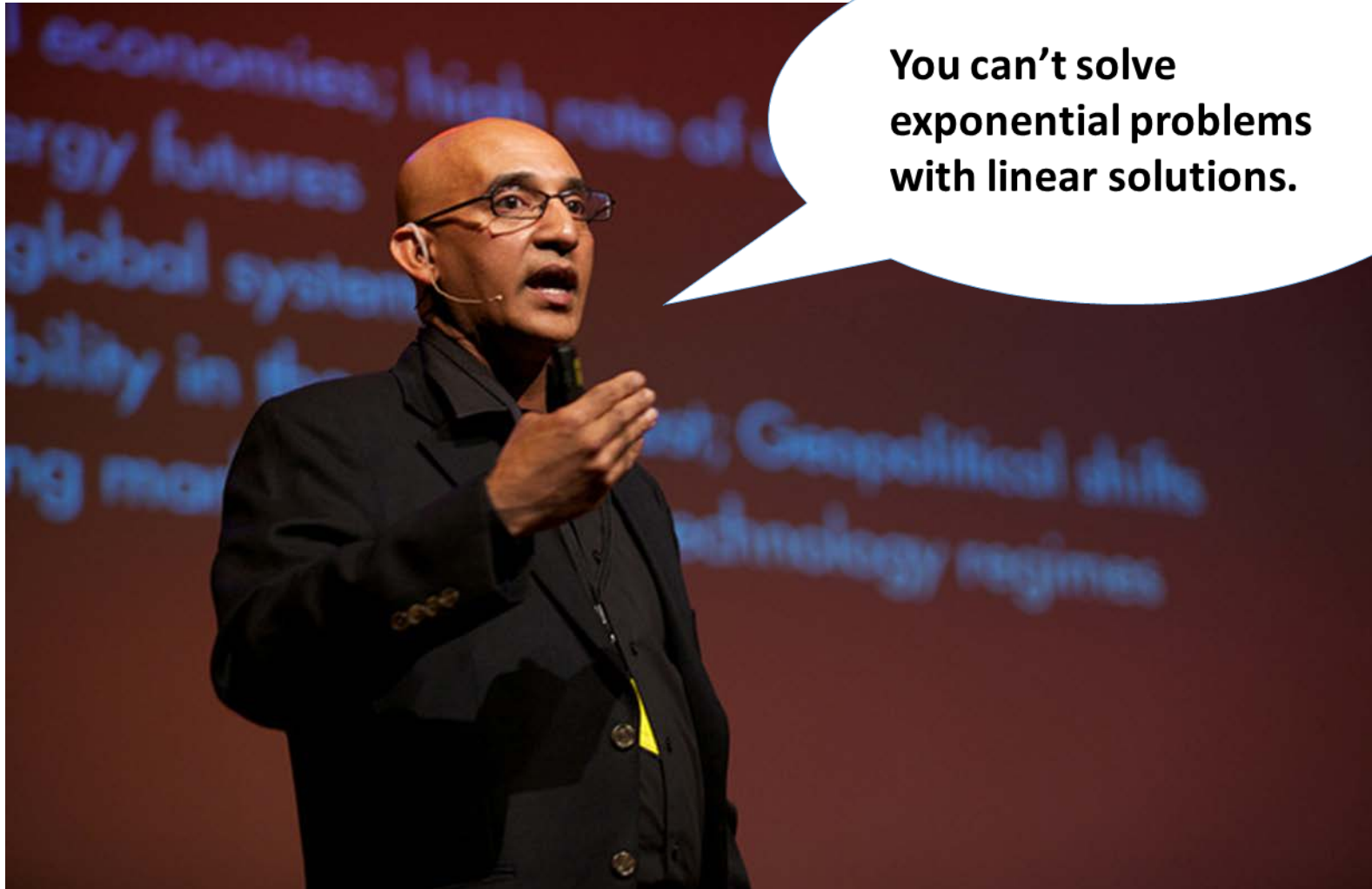
Federal Reserve Strategic Framework, Theme 2

- Launch the Board Data Council comprised of key enterprise stakeholders to support enterprise wide data governance policies, processes, definitions, standards, and metrics

- Create the OCDO mission, charter, goals, competencies

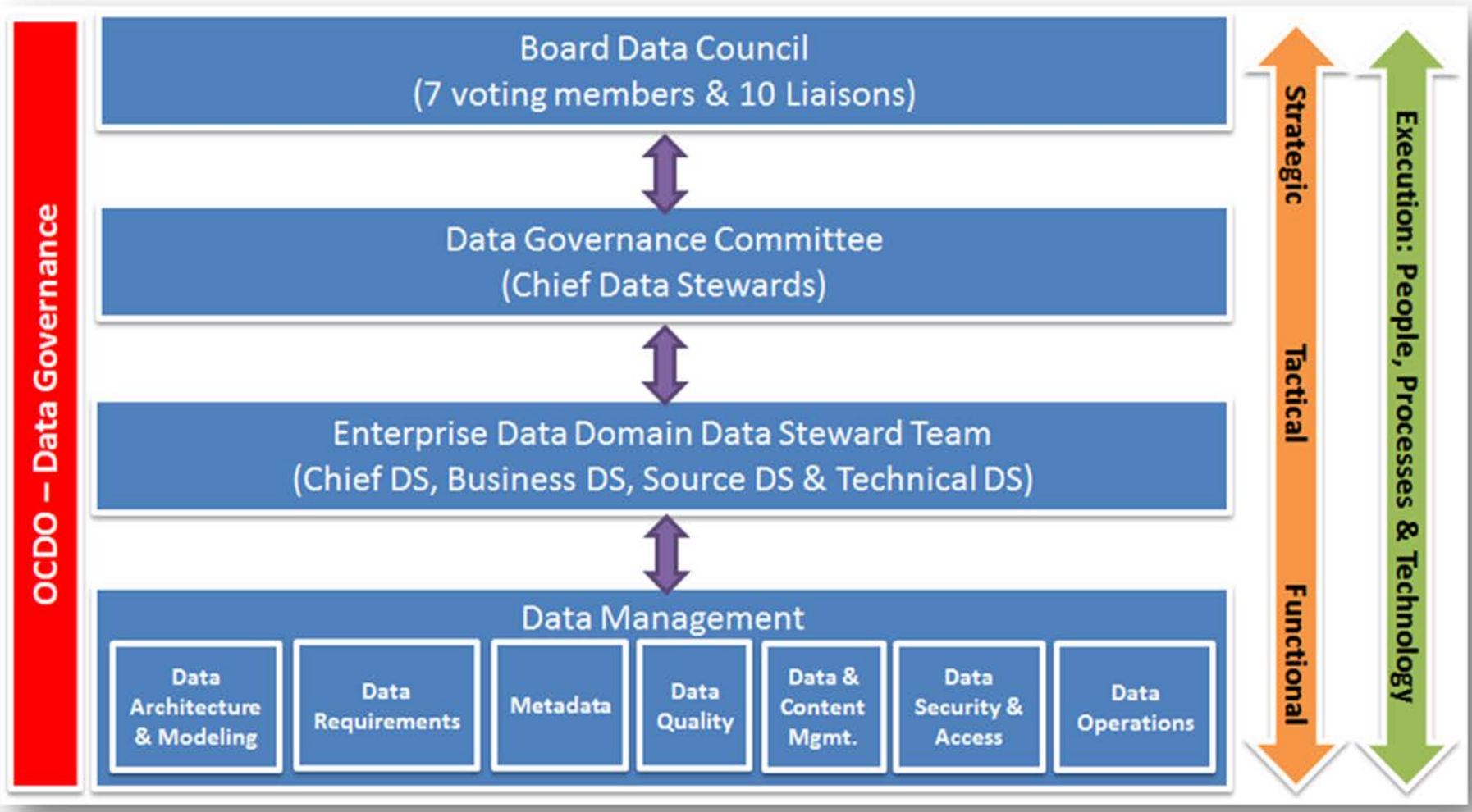- Develop the enterprise data strategy to strengthen the Board's data environment

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Federal Reserve OCDO Organization

Mission – OCDO supports the Board's interdisciplinary approach to monetary policy, supervision, and financial stability through strategic thought leadership, policy setting, advisory services and collaborative outreach to optimize enterprise data and information assets.

Scope - Enterprise data governance and data management services across Board and Board-delegated functions.

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Strategic program direction

Strategy, Policy, & Innovation	Program Management Office	Data Management Business Services
• Strategic, enterprise advice and counsel • Frameworks and policy development • Stakeholder team is the enterprise • Inputs include industry drivers, standards, best practices • Outputs go to others in OCDO and enterprise	• Provides change management and communications in support of OCDO strategic efforts • Provides project management, communications, and training in support of OCDO initiatives.	• Provision DM services • Solid linkages and dependencies between teams that speak one language • Stakeholders are specific Board divisions • Inputs come from customers and DG and IA frameworks • Outputs go to specific stakeholders

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The Future: Doing Things Differently

How can we challenge ourselves to coalesce and collaborate around common, enterprise data governance and data management needs to deal with the complexity and scale of our challenges?

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Key Data Management Risks and Opportunities

- Transforming the culture to data-centric and data driven

- Developing common, best-practice focused data governance and data management

- Creating integrated, distributed information architecture and set of platforms for increasingly complex data and information sharing needs (internally and externally)

- Working together to develop common ontologies, data architecture, data dictionaries, and other data standards

- Optimizing the analytic environment for insights across domains, data types, business processes

- Embracing transparency and open data for engagement and efficiencies

- Creating global communities of interest for crowdsourced approaches to our biggest financial stability and economic challenges

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Lessons Learned to Date

- ✓ The concept of the **pervasiveness and criticality of data and data technology** to all the board's missions

- ✓ It is crucial that certain **foundational components** be in place to support the scale and complexity of new data

- ✓ **Education and awareness** of data strategy concepts and data management approaches is strongly desired and necessary throughout the Board

- ✓ **Communication and collaboration** across the Board and System are imperative to success

- ✓ There is a **deliberate nature to the Board** that must be taken into consideration

- ✓ The **OCDO is aligning** to support the Board – there are significant data "pain points" across the Board; many of which we have already identified in our strategic priorities

- ✓ Continuing to **balance strategic and operational needs** in a resource-constrained environment

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Thank you!

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