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Designing a Future-ready GRC Architecture

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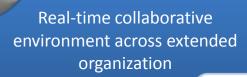
Agenda

- What is a Future-ready GRC Architecture
- Eight Key foundational capabilities
- MetricStream GRC Platform
- Designing for Future Readiness
- Lessons learned for Citi thus far
- Q&A

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What is a Future–Ready GRC Architecture



Extensible framework for Specific Business solution

Governance, Risk & Compliance Platform

Provide real-time Insights leveraging Big Data across the Enterprise Enable Transparent and Holistic Risk and Governance Taxonomy across organization



ENGAGE | INSPIRE | TRANSFORM

"Enable synergy across business performance and Risk Management at global corporations by creating, deploying & managing a robust and extensible GRC Platform to manage their Risk & Governance needs while ensuring an optimized Total cost of ownership and Total cost of adoption "

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Eight Key Foundational Capabilities



Ability to support complex organizational structures, product portfolios and geographical units

- n-tiered tree based hierarchy
- Ability to model n dimension matrix organization model



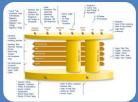
Ability to model new and change existing business processes

- Highly configurable platform to continuously adapt to evolving business scenarios
- Rapid configuration to lower TCO and provide faster time to go live



Federated data model for aligning organization structure and application views

- Enable data model visualization from multiple angles for multiple views
- Align accountability with the organization structure



Architecture for data convergence across systems for better visibility

- Real time aggregation of data across internet and internal sources for better perspectives and better analytics as aid to decision making
- Track large amount of historical data for better trend analysis

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Eight Key Foundational Capabilities (contd)



Ability to integrate across external data sources

- Create a single source of truth across multiple IT systems for GRC
- Enable continuous control monitoring and measurement across systems



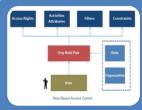
Collaboration using applications across mobile, tablet platforms and offline workflows

- Allow geographically and organizationally spread business units to collaborate across GRC requirements
- Offer anytime anywhere capability with offline briefcase



Advanced analytics and data visualization capabilities

- User friendly and powerful dashboards for quick visualizations
- Drill down capability for thorough data analysis



Advanced data security and privacy capabilities

- Robust security infrastructure to ensure data security and privacy across internal and external organization.
- Data encryption, password protection & single sign-on as standard features

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MetricStream GRC Platform - An award GRC winning product (Apr 2013)



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Architecting for Long Term Success – Dimensions to consider

Objective	Specifics
Change Management	 Pilot and Incremental Approach Managed Feedback loop & User Adoption Roadmap that ensures Global rollout
Homogenization	 Systems homogenization / integrated IT Taxonomy (BUs, Users, Roles, Provisioning) Cross-GRC Object homogenization
Resourcing and Planning	 Self sufficiency via creating Center of Excellence Leverage Vendor Partners Extended Organization

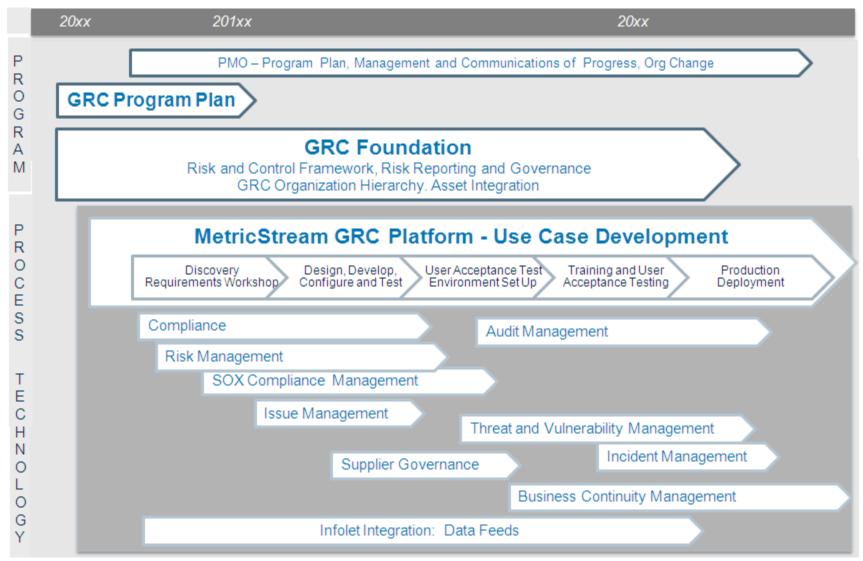
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Citigroup's experience on the journey towards integrated GRC

Initiative	Business Benefit
Harmonization across Systems, Taxonomy, and GRC Data Elements across organizational units	 Reduced overall TCO Improved reuse and efficiencies
Creation of Center of Excellence inside Citigroup	 Improved ability to accommodate change Cost reduction
Tailoring MetricStream's best- practices for Citigroup	1. Reduced risk in downstream adoption

MetricStream GRC Program Implementation



Illustrative 2-3 year view

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GRC Strategy

Enterprise Decisions to be made for true Integrated GRC

- Common Taxonomy Common and yet federated
- Organizational hierarchy
- Common Handoff points between groups
- Access Controls for inter and Intra organizational collaboration
- Change Management design
- Business and Application Administration
- •Technology decisions instances, infrastructure, timing

Governance Bodies and Working Groups

Build a model of governance structures that can integrate GRC decision making Understand weaknesses



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