Advancing Compliance Using Analytics in the Audit Function

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LOCKHEED MARTIN

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Agenda

- Audit Data Analytics Strategy and Approach
- Developing Analytic Capabilities and Tools
- Case Studies:
 - International Operations Analytic Audits
 - Robotic Process Automation
- Lessons Learned and Keys to Success

Data Analytics Vision

- Develop a standardized secure data and technology architecture
- Integrate Advanced Analytics into the Audit function
 - Identify Key Performance Indicators (PKIs)
 - Self service dashboard reporting
 - On-going schedule compliance testing
- Implementing an automated control and process testing in line with International Standards for the Professional Practice of Internal Auditing to ensure robust coverage of key business risk.

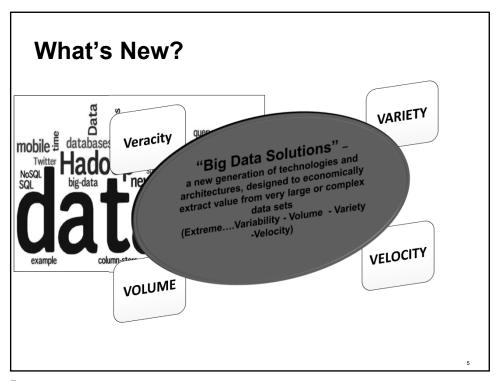
Increase the Strategic Value to the Corporation

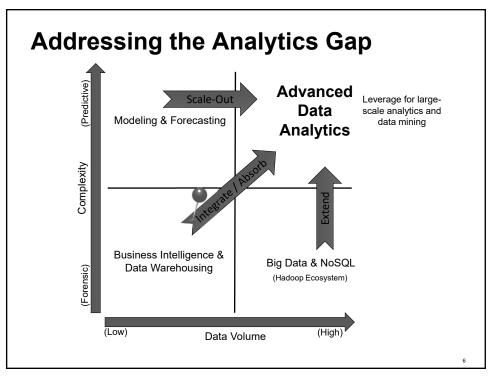
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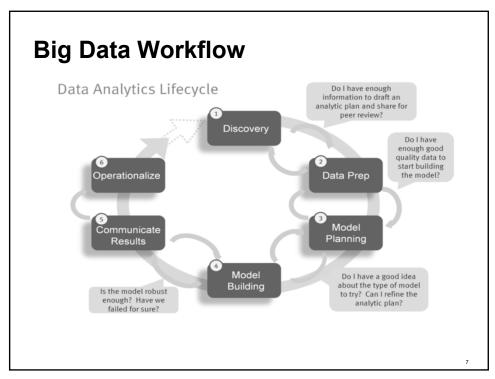
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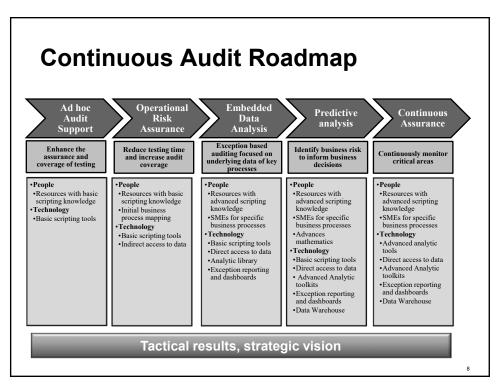
Data Analytic Strategic Tenants

- · Optimized Workforce:
 - Leveraging Business Intelligence analytic solutions to allow users access to the right data at the right time in the right format. Utilize employee skills to solve business challenges through innovation and collaboration.
- · Risk Reduction and Compliance:
 - Implementing an automated control and process t
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 internal Auditing to ensure robust coverage of key business
 risk.
- Agility:
 - Maintaining a flexible infrastructure and workforce model to quickly adapt to a dynamic business environment. Aggressively positioning technology and resources to support the business strategy.









Staffing Strategy

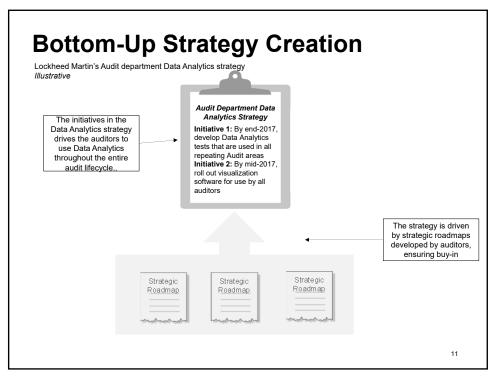
- Dedicated Analytics Group
- Skills Strategy
 - Migrated to a Technical Staffing Approach
 - Audit Knowledge Still Useful
- Team Roles and Responsibilities
 - Operations, Developers, Data Scientists
- Internal Training
 - Traditional Audit Training
 - Supplemented with Analytics Specific Training
- Remove Barriers to Access Systems / Data

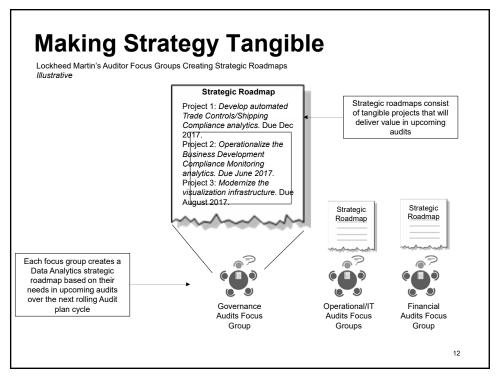
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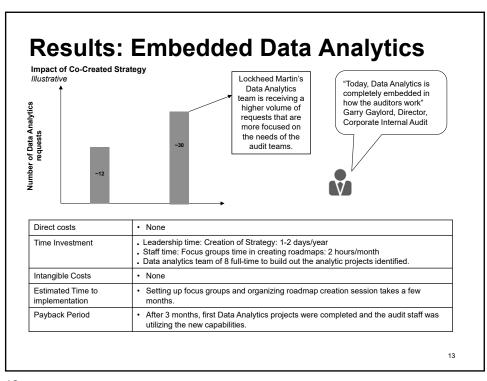
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Infrastructure Process Maturity

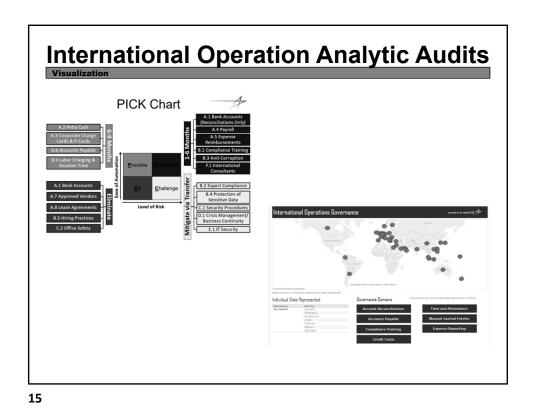
- Document Concept of Operations and Roles and Responsibilities
- Robust tool strategy and inventory
 - Hardware Configuration Definition
 - Software and Licensing
- Solid processes and procedures
 - Data Standards
 - Data Protection Plans
 - Configuration Management and Quality Standards
 - Sustainment plans

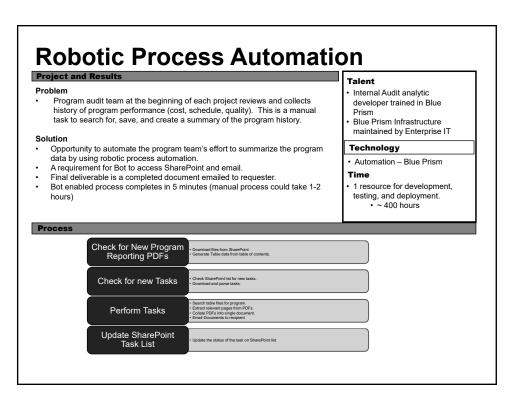


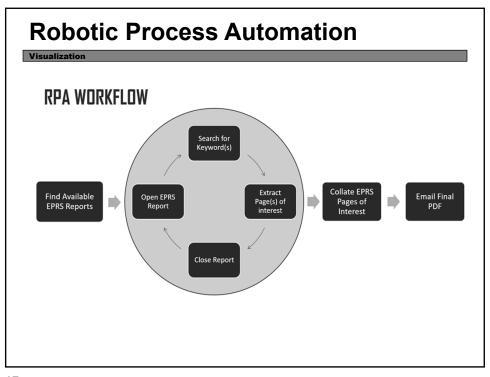












Best Practices and Lessons Learned

- A solid infrastructure and foundation are key to managing a dynamic risk environment.
 - · Diverse staffing profile
 - Technical systems / software / database
 - Statistical data modeling / statistical analysis
 - Solid training program
 - Mature tools and process
- Research and Testing
- Scalability (hardware, tools, storage)
 - Plan for evolving requirements & data growth
- Challenging to plan for future while living in the present.



