Lean Data Governance, Analytics and Visualization

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Discussion Outline

- OST Background
- Current State
- Data Lifecycle
- Governance, Analytics & Visualization
- Lean Approach
- Conclusion
Who We Are

WHO WE SERVE
80% Federal Government
20% State and Local Government

TOP SECRET
Facility Clearance

CERTIFICATIONS & APPRAISALS
CMMI DEV Level 5 | CMMI Service Level 3
ITIL V3-1 | SAFe/Agile/DevSecOps | AWS Cloud
ISO:9001:2008 | ISO standards 27001, 20000, 10002

OUR KEY POINTS
- 550+ Employees, 2000+ Total Staff
- Incorporated in 1999
- Supporting Federal, State, Local
- Transformational and innovative solutions

Who We Serve

AI/Machine Learning
Data Fusion, Correlation & Visualization
Anomaly Detection
Cyber Security
Asset/Resource Management
DATA is EVERYTHING & EVERYTHING is DATA
Too Much Data…

- 224 billion emails are sent/day
- 50 billion messages/day
- 23 billion SMS/day
- 5 billion searches/day
- 1.5 billion people on Facebook daily

90% of all data has been created in the last two years…
Too Many Data Issues…

Data-related problems cost the majority of companies more than $5 million annually…

Typical annual cost of Data related Issues

Source: https://www.forbes.com
HOW DO WE CONVERT DATA INTO ACTIONABLE INSIGHTS
Data Lifecycle
An effective data governance can be the difference between SUCCESS and FAILURE
OST Data Governance Framework

Data Warehouse & Business Intelligence Management
- Architecture
- Implementation
- Monitoring
- Training & Support
- Data Mining
- Predictive Analytics

Data Security Management
- Standards
- Classifications
- Administration
- Authentication
- Auditing

Data Quality Management
- Specification
- Analysis
- Measurement
- Improvement

Data Architecture Management
- Value Chain Analysis
- Enterprise Architecture
- Related Architectures

Data Development
- Data Analysis
- Data Modeling
- Database Design
- Implementation

Metadata Management
- Architecture
- Integration
- Control
- Delivery

Database Operations Management
- Acquisition
- Recovery
- Tuning
- Retention

Citation: https://dama.org/
The Lean Way

✔ Start with defining the Business Impact
✔ Acquire the data you really need – Actively reduce data volumes
✔ Implement right data and analytics governance
✔ Flexible architecture for greater consistency, reuse, and adaptability
✔ Automation and embedded rules to ease data governance
✔ Promote self-organizing and self-governing teams
✔ Ongoing learning and refinement based on real data
Adaptive Data and Analytics Governance should be based on organizational capability that will deliver required business outcomes...
The famous (well, geek famous) infographic depicting Napoleon’s disastrous campaign into (and out of) Russia in the War of 1812, created by Charles Joseph Minard
Data is our most valuable asset

To avoid the cost of inaccurate decisions and drive successful business outcomes, organizations need to implement the right data governance, analytics and visualization...

“In God we trust. All others must bring data.”

– W. Edwards Deming
Thank You

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