

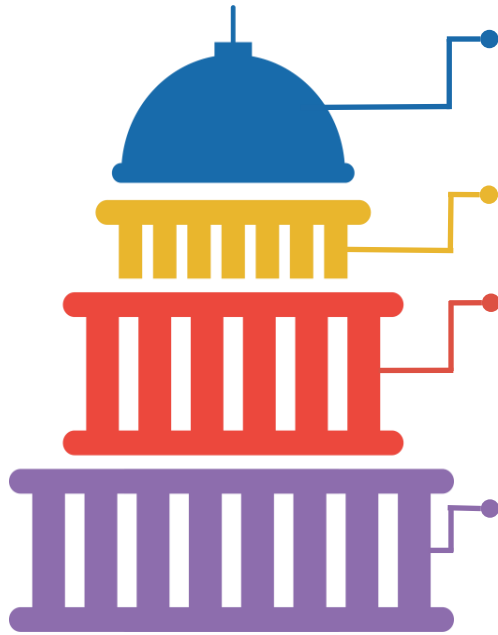
Lean Data Governance, Analytics and Visualization



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



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



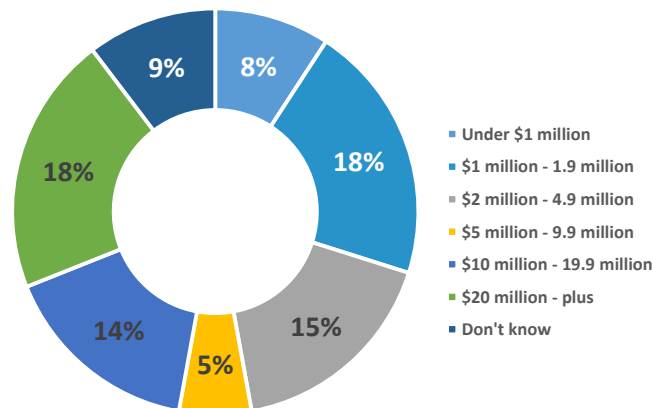
1.5 billion people on Facebook daily

90% *of all data has been created in the last two years...*

Too Many Data Issues...



Typical annual cost of Data related Issues



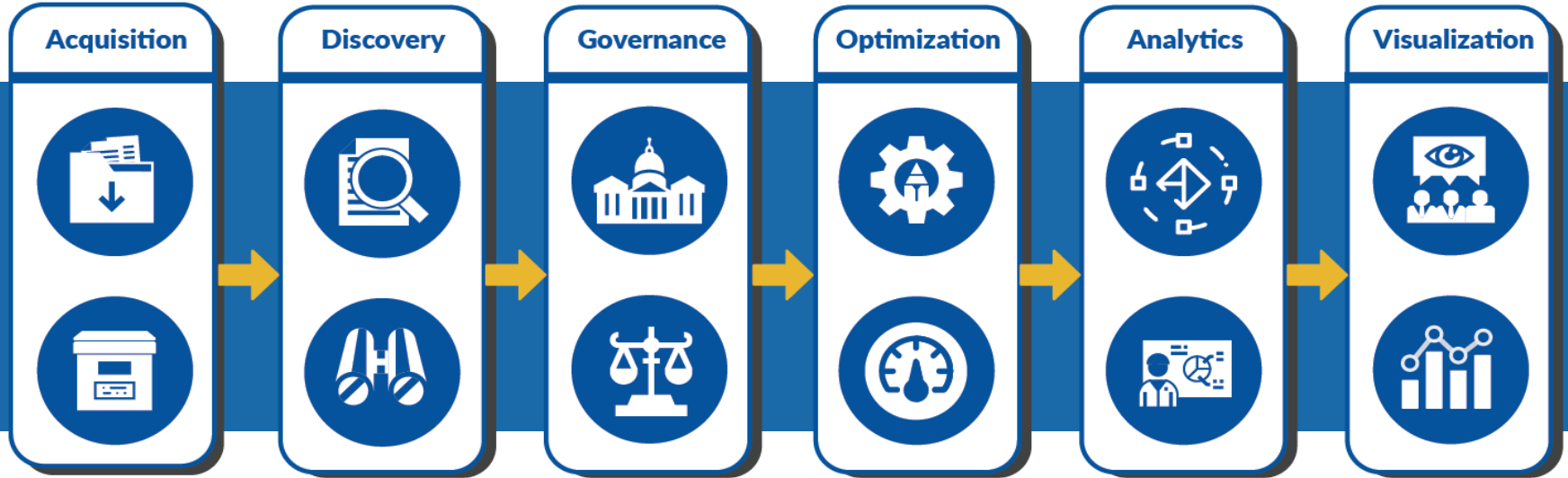
Source: <https://www.forbes.com>

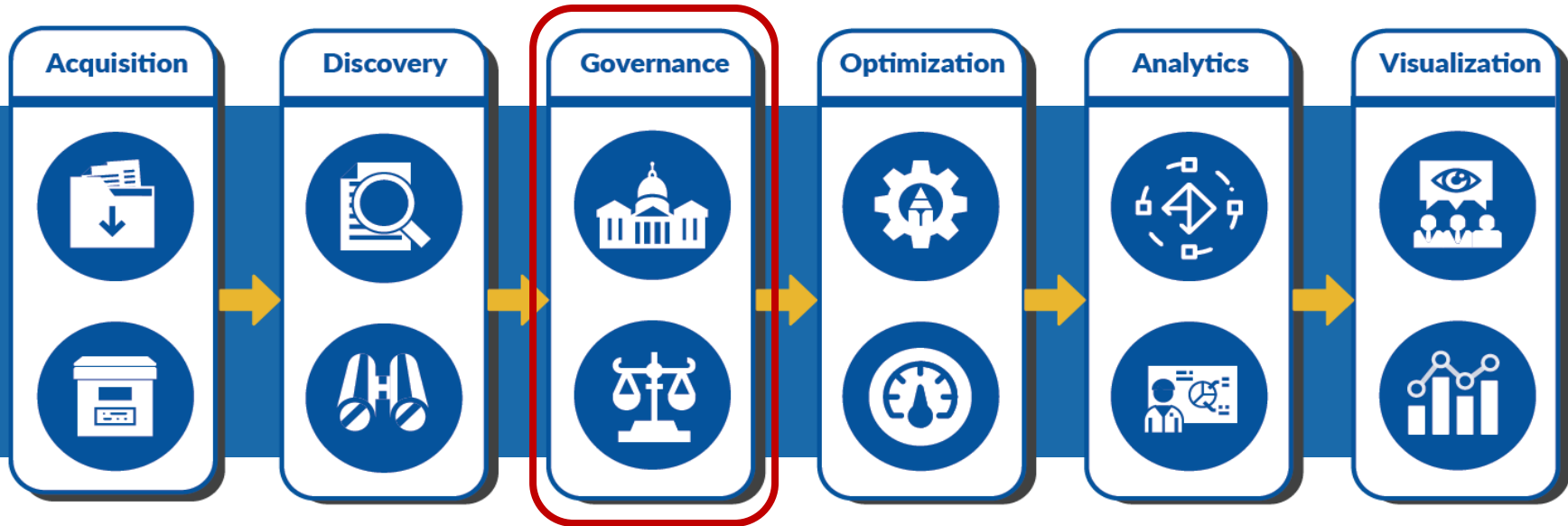
Data-related problems cost the majority of companies more than \$5 million annually...

**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 Architecture Management

- Value Chain Analysis
- Enterprise Architecture
- Related Architectures

Data Development

- Data Analysis
- Data Modeling
- Database Design
- Implementation

Data Security Management

- Standards
- Classifications
- Administration
- Authentication
- Auditing

Metadata Management

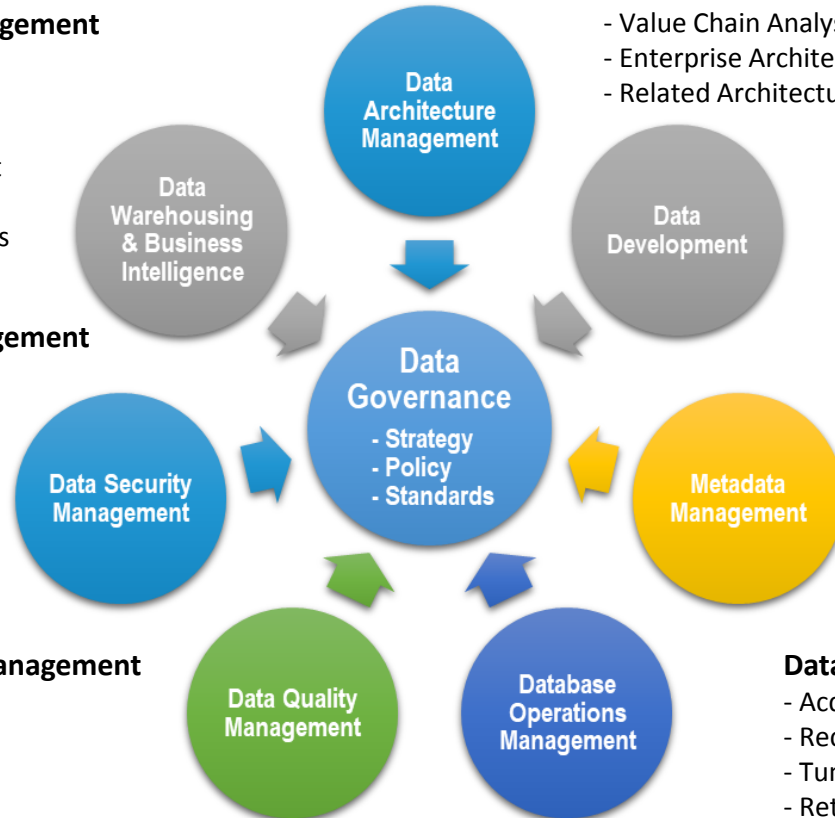
- Architecture
- Integration
- Control
- Delivery

Data Quality Management

- Specification
- Analysis
- Measurement
- Improvement

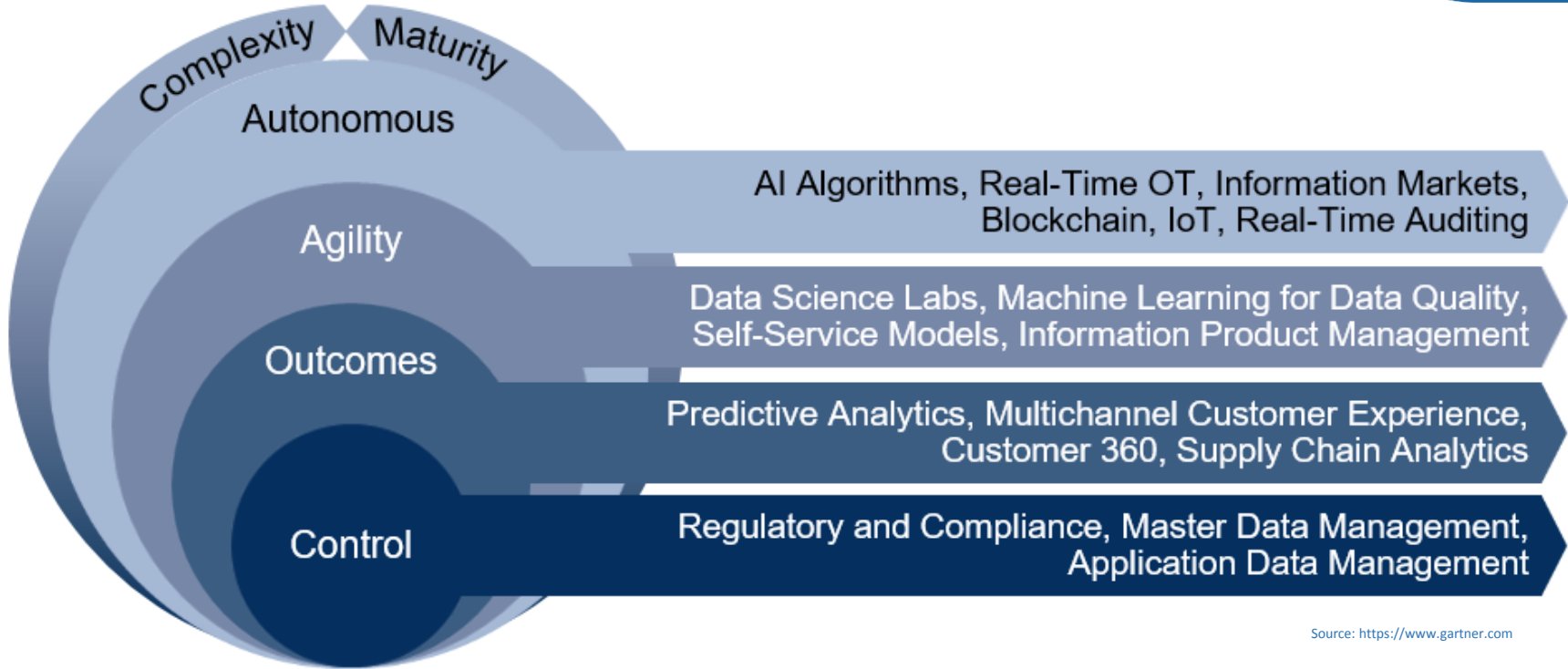
Database Operations Management

- Acquisition
- Recovery
- Tuning
- Retention



- ✔ 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

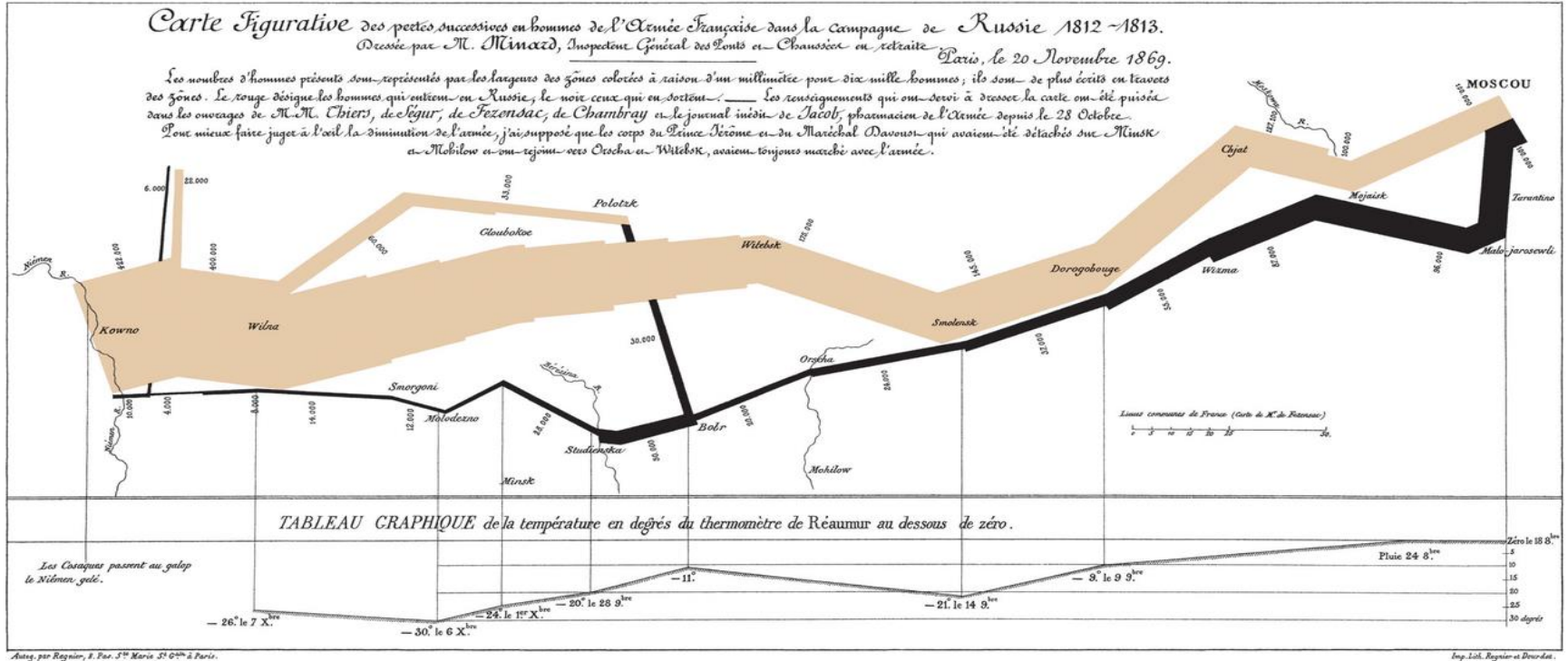
One Size Does Not Fit ALL



Source: <https://www.gartner.com>

Adaptive Data and Analytics Governance should be based on organizational capability that will deliver required business outcomes...

Visualization – Learn From the BEST



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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