

Leveraging Data for Decision Support

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What We Will Talk About Today

Introduction and Key Messages

The Data Imperative

The Data Informed Enterprise

Barriers to a Data Mindset

Best Practices in Data Driven Decision Making

A Call to Action



Keeping You Relevant!

Automation has been around for a long time. Amid COVID-19 and Long-COVID, the urgency to automate has never been greater.

Relevance depends on competency and talent. Technology is secondary to people and mindsets.

We must upskill in data analytics and strategy support.

We must recognize what is at stake – our relevance and influence in a fast-moving Digital Age.

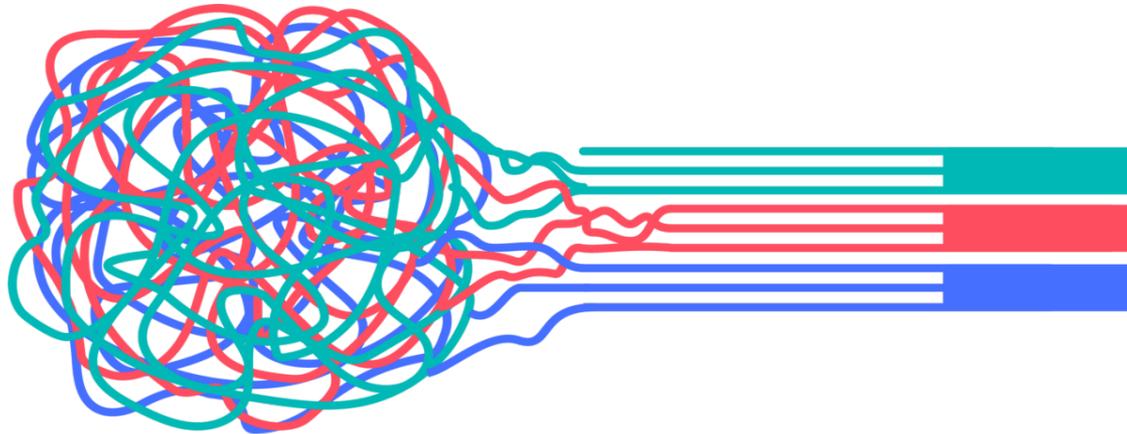


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Achieving Business Impact with Data

- 1. Data's skyrocketing importance in value creation**
- 2. The Data-to-Decision Value Chain**
- 3. Key perspectives on creating value and capturing impact in decisions**



Characteristic #1

Data is embedded in every decision,
interaction and process

Enablers

- A Vision and Data Strategy
- Technology Enablers
- Data Literacy
- Data-Driven Culture

Initiatives

- Begin Upskilling Employees
- Reimagine each workflow, function and process
- Articulate vision for data informed organization



Characteristic #2

Data is processed and delivered in real time

Enablers

- Full Business Architecture
- More powerful edge computing devices
- Advanced-connectivity infrastructures

Initiatives

- Take advantage reference-data architecture
- Evolve to cloud-enabled data platforms
- Learn about cellular-enabled computing devices



Characteristic #3

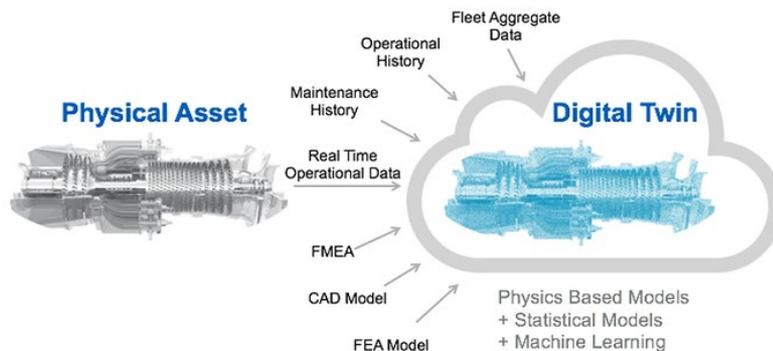
Flexible data stores enable integrated, ready-to-use data

Enablers

- Modern data architecture
- Development of data models and digital twin

Initiatives

- Implement culture and technology initiatives
- Identify critical data sets
- Develop taxonomy for data assets



Characteristic #4

Data operating model treats data like a product

Enablers

- **Date Strategy**
- **Data sources and types of data**
- **Data product owners**

Initiatives

- **Embed data specialists in the business**
- **Employ a data-governance operating**



	Data Analyst	Data Scientist	Data Specialist
Problem solving	Use existing tools and methods to solve problems with existing types of data	Invent new tools and models, ask open-ended questions, and collect new types of data	Use in-depth knowledge of databases as a tool to solve problems and manage data
Analysis	Analyze collected data to help stakeholders make better decisions	Analyze and interpret complex data to make business predictions	Organize large volumes of data for use in data analytics or business operations
Other relevant skills	<ul style="list-style-type: none">• Database queries• Data visualization• Dashboards• Reports• Spreadsheets	<ul style="list-style-type: none">• Advanced statistics• Machine learning• Deep learning• Data optimization• Programming	<ul style="list-style-type: none">• Data manipulation• Information security• Data models• Scalability of data• Disaster recovery



Characteristic #5

The Chief Data Officer's role is expanded to generate value

Enablers

- Data Literacy
- Data talent with an eye towards innovation
- Innovation incubators

Initiatives

- Develop priorities underpinned by scorecards and metrics
- Reinforce an ethical use of data



Characteristic #7

Data management is prioritized and automated for privacy, security and resiliency

Enablers

- Elevating the importance of data security
- Individual data-protection rights
- Cloud-based data-resiliency and storage

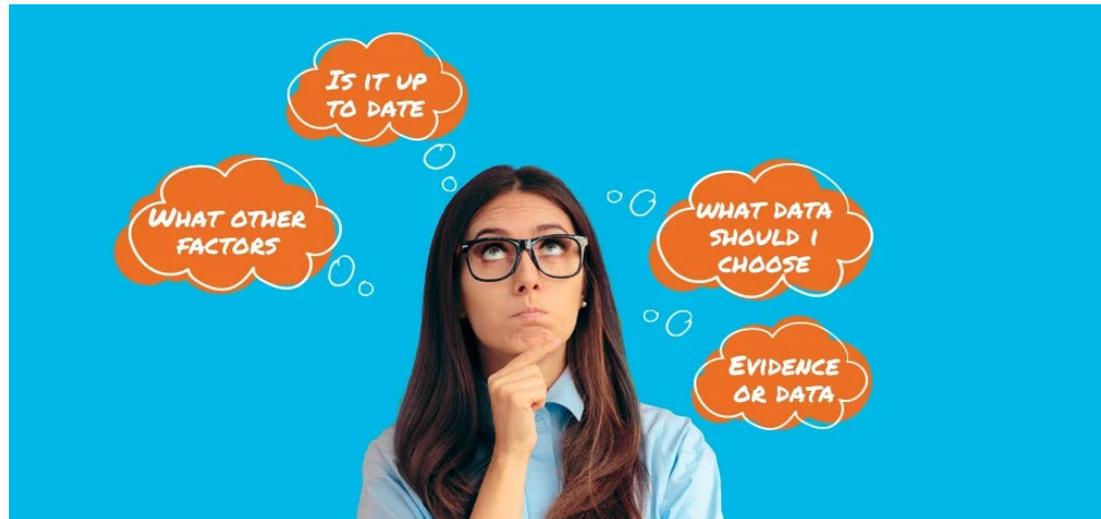
Initiatives

- Adopt a data ethics framework
- Leverage cloud tools
- Create road map for integrating evolving capabilities

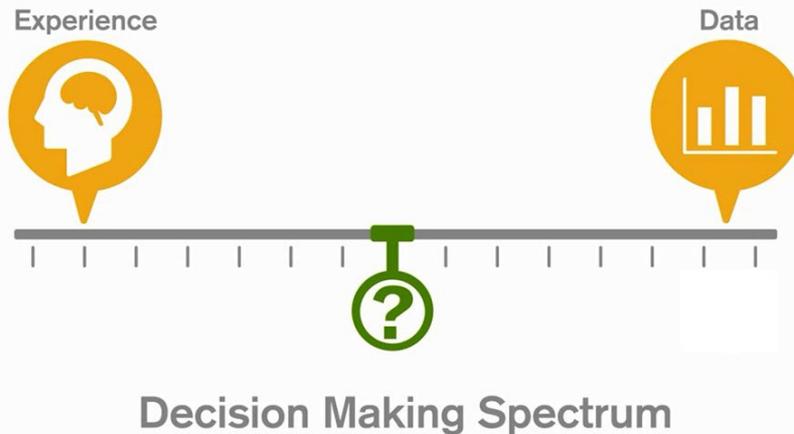


Barriers to a Data Mindset

- **The separation of data and business**
- **The gap between insight and impact**
- **No proper anchoring of the Data Analytics competence**



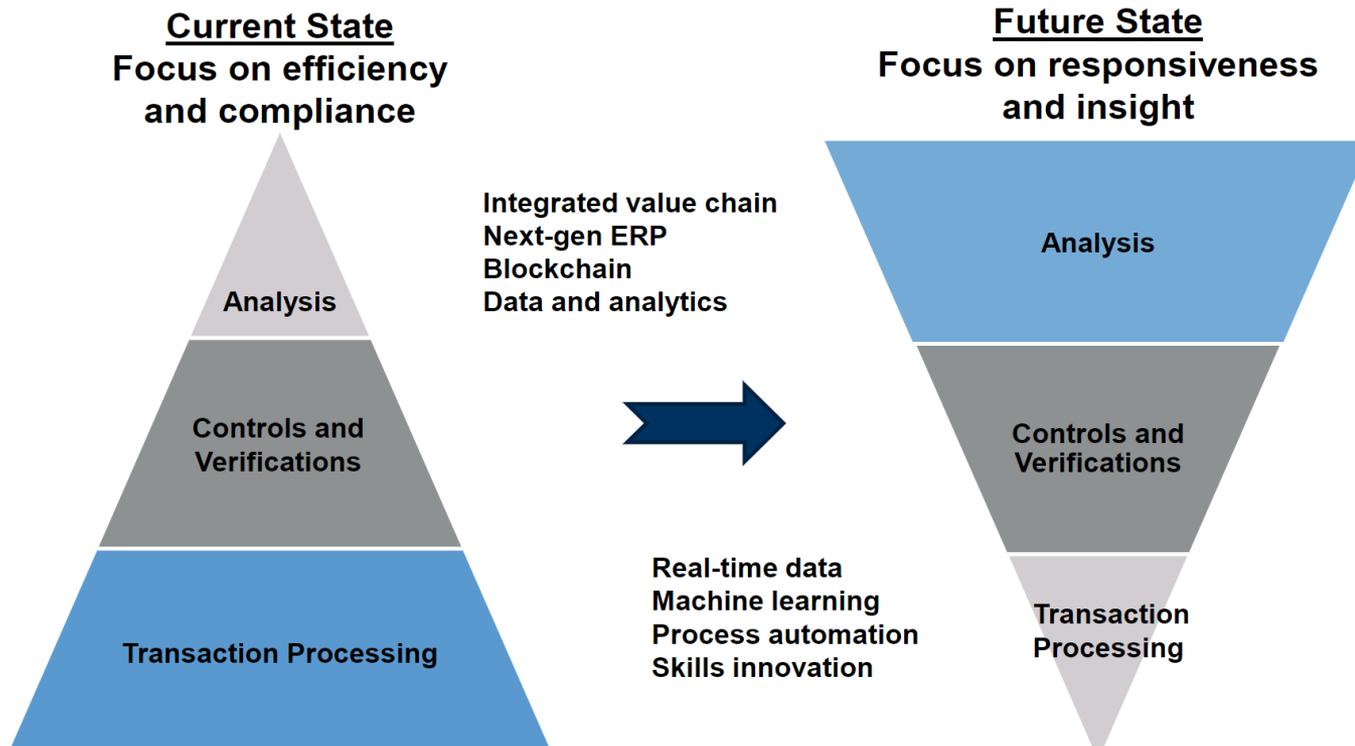
Best Practices in Data Informed Decision Making



- **Analytics is not a tool but a new language**
- **Translators are crucial**
- **Change management is crucial**
- **IT cannot be held up or allowed to stagnate**
- **Agility must be lived and breathed**



Evolving Role of Finance and Accounting



Are you “Fit for Purpose” in a Digital Age?



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New technologies will result in the elimination of many finance and accounting positions.

New technologies also have the potential to create new ones.

Data analytics and decision support is one of these emerging areas.

The key will be a shift from financial reporting and stewardship to becoming a business partner and strategic enabler.

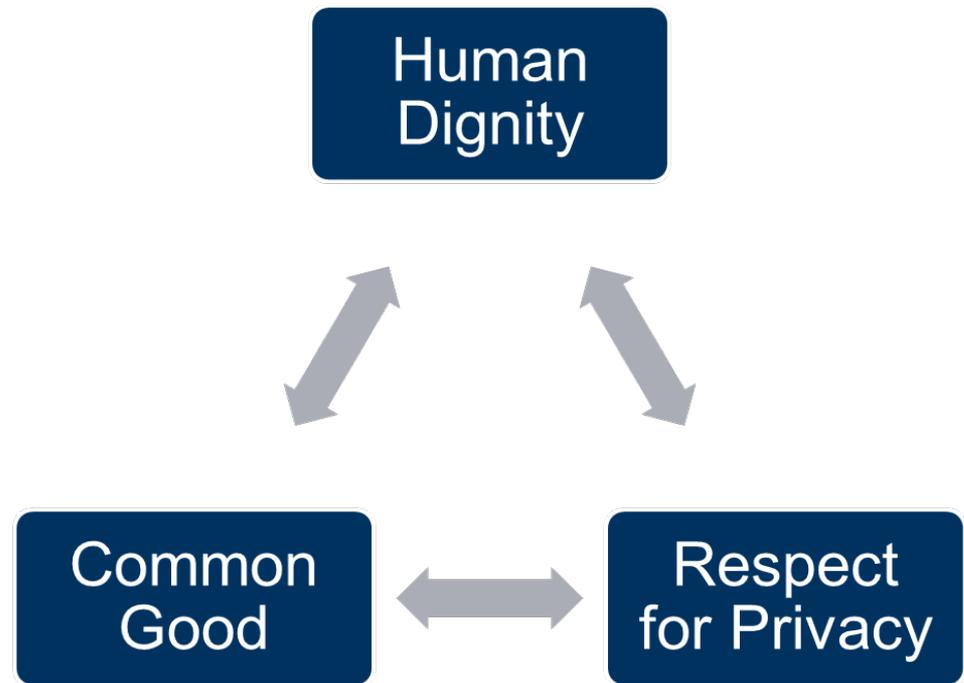
Successful comptrollership will not only help organizations perform better but also add strategic value.



Ethics in a Digital Age

“Technology is not neutral – it has values embedded in its design and implementation. Seemingly innocuous design choices can have resounding impacts on people’s lives.”

Dr. Cara LaPointe, Georgetown University

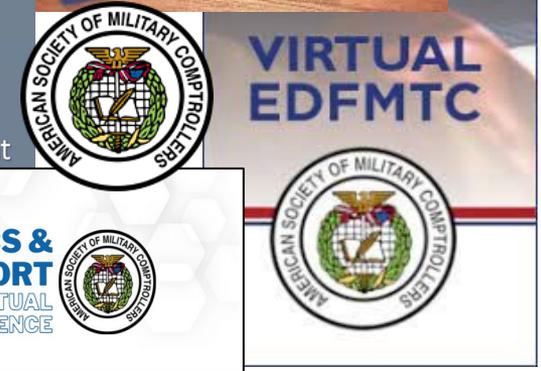
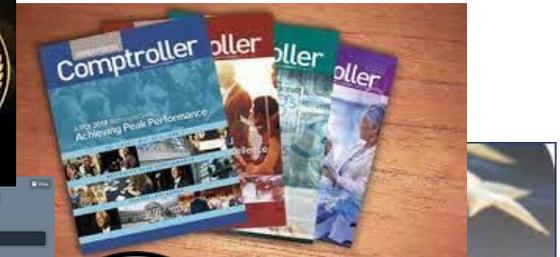


Source: World Economic Forum, “The law can’t keep up with new tech. Here’s how to close the gap.”



ASMC's Value Proposition

- Promote Education, Training, and Certification
- Lead Financial Transformation in Government
- Uphold the Highest Ethical and Professional Standards



THANK YOU!

For Your Support to the ASMC
For Your Excellence in Military
Comptrollership
For Your Commitment to National Defense

