

Workshop: Self-Service Data and Analytics for the Citizen Data Scientist

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Strategic Planning Assumptions

By 2019, citizen data scientists will surpass data scientists in the amount of advanced analysis produced.

By 2020, more than 40% of data science tasks will be automated, resulting in increased productivity and broader usage by citizen data scientists.

By 2020, the number of data and analytics experts in the business units will grow at three times the rate of experts in IT departments, which will force companies to rethink their organizational models and skill sets.

By 2020, users of modern analytics and business intelligence platforms that are differentiated by augmented data discovery capabilities will grow at twice the rate — and deliver twice the business value — of those that do not.

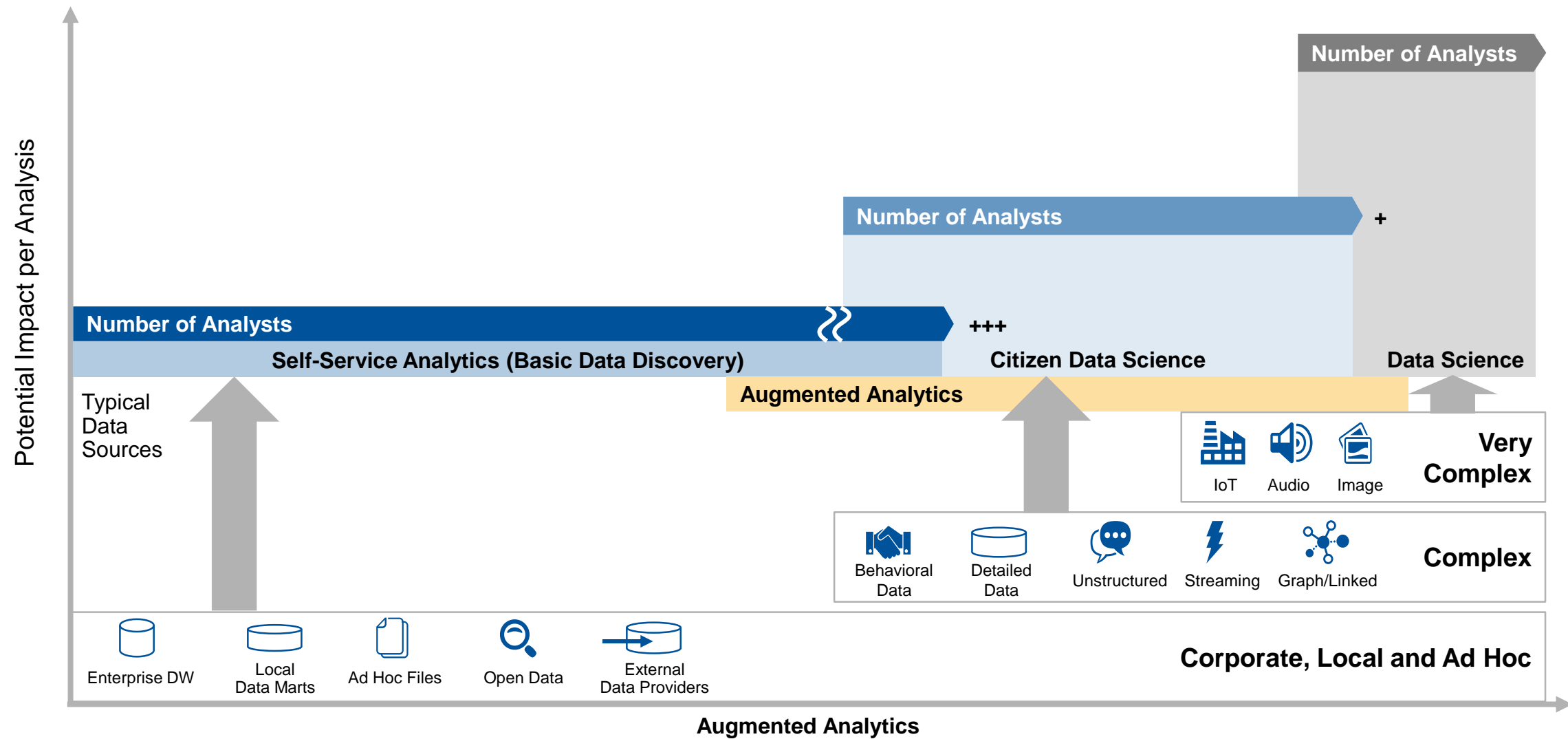
Workshop Agenda

1. Self-Service for the CDS Guidance (15 Minutes)
Take the Four Pillars End to End
2. Group Exercise (35 Minutes)
Recommend a Self-Service for the CDS Approach
Based on a Case Study
3. Report Back (30 Minutes)
Share Your Decisions
4. Summary and Next Steps (10 Minutes)

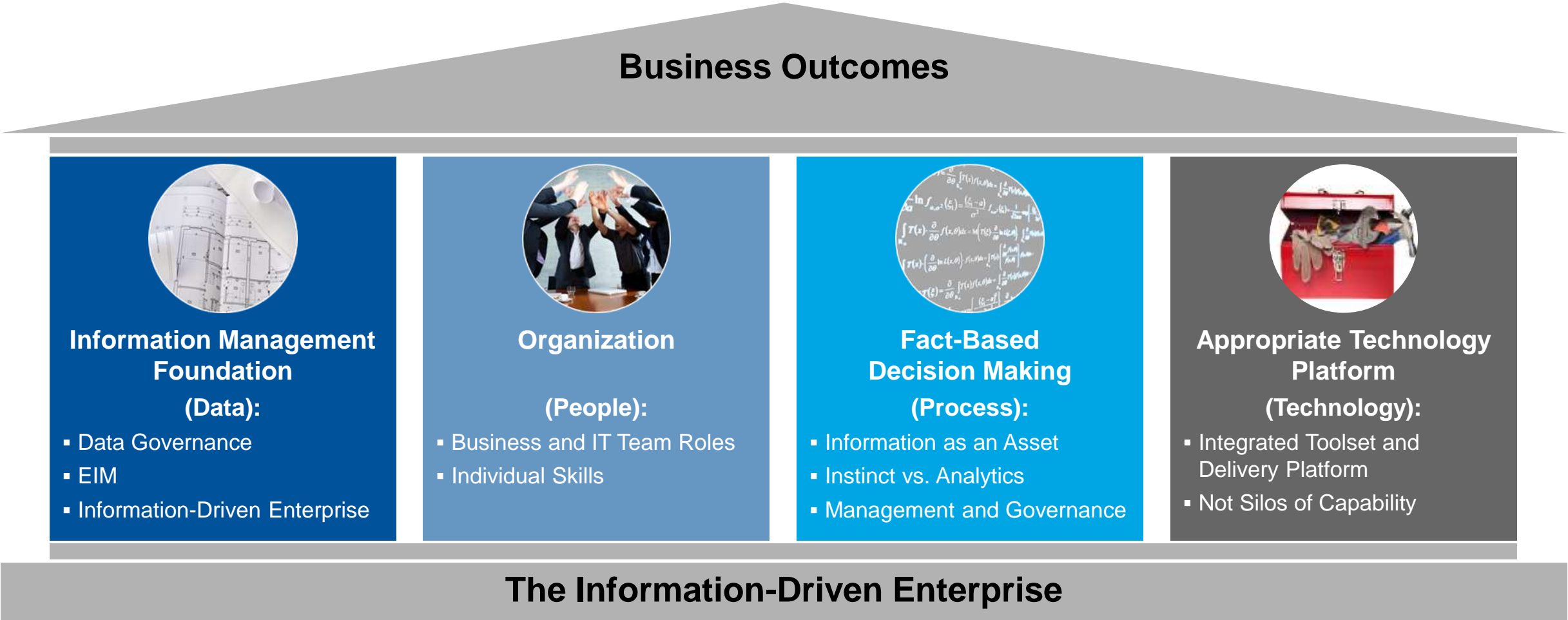
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Citizen Data Science



Keep the Four Pillars in Mind

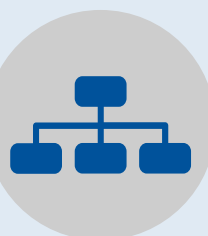


Comprehensive Analytic Process — Where Self-Service Fits



Acquire

- ✓ Provision Internal and External Sources
- ✓ Evolve Toward a Logical Data Warehouse
- ✓ Incorporate Data Management
- ✓ Establish a Common Metadata Model
- ✓ Augmented Data Preparation



Organize

- ✓ Leverage Architectural Styles
- ✓ Provide a Common Data Access Layer
- ✓ Enable Self-Service Integration and Data Preparation
- ✓ Enable Flexible Provisioning

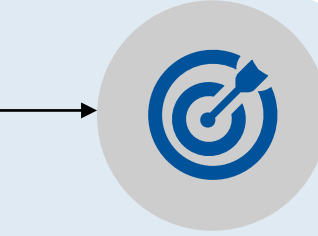


Analyze

- ✓ Leverage Existing Reports
- ✓ Extend Functionality
- ✓ Provide Reusable Components
- ✓ Establish a Multitiered BA Environment
- ✓ Augmented Data Discovery
- ✓ Augmented Data Science and Machine Learning



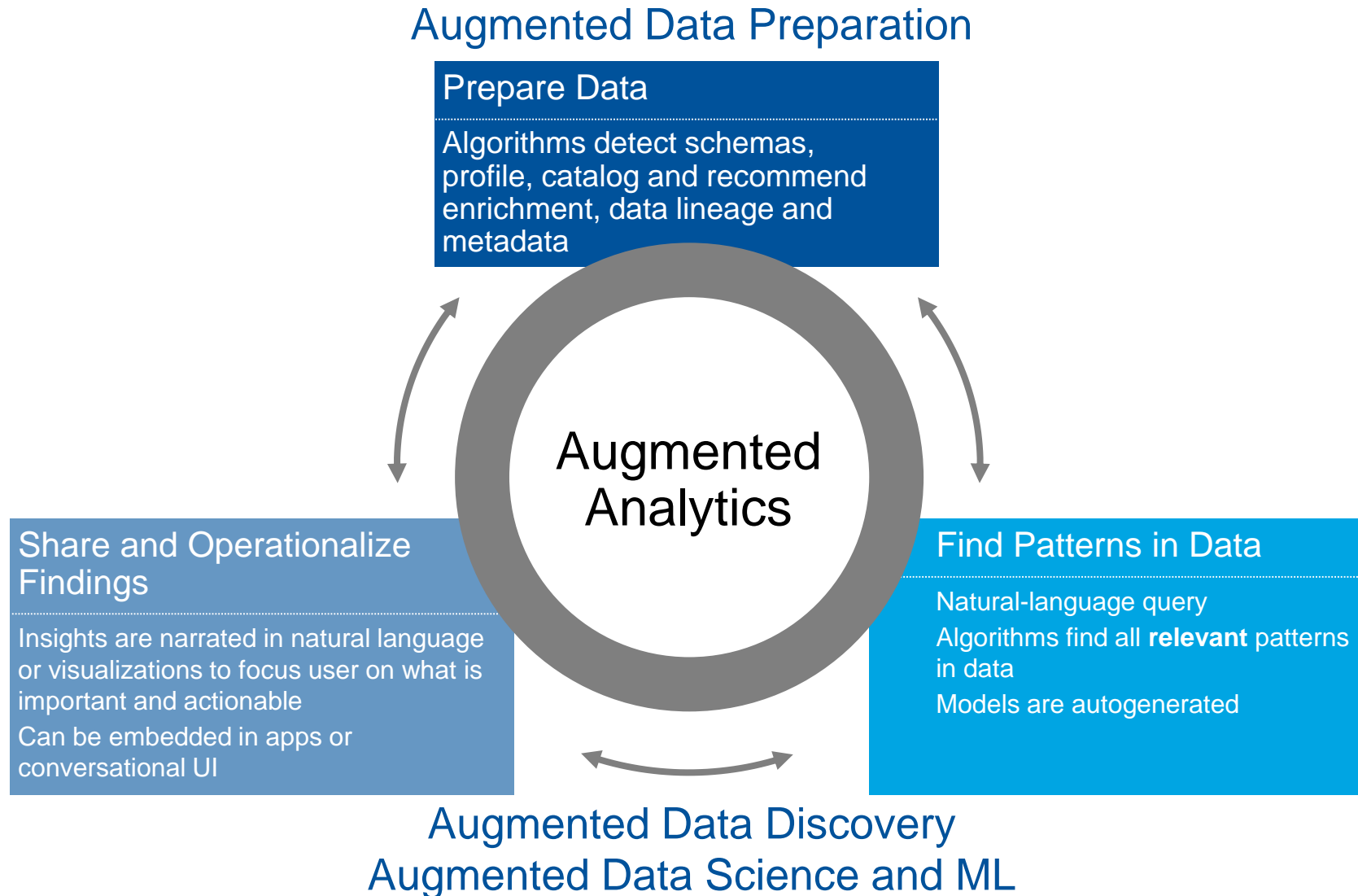
Deliver



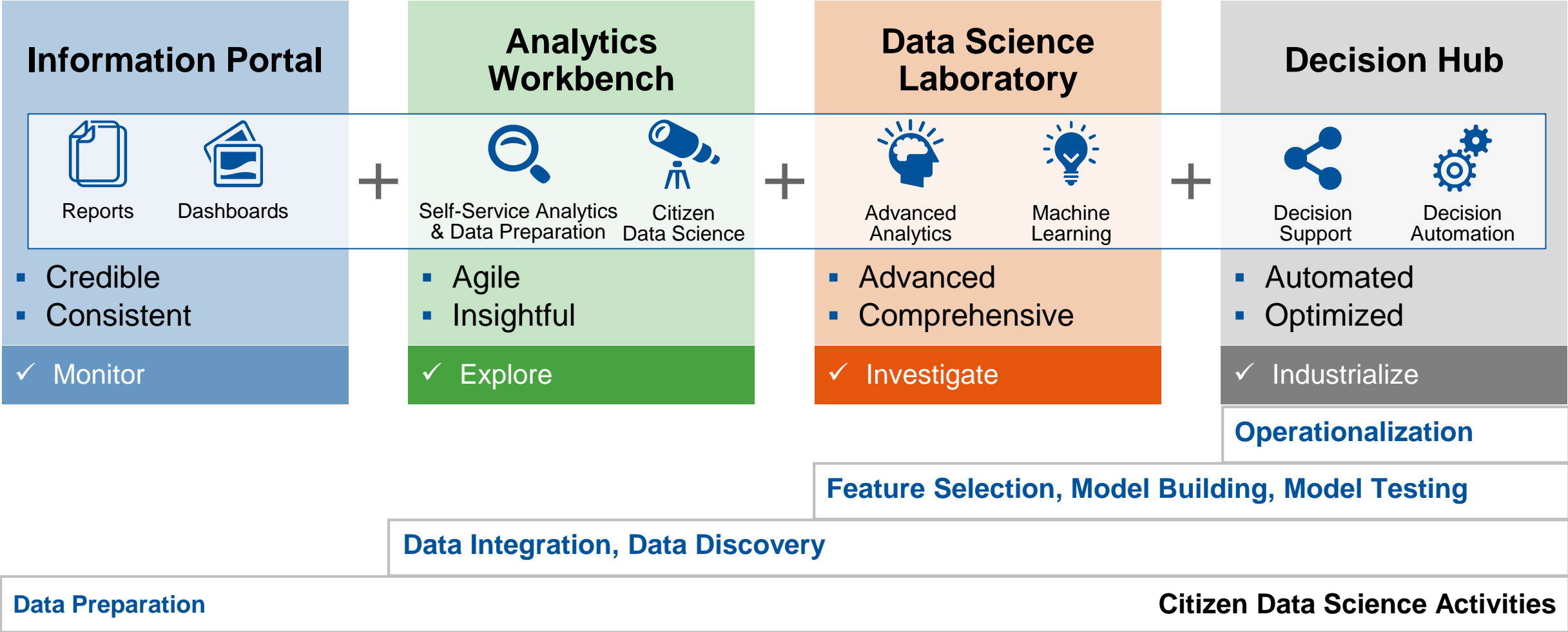
Measure

- ✓ Monitor Artifacts
- ✓ Facilitate Collaboration
- ✓ Measure the Value
- ✓ Share and Operationalize Findings

Empower and Enable With Augmented Analytics



Four-Tiered Analytic Architecture



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The Group Exercise

1. Form into groups of four or five people
2. Review the case study and discuss the considerations relevant to your case study
3. Devise a self-service approach including:
 - All four pillars of data, people, process and technology
 - The end-to-end BA process
4. Document your rationale and considerations
5. Prepare to present your findings

Self-Service for the CDS Planned Approach

	Data	People	Process	Technology	Other
Data					
Insight					
Action					
Impact					
Other					

Ground Rules

- Respect the speakers:
 - All ideas/comments are valid.
 - Please stay engaged.
- Speak up and request clarification.
- Make your point first — then explain it.
- Learn something new!
- Have some fun!



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Report Back

- Each team reports back to the whole group related to their use case:
 - Considerations, challenges, approach, priorities and rationale.
- Share your "aha" moments; how to apply this learning back to work.

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Recommended Gartner Research

- ▶ [Pursue Citizen Data Science to Expand Analytics Use Cases](#)
Joao Tapadinhas and Carlie J. Idoine (G00316089)
- ▶ [Citizen Data Science Augments Data Discovery and Simplifies Data Science](#)
Joao Tapadinhas and Carlie J. Idoine (G00314599)
- ▶ [Leading Upskilling Initiatives in Data Science and Machine Learning](#)
Peter Krensky, Shubhangi Vashisth and Douglas Laney (G00334219)
- ▶ [Augmented Analytics Is the Future of Data and Analytics](#)
Rita L. Sallam, Cindi Howson and Carlie J. Idoine (G00326012)
- ▶ [Eight Steps to Picking the Best Self-Service BI and Data Discovery Tool](#)
Cindi Howson (G00277712)

Summary and Next Steps

1. Thank you for participating!
2. Complete your feedback forms.
3. Keep in touch.

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