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5 Things That Keep Data Management Leaders Up at Night



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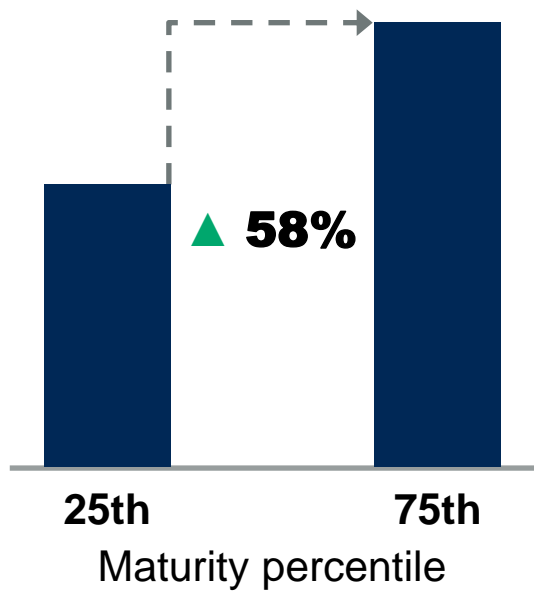
Thomas Oestreich

Managing Vice President



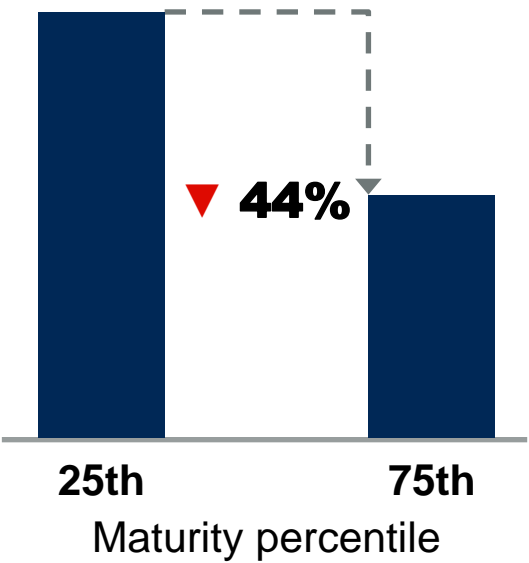
Execution Over Strategy

Impact on firm performance*



Improves with investments in functional activities

■ Firm financial performance as measured on total revenue



... But **decreases** with investments in strategic activities

* This result holds for the overall sample (n = 310)

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5 Things That Keep You Up at Night ... and Prevent You From Improving Maturity

How can we cope with and scale to address the increasing demand in my team?



Drive operational excellence

How can we turn “shadow IT” data management into successful cooperation?



The new deal with business

How do we build the foundation for scaling and leverage the market dynamics and changes?



Build a future-proof architecture and infrastructure

How do we make sure that data management practices are safe, trustworthy and reusable?



Establish adaptive governance

Everybody talks about GenAI. What does this mean for my team and practice?



The impact of GenAI

1. Drive operational excellence

2. Make the new deal with business

3. Build a future-proof architecture
and infrastructure

4. Establish adaptive governance

5. The impact of GenAI

DataOps Drives Efficiency

To drive data engineering productivity through data pipeline automation.

By 2025, a data engineering team guided by DataOps practices and tools will be 10 times more productive than teams that do not use DataOps.

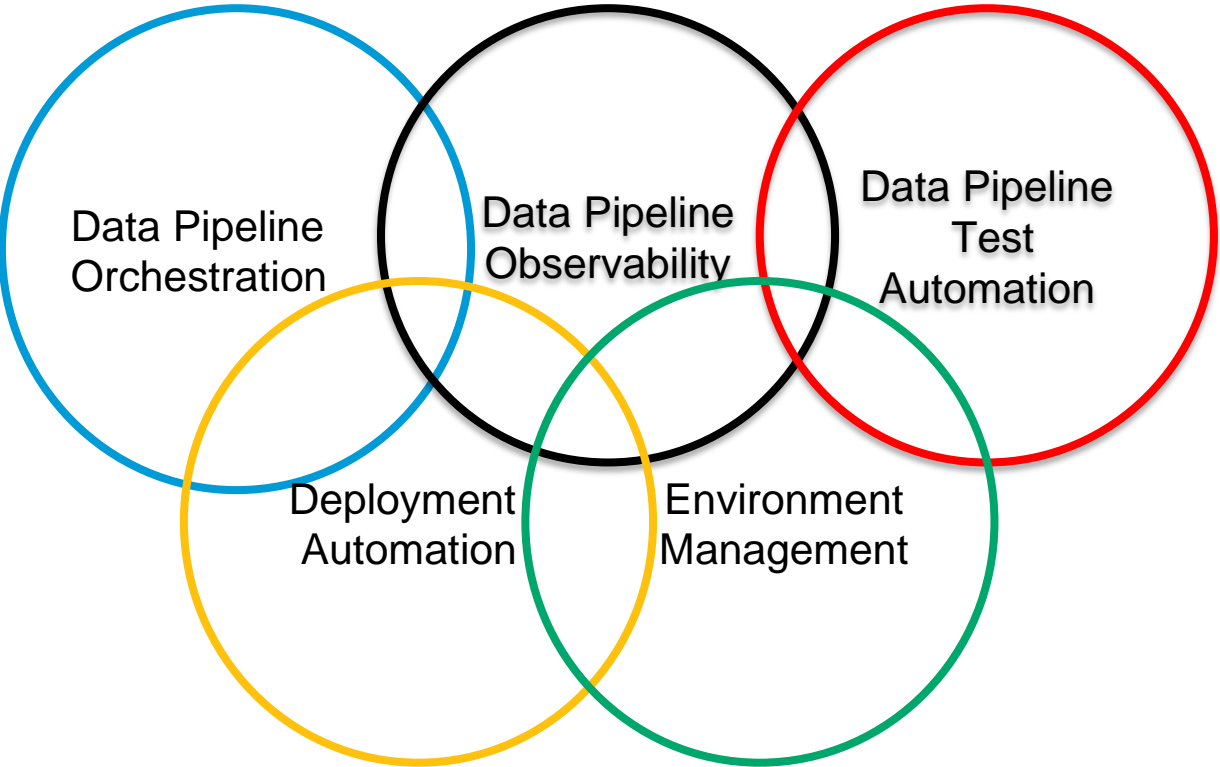


One release every three months



120 releases a month

Invest in DataOps Tools to drive Data Delivery Operational Excellence

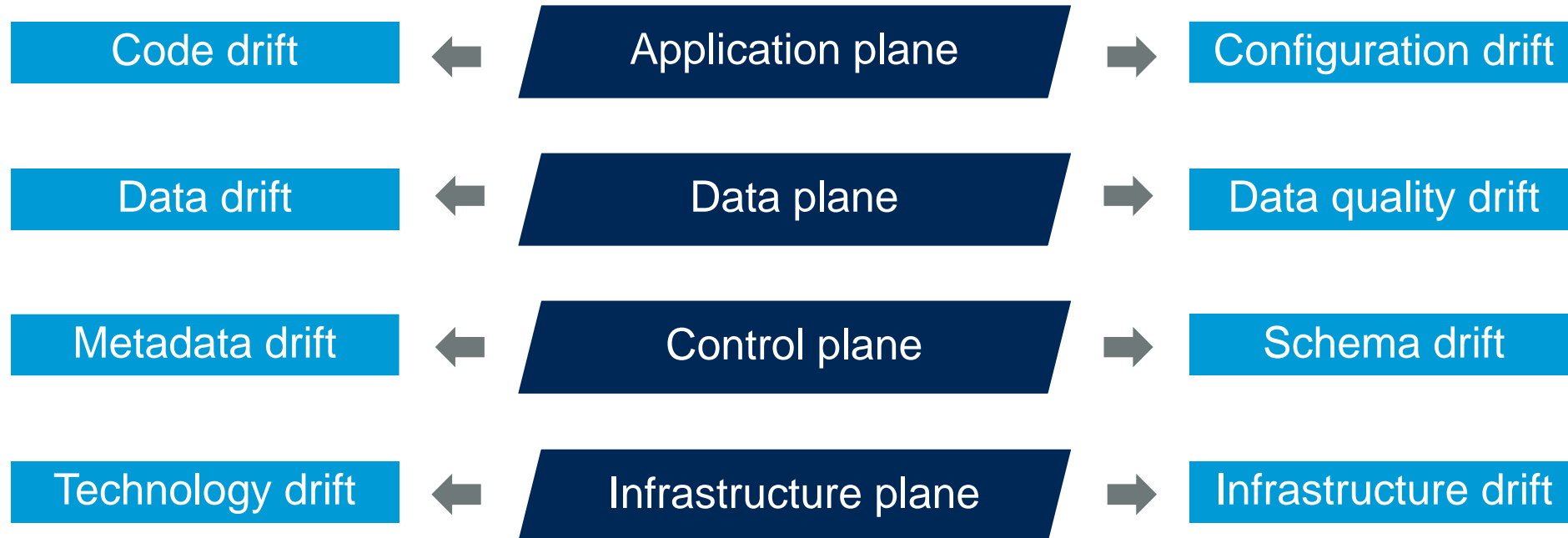


Benefit Rating	High
Tech Maturity	Adolescent
Market Penetration	5-20% of Target Audience
Time to Mainstream	2 to 5 Years

As of July 2023

Data PlatformOps Reduces Complexity

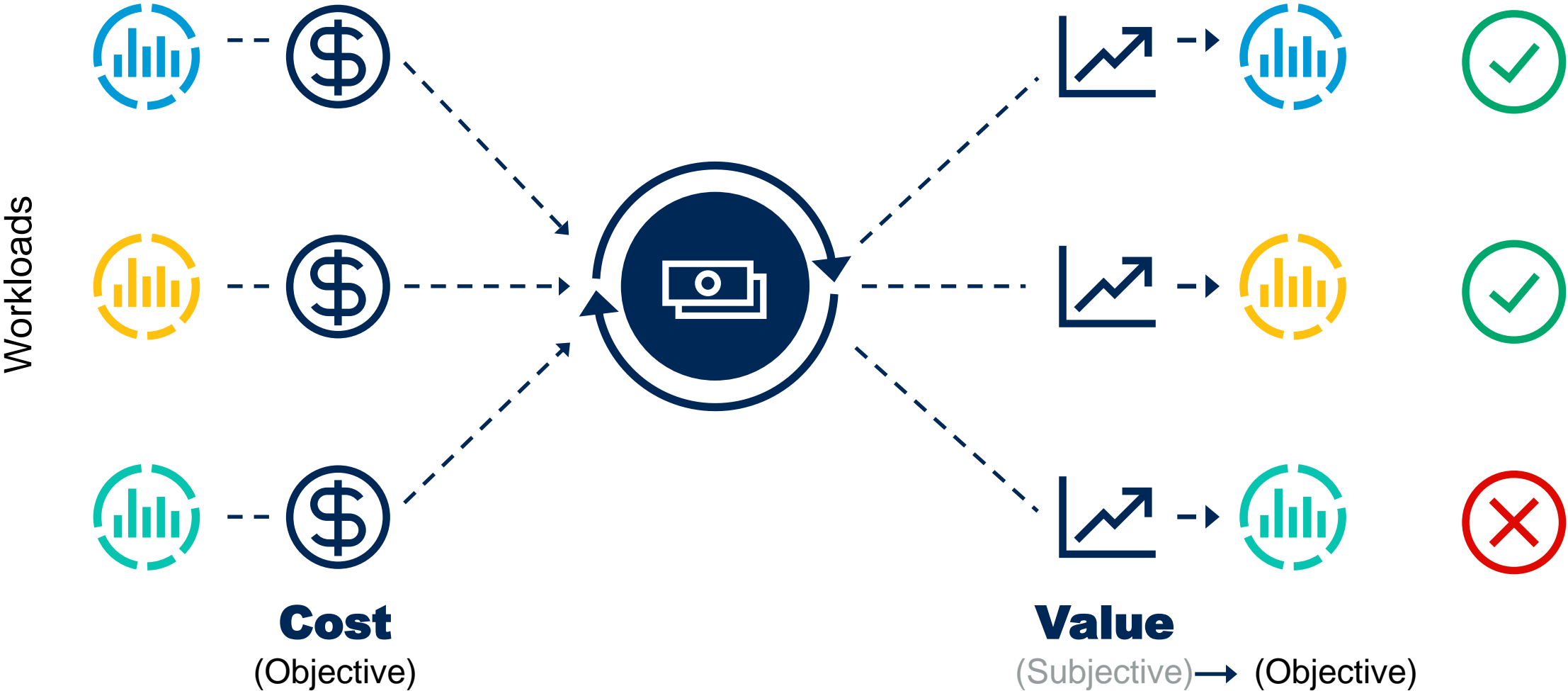
D&A infrastructure is complex with several potential breaking points.



Best practice: Separate data operations from data platform operations.

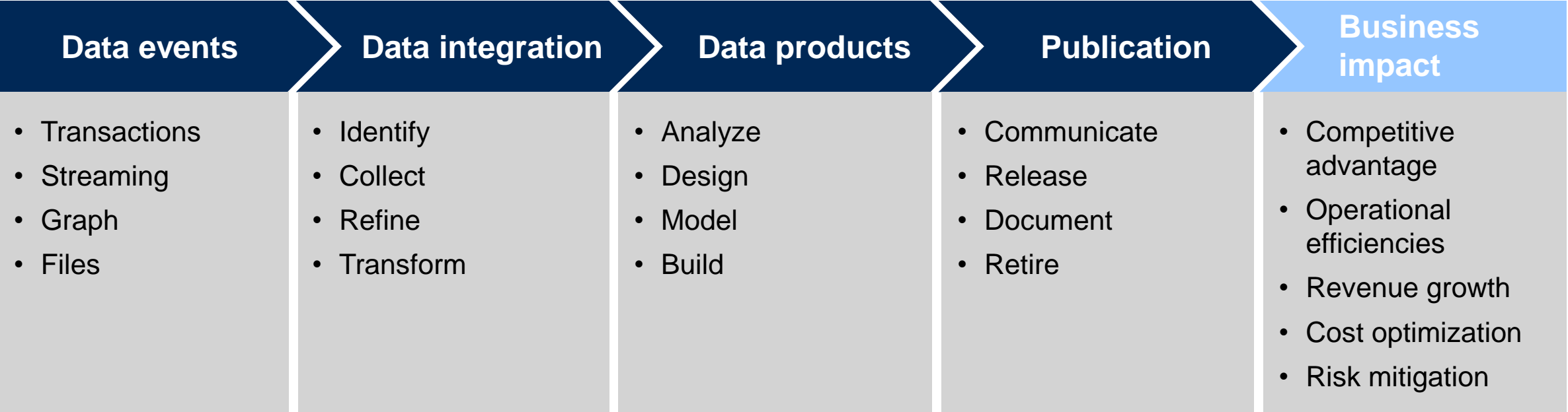
Think of your data platform as a Data Operations-as-a-service for your data engineering community.

The FinOps Equation: Connect Cost With Value



Data Management Value Chain

If you do not start measuring **this**, how can you align to **that**?



Measure Your Data Delivery Processes

Sample progress (or execution) metrics:

How you build

- On budget
- On time
- On requirement
- % data sources addressed
- % systems aligned with MDM
- % data quality

How you run

- User survey results
- % data used, reused, shared
- Running cost of platform
- Uptime, SLA metrics
- % users on right data literacy level

How you grow

- Average time to add a data source
- Average time to build and implement a use case
- No. of active D&A users added
- Improved cycle time and lead time

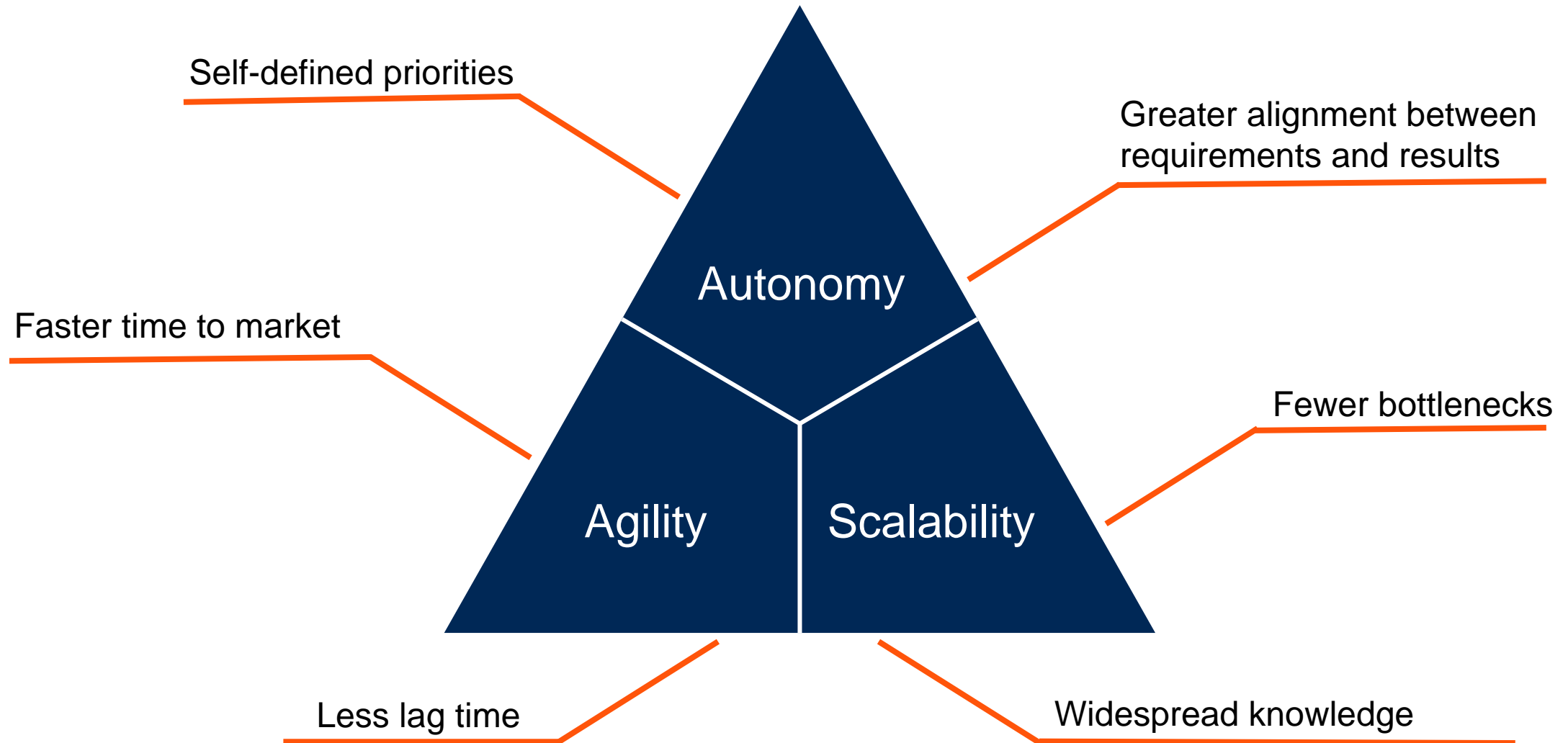
Key Issue Take-Away:

Streamline, automate and augment your data pipeline and platform operations, leveraging technology to reach a new efficiency frontier.

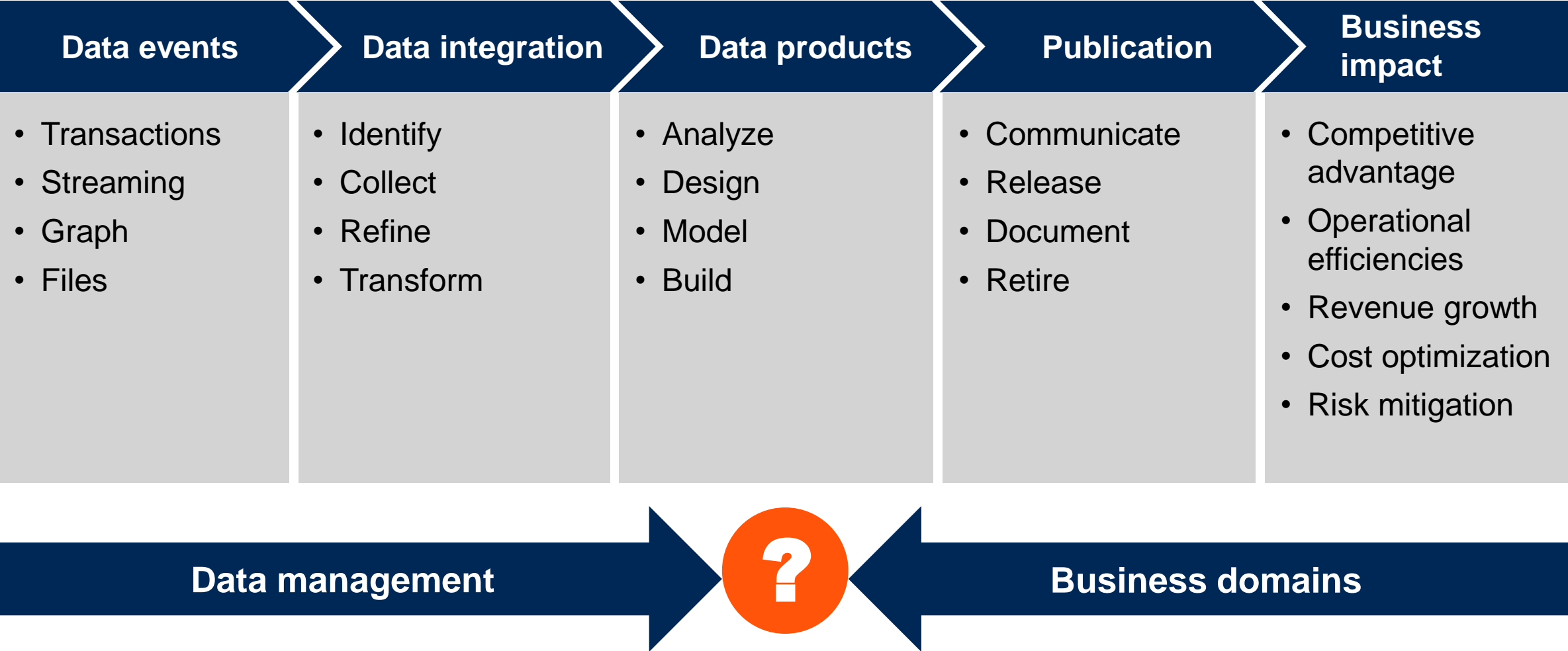
Measure the actual cost of your data workloads.
Align them to the value created from using the data.

1. Drive operational excellence
- 2. Make the new deal with business**
3. Build a future-proof architecture and infrastructure
4. Establish adaptive governance
5. The impact of GenAI

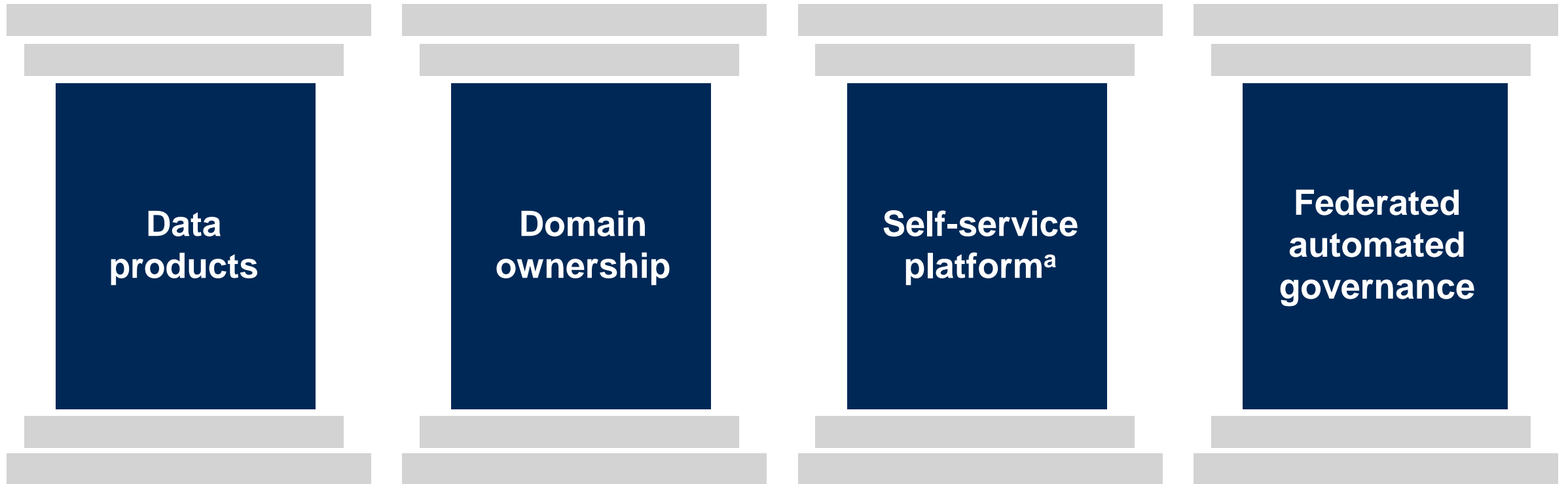
The Benefits



How Far Can Business Take Over?



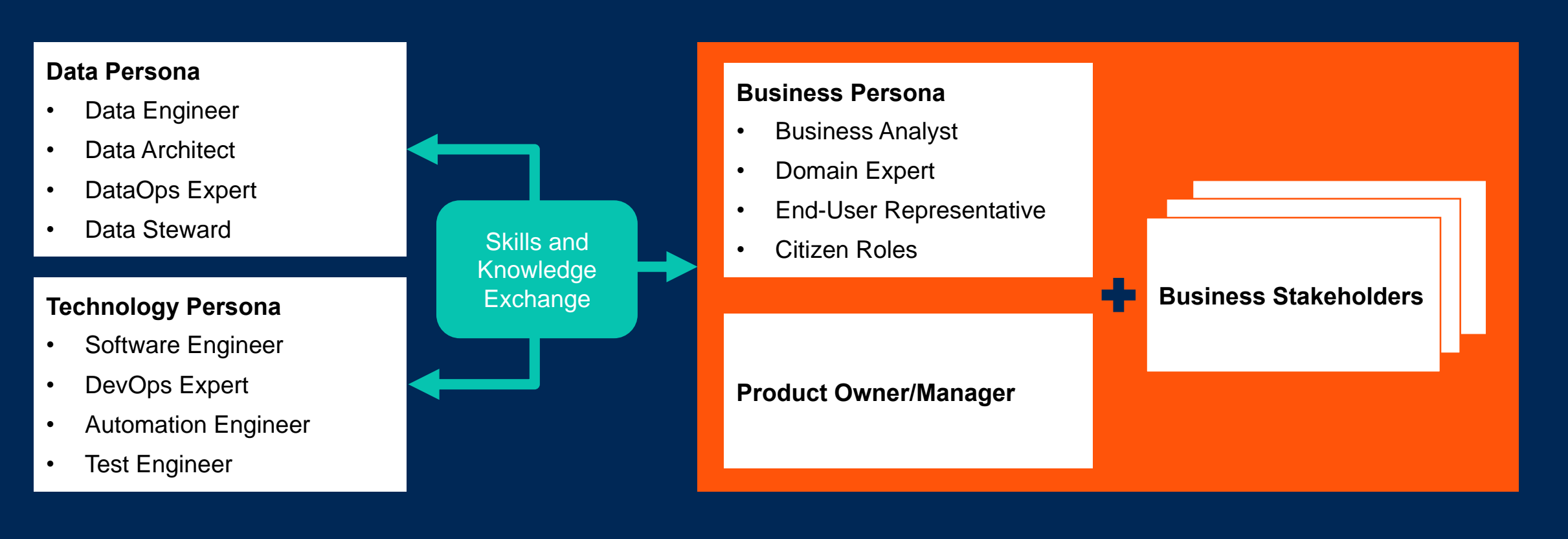
Getting From Self-Service to Self-Sufficient



^a To enable self-service provisioning of shared services.

Model Domain Teams as Fusion Teams

Domain Team



Note: “Persona” characterizes the type of certain roles; it’s not a specific skill or job title.

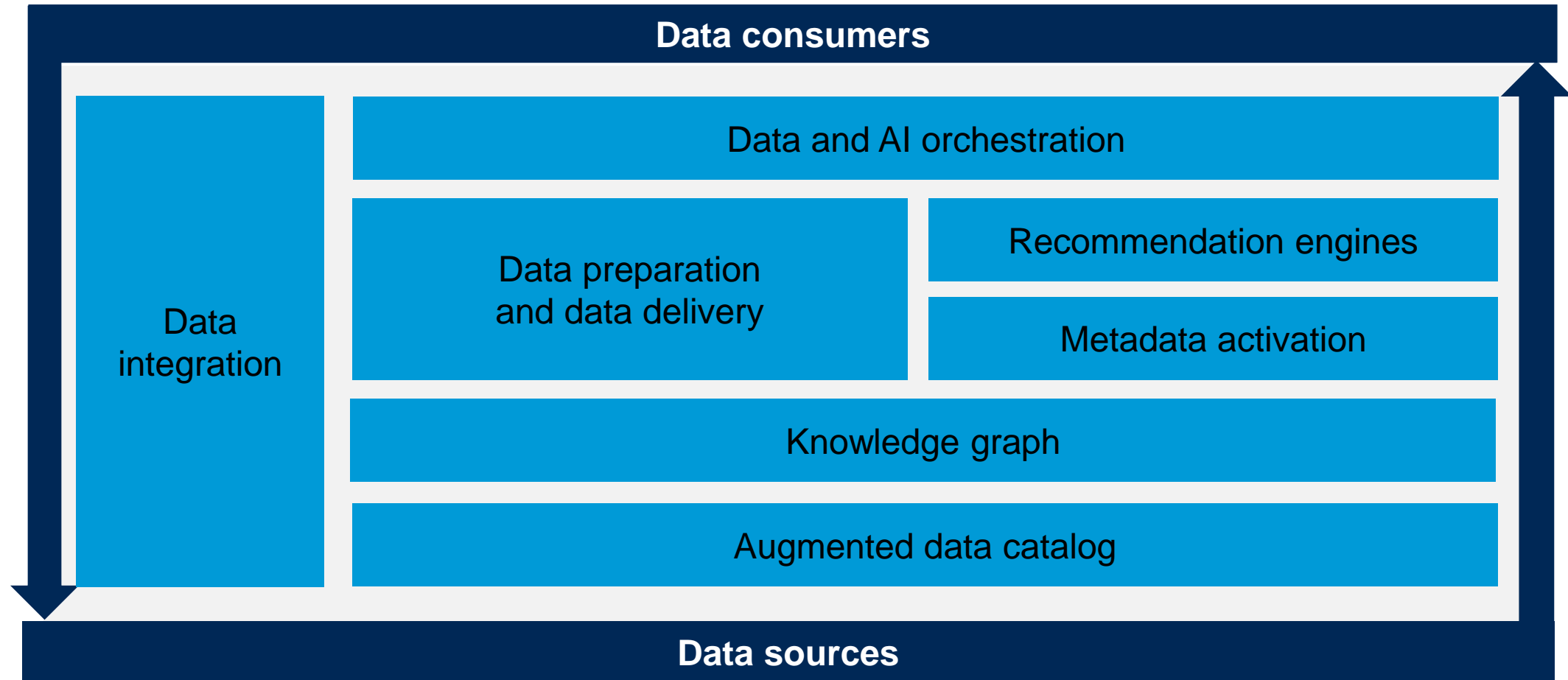
Key Issue Take-Away:

The key to “enable” business domains is by clarifying roles and responsibilities and ensuring knowledge and skills are in place.

A successful path requires the business domains to invest and be included from the beginning.

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Data Fabrics Need to Be Designed — With Composable Technology Parts



Source: Quick Answer: What Is Data Fabric Design?

Convergence Around Data Fabric Design

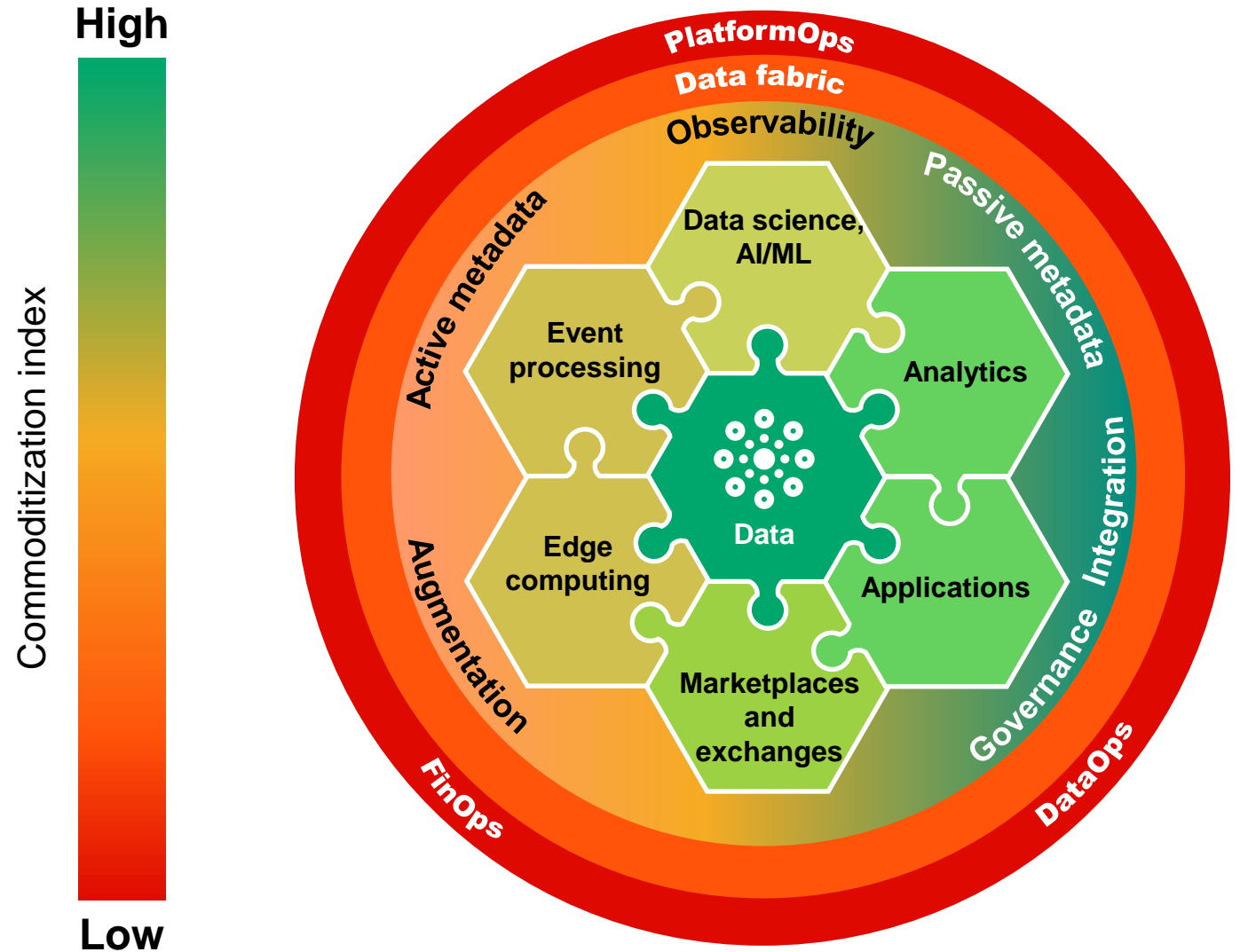
Analytics & BI platform	D&A governance platform	App integration platform	Data science & ML platform	Ops tools
Data integration	Data quality	Metadata management	Master data management	Database management
Data virtualization	Data profiling	Data catalog	Product mastering	Data warehouse
Replication and synchronization	Data validation	Data lineage	Customer mastering	Data lake
Data preparation		Active metadata management	Augmented MDM	Graph stores
Reverse ETL	Data observability		Multidomain MDM	Document database
Streaming	Data governance (execution)			Time series

Data fabric capabilities converge to provide better integration, semantics and organization

**By 2028,
the data management markets
will converge into “a single market”
around data ecosystems
enabled by data fabric and GenAI
reducing technology complexity.**

Data Ecosystems: Driven by Commoditization

- High commoditization shifts focus away from individual components.
- Data ecosystem adopters interact only with the outer business practices layer.
- Competitive landscape shifts to orchestration and optimization, not individual puzzle pieces.



Key Issue Take-Away:

Data fabric design is the future-proof architecture.

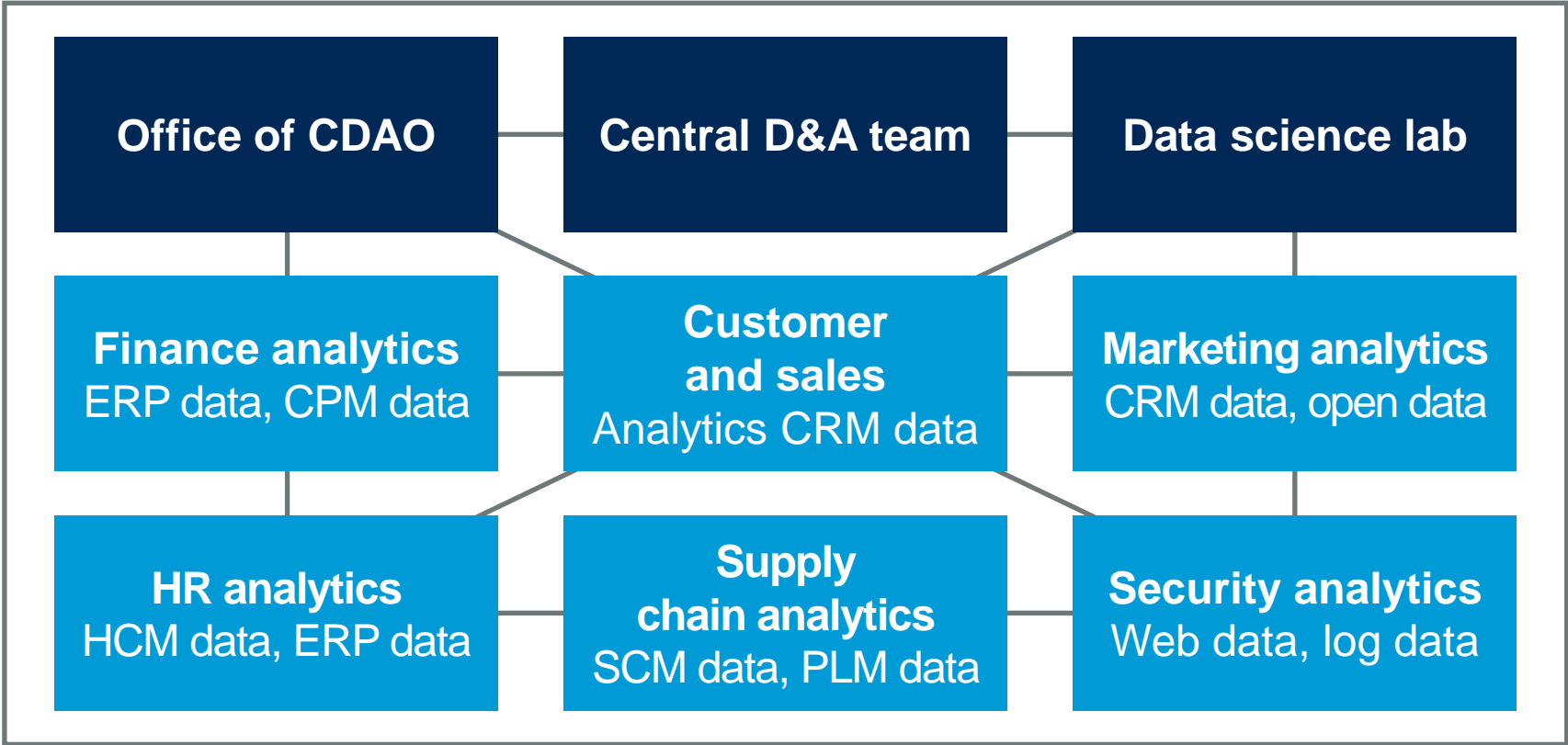
Data ecosystems will lead to your future infrastructure.

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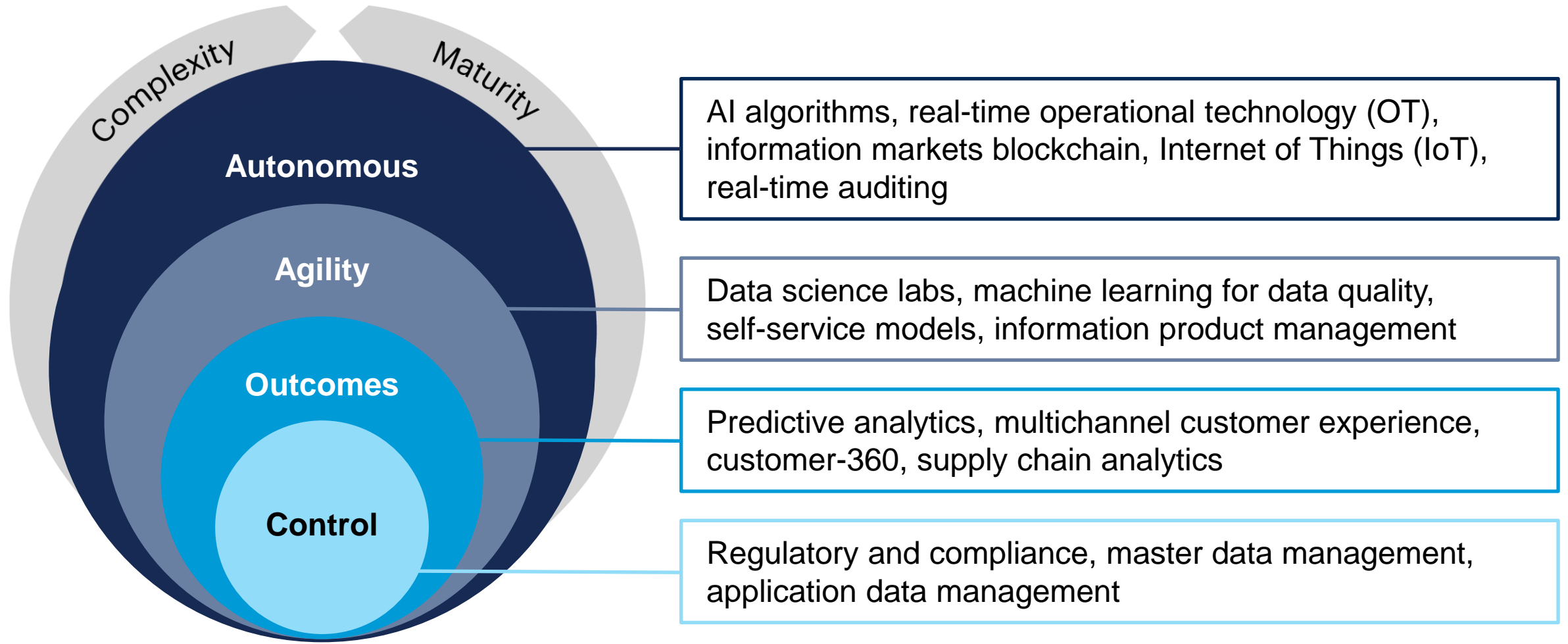
Move From Control to Collaborate



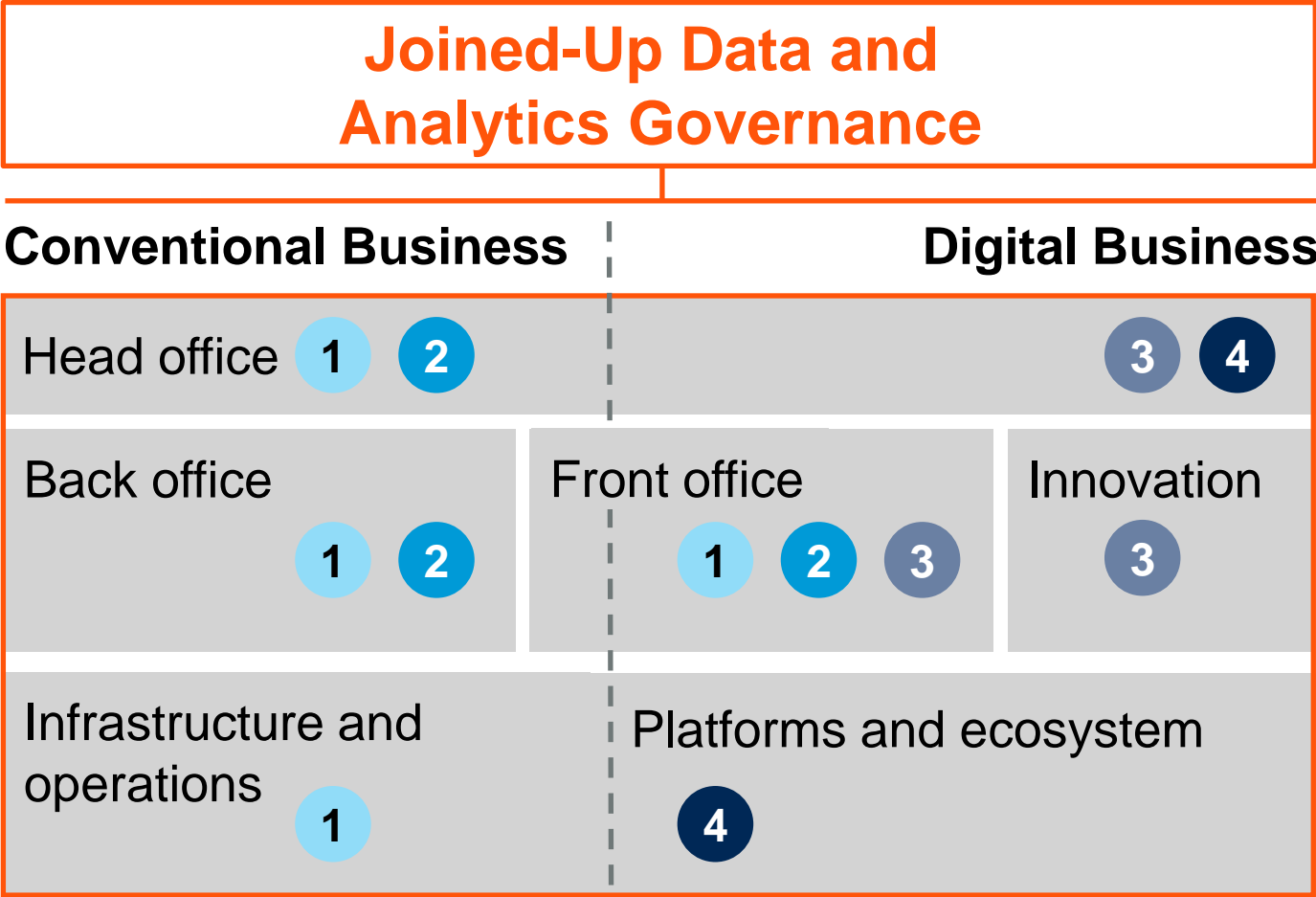
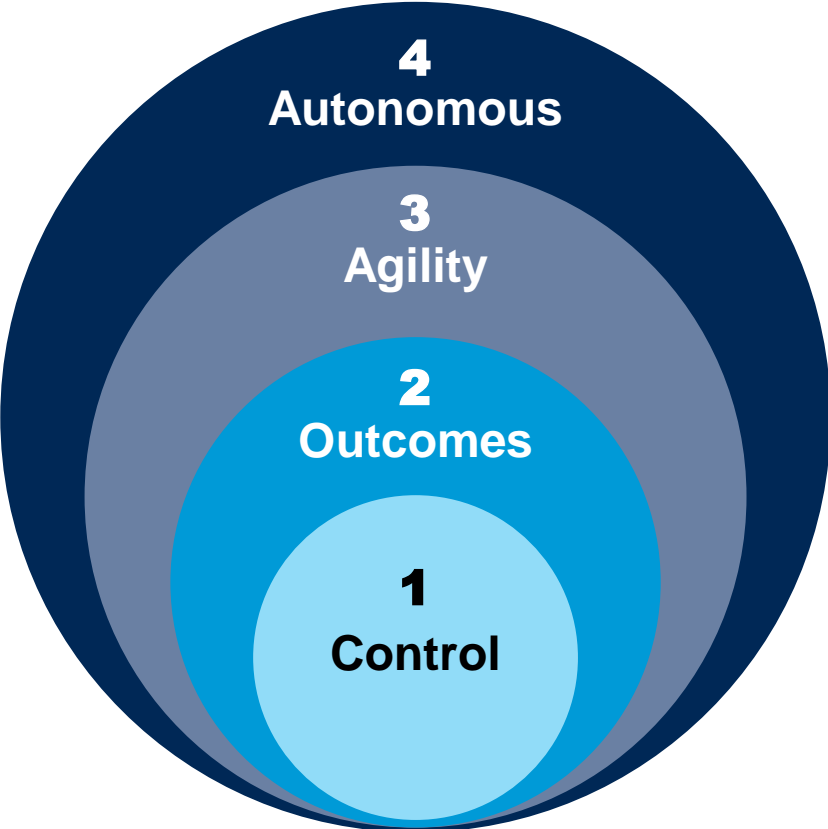
Is our governance initiative perceived as a bureaucratic directive, or is it seen as enabling and collaborative — improving information culture and encouraging innovation?



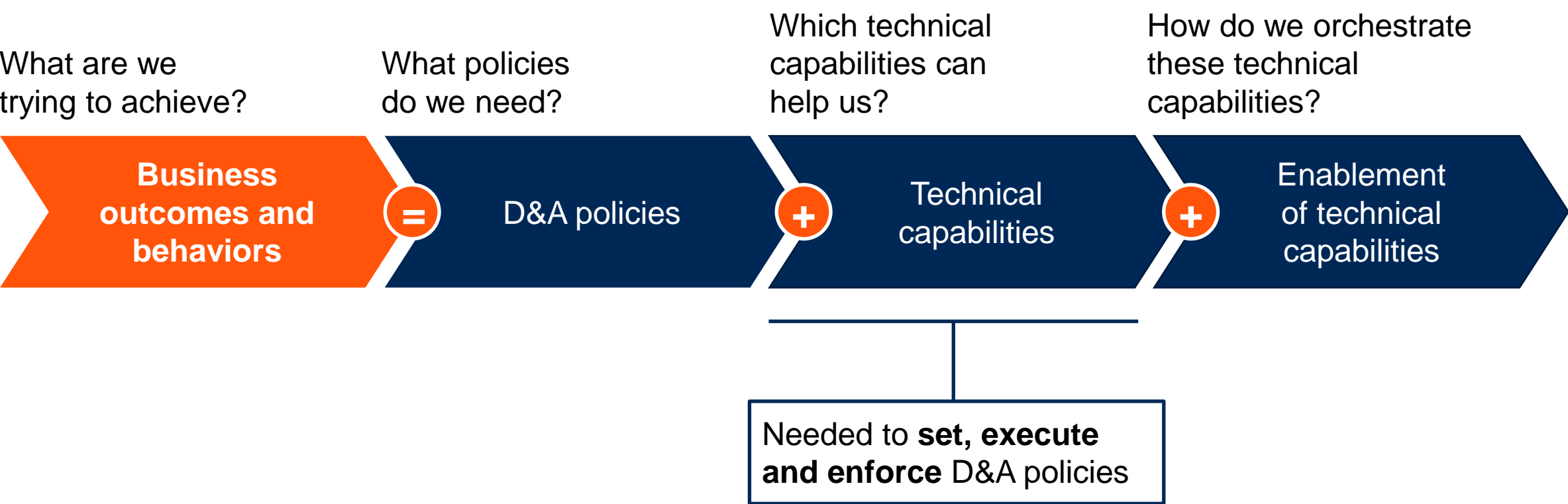
Use Adaptive D&A Governance in Your Target Operating Model



Use Adaptive Data and Analytics Governance in Your Target Operating Model



Leverage Data and Analytics Governance Platform



Federated governance models need technology to automate execution and enforcement of policies.

Key Issue Take-Away:

Governance needs to follow your new operating models and federation — adapt.

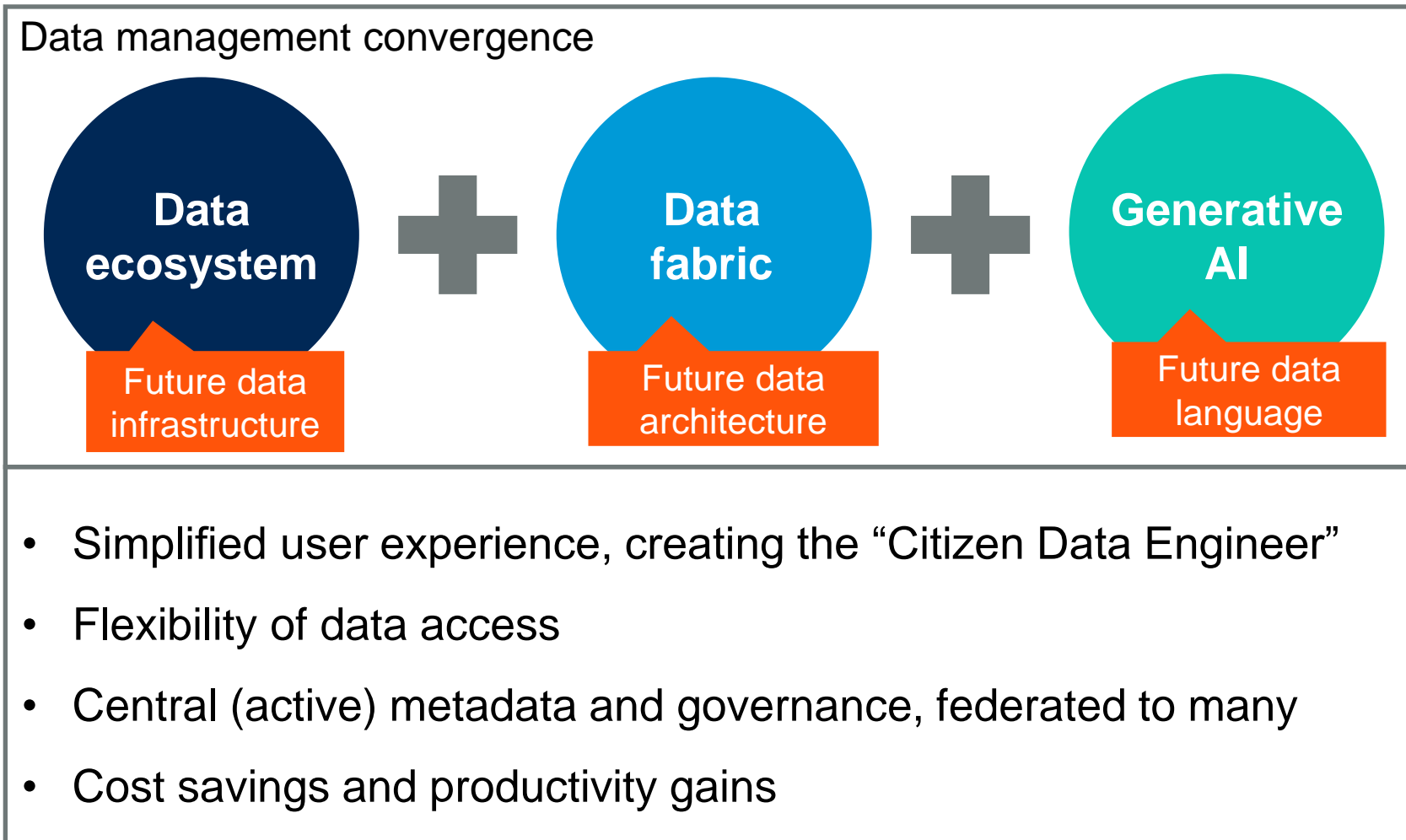
D&A Governance platforms will support your governance practice in an increasingly federated approach.

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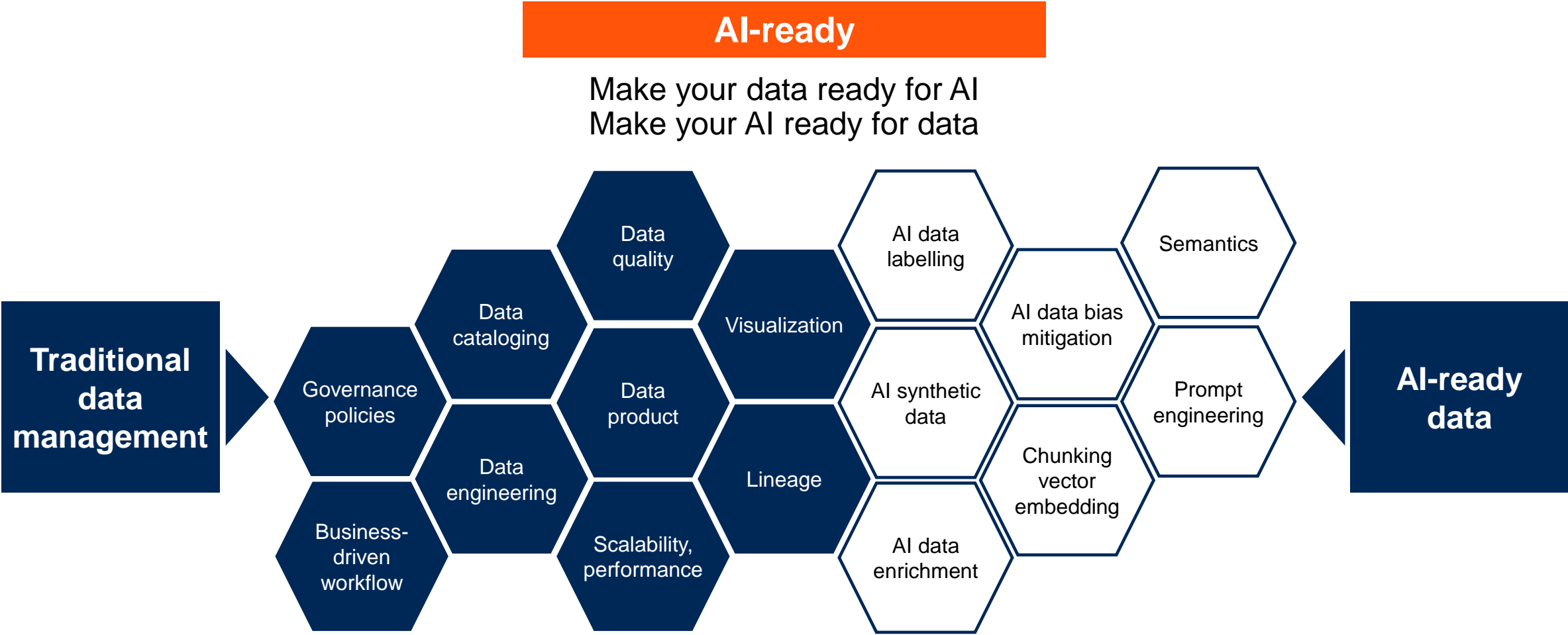
Through 2026,
GenAI will reduce manually
intensive data management
costs by up to 20% each year
while enabling four times as
many new use cases.



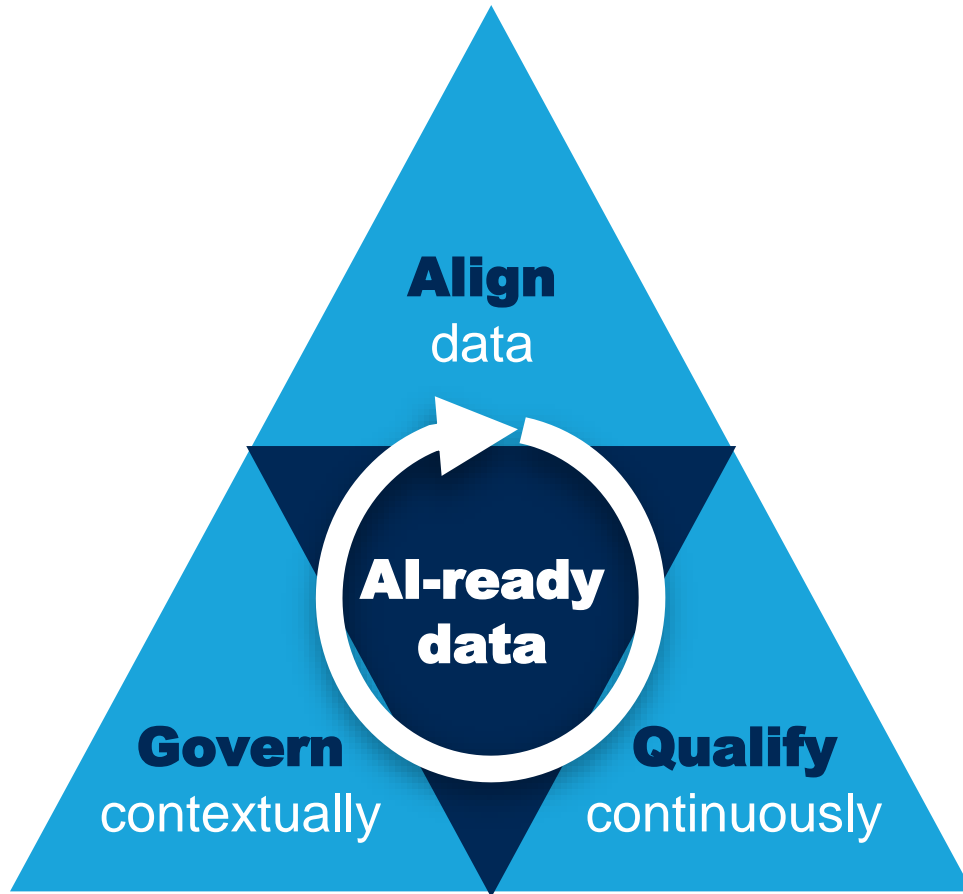
Business Benefits of AI-Enabled Data Management



Data Management Must Expand to Meet AI Needs



AI-Ready Data – Fitness for the Use Case



Alignment	Qualification	Governance
<ul style="list-style-type: none">• Quantification• Semantics• Quality• Trust and fairness• Diversity• Lineage	<ul style="list-style-type: none">• Consistency assessment• Validation and verification• Operational SLAs• Versioning• Continuous regression testing• Observability metrics	<ul style="list-style-type: none">• Data stewardship• Inference and derivation• Regulatory and compliance• AI standards support• Data sharing

Key Issue Take-Away:

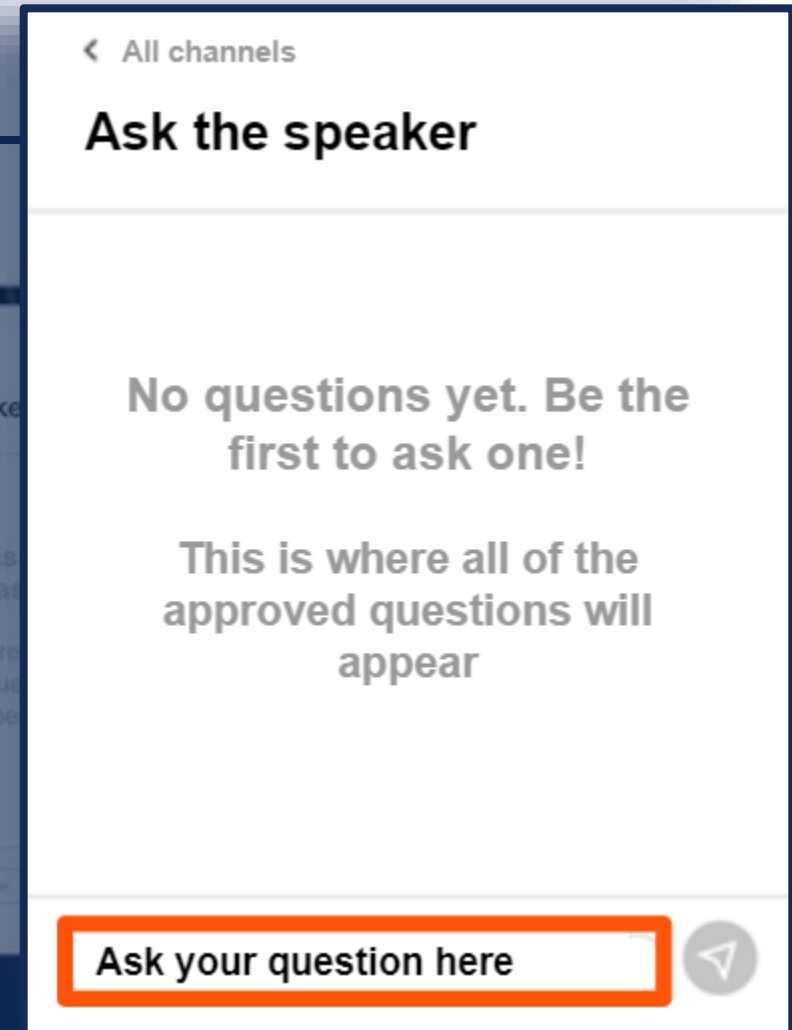
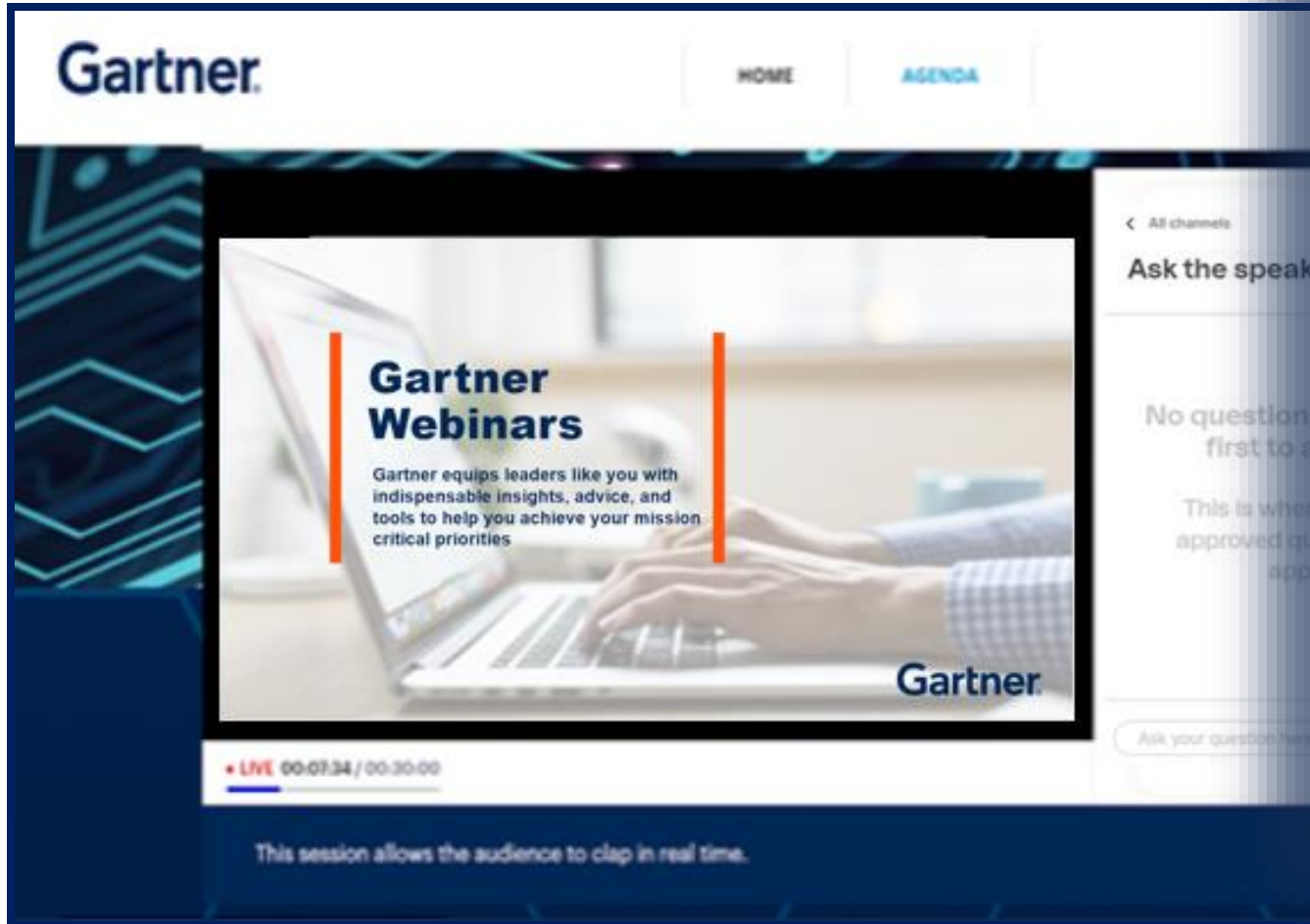
GenAI-enabled capabilities will positively impact your whole data management value chain. Check with your vendors on their roadmap.

You are in the driver's seat for AI-ready data. It doesn't replace "traditional" data management tasks, it adds to it.

Recommendations

- ④ Get your team together and assess your maturity for each issue. Addressing them is not a project — it is a journey.
- ④ Improving your maturity means to address all five key issues. Pacing and priorities depend on your organization's current state.
- ④ Involve your CDAO, CIO and business stakeholders early. An increasingly federated data management practice requires coordination and buy-in.

Ask the speaker



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Delivering a Comprehensive 5-Year Data Strategy at University of Canberra

*"I've heard many CFOs and CDOs say **don't Google it, Gartner it!** It has become my go-to now. I love taking snippets of Gartner and taking it up to senior management, it shows that you've not just done the digging and the research, you've validated it with somebody from industry that know what they're talking about."*



Rajvi Shah | Acting Data & Analytics Director

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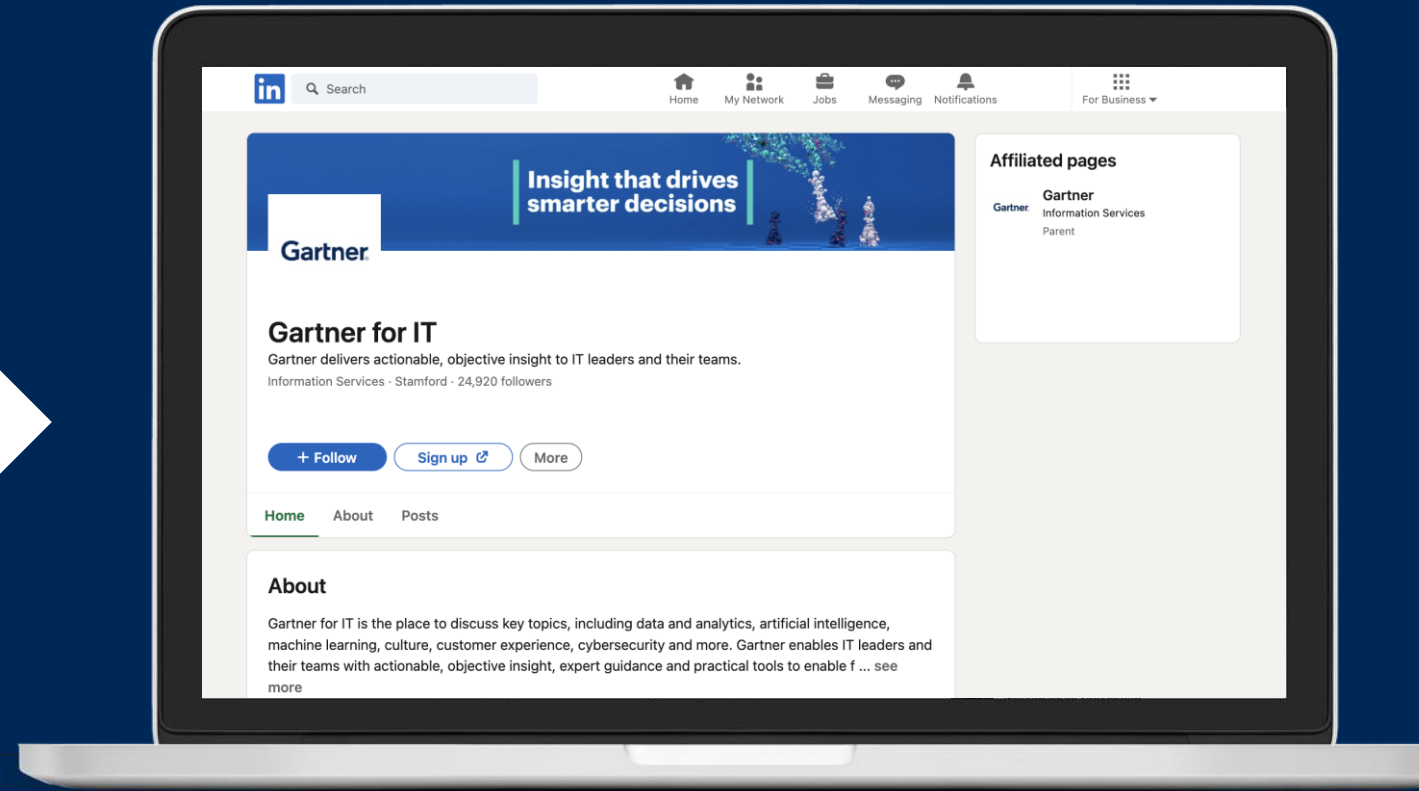
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This session allows the audience to clap in real time.

All channels

Ask the speaker

No questions yet. Be the first to ask one!

This is where all of the approved questions will appear

Ask your question here

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LIVE Tue Nov 15, 11:00 AM - 12:00 PM EST (1 Hour)

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Explore what cloud computing will look like in 2027

Discover how multi-cloud and cloud native can affect organizations' cloud efforts

Ensure a successful cloud journey for your organization

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