Qualytics

Modernizing Insurance Data Operations: data quality best practices and the art of the possible

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Presenters

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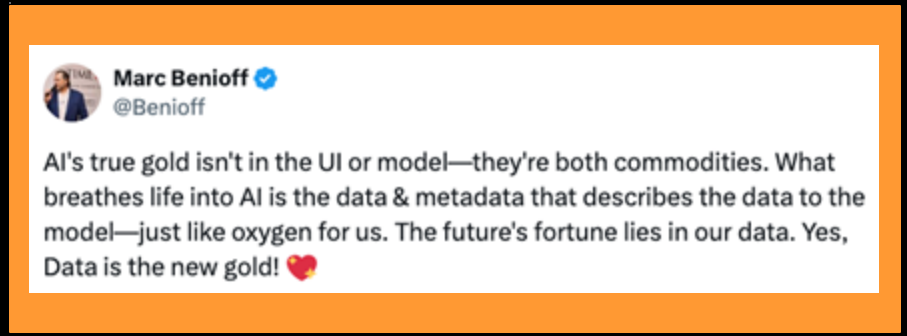

Derivative uses of data (AI / BI) **are exploding.**

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Data Quality is everyone's responsibility.

AI/BI success hinges on **Data Quality.**

73%
of executives are unhappy with their data quality

48%
of executives admit to having made bad decisions based on bad data in the last 6 mos*

**that they know of*

83%
of enterprises now have CDOs**

***compared to 12% in 2012*

CDOs
are prioritizing support for derivative uses now: Security, Discovery, & Quality

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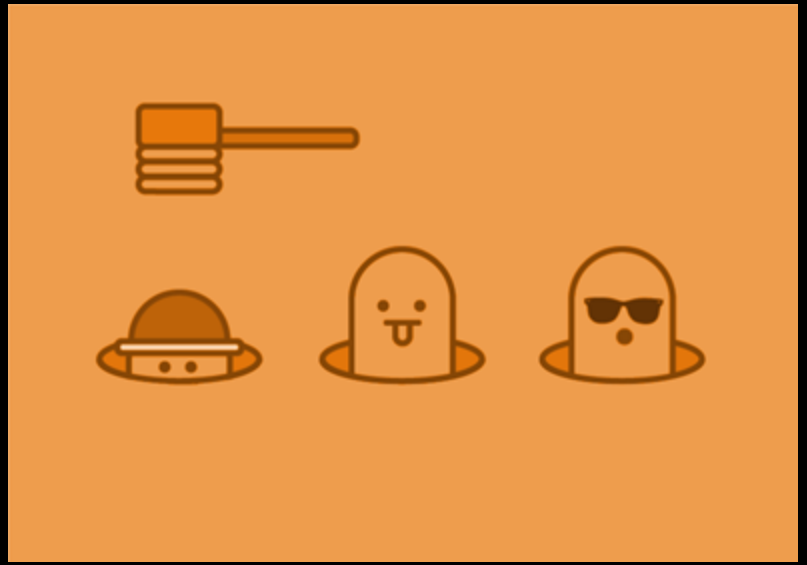
Enterprise DQ initiatives take a minimum of 2 years and 7 figure investment to implement.

Traditional approaches rarely get to **business maturity** because they are non-systematic, reactive, manual and error-prone.



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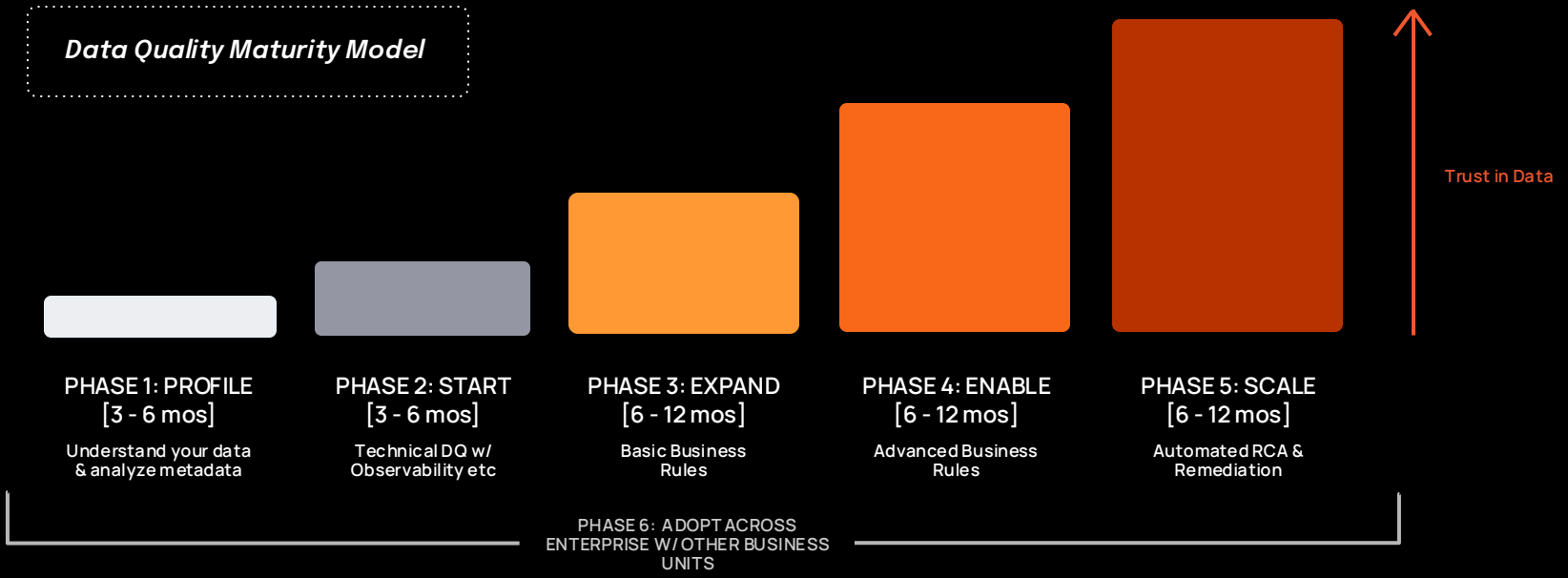
Why?



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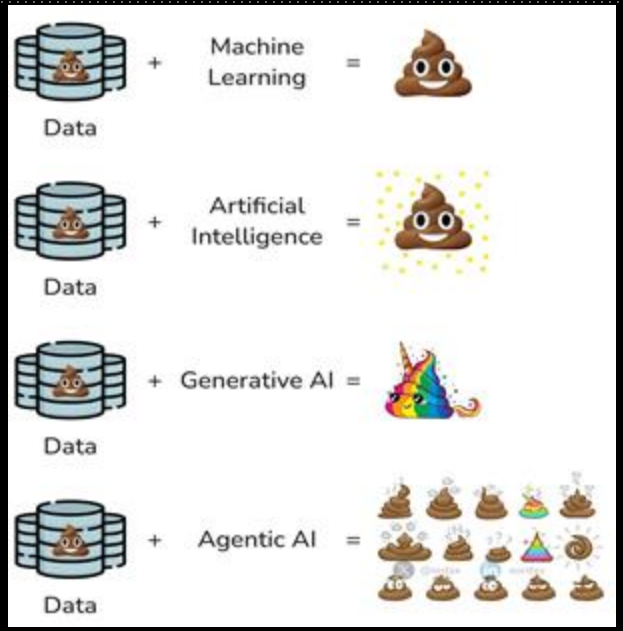
AI is adding serious fuel to the fire.



Source: Eduardo Ordax, AWS

In the pre-AI Era, bad data cost the average enterprise **$15M/YR.**

In the age of AI, that figure is **at least HUNDRED-FOLD.**

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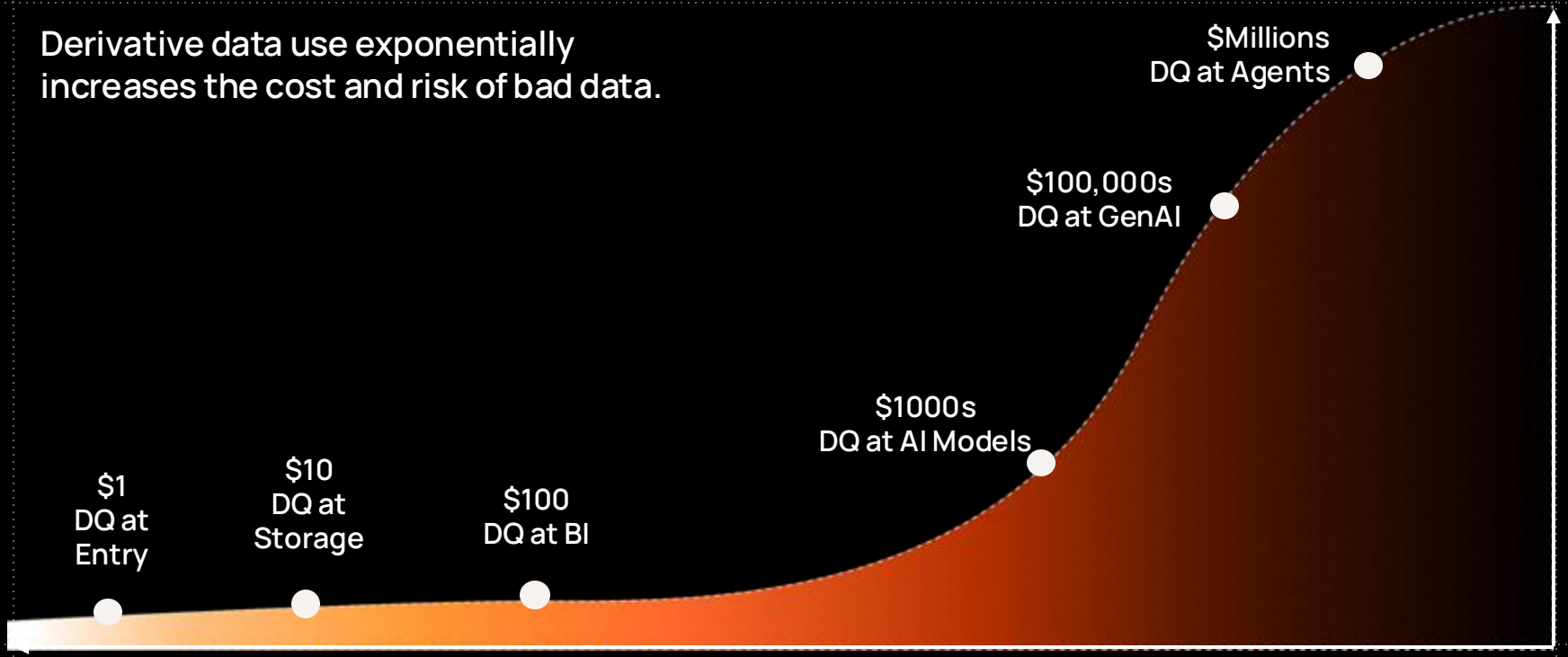
AI success hinges on data quality.

Derivative data use exponentially increases the cost and risk of bad data.



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Qualytics reduces enterprise adoption of DQ to 6 months or less and a fraction of the cost.

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Qualytics delivers enterprise data quality at scale.

- **Proactive**
  95% of rule management automated through ML & AI
- **Deeper Anomaly Detection**
  ML models run on raw data and check across tables and datastores
- **Simple No-Code UI**
  Allows easy collaboration between technical & business teams
- **Faster Remediation**
  Delivers the exact rows where anomalies were found and powers remediation workflows

Trusted by Global Enterprises

Brookfield · Revantage (A BLACKSTONE COMPANY) · norstella · WELLS FARGO
aes · PERMIRA · OCTUS · Wellstar HEALTH SYSTEM
Georgia-Pacific · mapfre Insurance · cherre · +

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Our 4-step process to Data Confidence

Step 1
Profile & Understand Your Data

Step 2
Create & Maintain Rules

Step 3
Monitor & Validate Quality

Step 4
Notify & Remediate Issues

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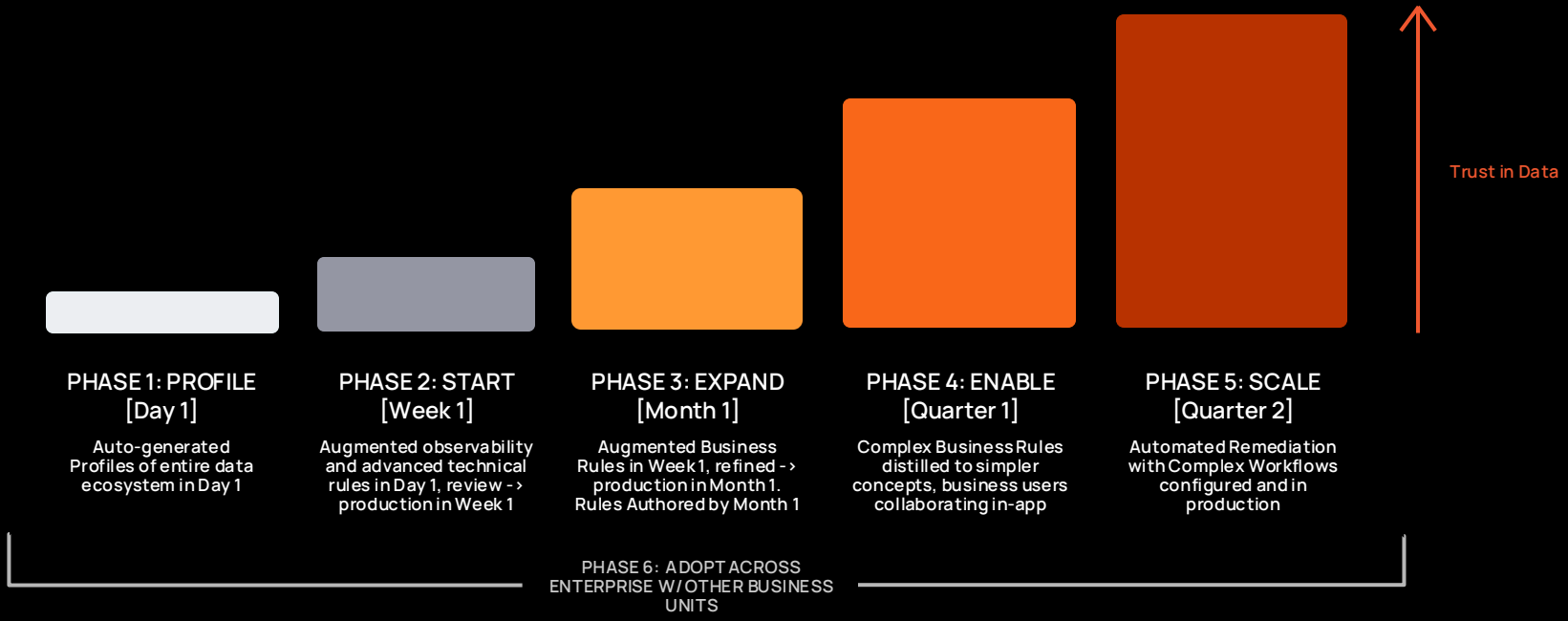

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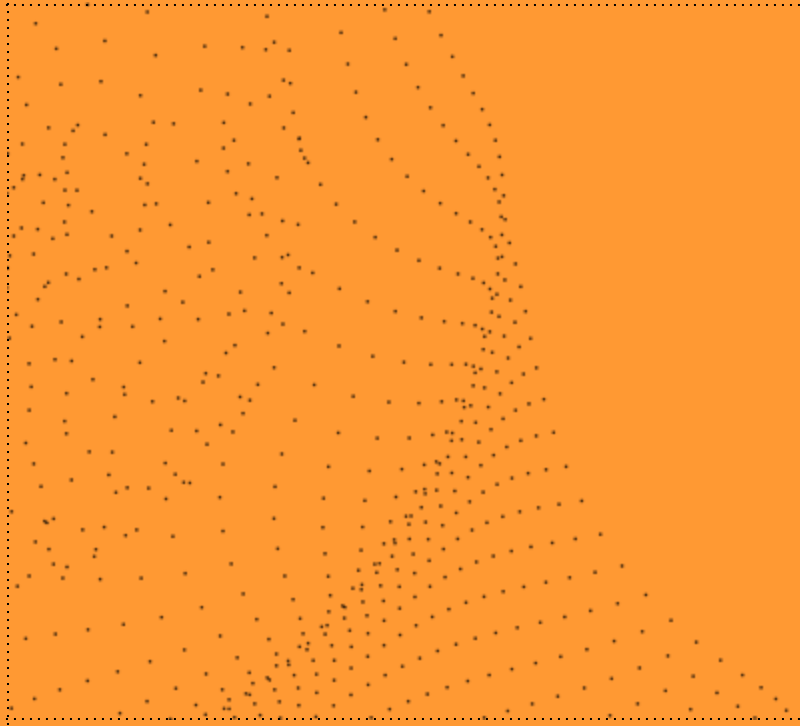
MAPFRE USA: Case Study



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The challenge

- MAPFRE USA needed to scale data quality across quote data that sat in legacy + cloud systems, with millions of records — without heavy engineering dependence
- Existing tools (e.g., Great Expectations) required Python expertise, limiting business participation and slowing outcomes
- Strict security and PII requirements disqualified many vendors
- Small governance team needed to make a high business impact, and proactively catch issues before they emerged downstream downstream damage

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The solution: Qualytics

Secure, AI-assisted, business-friendly platform that unifies governance, quality checks, anomaly detection, and remediation workflows

- **Faster issue detection and remediation:** Identify anomalous records early in the quoting process to catch issues before they move downstream and impact underwriting accuracy
- **Business users can co-own data quality:** No-code rule authoring so business users can create & adjust rules to reduce bottlenecks and strengthen alignment between business and data teams
- **Secure and modern framework:** Deploy privately to meet MAPFRE's compliance & PII controls and have the ability to scale across more use cases and business units
- **Immediate time-to-value:** Shift from manual monitoring to broad coverage and immediate anomaly detection in 1 week vs 9-12 months

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How MAPFRE uses Qualytics

Tracking Key Data Metrics
Volume, distribution, and schema changes are tracked to maintain data integrity in dynamic environments.

ML-Driven Anomaly Detection
The platform uses AI to automatically detect anomalies in data across batch and streaming pipelines.

Proactive Failure Identification
Silent data failures are detected early to prevent inaccurate data from affecting business reports and decisions.

Continuous Data Assessment
Data is continuously monitored to ensure freshness, completeness, and consistency throughout processing.

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Quality checks span the data lifecycle

	Qualytics	Hermes + Great Expectations		Qualytics
Accuracy	✅	X	X	✅
Completeness	✅	✅	✅	✅
Validity	✅	X	✅	✅
Uniqueness	✅	✅	✅	X
Timeliness	✅	✅	✅	X
Consistency	✅	X	X	✅
Volumetrics	X	X	X	✅

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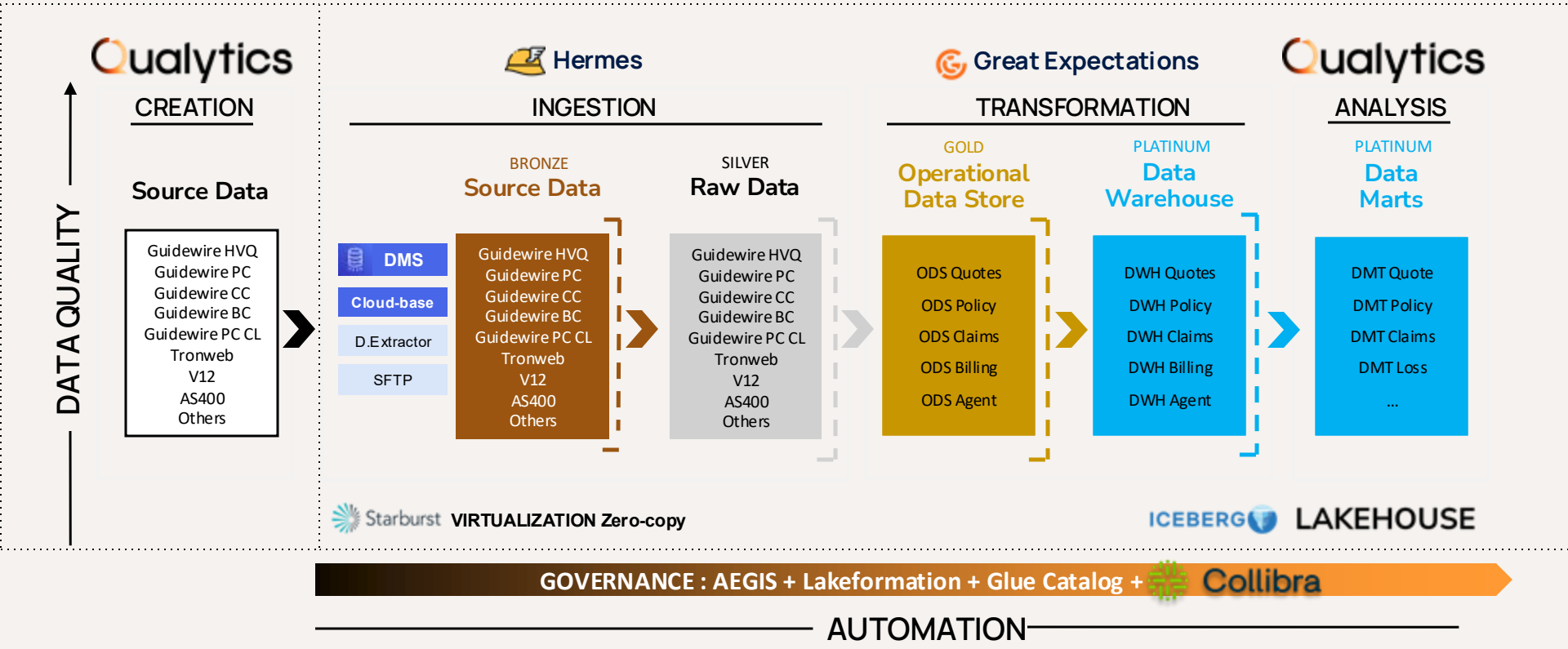
Quality and Automation



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Results with Qualytics:
Fast Remediation, Lower Cost, Measurable Value

Reduce Manual Work

18,355 rules

Automatically generated inferred rules across quote data vs hours of manual rule writing

Improve Eng Efficiency

3,000 hrs

Eliminated hours of engineering work by transforming complex JSON data into 48 structured tables

Lower Operational Cost

45,838 hrs

Saved via AI-powered rule inference

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$3.67M

in Projected
Data Quality Savings

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Qualytics

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