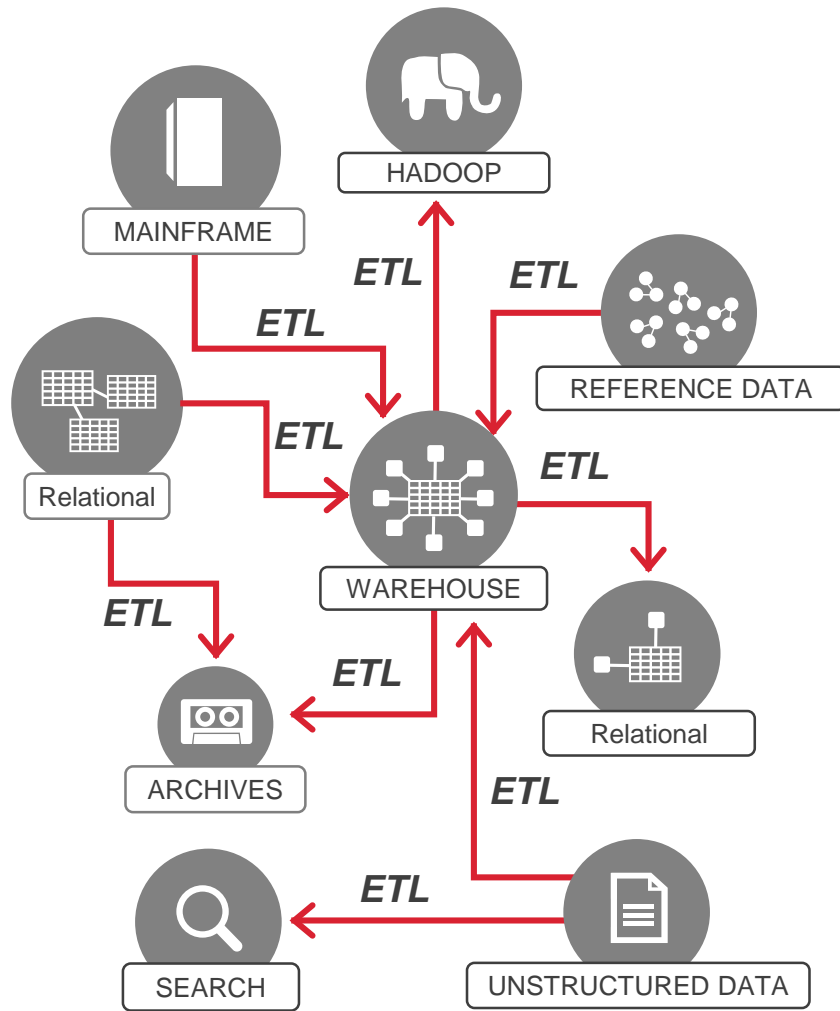


MiFID II: It's About the Data, Not the Reporting

Daniel Roberts, Principal Sales Engineer, MarkLogic

20,000



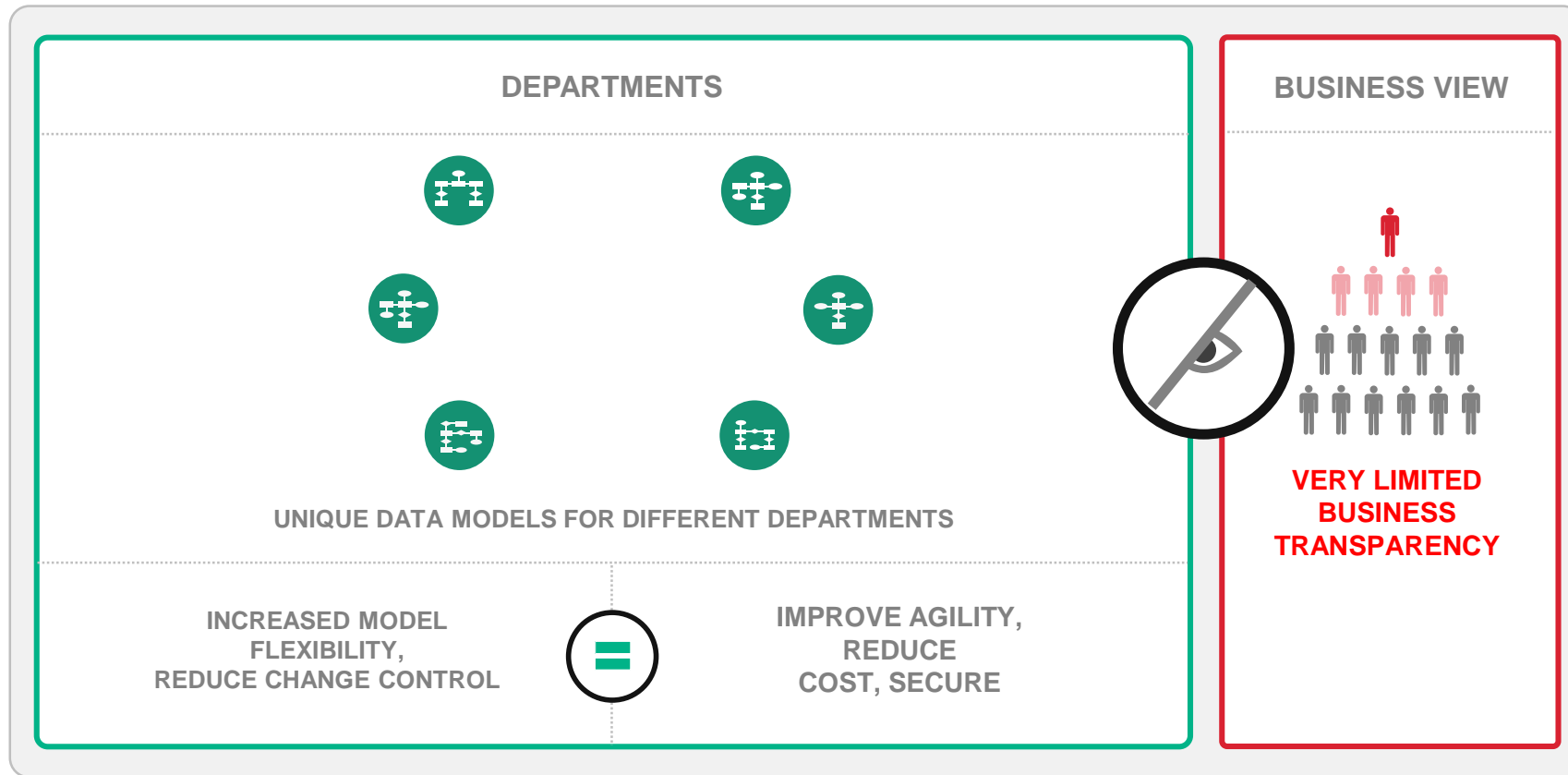
UNFORTUNATE REALITY

Proliferation of Solutions

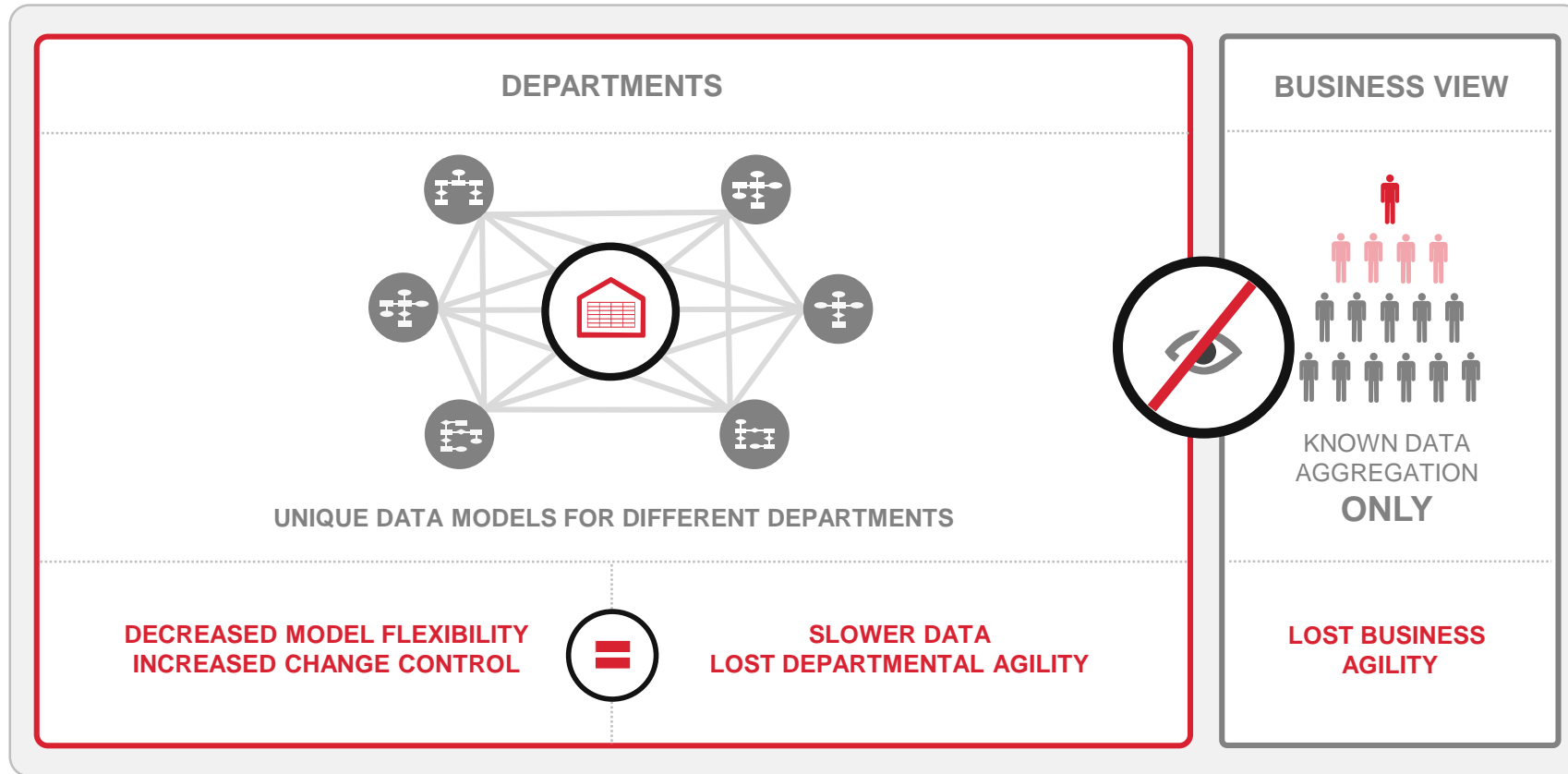
- “YADS” – Yet Another Data silo
 - Build vs Buy
- Years in the making
- Each solution is another silo
- *Data is massively fragmented*
- Each new solution makes the problem worse

How did we get here?

Single Model Silos: **Reduce** Business Transparency



Traditional Solutions Are Limited & Costly



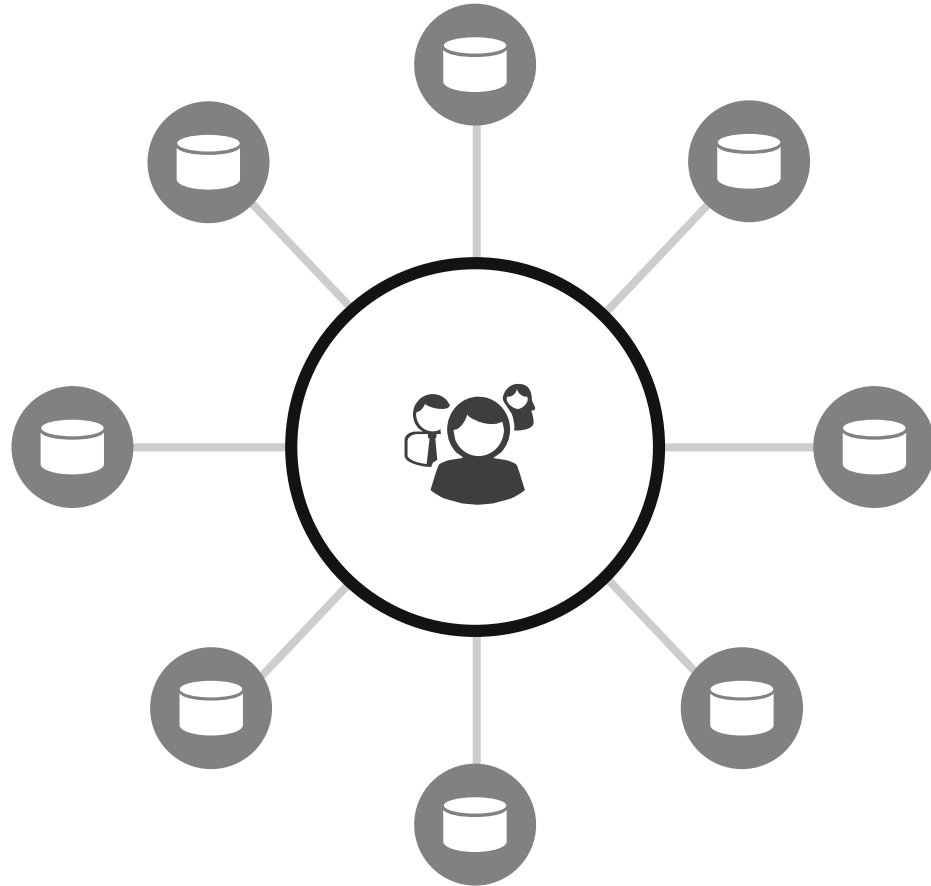
GRC

Tool and Infrastructure Proliferation

How will your environment fare in the evolving regulatory landscape?



What do we need?



REGULATORY REPORTING

Requires a Consolidated View of the **Data**

And, the business also requires this

REQUIREMENT

Business Insight and Regulatory Insight

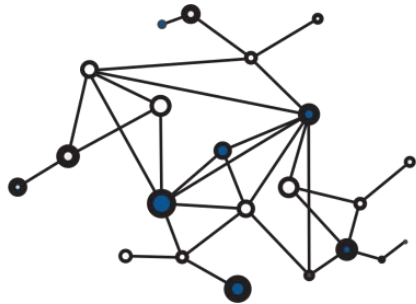
- Cross functional aggregation
- Converged data models – *this is hard in relational*
- Hard dates for delivery – *very visible failure*



POOR CROSS FUNCTIONAL
OVERSIGHT

COMPLETE, ACCURATE, TIMELY
CROSS FUNCTIONAL VIEW

```
counterpartyid  
counter_party  
cp_id
```



```
counterpartyid :sameAs counter_party  
counter_party  :sameAs cp_id  
cp_id          :sameAs counterpartyid
```

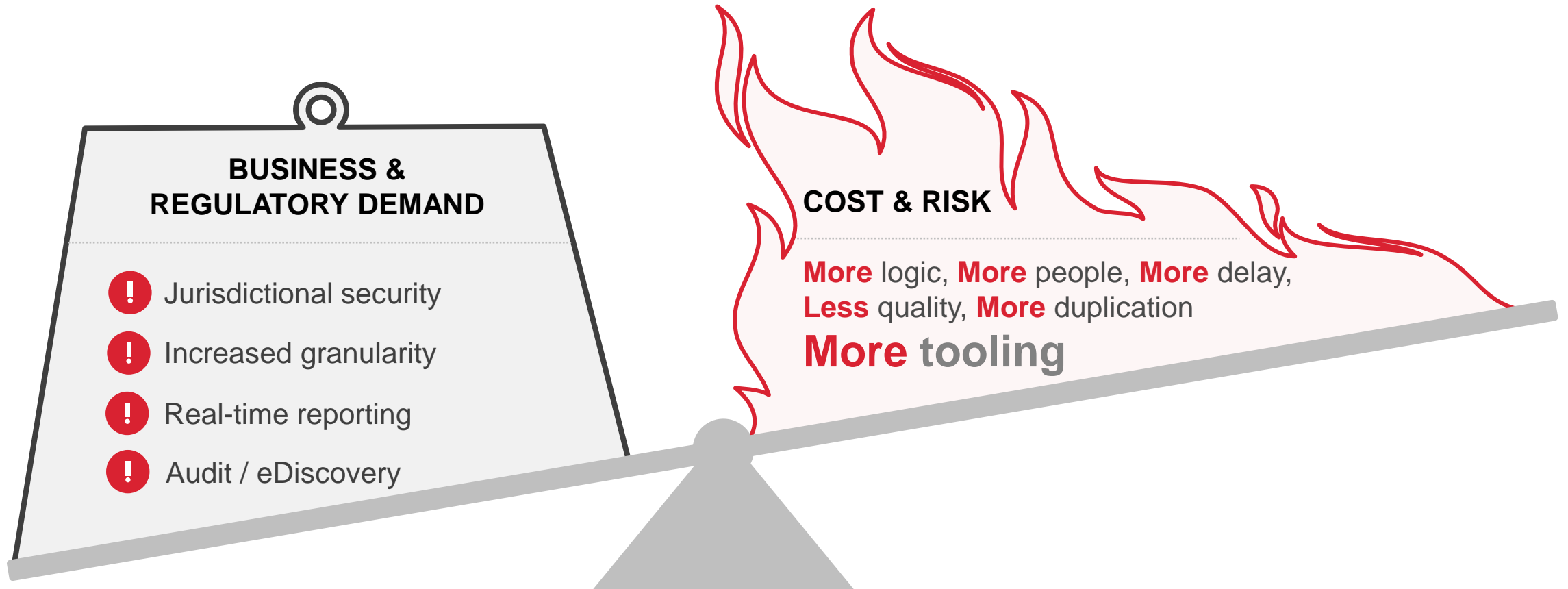
DISCOVERY FOR SUPERVISION & ENFORCEMENT

Governance and Regulation

- Effective data governance workflow process
- Organisational wide ontology
- Accessible organisation-wide catalog
- Semantic representation leads to semantic integration therefore simplified data representation and consolidation
- Simplified regulatory reporting

GRC

The Evolving Data Landscape

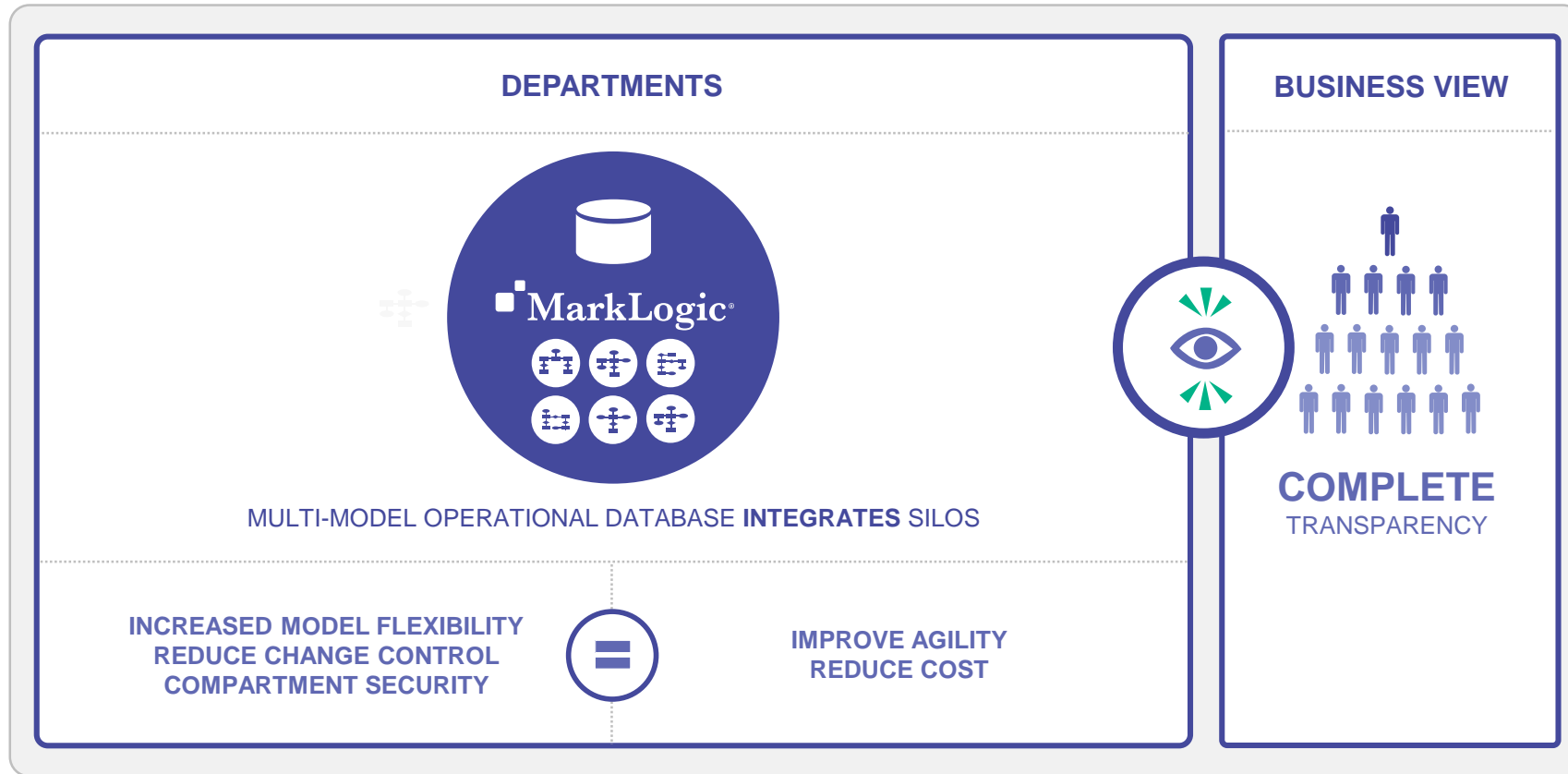


How Can I Solve this Problem?

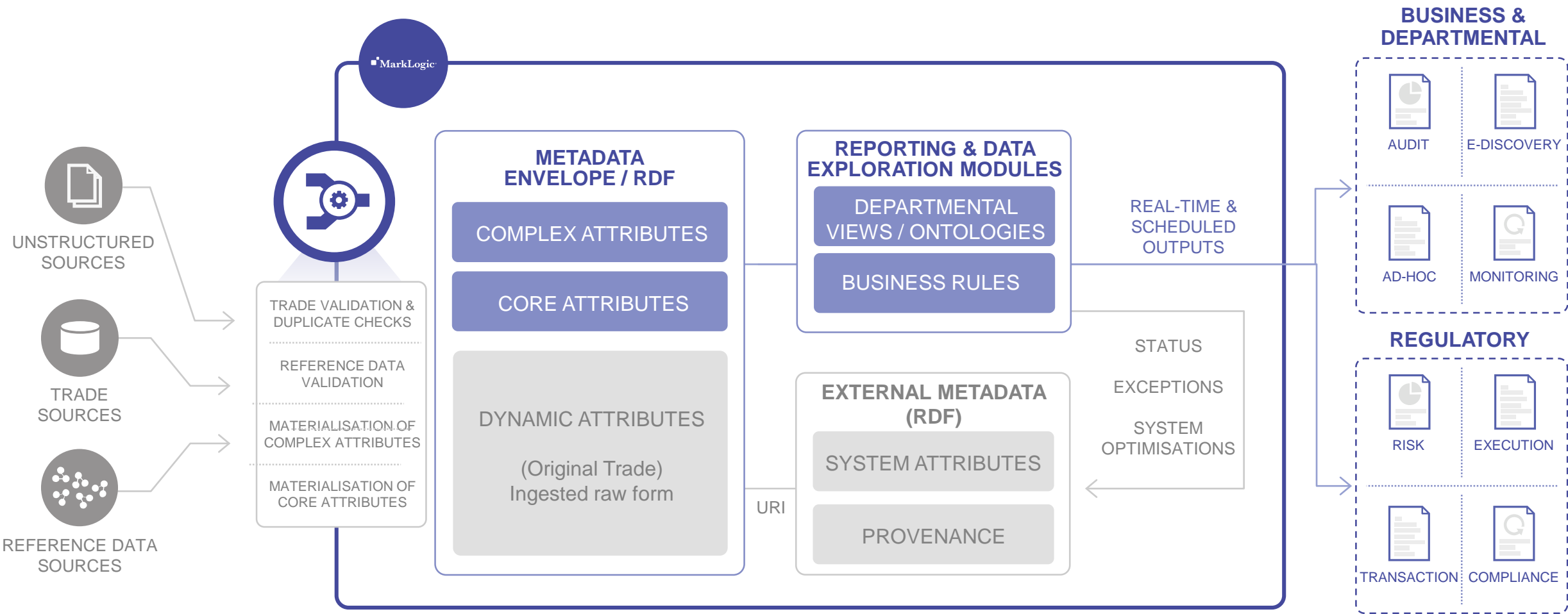
And make a strategic leap?

GRC

Multi-Model Database: **Complete Transparency**

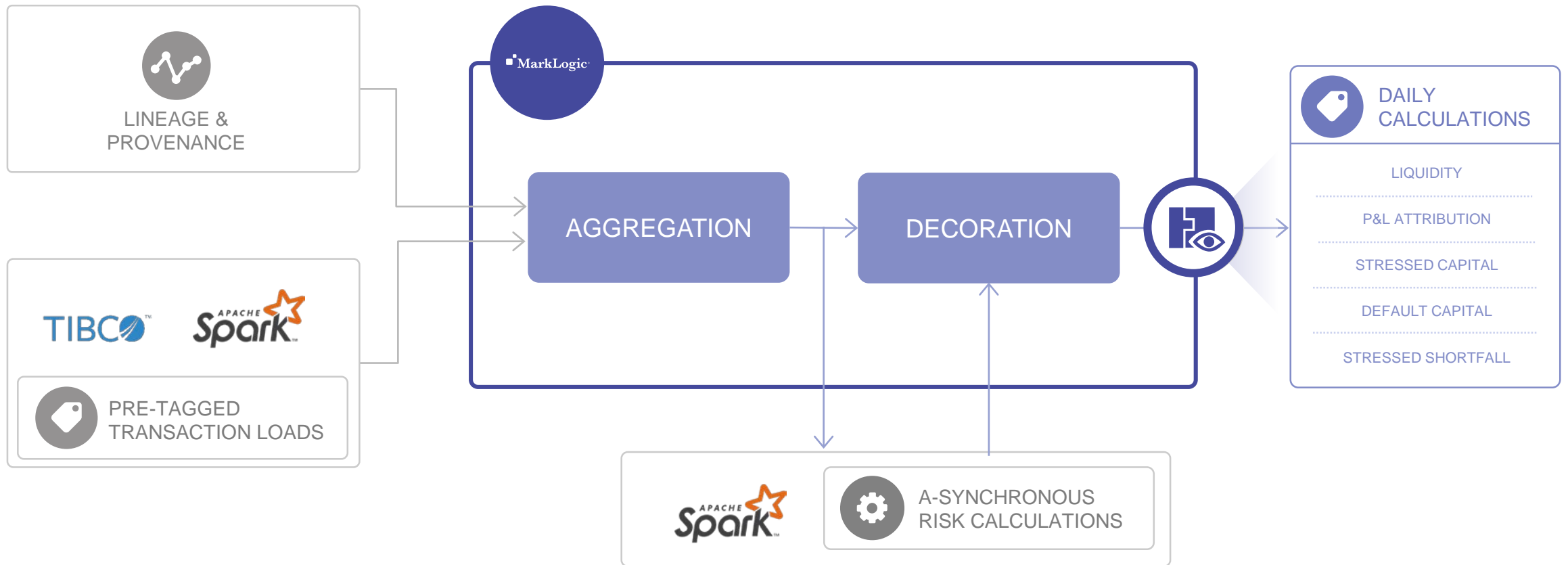


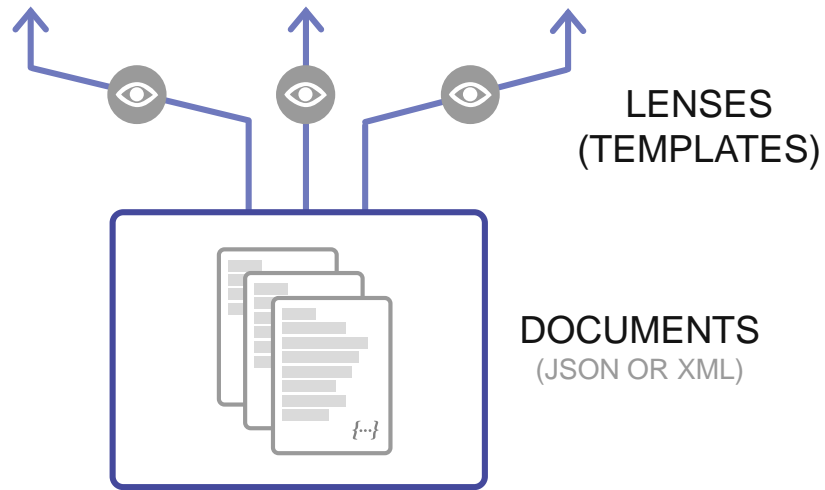
Single Regulatory Reporting Capability



AGGREGATE DATA

Data Flow Logic



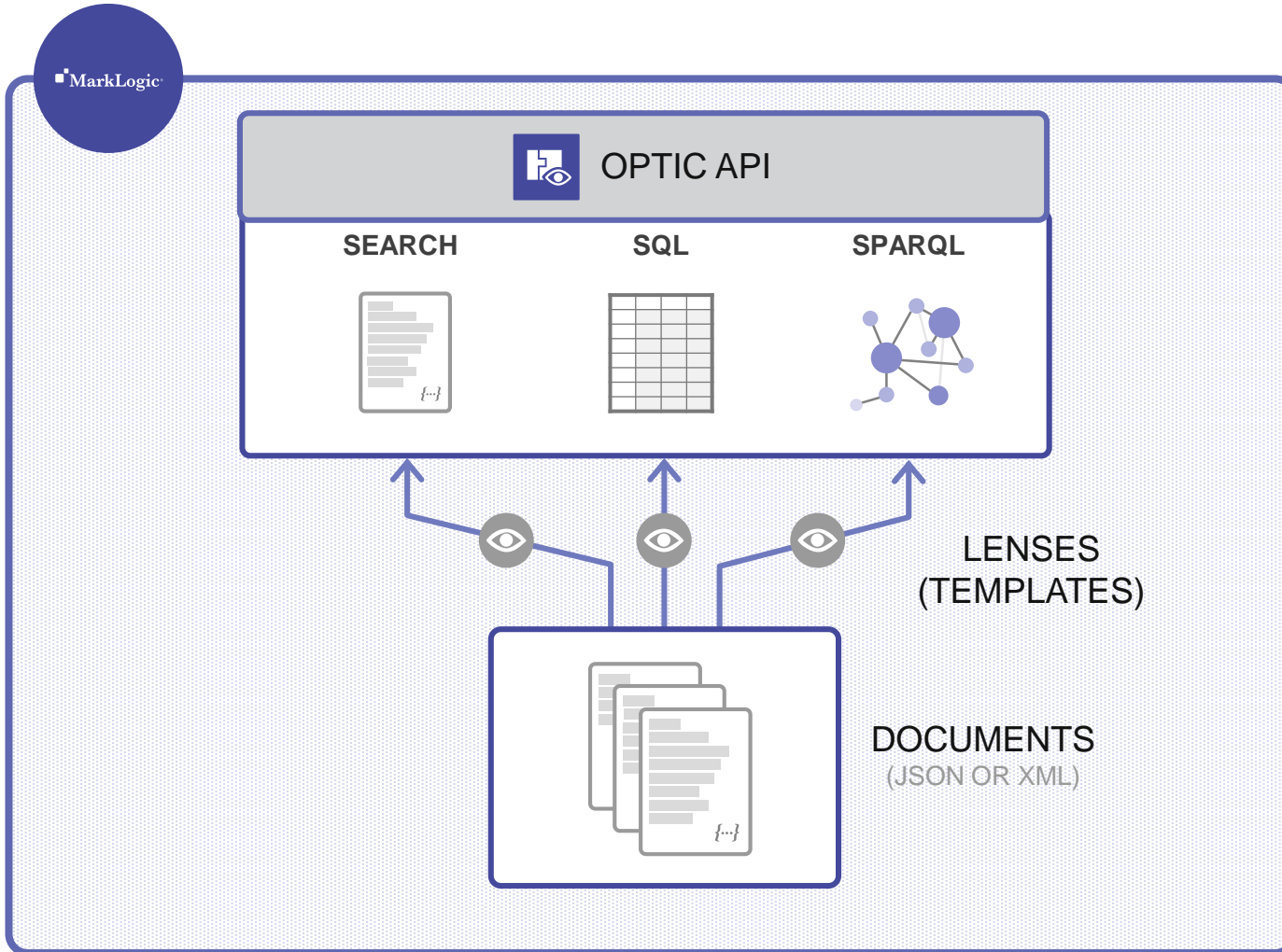


PRESENTATION

Multiple Functional Lenses

- Semantic metadata mapping
- Lenses rapidly evolve over time
- They are functionality independent
- Commonality

MarkLogic 9 – Single Data Set – Multiple Views



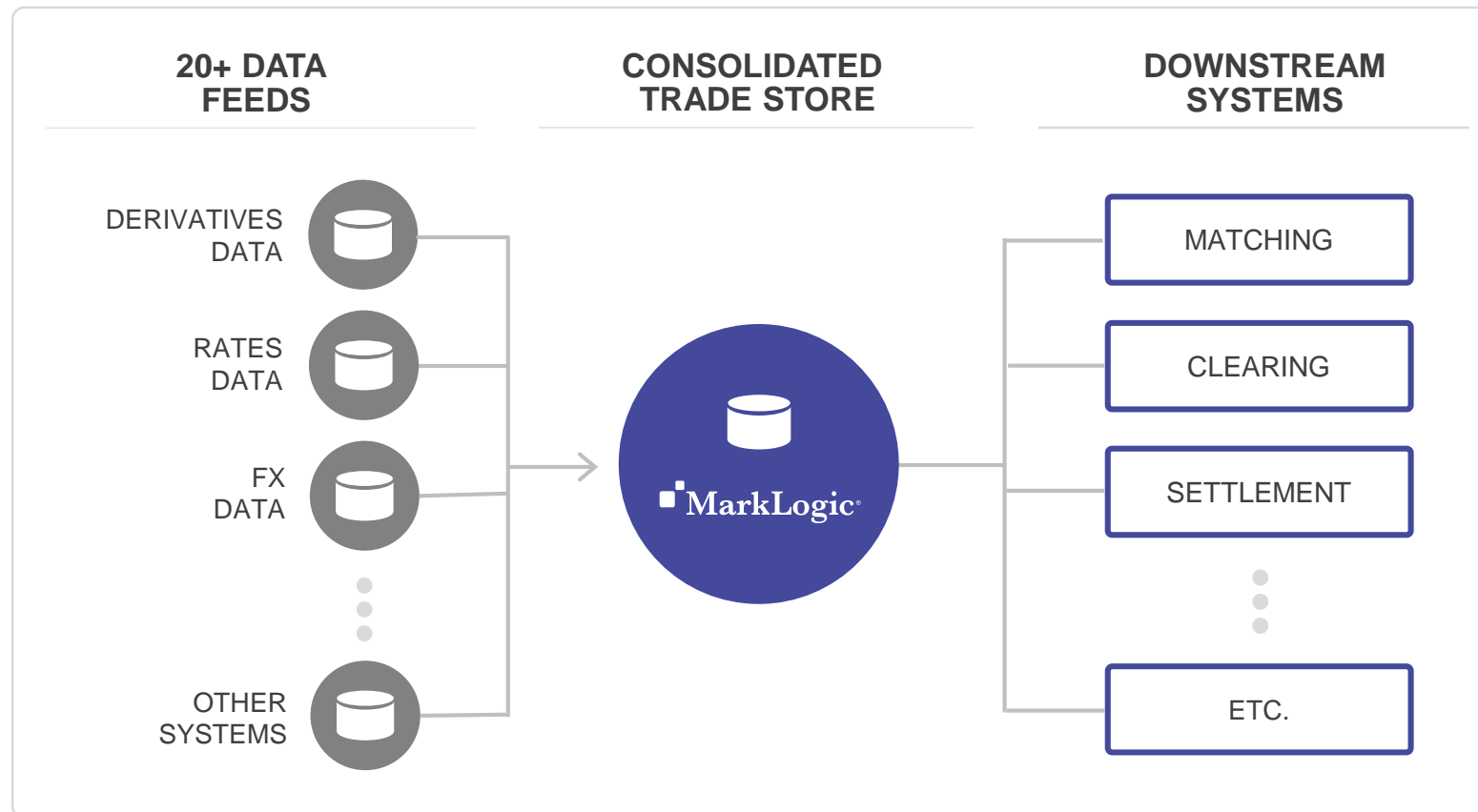
BENEFITS

- Single congruent view of data
- Multiple view of the same data
- Data fragmentation eliminated

Case Studies

Top 5 Bank – Derivatives Core Processing Platform (DCPP)

Integrated Trade Data Hub



WHY MARKLOGIC?

- Sybase data model too rigid
- Eliminate long, costly ETL cycles
- Flexibility for future changes
- Cost and timeline constraints
- Enterprise requirements

Top 5 Benefits of Integrated Trade



The Results

- **Flexible** – Manages complex data ingestion, complex output
- **High Performance** – 1,600+ requests per second
- **Improved Risk Management** – Consolidated view
- **Enterprise-Grade** – ACID Transactions, Security, HA/DR
- **Cost-efficient** – 1 database, not 20. 1 DBA, not 10.

“We needed to get away from relational... MarkLogic offered us horizontal scalability, the ability to just add more and not have to do a big infrastructure replacement.”

- CTO AT THE BANK

20+ DATA FEEDS

DERIVATIVES DATA

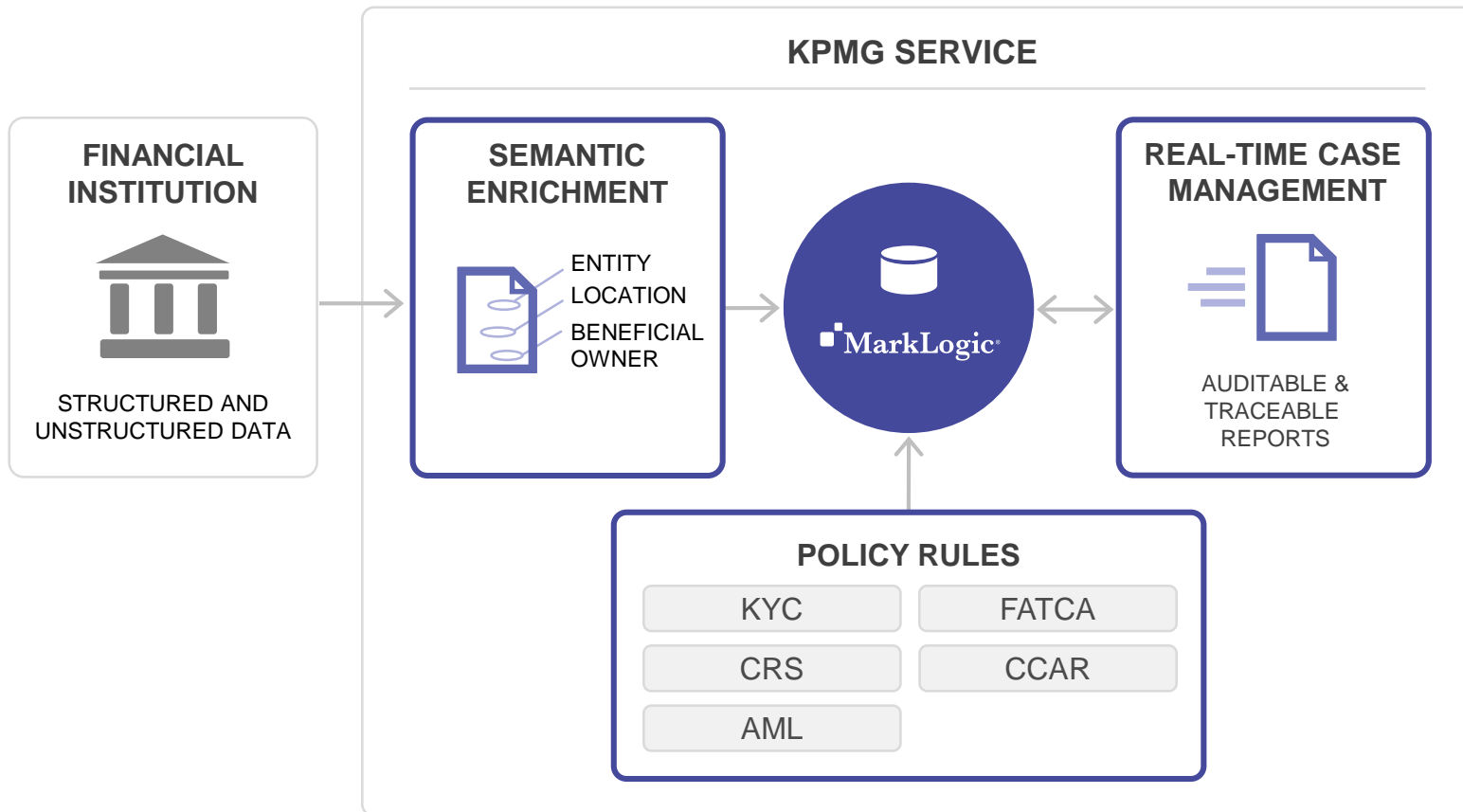
RATES DATA

FX DATA

OTHER SYSTEMS

KPMG – Regulatory, Tax, and Reporting Compliance

Integrated and Enriched Client Financial, Risk, and Reference Data



WHY MARKLOGIC?

- Ingestion of petabytes of structured and unstructured data
- Intelligent extraction of reference data from unstructured data
- Semantics-based analysis
- Auditable, traceable data



The Results

- **Smart** – Intelligent automation of complex manual processes
- **Flexible** – Extendable to support additional regulations
- **Cost-efficient** – Lower cost and lower risk
- **Regulatory-ready** – Comprehensive data governance
- **Success** – Improved compliance and customer experience

“We have MarkLogic at the center of everything we do... We can get order of magnitude reductions in the manual processes.”

- MICHAEL HENRY, ADVISORY PRINCIPAL, KPMG

FINANCIAL
INSTITUTION



STRUCTURED AND
UNSTRUCTURED DATA

Compliance

MARKLOGIC?

terabytes of
unstructured data

Integration of reference
structured data

Advanced analysis

Available data



Key Takeaways

- Integrated, well-governed data:
 - Provides the basis for business requirements
 - Simplifies reporting and business insights
 - Avoids regulatory reporting challenges with MiFID II

Q&A