

ENABLING INFORMATION GOVERNANCE IN HEALTHCARE

Best Practices & Practical Solutions

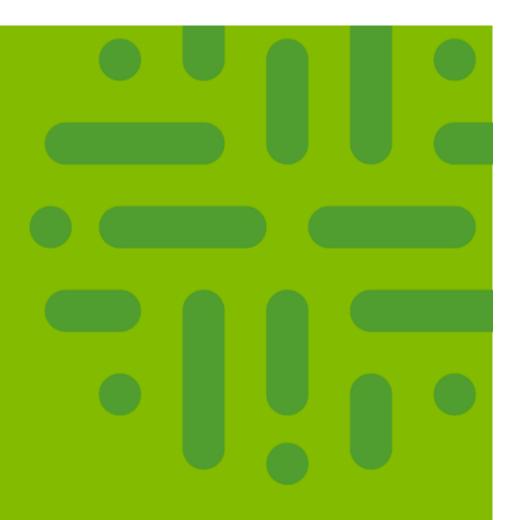
Chris Cooper

Director Healthcare

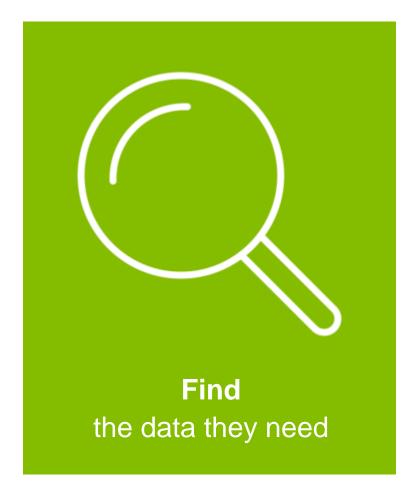
25 September 2017

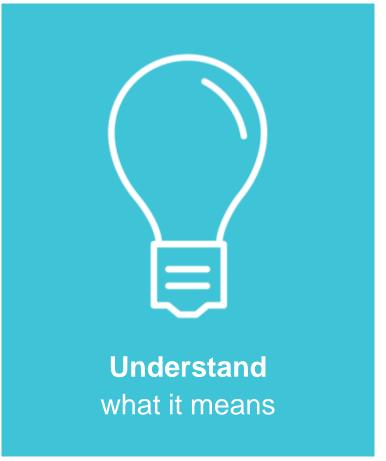
Justin Washburn

Healthcare Solution Architect



Data-driven organizations empower everyone to:









Modern data-driven organizations use Collibra





















BIOMARIN





























































































Healthcare Customers

Industry leaders rely on Collibra for their data governance



BOMARIN































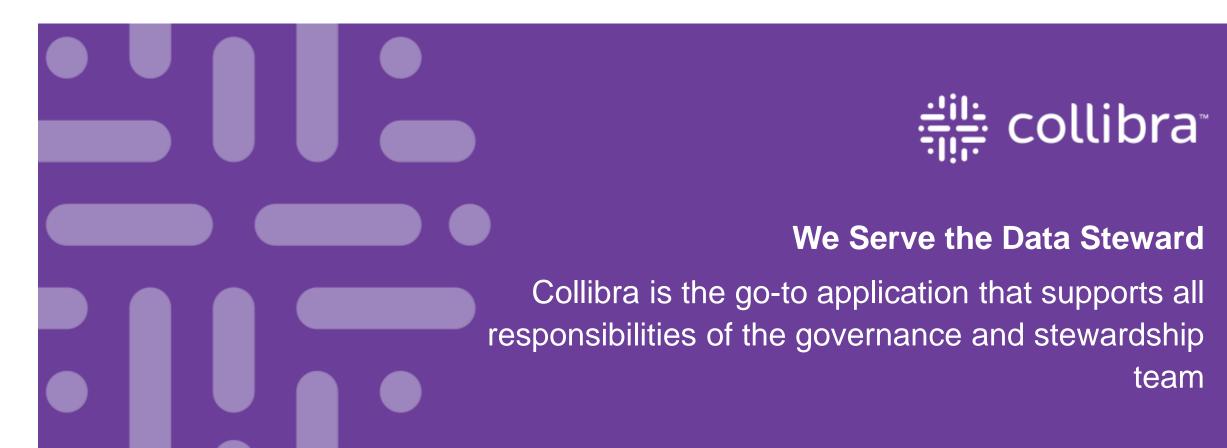








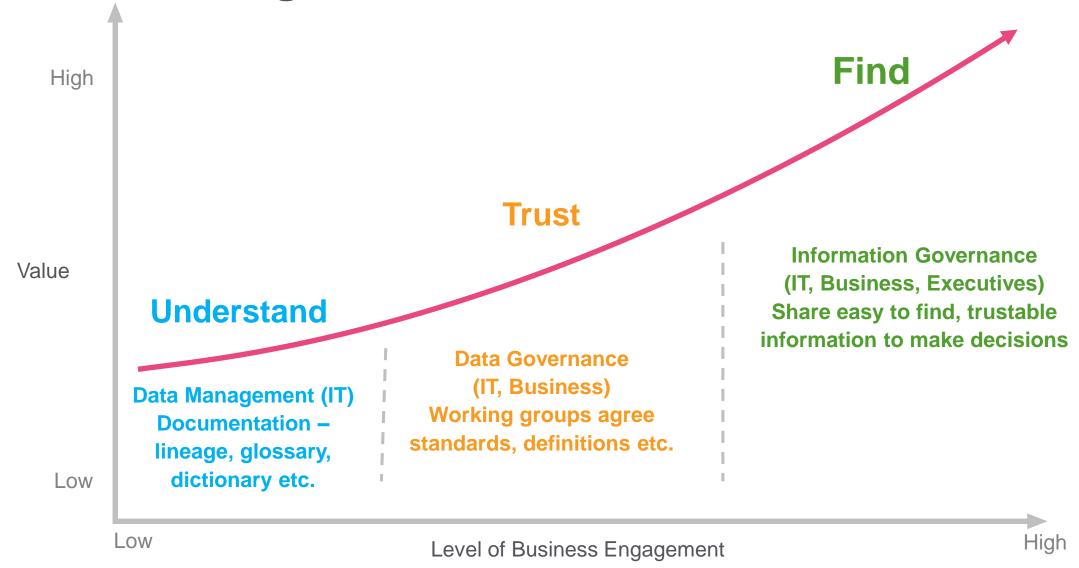




We Support the Knowledge Worker

Every single employee in an organization should want to use Collibra

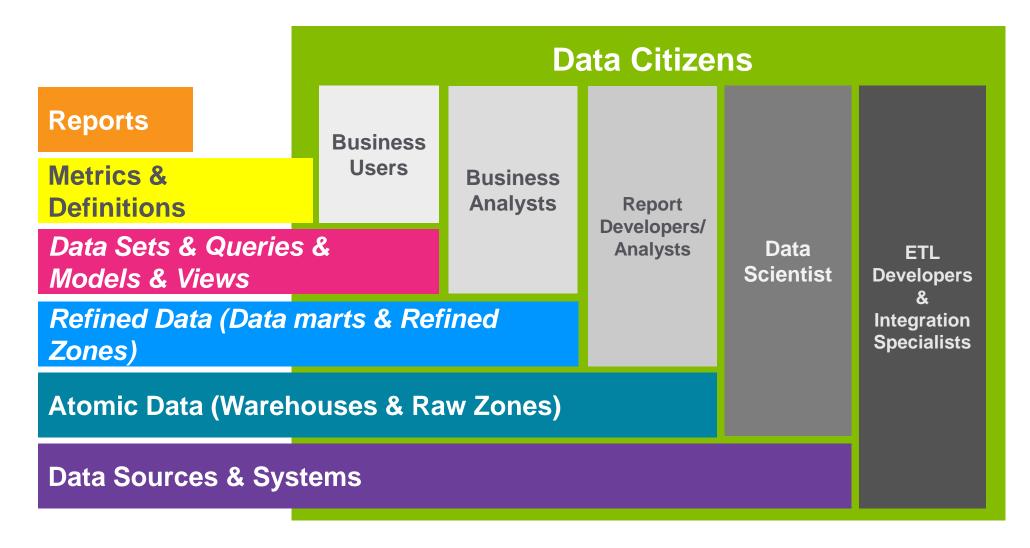
Information governance maximizes the value of data





What data exists across the organization?

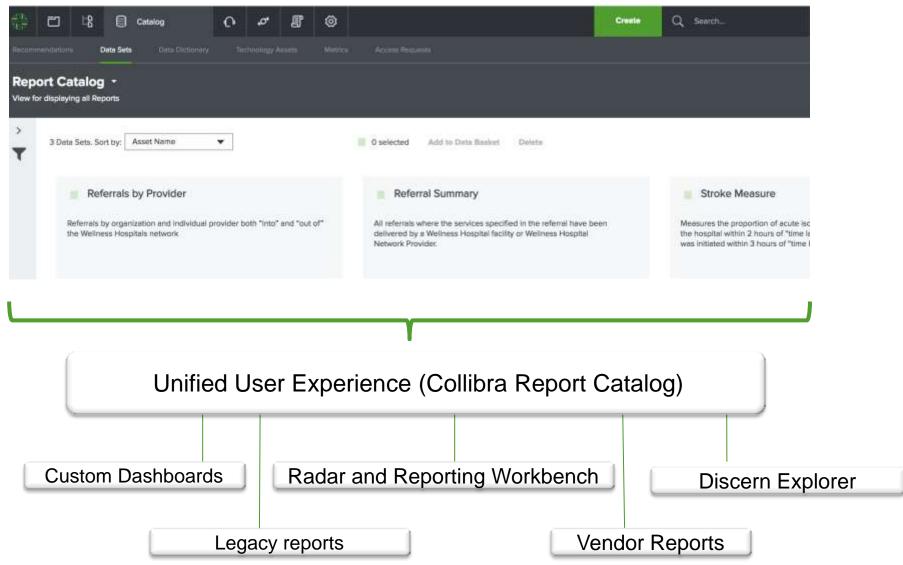






Jump start your IG Program with a report catalog





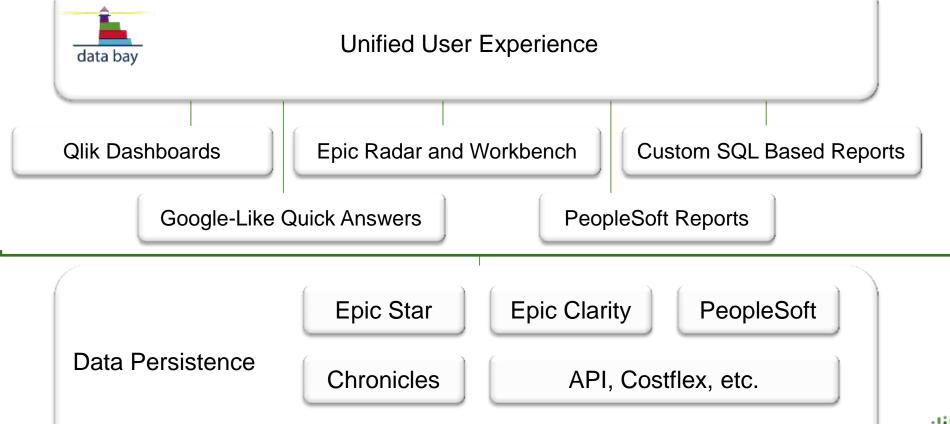


One Customer's Approach

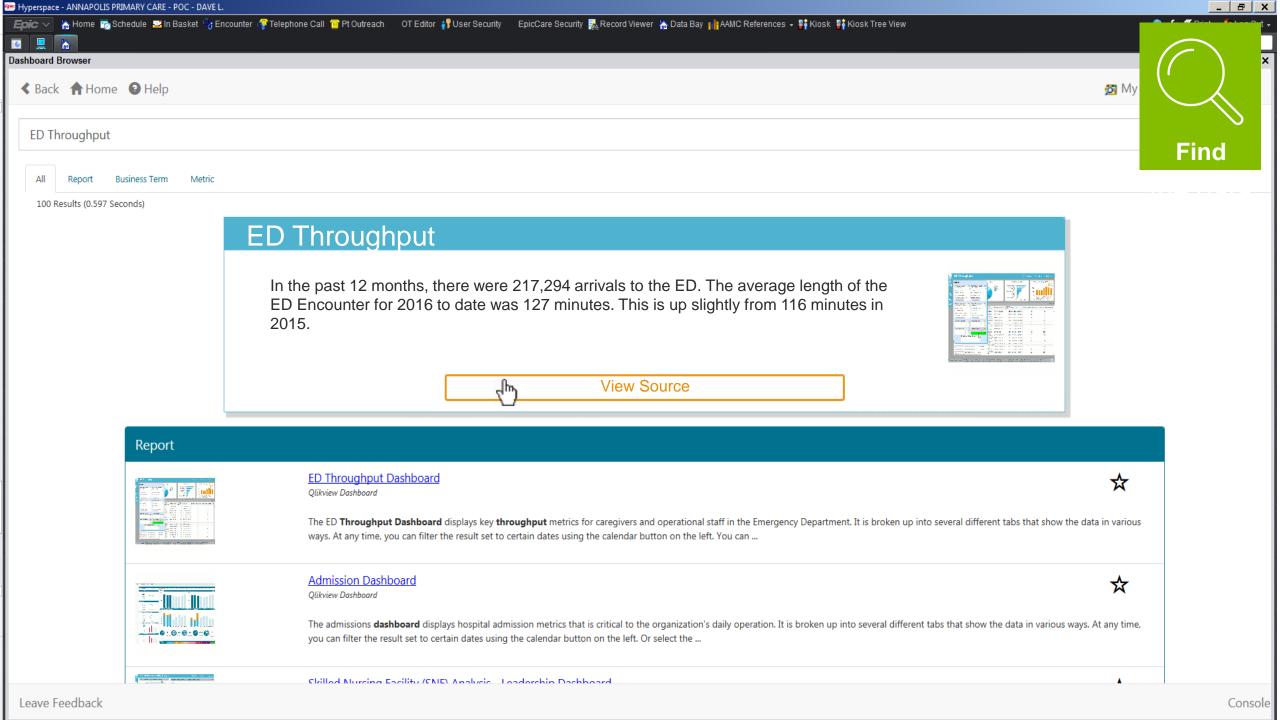


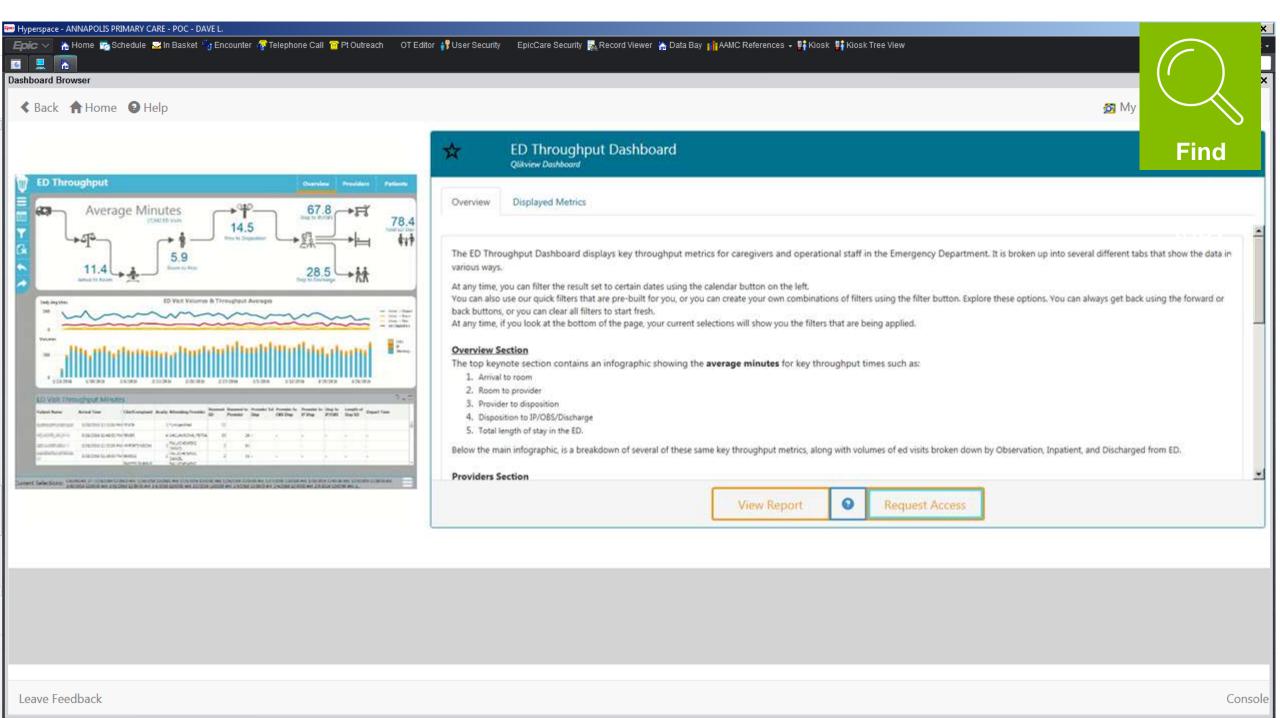






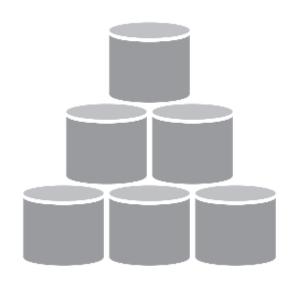






Enabling Analytics Requires Understanding

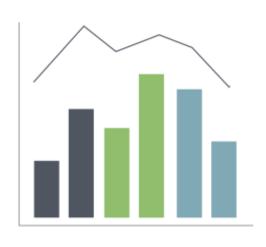




1. Identify and certify trusted sources



2. Formalize responsibilities



3. Establish data quality metrics



4. "Watermark" outputs

5. Make lineage visible at point of consumption (context via metadata)



Data Context is needed for Analytics & Bl



Report & Data Catalog

- One stop, searchable access to find reports across existing BI and reporting silos
- Track and automatically maintain lineage from source to target, transformation logic etc.

Metric **Definitions**

- Identify critical data elements for a given metric
- Report metadata including: calculations, inclusion and exclusion requirements, reference data lists

Data Lineage and Metadata

- Document business and technical lineage, metadata, enterprise systems and data flows
- Track and automatically maintain lineage from source to target, transformation logic etc.

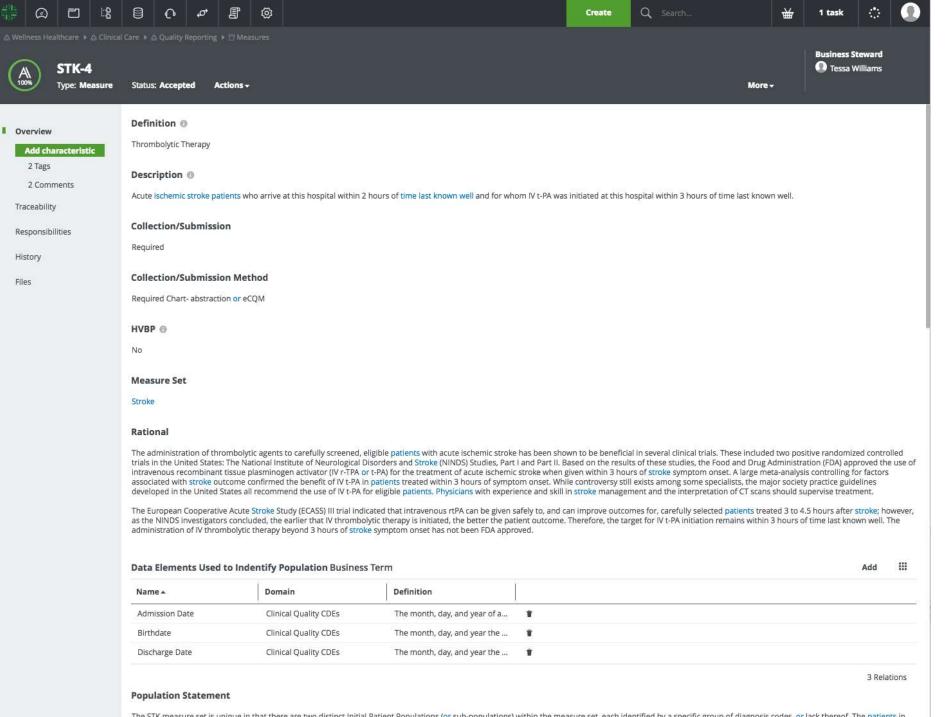
Data Quality

- Data quality results— link data quality scores with reports and business views of data
- Business rules track quality scoring and on boarding of business rules

Reference Data Management

- Manage, govern and deploy enterprise reference data and clinical terminologies, lists and cross maps
- Issue management, tracking and remediation plan workflows



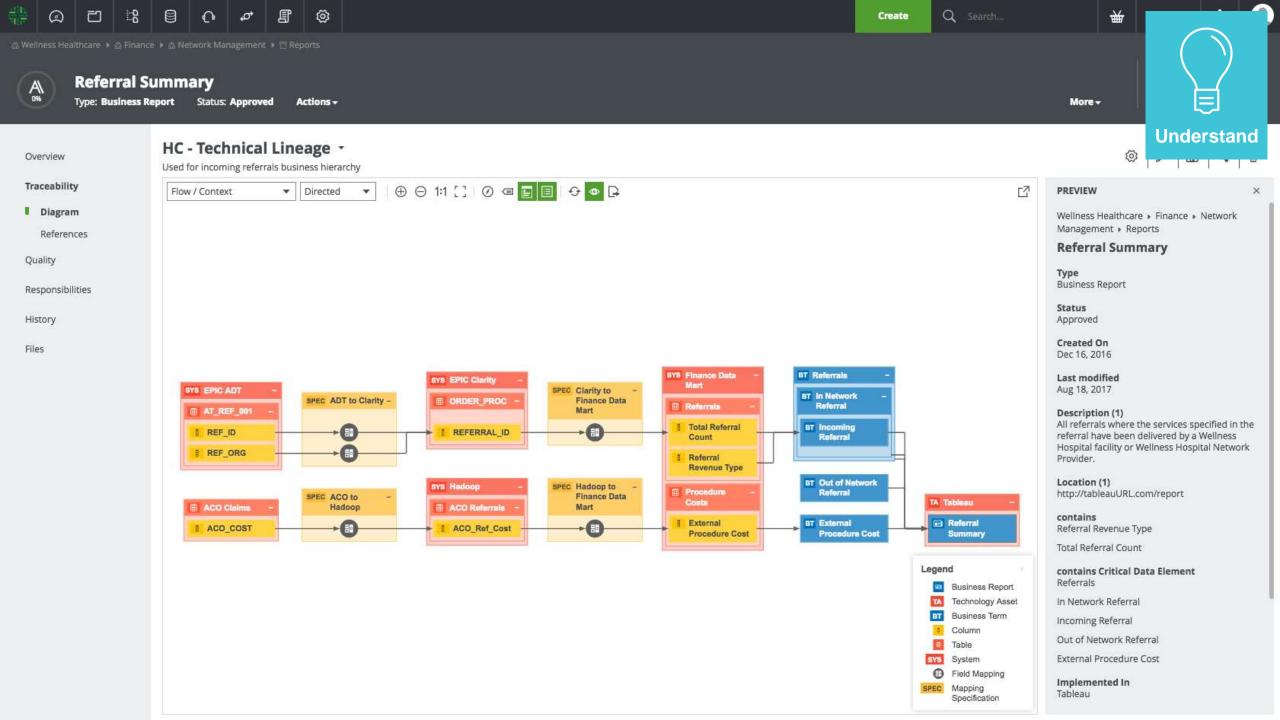




Understand your Metrics

- Definitions
- Inclusion & exclusions
- Numerator
- Denominator
- Calculations
- Responsibilities
- Data elements
- Reference data sets

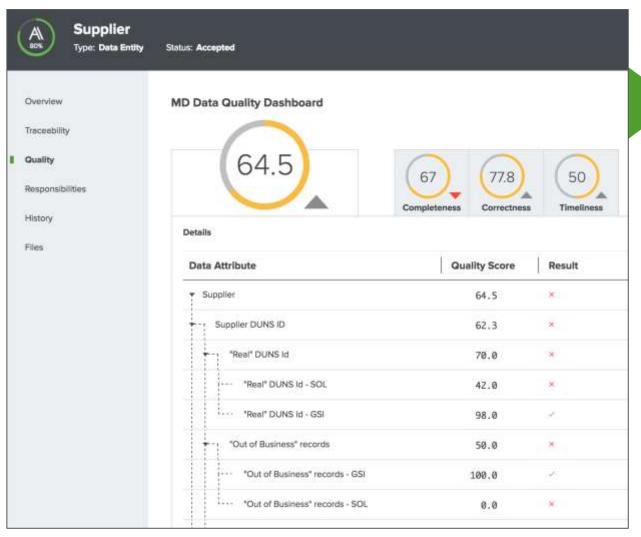




Data Quality Dashboards

Establish communication plan around data quality issues





Data quality rules and associated measures are consolidated at a relevant level (at the master data level in this example) in Data Quality Dashboards.

This provides an overview of data quality over data quality dimension for data quality rules executed in several systems.



Terminologies and Vocabularies drive analytics

Reference Data Governance



Myocardial infarction

58258-5 (LOINC)

K75 (ICPC-2) 410 (ICD-9)

150.9 (ICD-10 CM)

I229 (SNOMED-CT)

heart attack



Hierarchy and Relationships

Cross mapping

Versioning

Code Standardization

Dimensions

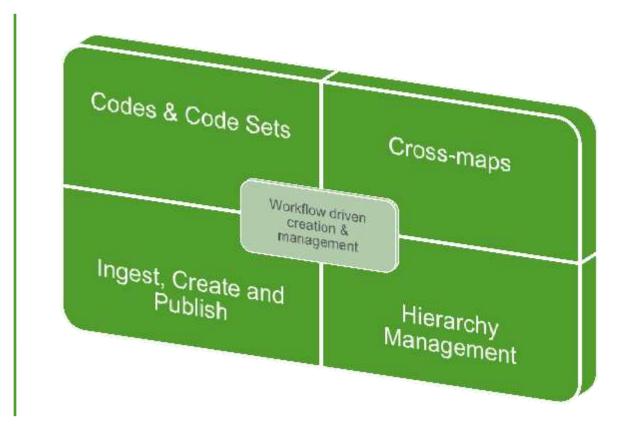
Aggregates and Counts

Required reference data management capabilities

Yet, Excel is the most common tool in use today



- Support diverse reference data sets
 - Public
 - Private
 - Semi-private
- Connectivity & integration
- Versioning
- Security
- Scale and performance as an enterprise system



Technical Debt

- The situation in a project when developers accept compromises in one dimension of a system in order to meet urgent demands in other dimensions (Clear, 2003)
- Includes code-related and non-code related elements

Documentation Debt

- A component of technical debt (Tom, 2013)
- The situation in which software products lack the necessary internal documentation.

ERRR...



CAN'T STOP. TOO BUSY!!

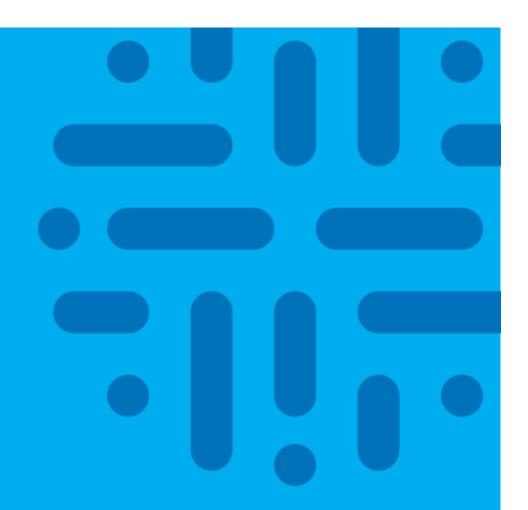




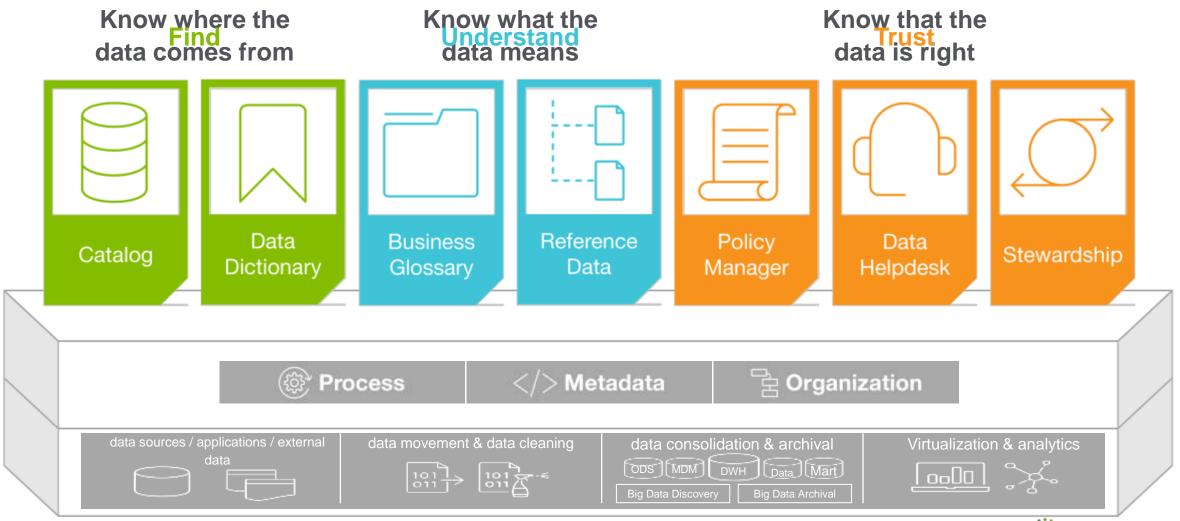


QUESTIONS?

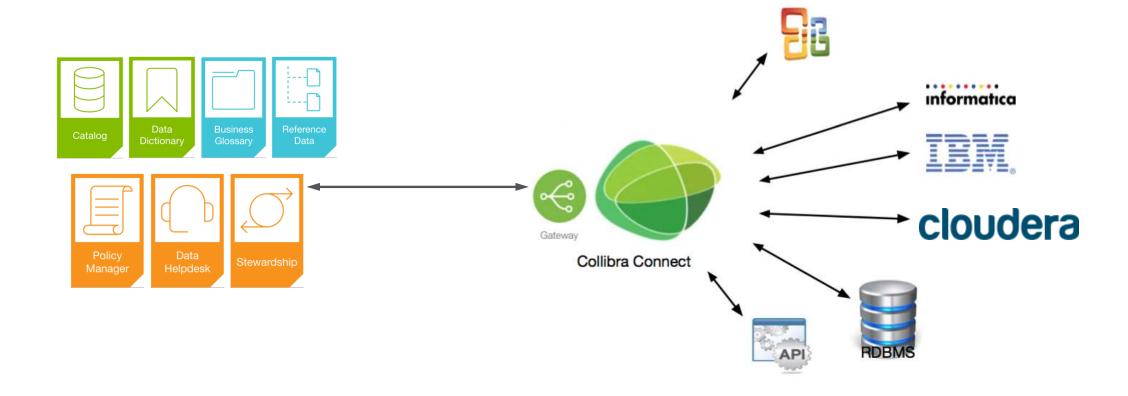
@COLLIBRA
WWW.COLLIBRA.COM
CONTACT@COLLIBRA.COM



Collibra: the system of record for data change agents



High-level Collibra Integration Architecture





Capabilities to Enable HC Information Governance

Enterprise Data Portal			
Catalog	Search	Data governance/quality scorecards	
Certification and attestation	Data helpdesk	Data sharing agreements/SLAs	
Access & resource requests/approval	Provisioning	Metrics/calculations governance	

Data Governance			
Reporting	Roles and Responsibilities	Policies	
Operating model	Data sharing agreements/SLAs	Issue management workflows	
Authority and voting/approval	Data/report certification and attestation	Data governance process flows	
Data ownership	Data loss prevention/Data classification	Data governance/quality reporting	



Integration / Collibra Connect







Data Management				
Data dictionary	Data set creation/management	Critical data elements		
Data lineage & traceability	Application/system inventory	Metadata management		
Master Data (Provider/Person/Location/etc.)	Data quality rules & profiling	Business glossary		
Reference data	Report catalog	KPI & Metrics catalogs		

