

Strategies for Managing Your Data to Support RBM Workflow

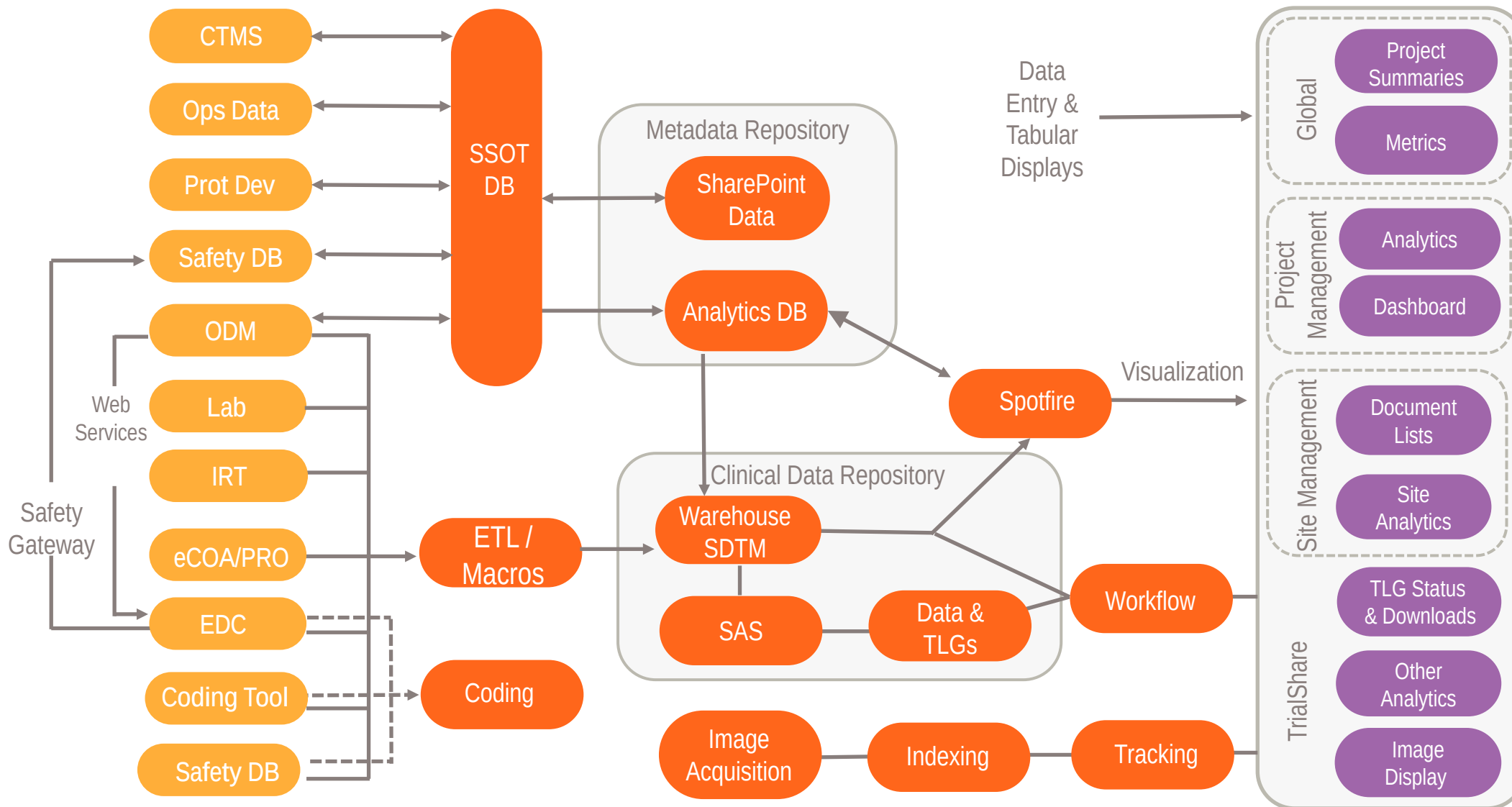
PhUSE Single Day Event
Deerfield, IL
July 21, 2016



CHILTERN
Designed Around You®

- Managing through different requirements from functional areas
- Tracking status of the data for data monitoring
- Dealing with anomalies
- Determining Key Risk Indicators (KRI) based on risks or the availability of data
- Methods of stacking multiple studies to allow for risk detection across a study portfolio

Data Flow Map



What's the Status of My Data?

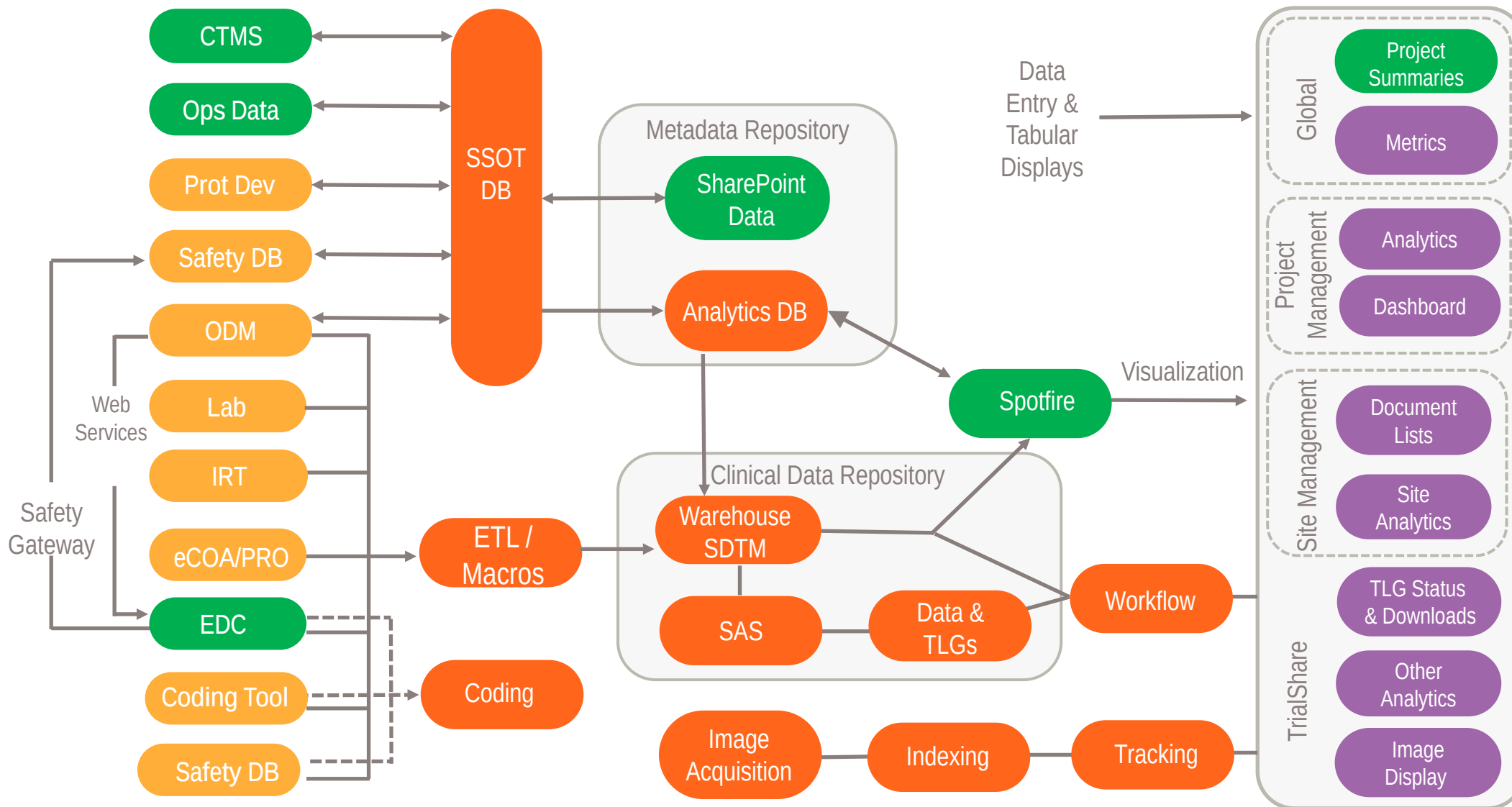
Considerations

- Measuring site performance on partial reviewed data
- Medical and statistical monitoring on unprocessed data
 - Coding
 - Non-EDC captured data
 - Missing data

Status tracking requirements

- Data acquisition
- Data management processing
- Workflow status
- Relational structure

Data Flow Map: Data Status



Data Review Status and Issue Management



Study: DEMO

Last Refresh Date: 6/3/2016

Subject: DEMO1111

Visit: Screening

Details Overall

Study	Count...	Site	Subject	Visit	Subject Status	Reason for Discontinuation	Expece... Visit Date	Date of Last Visit	DM Comment	Number of Missing Pages	Number of Missing Fields	Nun c Unc Ter
				End of Run-In	Subject Stat...	Withdrawal by su...	24 May 2...	3Mar2...				
				Screening	Subject Stat...	Withdrawal by su...	3 Mar 20...	3Mar2...		3		
				End of Scree...	Subject Stat...	Withdrawal by su...	16 Mar 2...	3Mar2...				
				End of Treat...	Subject Stat...	Withdrawal by su...	-	3Mar2...				
				Premature Di...	Subject Stat...	Withdrawal by su...	-	3Mar2...				
				End of Study ...	Subject Stat...	Withdrawal by su...	-	3Mar2...				
				Post-treatme...	Subject Stat...	Withdrawal by su...	-	3Mar2...				
				End of Follow...	Subject Stat...	Withdrawal by su...	2 Feb 2012	3Mar2...				

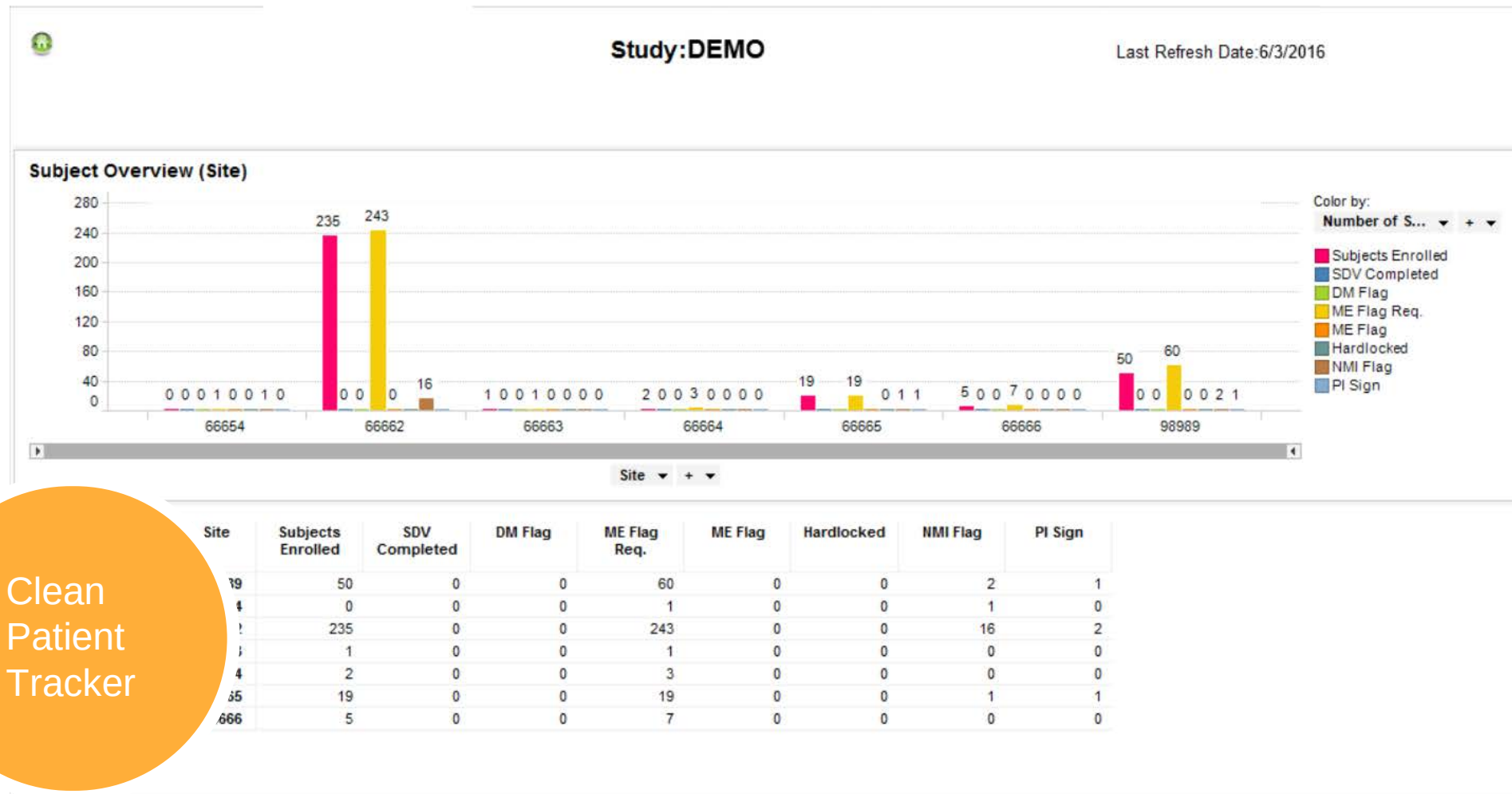
DM Comment: This subject is now clean

Submit

DM_Com... ▲ UpdatedBy_... Updated_D...

Input/Comment
Field

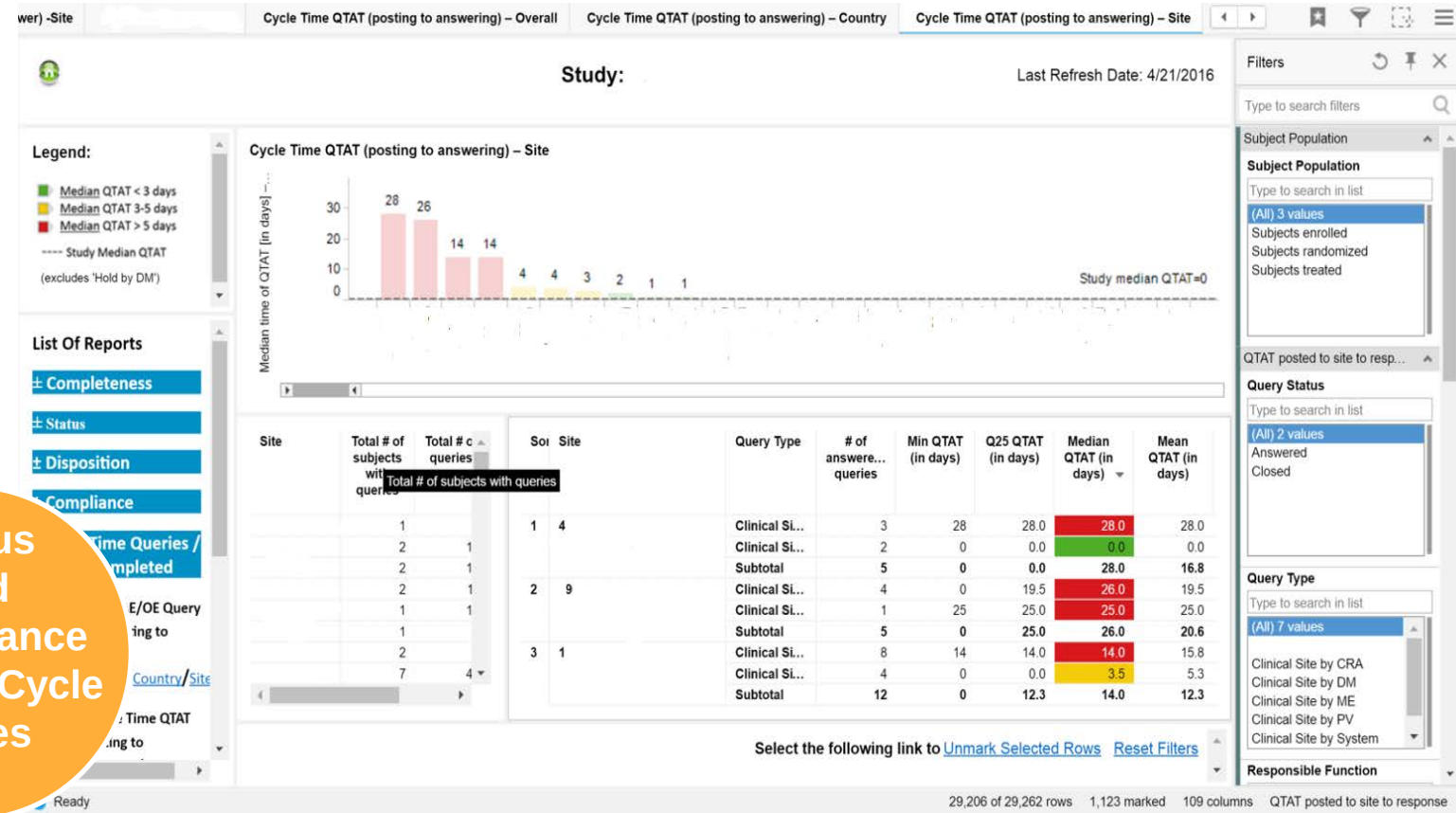
Visual Analytics of Patient Status



Clean
Patient
Tracker

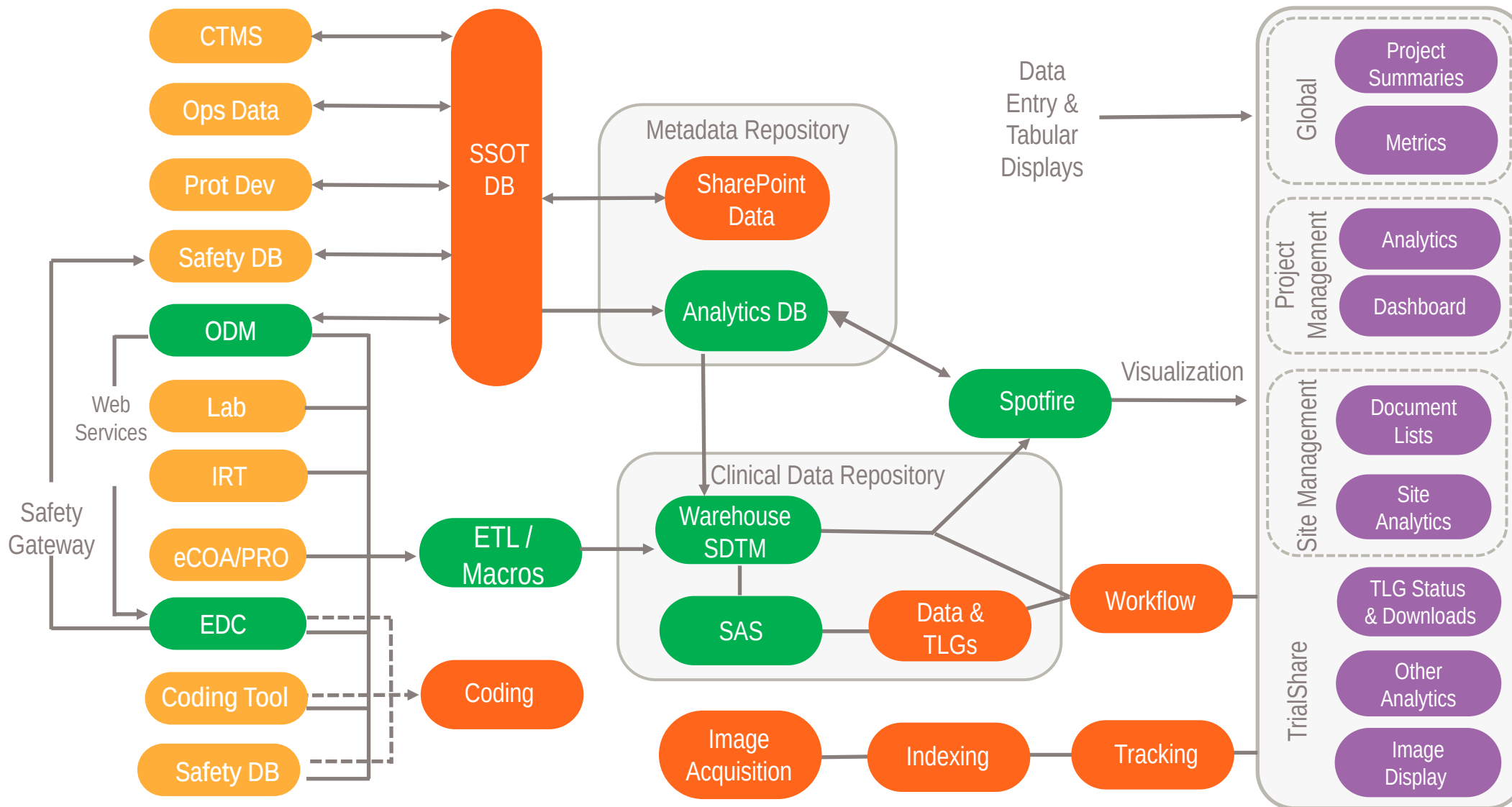
Anomalies in the Data

- Metadata scenarios that skew the data
 - Re-queries
 - Activating & re-activating pages
- Skillsets to resolve the issue
 - Business Analyst
 - Data Scientist
- How to manage
 - Build into data marts
 - Program hard code
 - UI to analytics database
 - Leave it as is



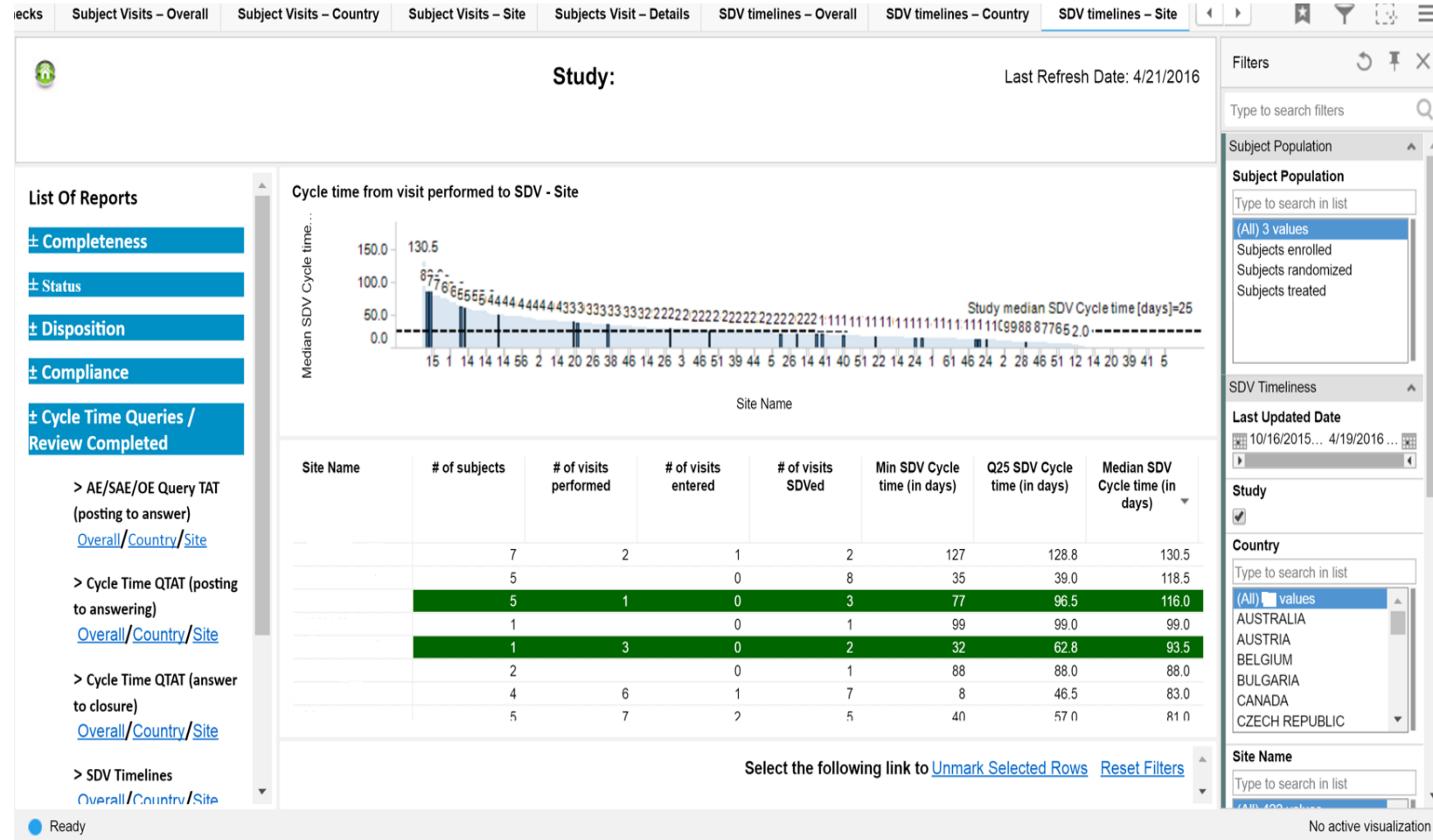
Status and Compliance - Query Cycle Times

Data Flow Map: Anomalies

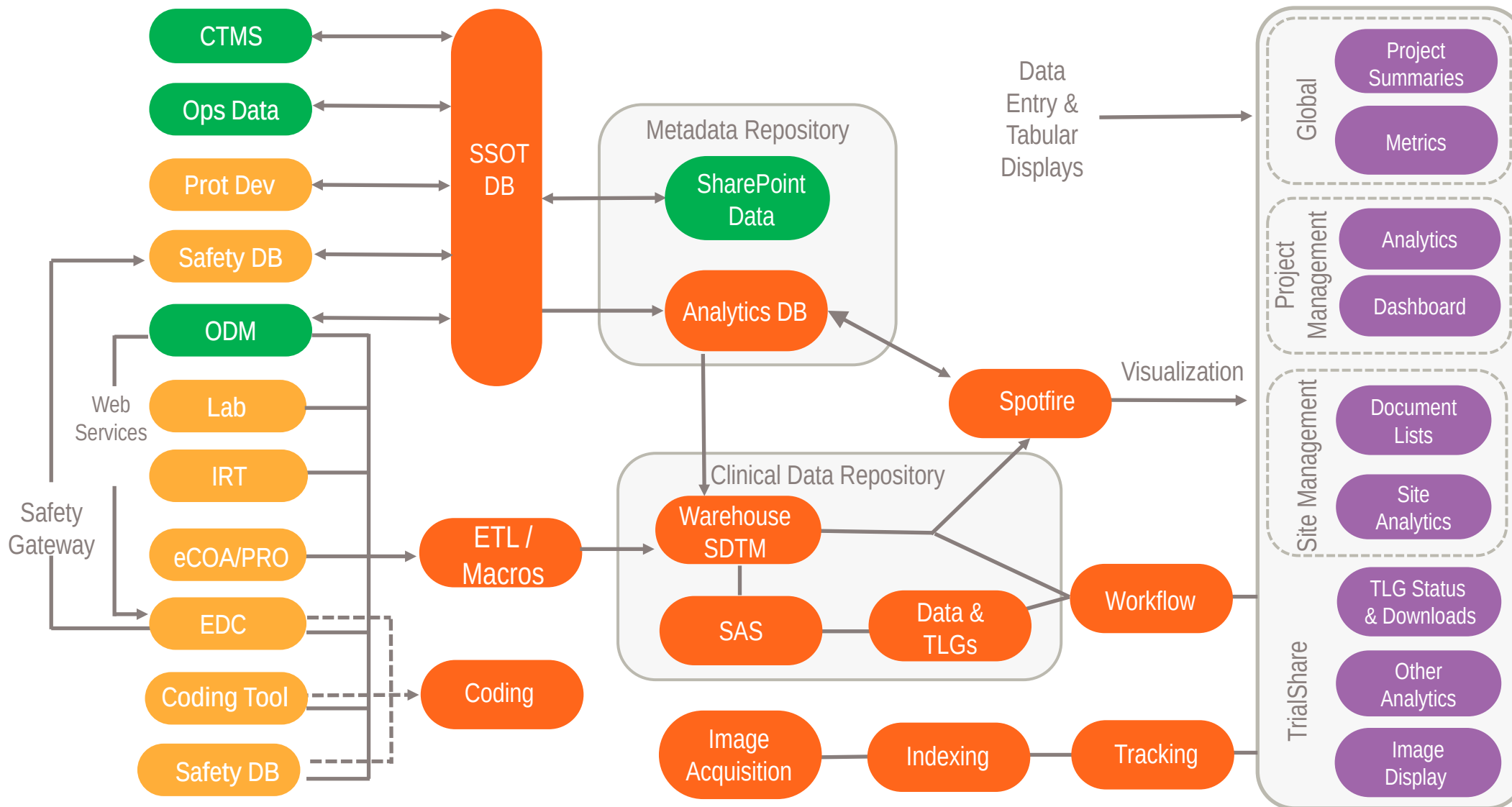


Reporting on Key Risk Indicators

- Highest Risk vs Measureable Data Availability?
- Case Example:
 - Source Document Verification (SDV) vs. Source Document Review (SDR)
- What is the best indicator of site backlog when SDV is reduced?
- Where do you collect and manage SDR requirements?



Data Flow Map: Key Risk Indicator Data Availability

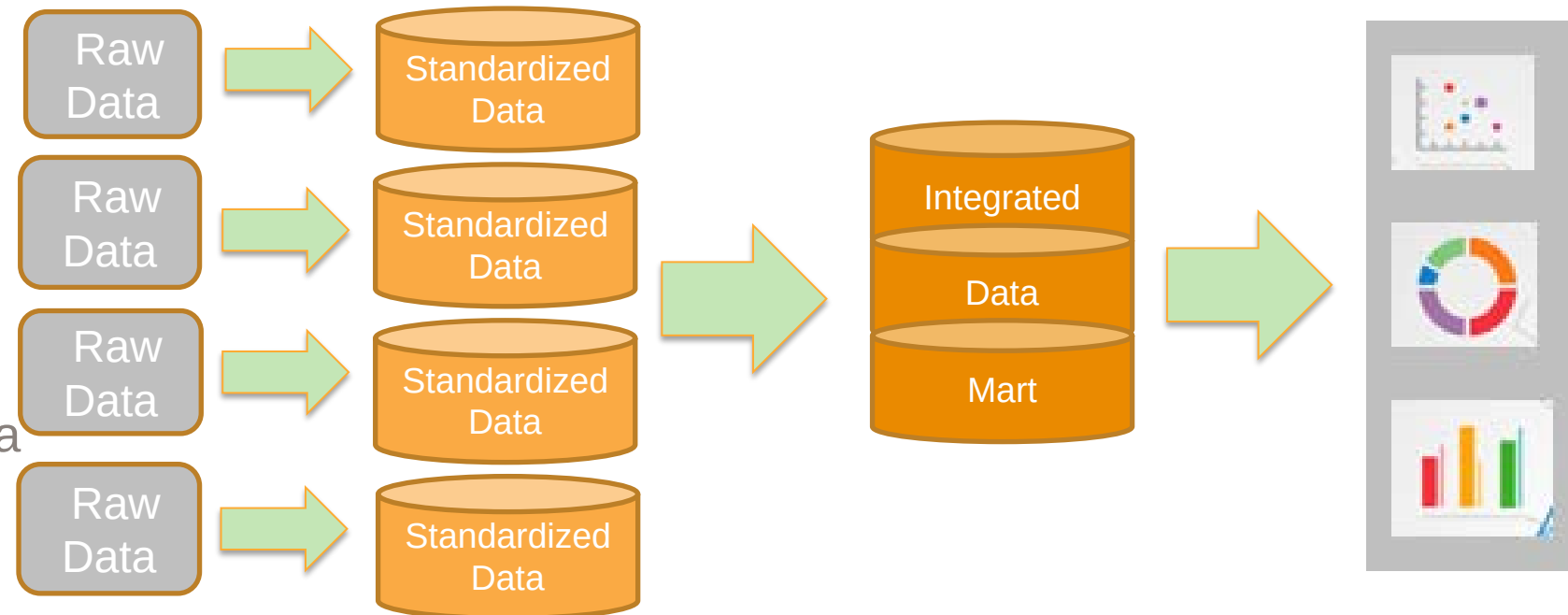


- Multi-Study Data Monitoring

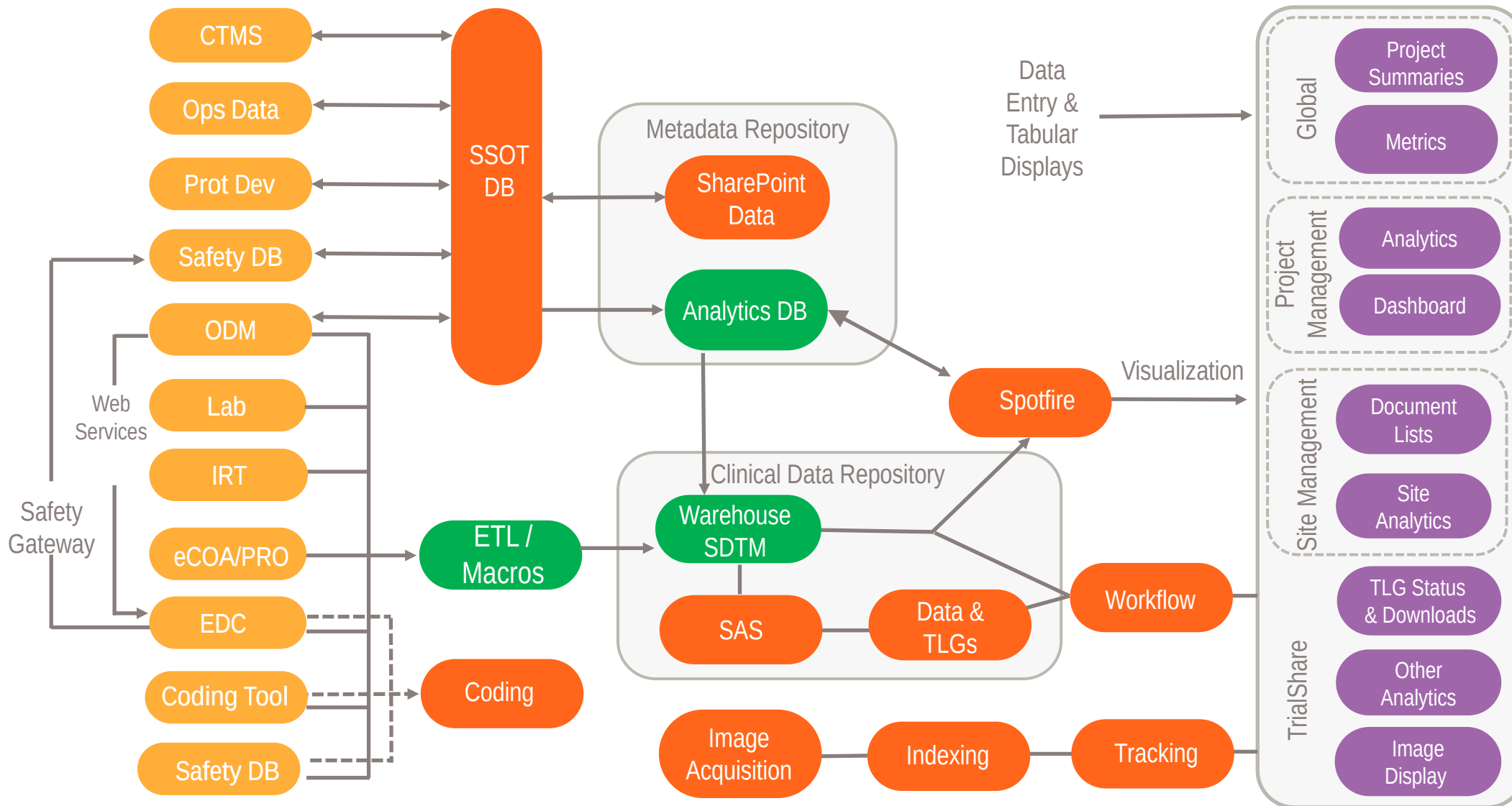
- Signal Detection
- Historical Metadata Analysis

- Standardized Data

- SDTM or Custom
- Linking operational data



Data Flow Map: Portfolio Building



Centralized monitoring requires the status of the data to be in a relational structure

Access to technology and availability of data factor in data strategy decisions

Scalable solutions will evolve as the process matures