



Evolution of Data

From extraction to visualization

CM07

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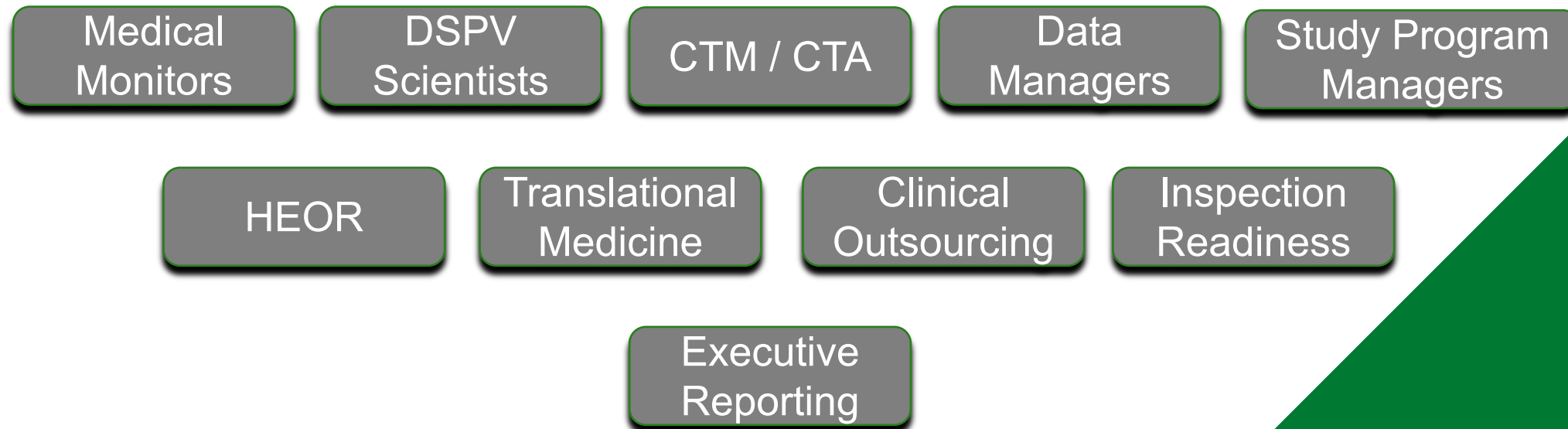


Agenda

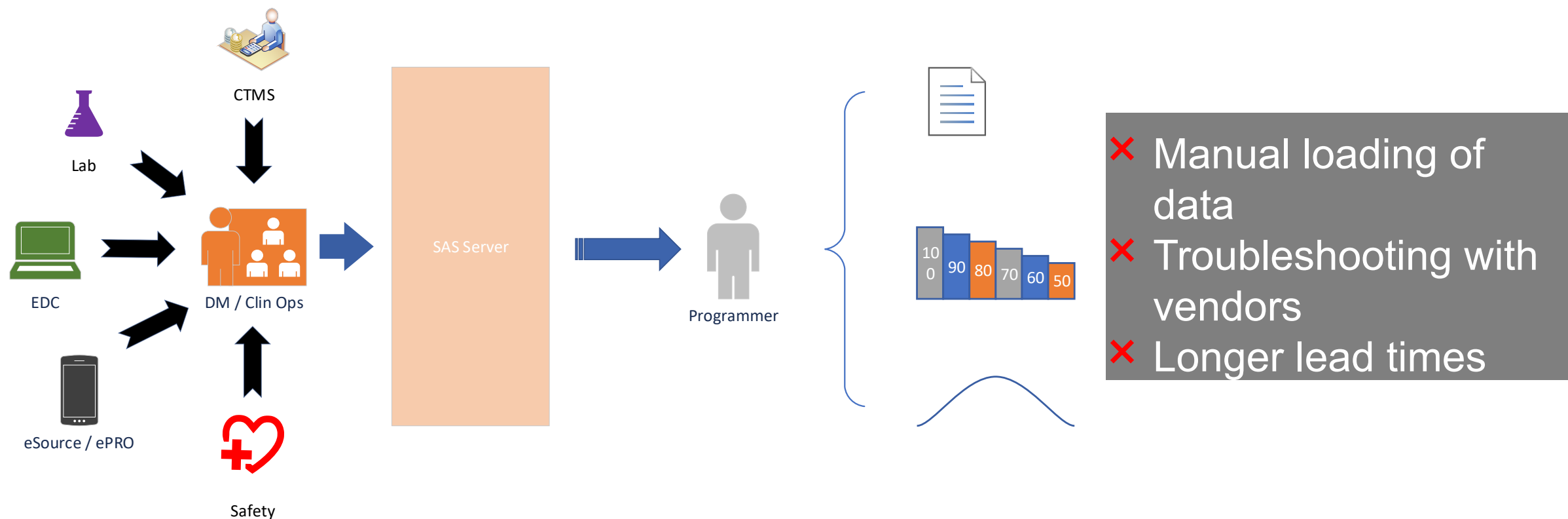
1. The Starting Line
2. Data sources and import
3. ETL or ELT
4. Visualization of data
5. Where we are
6. The Finish Line
7. Demo
 - Knime workflow
 - Tableau visualization
8. Q&A

Clinical Data Analytics & Technical Solutions

- Facilitate ongoing data review
- Support clinical teams
- Faster access to data



The starting line ...



Getting the data

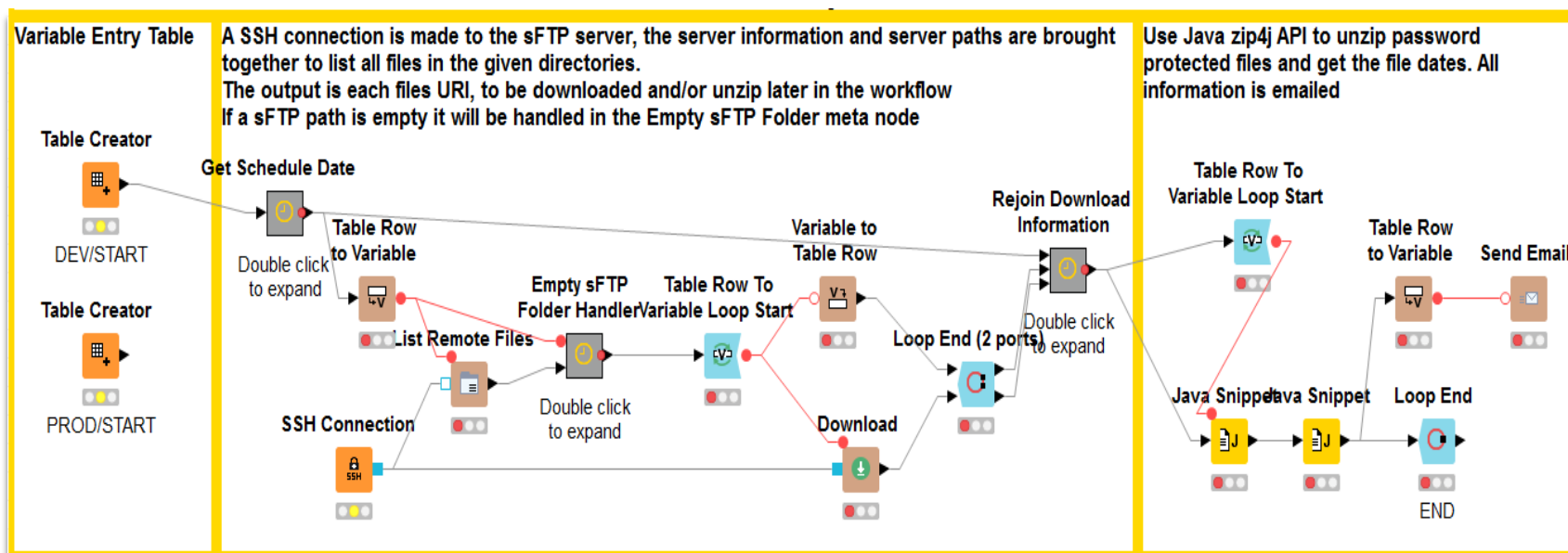
- Extraction Mediums
 - sFTP
 - API
 - Webservices
- Data Types
 - csv
 - xpt
 - XML
- Frequency



- Data, Data and Data
 - EDC, Labs, AEs
 - Audits, Users, Sites
 - Study Metadata, Issue logs, Vendor KPIs
- Push or Pull
- Adhoc transfers

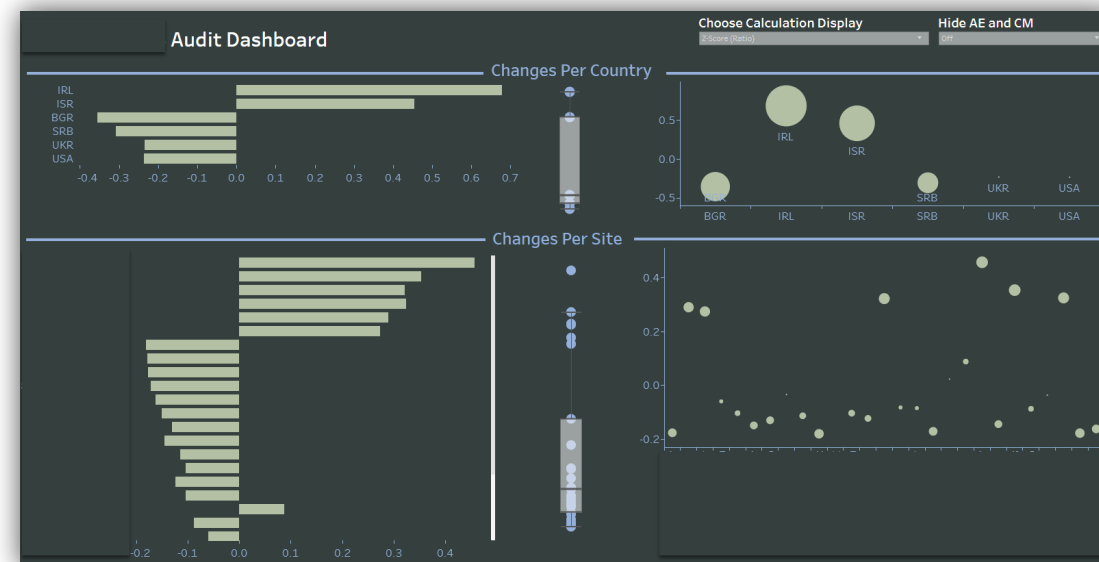
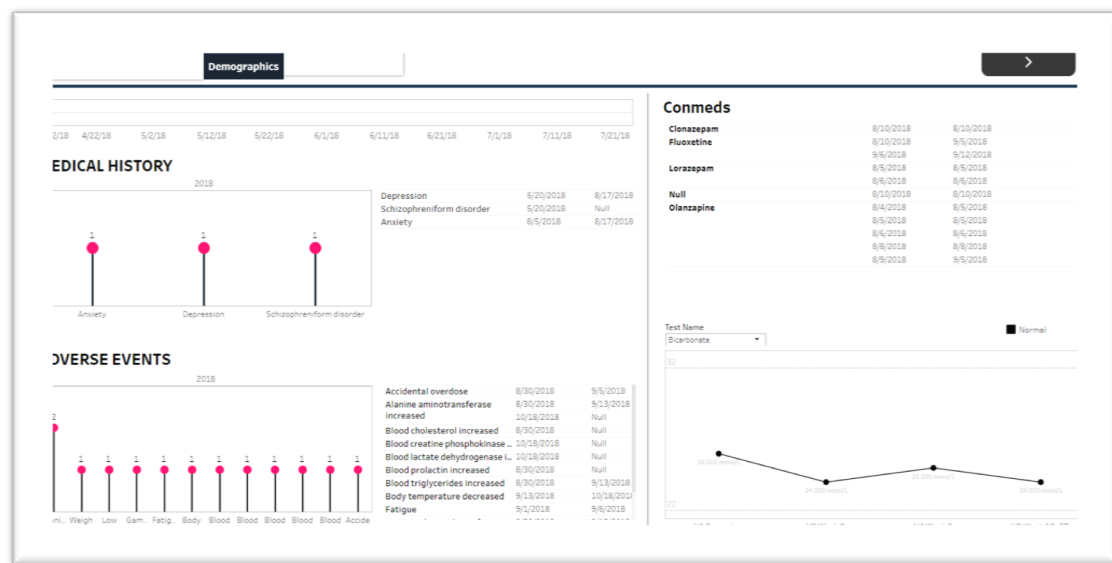
ETL or ELT

- Define standard – RAW +
- Data Quality checks and alerts
- Visual platform for data transformation
- Scheduled and event based workflows



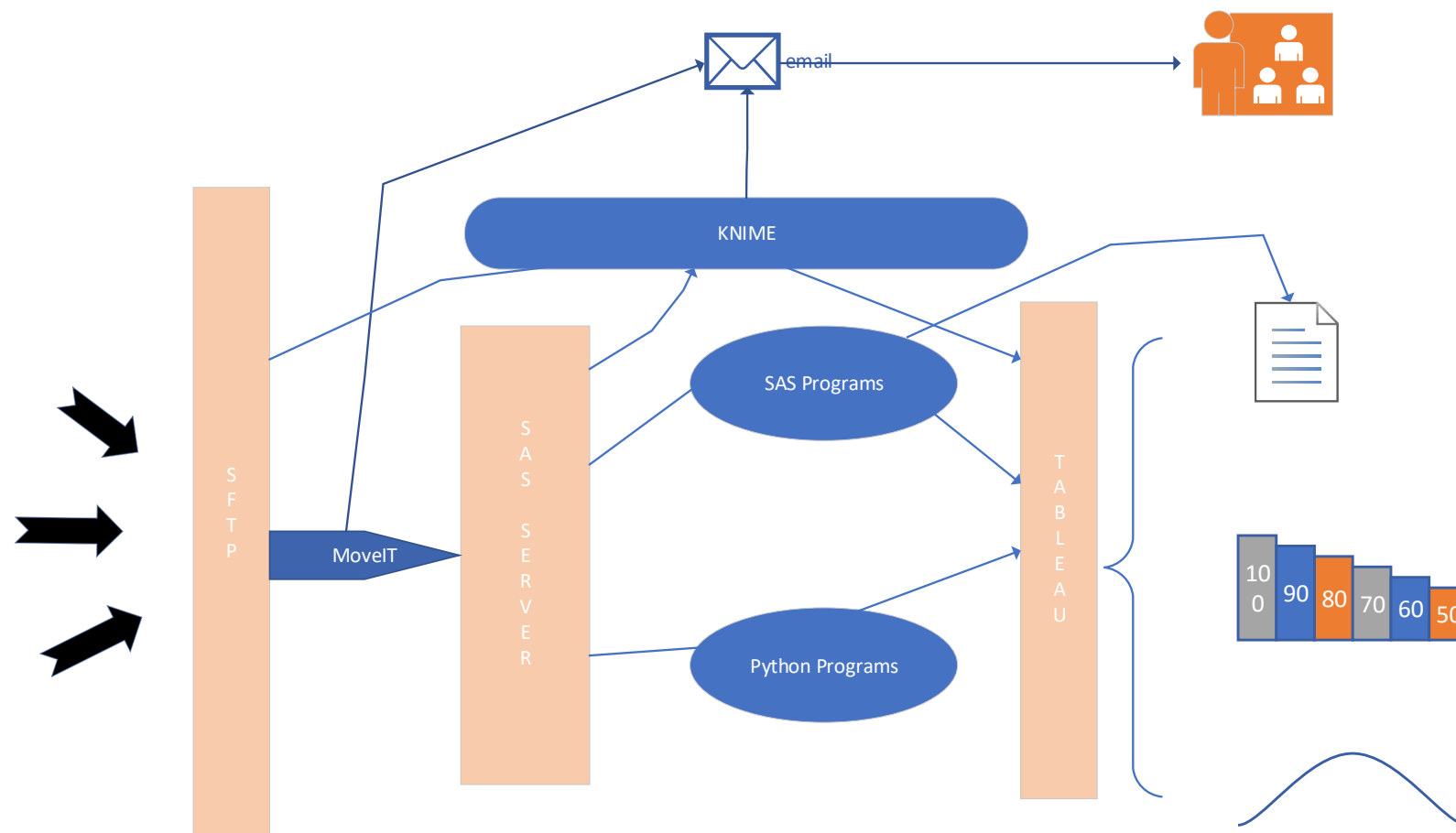
Visualization of Data

- Build or Buy ?
- Ease of use
- Data connectors

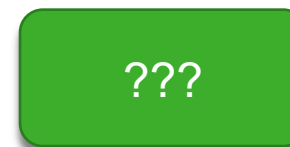


- Drill Down capability
- User Preference bookmarking
- Dynamic Note taking

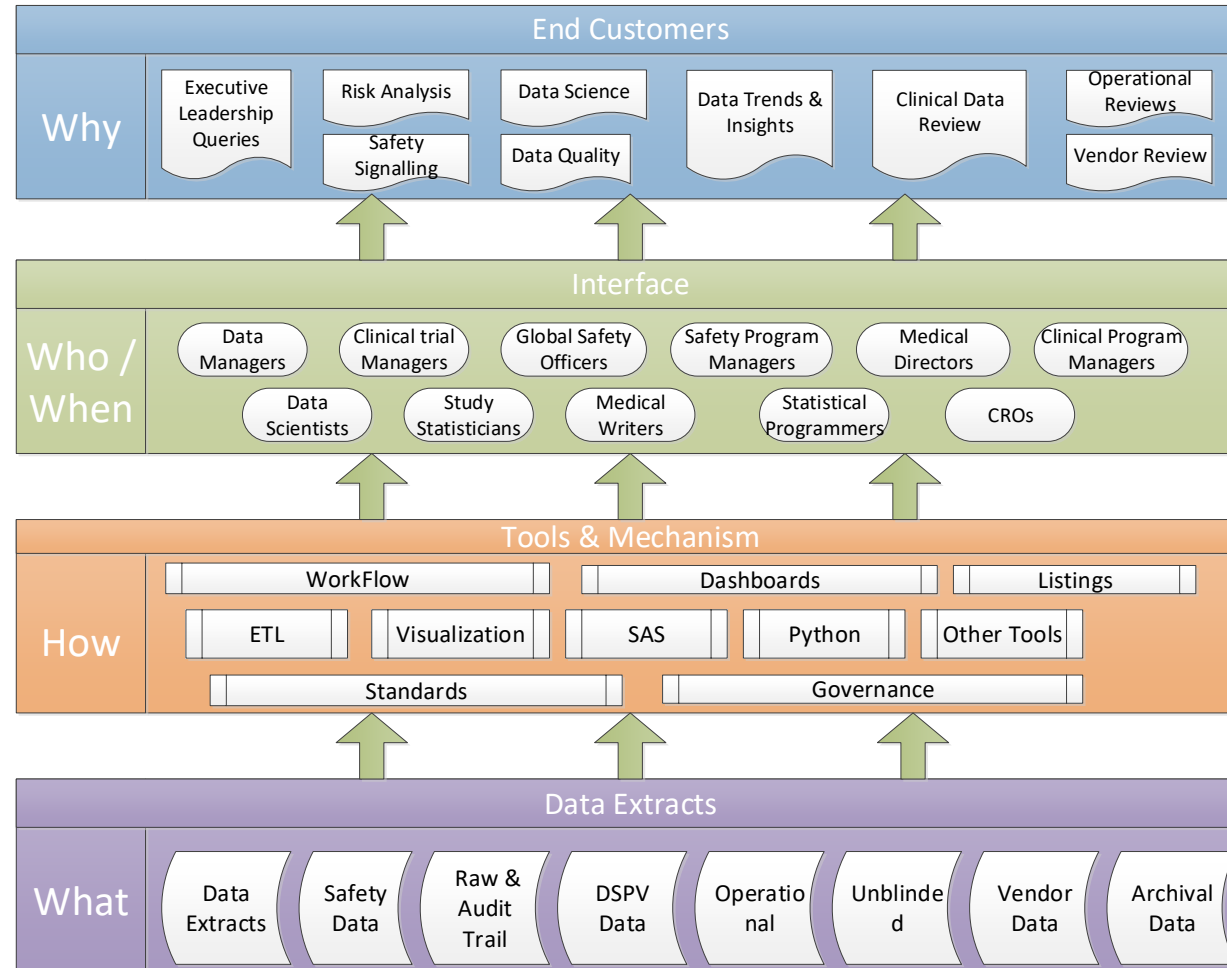
Where we are ...



Our Tool Kit



The Finish Line



Demo



Thank You