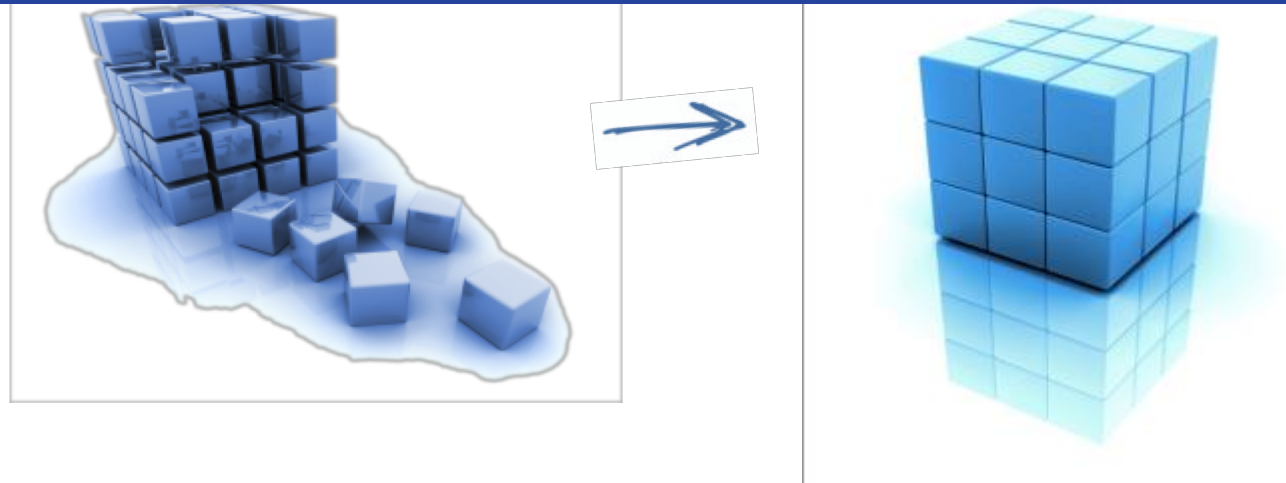


Xbiom 3.0 SaaS Suite

Smart Transformation

Machine Learning and AI augmented transformation of Clinical and Biomarker Data for semantically harmonized access



PhUSE Connect 2018

Agenda

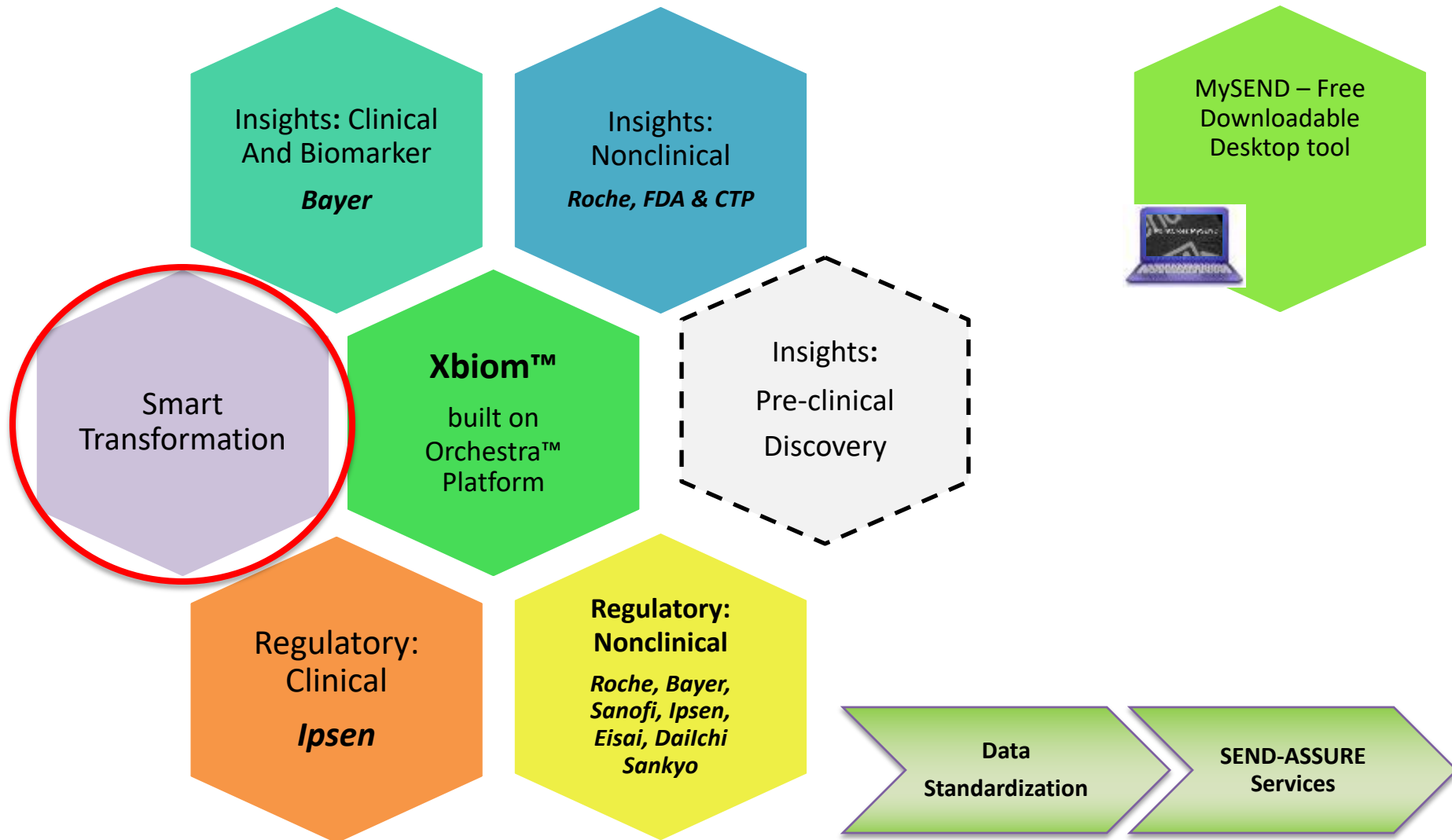
➤ Xbiom SaaS Suite

- ✓ Modular, on the cloud, software as a service covering clinical and biomarker data for research insights or regulatory

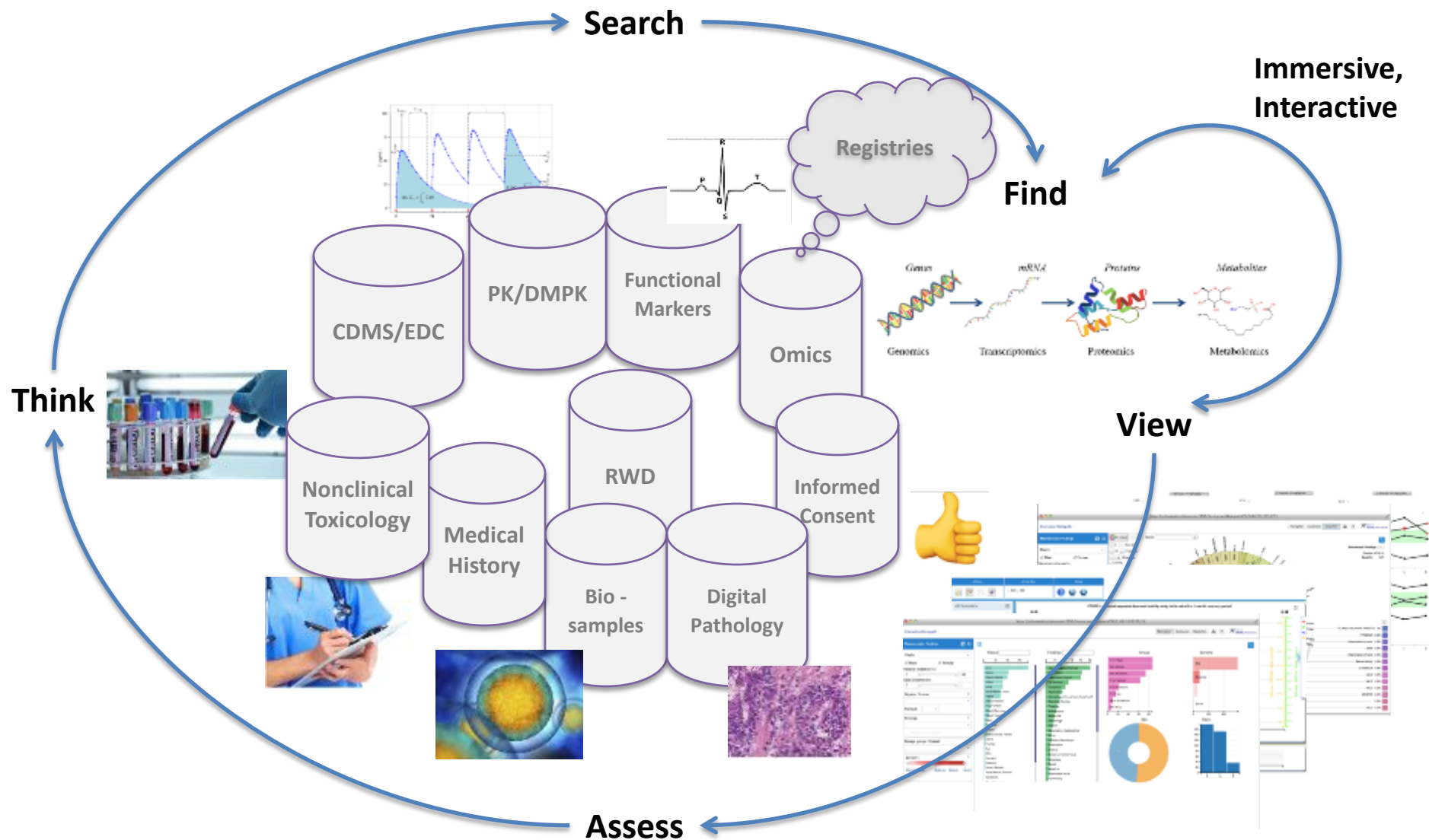
➤ Xbiom Smart Transformation

- ✓ Artificial intelligence and machine learning augmented transformation of raw as-collected data from data lakes into standardized, usable, accessible, searchable repositories

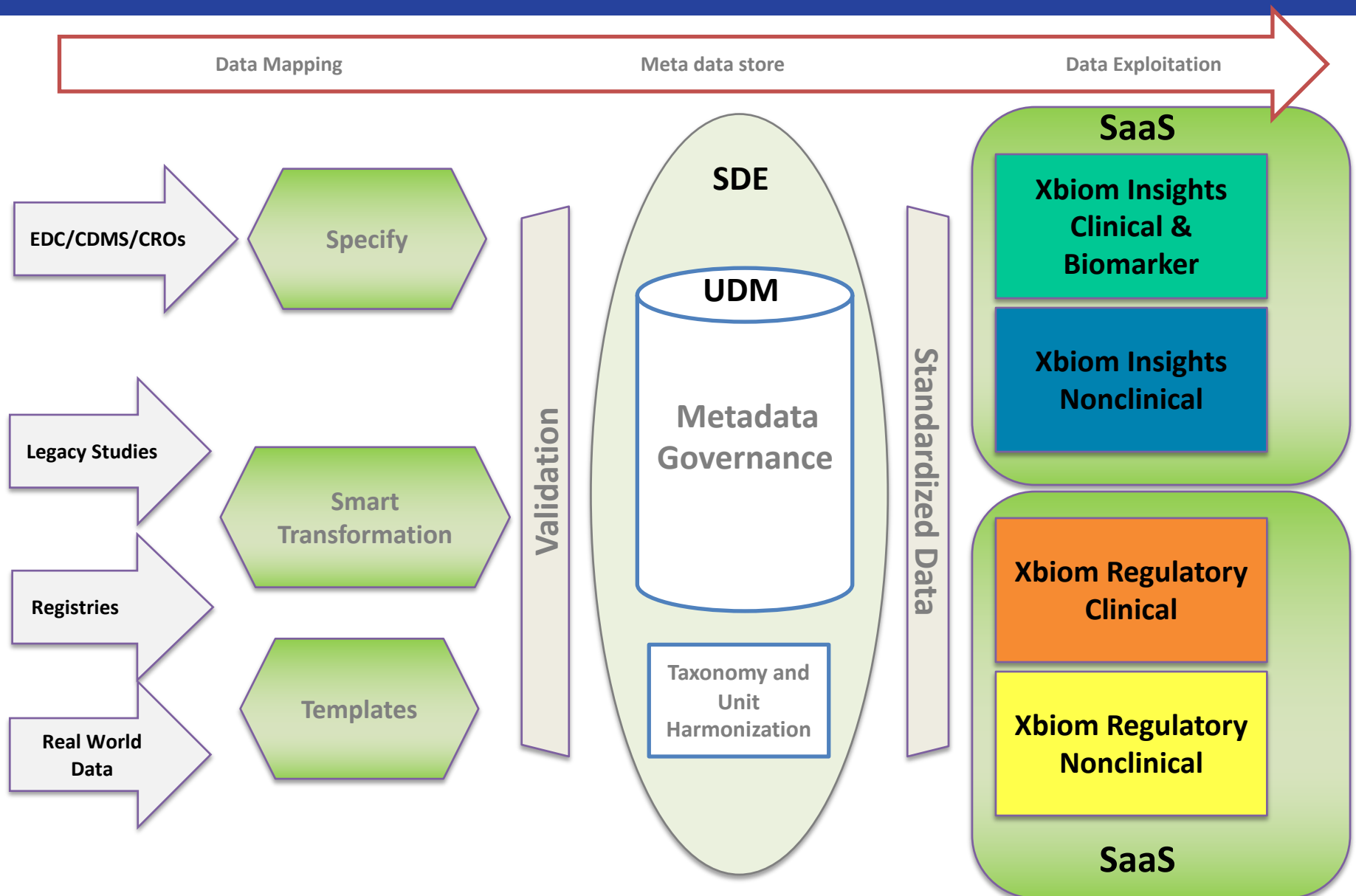
Xbiom[©] Suite for Research & Regulatory in Clinical & Nonclinical



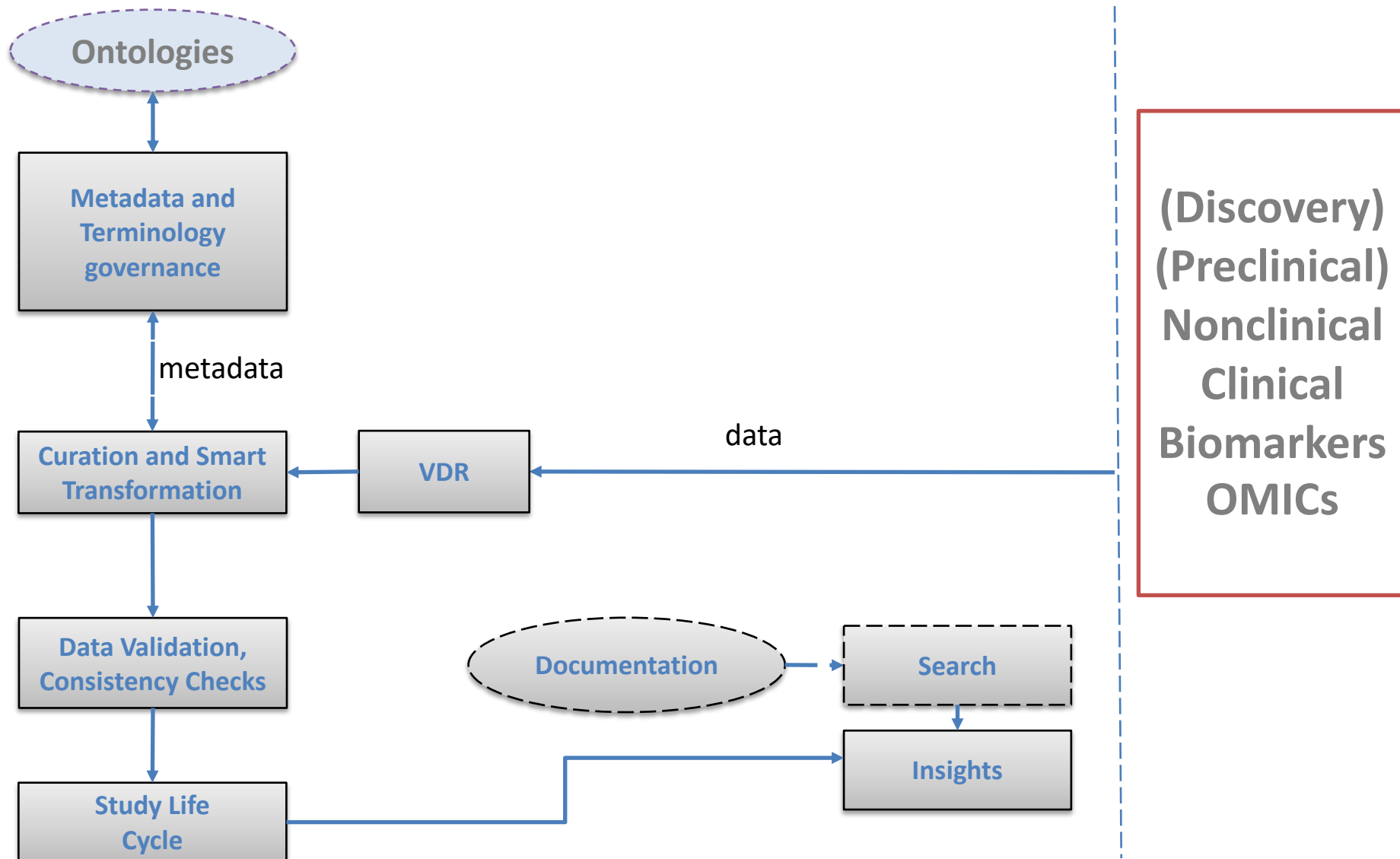
Xbiom - Supporting the Research Cycle



Xbiom Suite - Data for Development and Research



Xbiom Insight Process for Legacy and RWD



CURATION AND SMART TRANSFORMATION

Curation and Smart Transformation

➤ Purpose

- ✓ Curate by looking up Data Lake through Search
- ✓ Transformation Facility to automatically identify re-usable data from raw, legacy or incoming sources.
- ✓ Conversion recommendations of selected data from batches of studies into Structured/Standard format for searchable repository

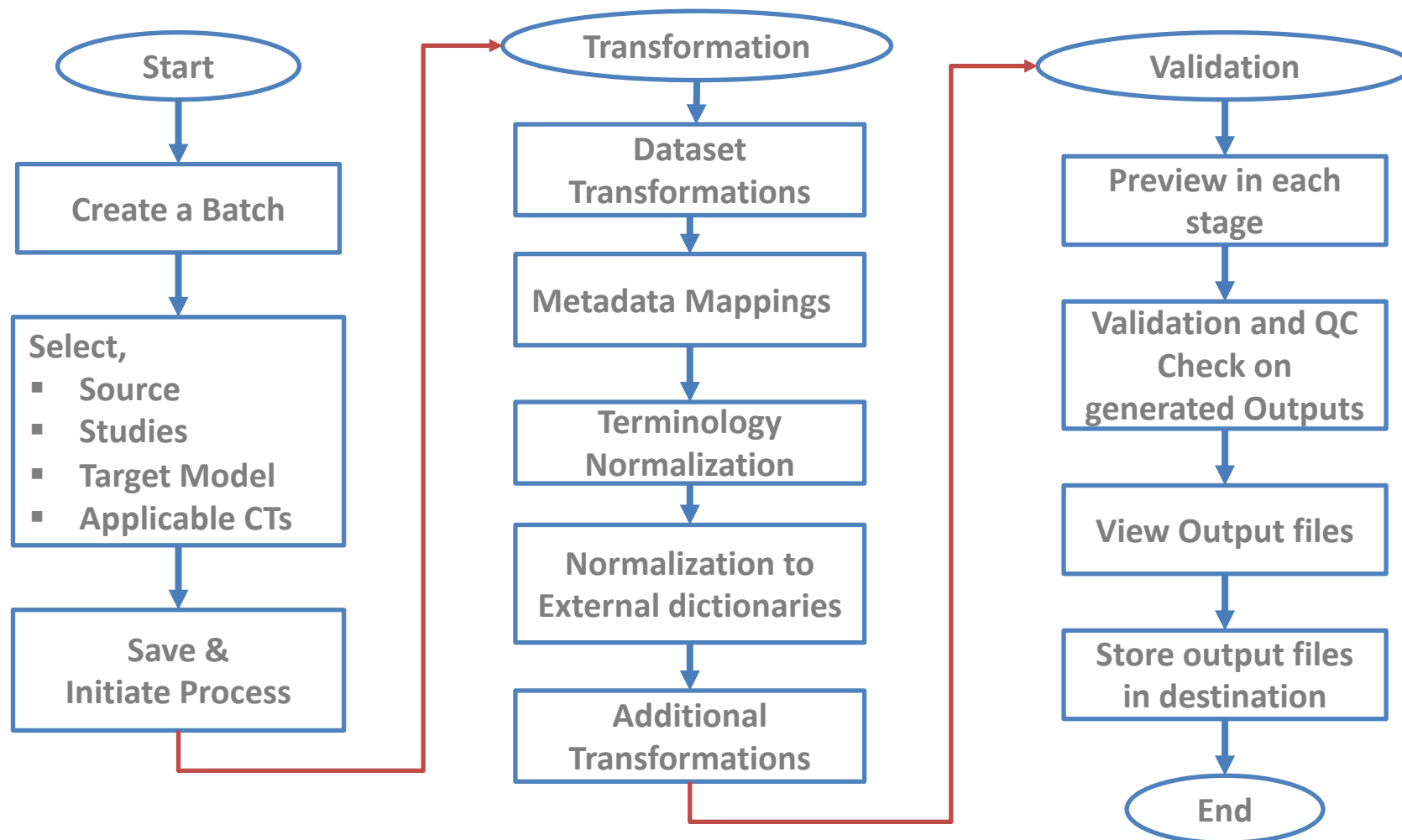
➤ Benefits for Users

- ✓ AI machine learning algorithms use Training sets (Data) & Terminology Governance to recommend mappings
- ✓ “Exception based decisions” for Data Managers to save time
- ✓ Data Validation and QC dashboards to review Data Consistency, Data Formats & Terminology issues

Machine Learning Algorithms

- Artificial Neural Networks based Machine Learning Algorithms
- Pre-trained with Clinical, Non-Clinical and Biomarkers data, and continually learns based on user applied mapping and transformation decisions
- Recommendation algorithms for data mapping, transformation functions and data pivots.
- Recommendation algorithms for Terminology Normalization based on many industry standard databases – CDISC CT, MedDRA, WHODD, GeneInfo, UniProt, miRBase,...

Transformation Facility – High level steps



1. Metadata mappings (Direct, expression, transpose mappings)
2. Preview of Mapping definitions
3. Terminology normalization
4. Output file

XBIOM SMART CURATION DEMO

THANK YOU

VISIT OUR BOOTH - # 32

PointCross Life Sciences
www.pointcrosslifesciences.com