

Harmonising AI with Collaborative Data Governance and MDM

Mar 11, 2024
2:20PM - 3:00PM

Today's Speakers



Brian Platz

CEO
Fluree



Steve Hamby

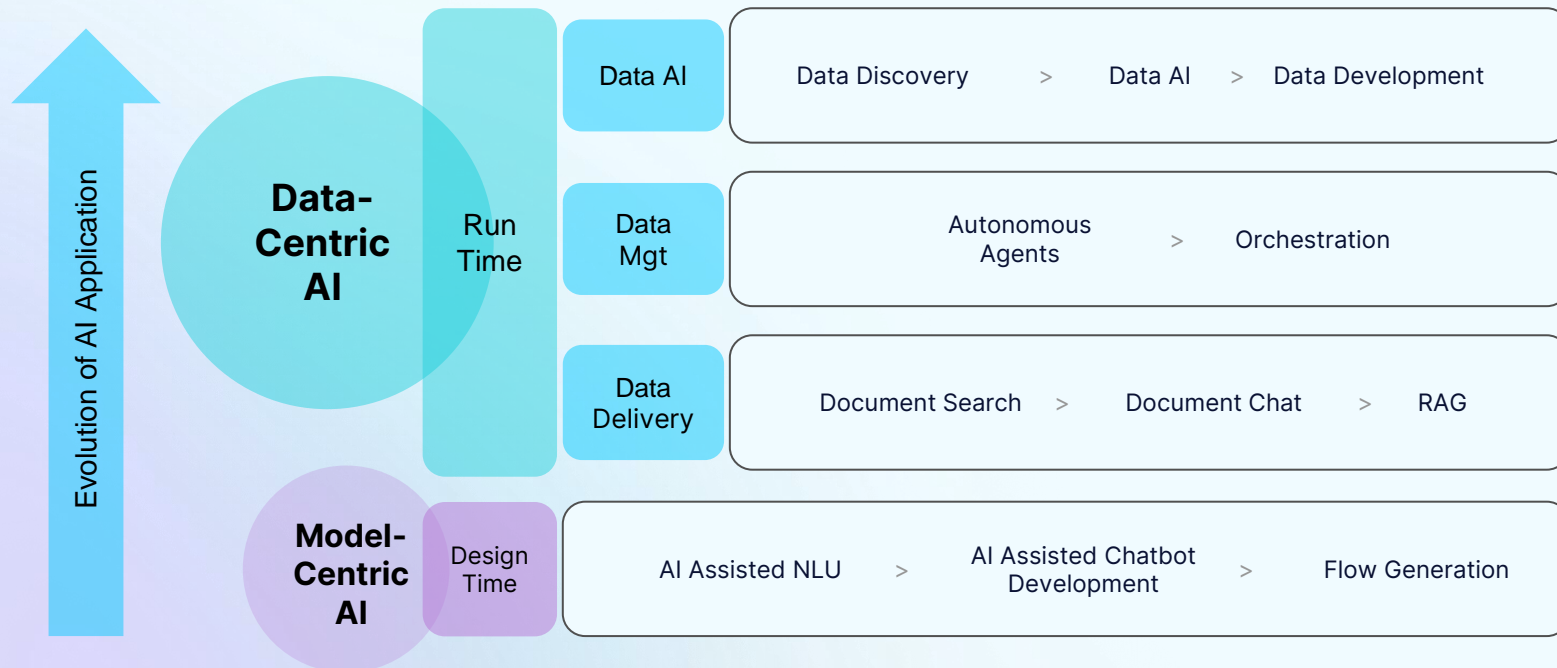
Senior Semantic Engineer
Vitality TechNet

Agenda

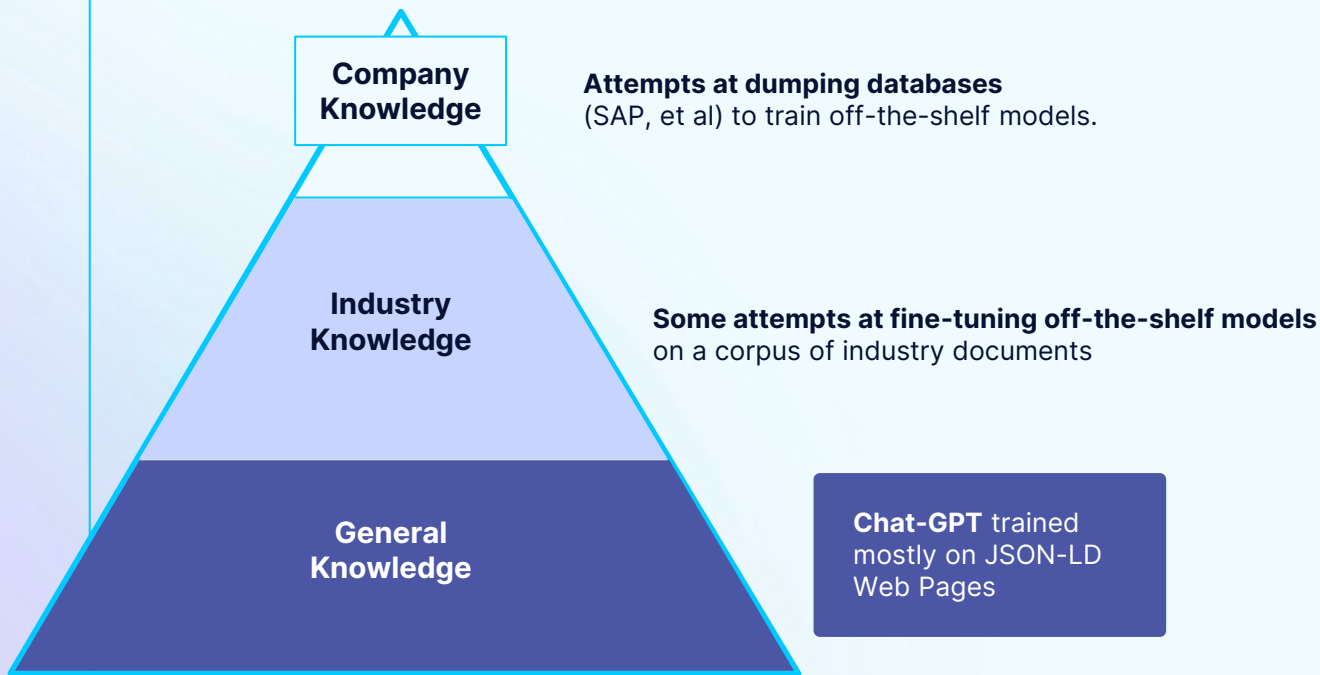
- Why Data-Centric AI? - 3 minutes
- AI in Data Governance - 5 minutes
- A Framework for Data Governance - 8 minutes
- Pharma Use Case: Improve Therapeutic Development Efficiencies
 - Data Governance for Structured Content Authoring in Collaborative Therapeutic Development - 8 minutes
- Strategies and Best Practices - 8 minutes
- Q&A - 8 minutes

AI Value Creation is Shifting to Run-Time

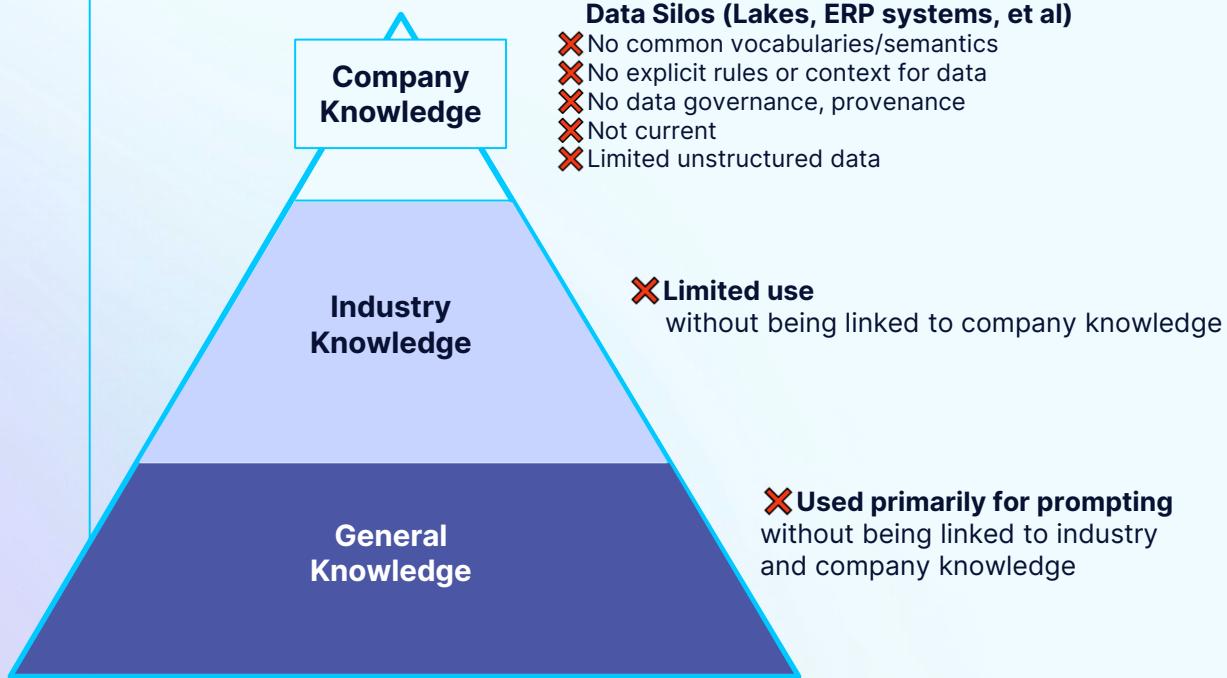
Run-Time approaches all rely on a Data-Centric Approach



Why Enterprise AI suffers



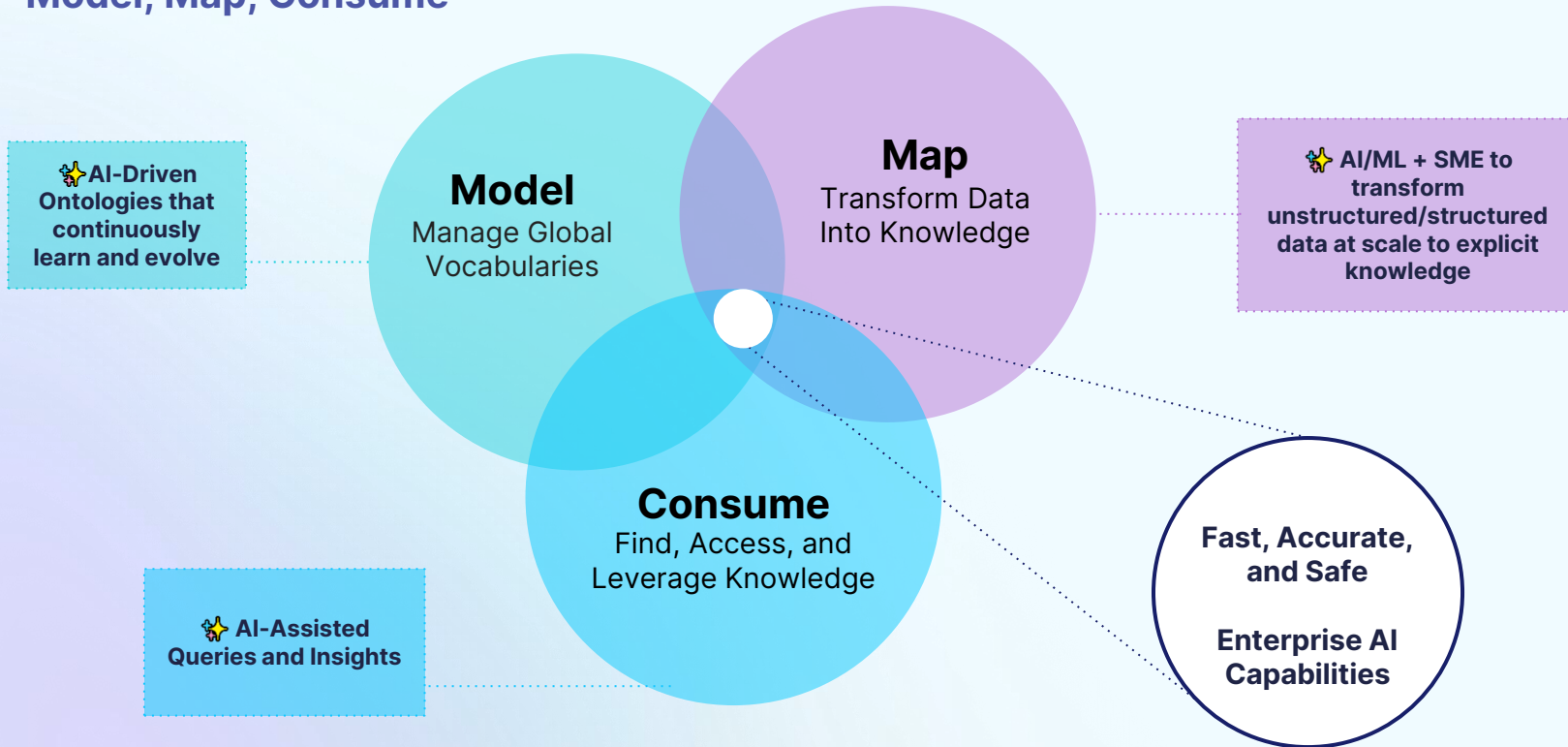
Why Enterprise AI suffers



Chat-GPT trained mostly on JSON-LD Web Pages

A Framework for Data-Centric AI

Model, Map, Consume



AI in Data Governance

Enabling accurate, trusted, and safe decisions by leveraging data as an integrated knowledge network.

- **Different Models**

- Top Down: Centralized Governance Model
- Bottom Up: Democratized to Business Units

- **Both Need a Data Centric Approach (Programmable Governance):**

- Semantics and Standards
- Provenance
- Security (Data Defending Itself)
- Quality

The Data-Centric Advantage

→ Sustainable, Reusable Data

- Instead of single-use analytics, data infrastructure is set up for any possible future analytics requirement

→ Leaves data in-place as a plug-in-play data fabric

- Faster time-to-analytics on real-time data vs slow ETL process to data lake that requires time and technical staff

→ AI Governance built-in

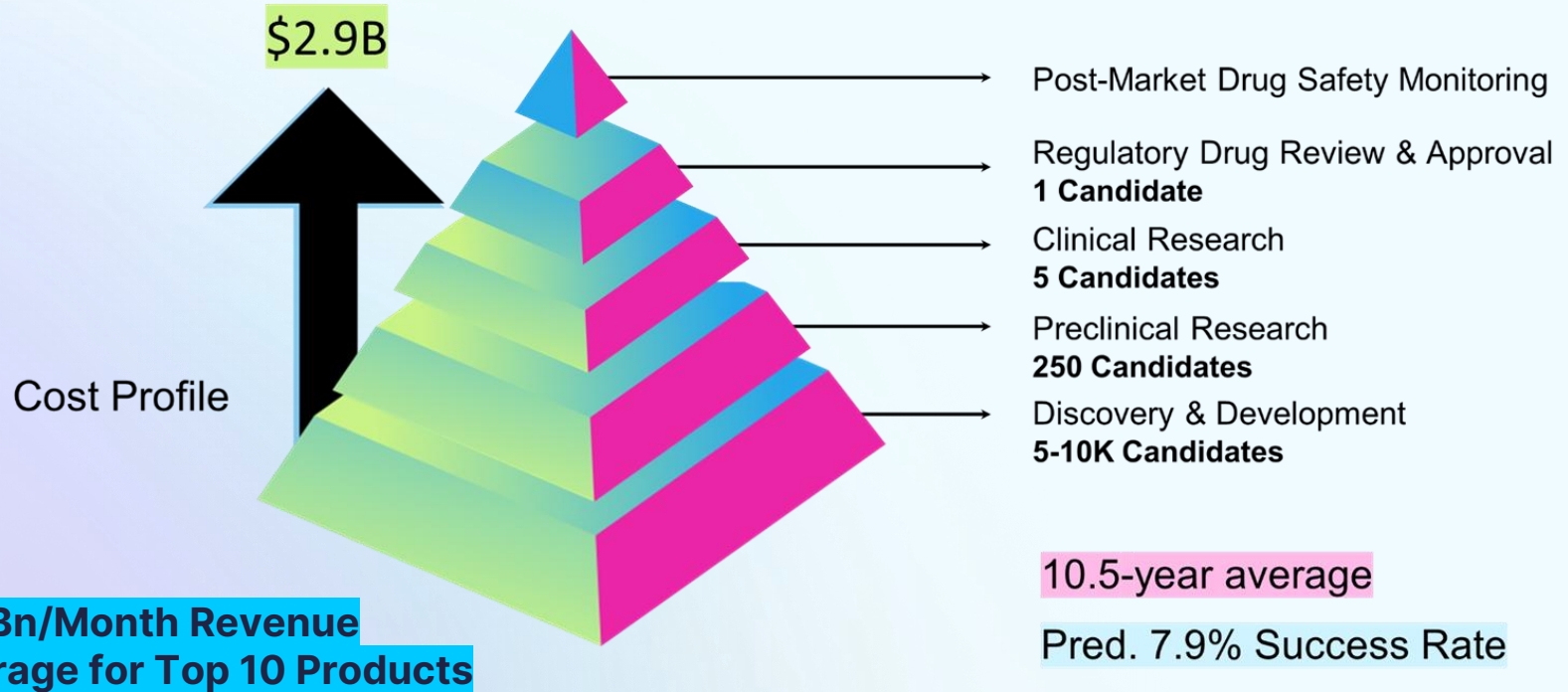
- Defend data according to centralized or decentralized governance policies

→ AI Explainability built-in

- Provenance embedded

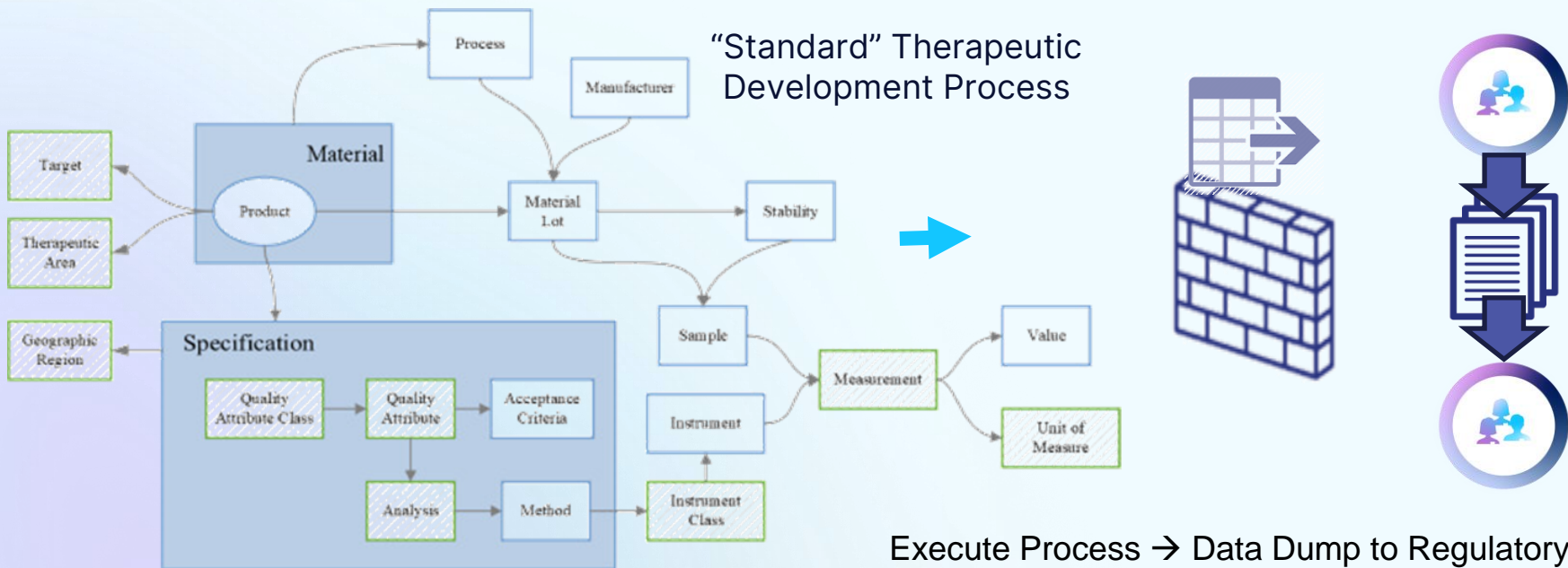
Pharma Use Case - Improve Development Efficiency

Improve Efficiency for Lengthy, Expensive Therapeutic Development



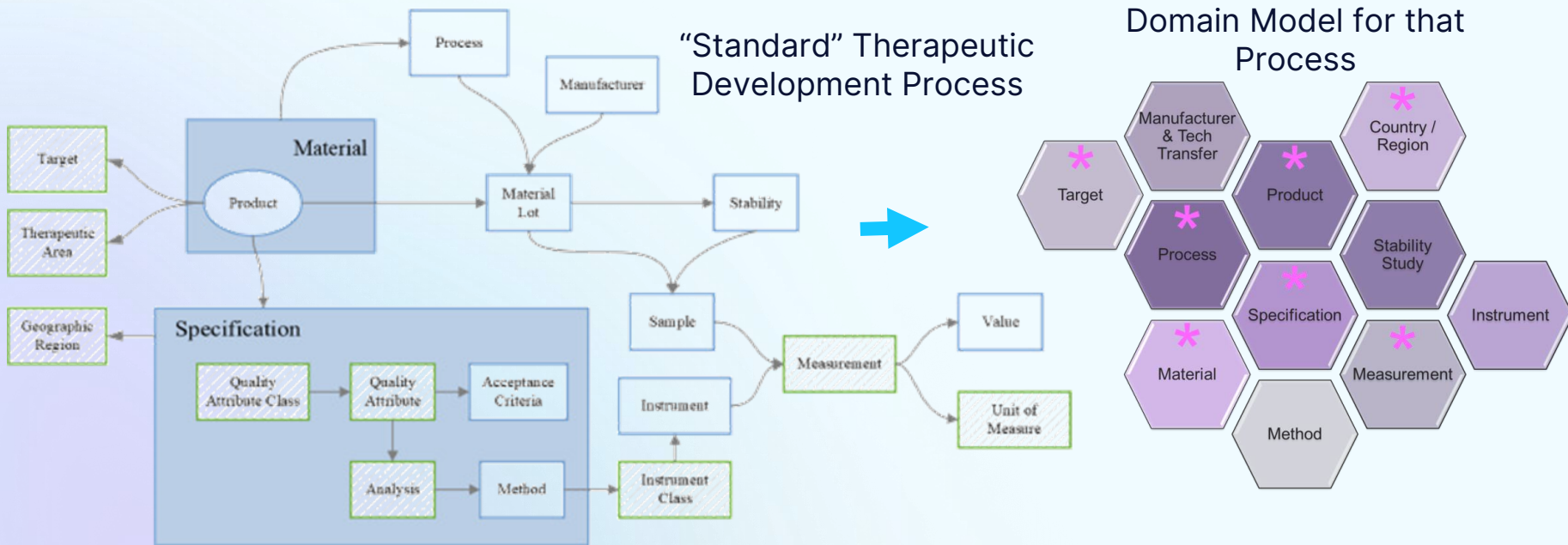
Pharma Use Case - Improve Development Efficiency

Existing Process



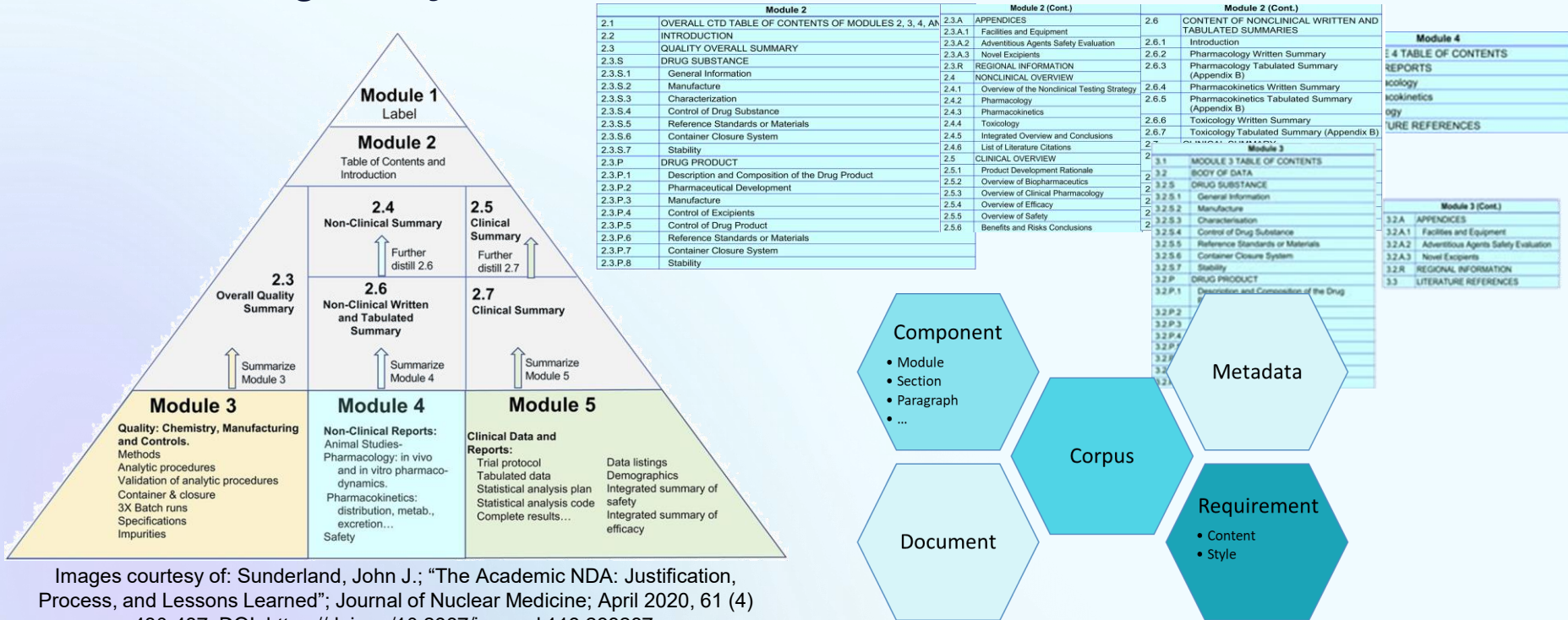
Pharma Use Case - Improve Development Efficiency

Model the Process



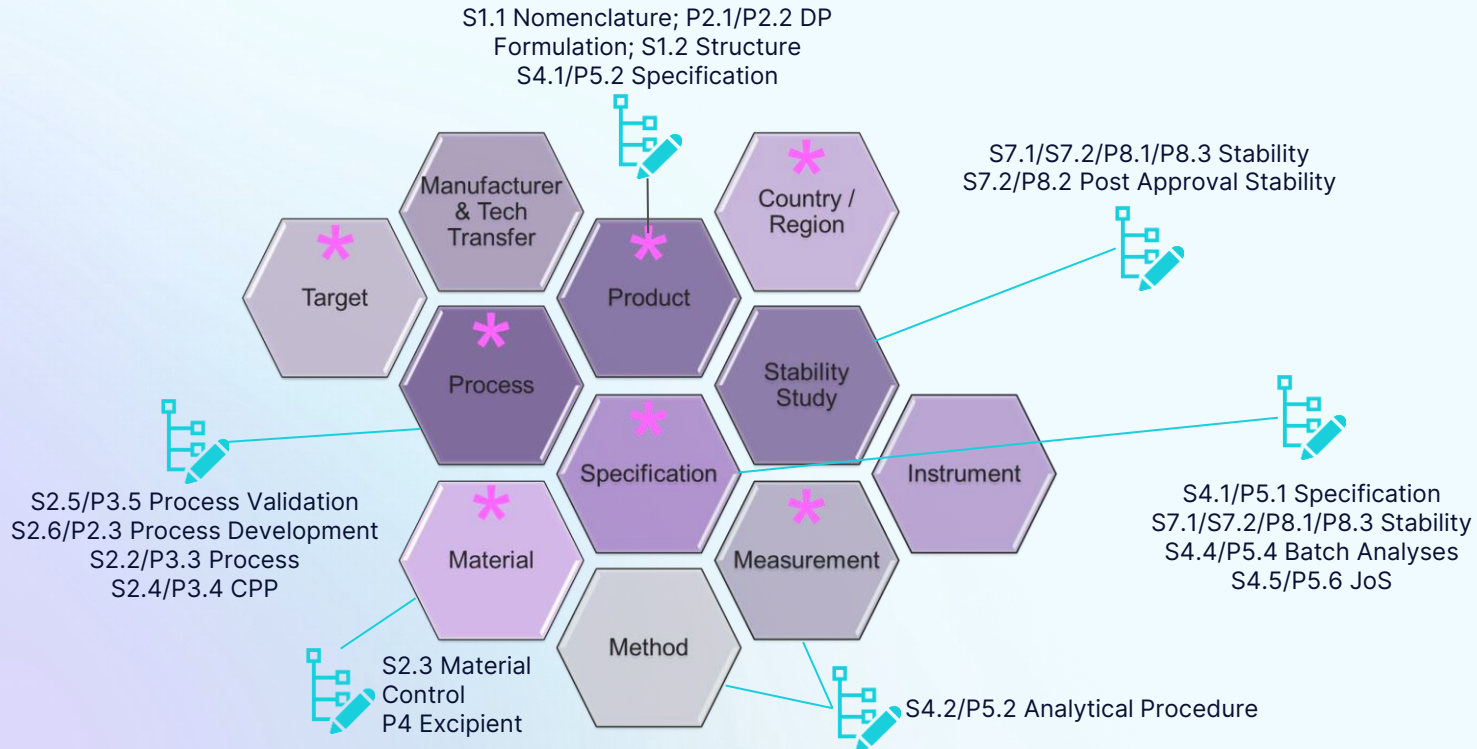
Pharma Use Case - Improve Development Efficiency

Model the Regulatory Submission



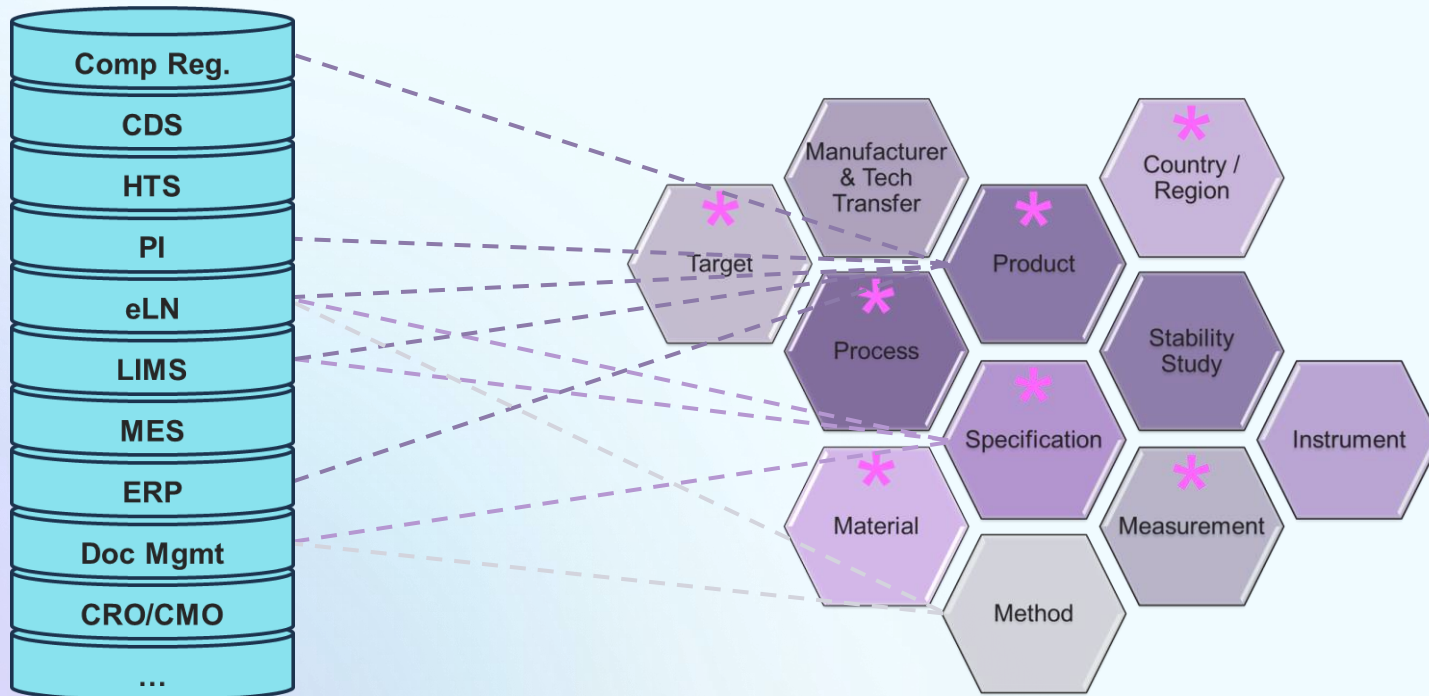
Pharma Use Case - Improve Development Efficiency

Map the Process to the Submission



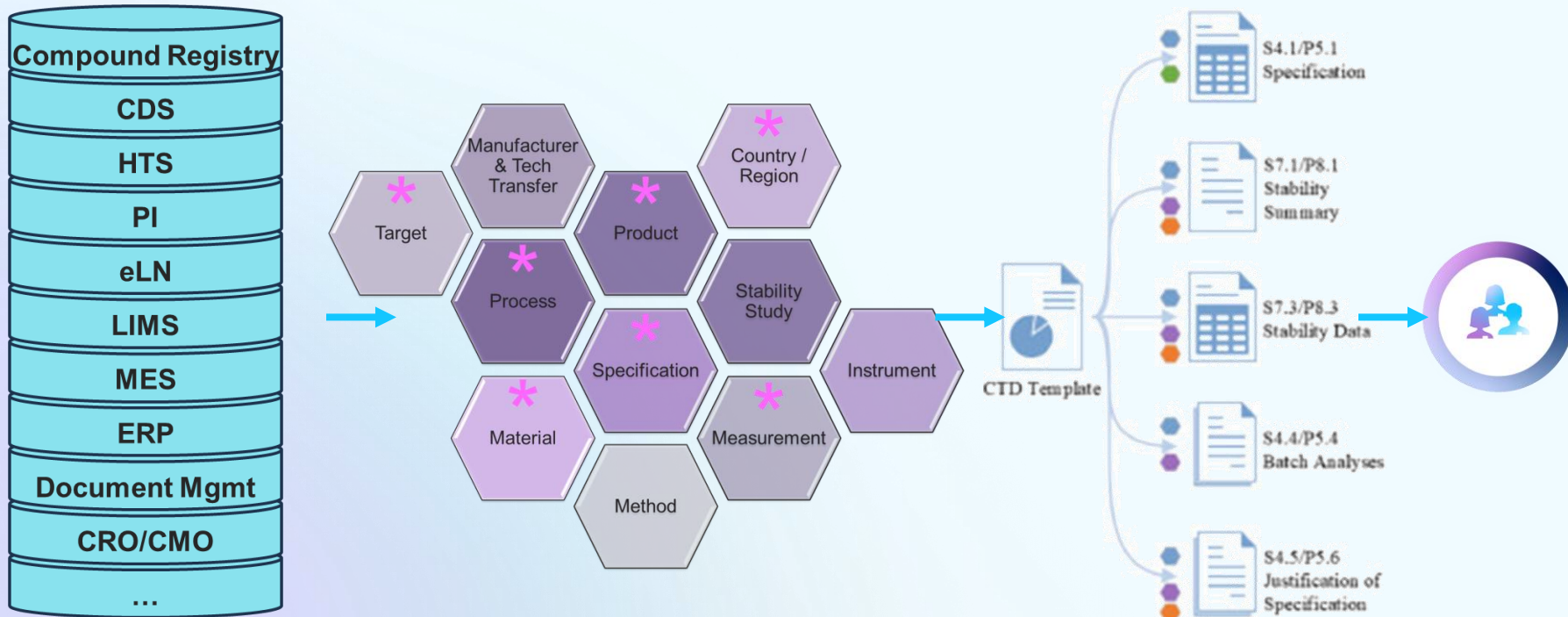
Pharma Use Case - Improve Development Efficiency

Map the Data Sources to the Model



Pharma Use Case - Improve Development Efficiency

Consume to Generate Submissions for Each Therapeutic



Through this Approach...

- **Reduce rework:** Work performed in one lab is not reworked due to lack of visibility in results achieving stated requirements
- **Leverage expert knowledge:** Human in/on the loop captures expert knowledge in the data fabric improving other tasks within the therapeutic development process
- **Improved therapeutic development efficiency:** Anticipated 10 - 15% reduction in time and costs associated with therapeutic development + reduction of 2 - 3 months in regulatory filing submission process

\$230M savings / cost avoidance per therapeutic

\$5 - 10B revenue increase in faster to market release per therapeutic

Strategies and Best Practices

- Data Governance is AI Governance
- Invest in Knowledge Representation
- Human in the loop / on the loop



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