Clinical data pipelines for data integrity and standards

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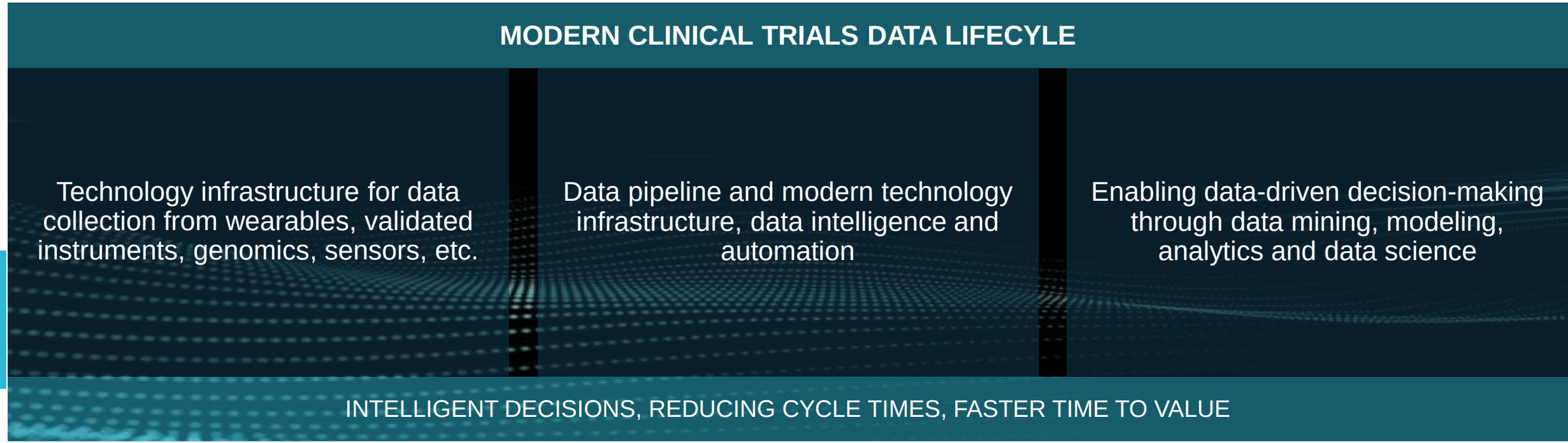
Leveraging clinical data pipelines to enable data integrity and standards governance

Enabling modern, digital and data-driven clinical trials

Foundations to power the modern clinical trial value chain requires modern technology and infrastructure, data and analytics



Clinical Data Pipeline

Building a reliable, robust and automated clinical data pipeline to reduce cycle times

Data Ingestion Automation

Automating data ingestion from a myriad of sources using event-based framework

Persisting and storing various formats of data for efficient processing

No-code Transformations

Streamlining integration and transformation workflows to better manage data assets

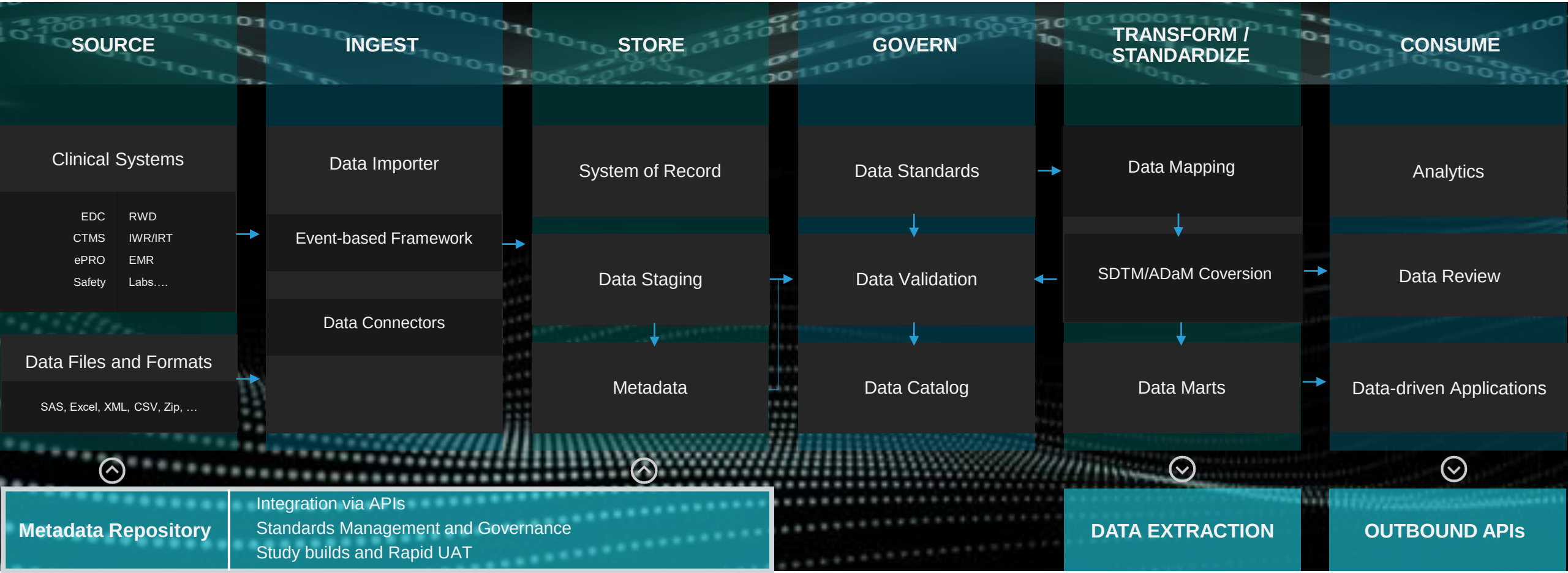
Tools to combine, curate and standardize data with built-in governance

Automated Insights and Actions

Publish data into more analysis-ready formats for downstream analytics

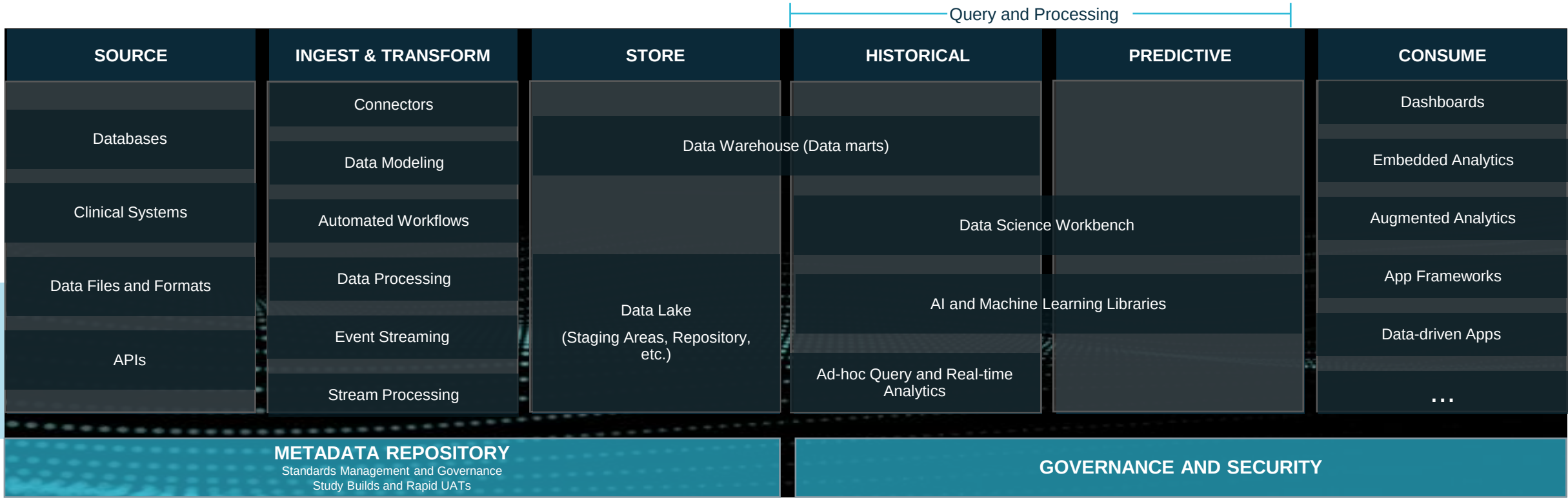
Analytics-ready data for quick and easy consumption across variety of use cases and external systems

Scaling clinical data pipeline automation for faster standardization and governed access to data for analytics



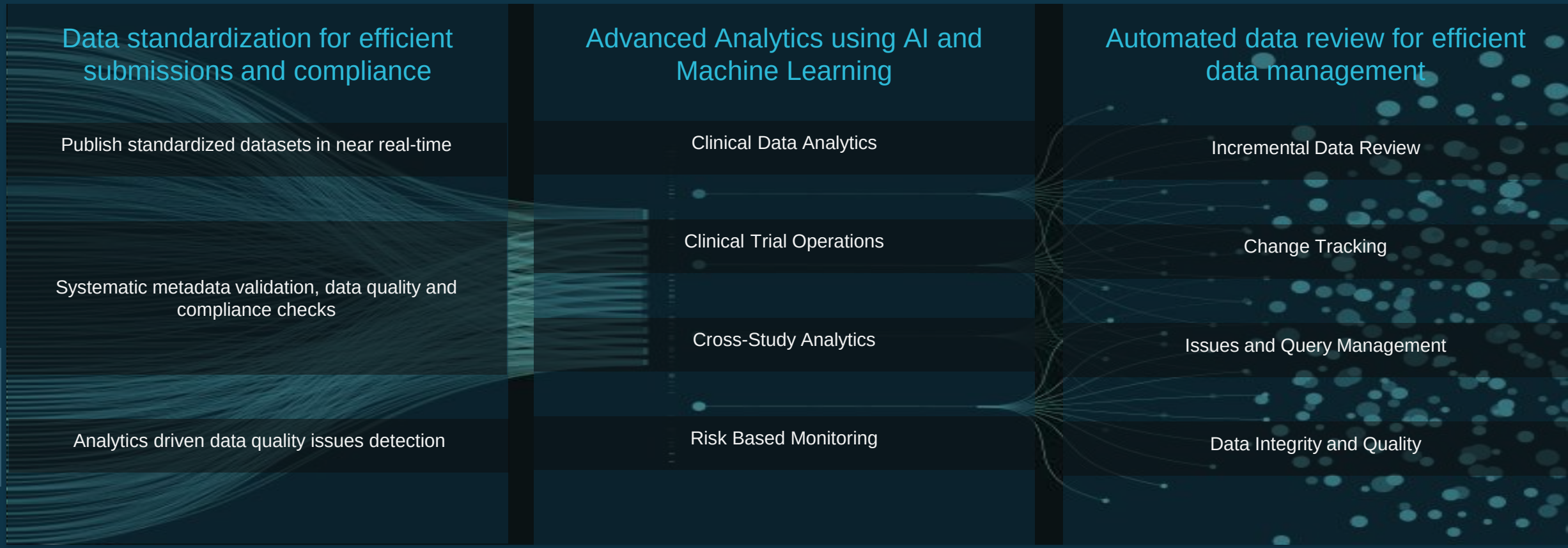
Unified architecture for modern data infrastructure and data pipelines – “clinical data lakehouse?”

Scaling clinical data pipeline automation for faster standardization and governed access to data



Reference: https://a16z.com/2020/10/27/blueprints-for-data-infrastructure-lakehouse-storage-data-is-not-the-new-oil-more/

Automating a clinical data pipeline enables data-driven actions and decisions for better outcomes



Industry is rapidly evolving to modernize clinical trials and with it….

1

Novel approaches to modernize clinical trials

Build a robust data and technology strategy with defined business outcomes for pervasive transformation and automation

2

Leverage standards-based technology to manage the increasing volume of data

Taking a more end-to-end approach to build fully automated data pipelines leveraging a Clinical Data Platform or Data Hub rather than point solutions

3

Invest in an interoperable ecosystem of tools, technology and clinical systems

Ensuring interoperability between clinical systems and flexibility to fit with existing infrastructure to manage shifts in industry trends

Thank you

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Scale automation with data standardization and data pipelines

Faster time to value, managing clinical trials efficiently with less effort and better quality

DATA STANDARDS

Technology to standardize data for interoperability, reusability, quality and faster submissions

DATA CENTRICITY

Creating value with democratized data as a primary asset, delivering faster insights

DATA PLATFORM

Modular and reusable platform-based architecture to scale, accelerate and innovate