



Enabling the Interoperable Data Ecosystem with the illuminate Clinical Data Cloud



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Meet the Speaker

Nathan Johnson

Vice President, Digital Innovation
eClinical Solutions

- 20 years experience in clinical research as a SAS programmer and innovator.
- expertise in statistical analysis and reporting, standards development, and data management.
- passionate about reshaping clinical trials through digital transformation, intelligent technology, and increased automation.
- degree in biostatistics from Case Western Reserve University.



Data Ecosystem

Ecosystem

the complex of living organisms, their physical environment, and all their interrelationships in a particular unit of space.



Data Ecosystem

Data Ecosystem
the complex of tools and applications, their architecture, and all their interrelationships to facilitate data processing, storage, and analysis.



Data Ecosystem Components

General Business Data Ecosystem

- Ingestion
- Storage
- Analysis
- Consumption

Data Science Data Ecosystem

- Sensing
- Collection
- Storage
- Wrangling
- Analysis

Richard Allen, SelectHub,
<https://www.selecthub.com/big-data-analytics/big-data-components/>

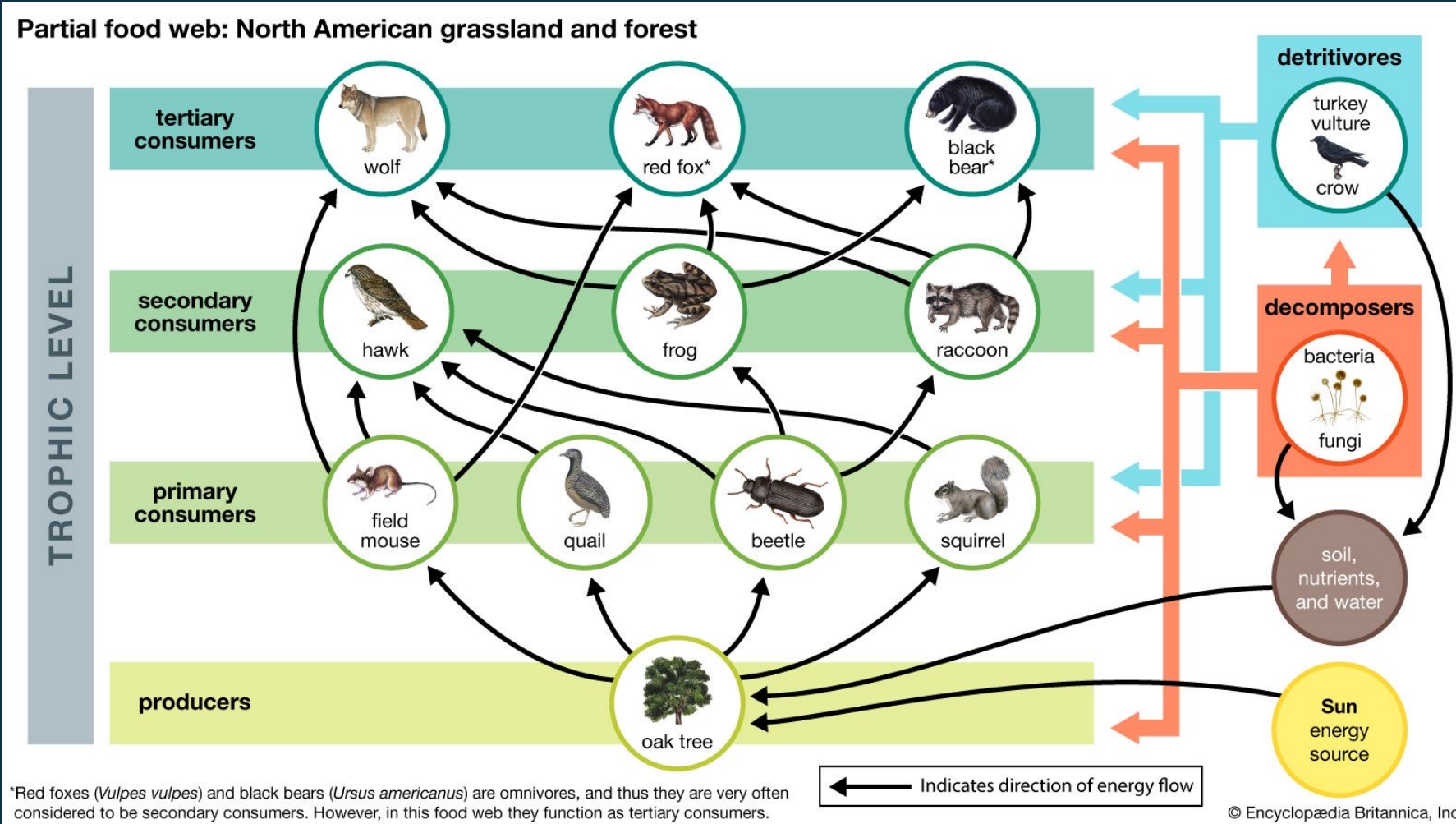
Tim Stobierski, Harvard Business School
<https://online.hbs.edu/blog/post/data-ecosystem>



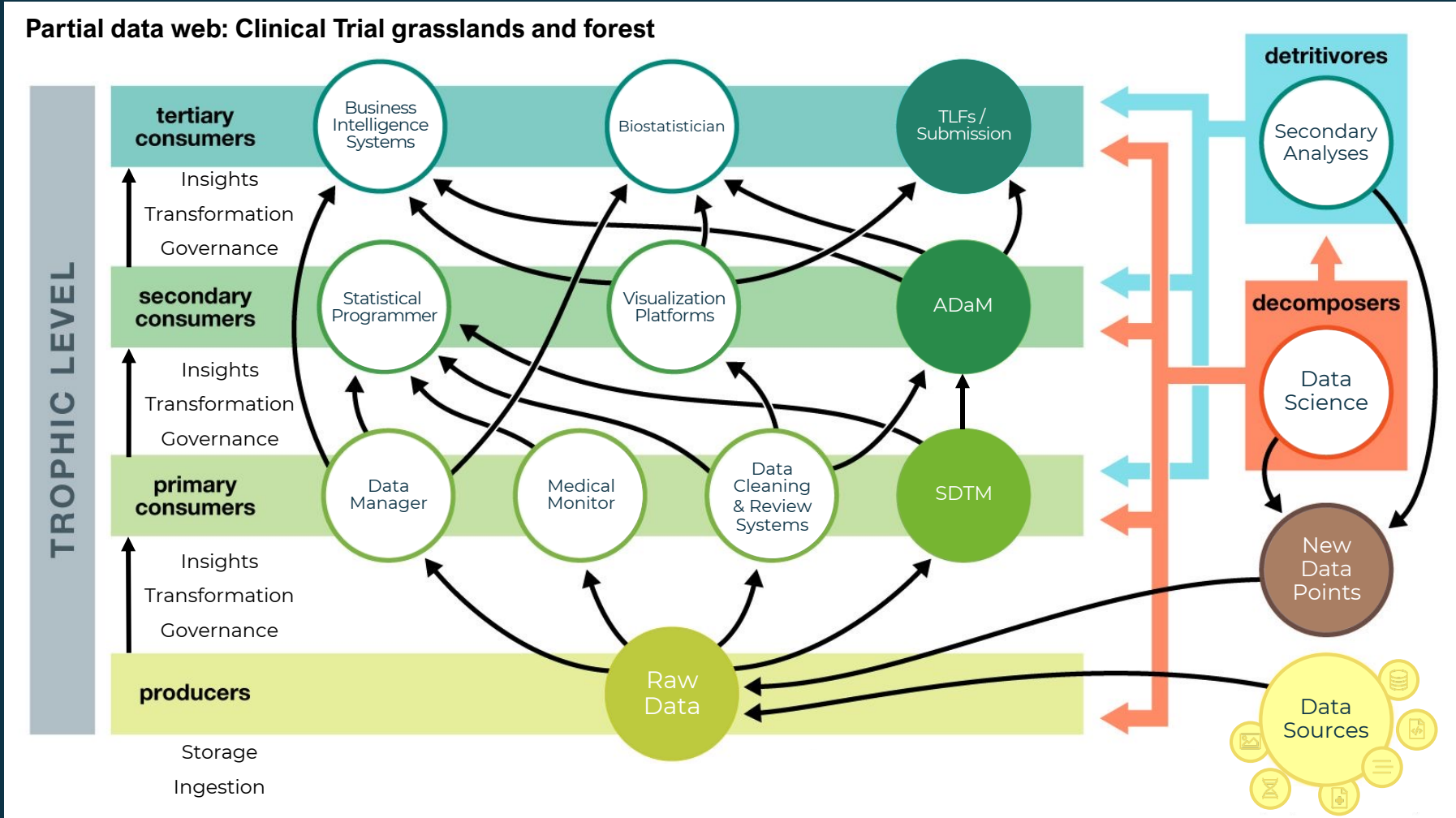
Clinical Trial Data Ecosystem



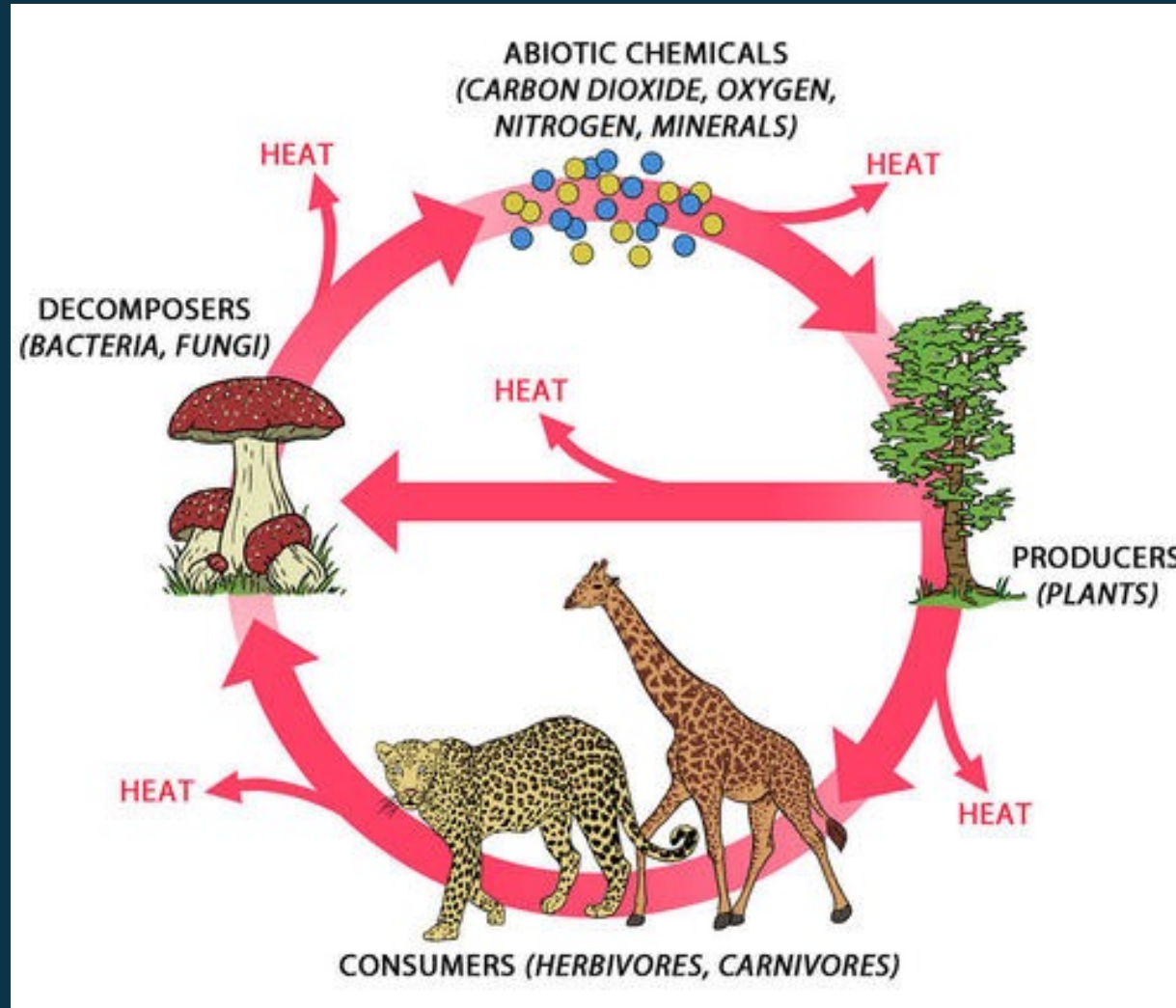
Ecosystem Interactions



Data Ecosystem Interactions



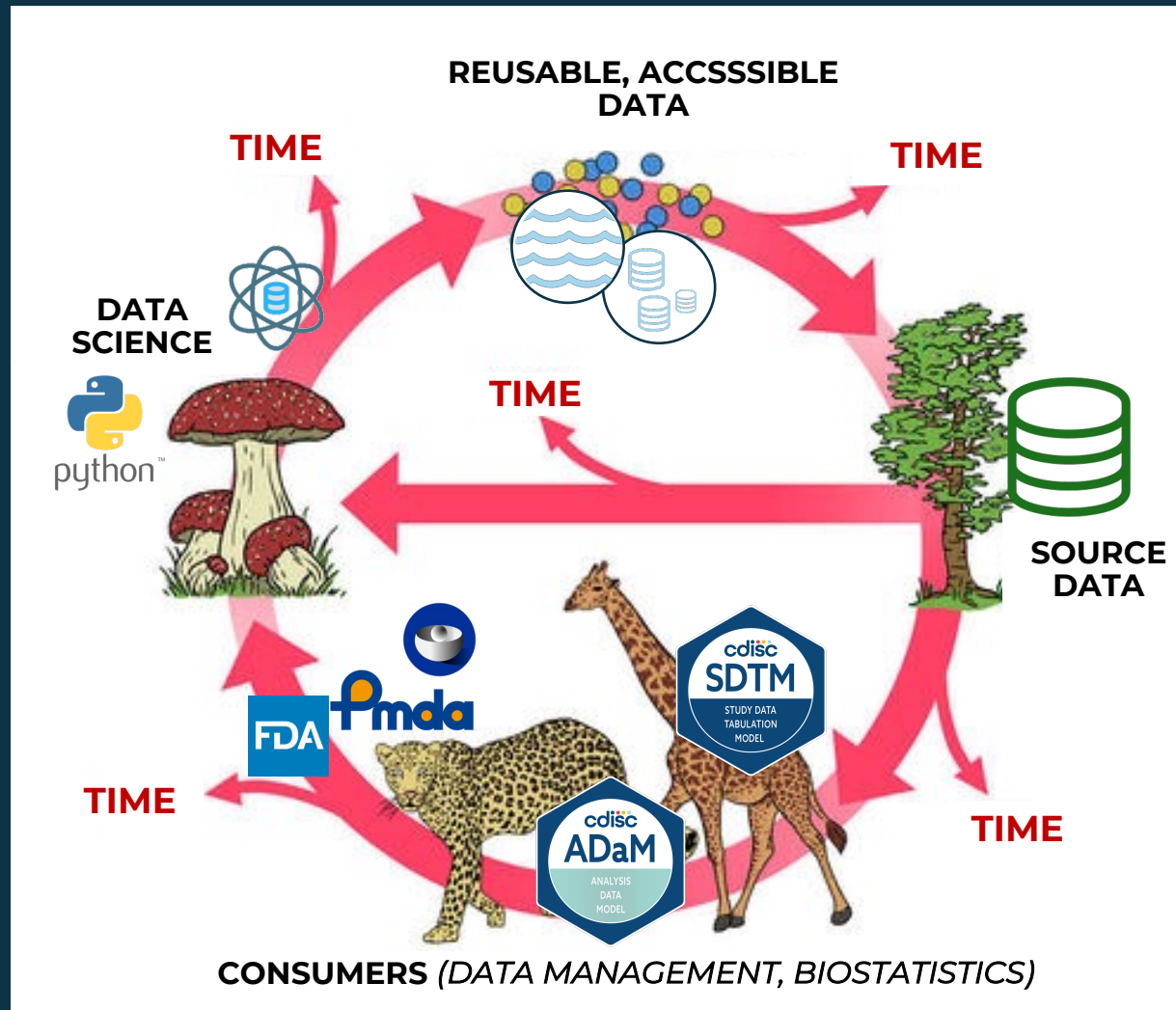
Ecosystem Energy Flow



Credit: Laura Guerin
Source: CK-12 Foundation
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Data Ecosystem Data Flow



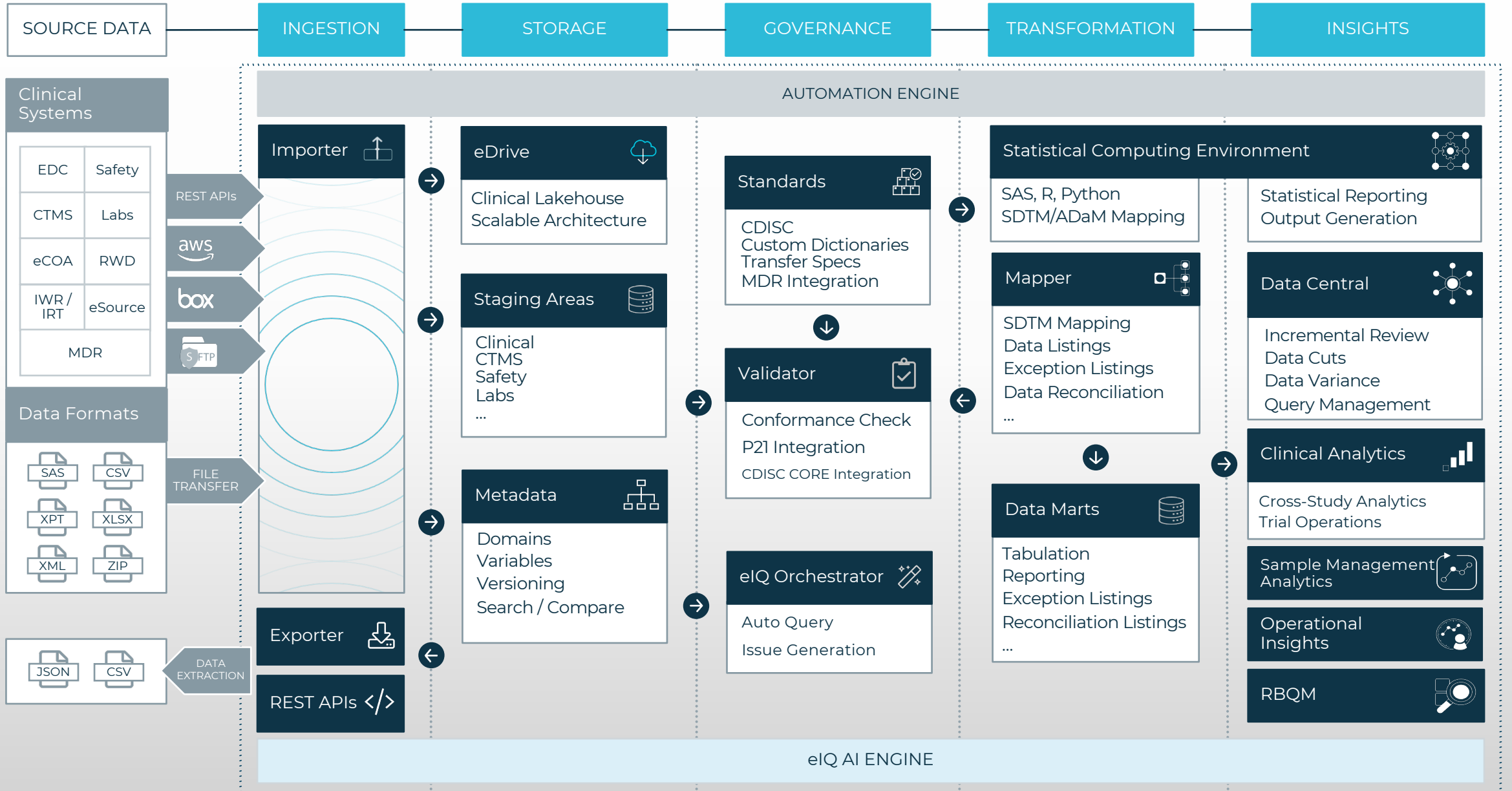
Credit: Laura Guerin
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Supporting Data Flow in Modern Clinical Trial Ecosystems







Demonstration



Questions

Thank you!

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