

Data Standardization at Scale with the elluminate Clinical Data Cloud

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Introduction



Nathan Johnson

Vice President, Digital Innovation
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- 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.



Agenda

- *Problem Statement:* Data Chaos
- *Solution:* illuminate[®] Clinical Data Platform
 - Source-agnostic Ingestion
 - Standards Compliance
 - Low-/No-code Transformations
- Summary and Questions



Data Chaos



Data increasing in **Volume**

“

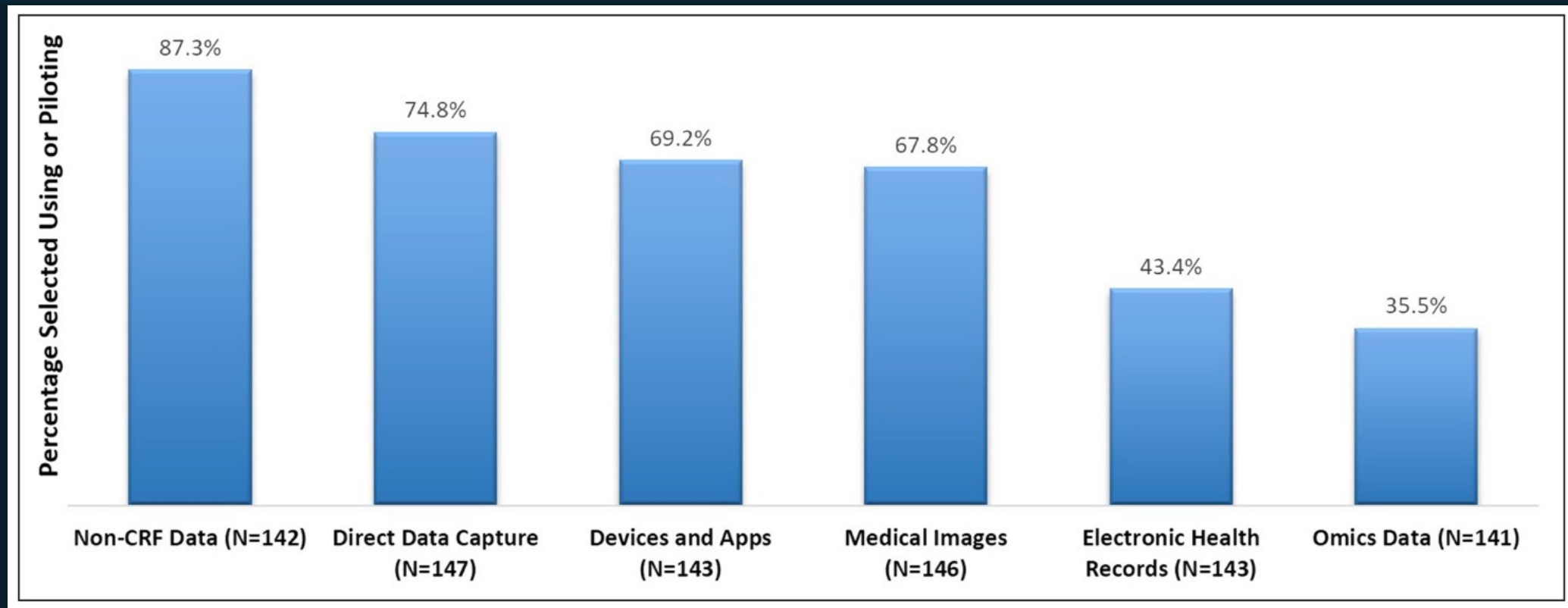
The typical Phase III protocol
now collects more than
one million data points,
double the level
observed 10 years ago.

”

Reference: Getz, Surmounting eClinical Data Volume and Diversity, *Applied Clinical Trials*, 2018

Data increasing in **Complexity**

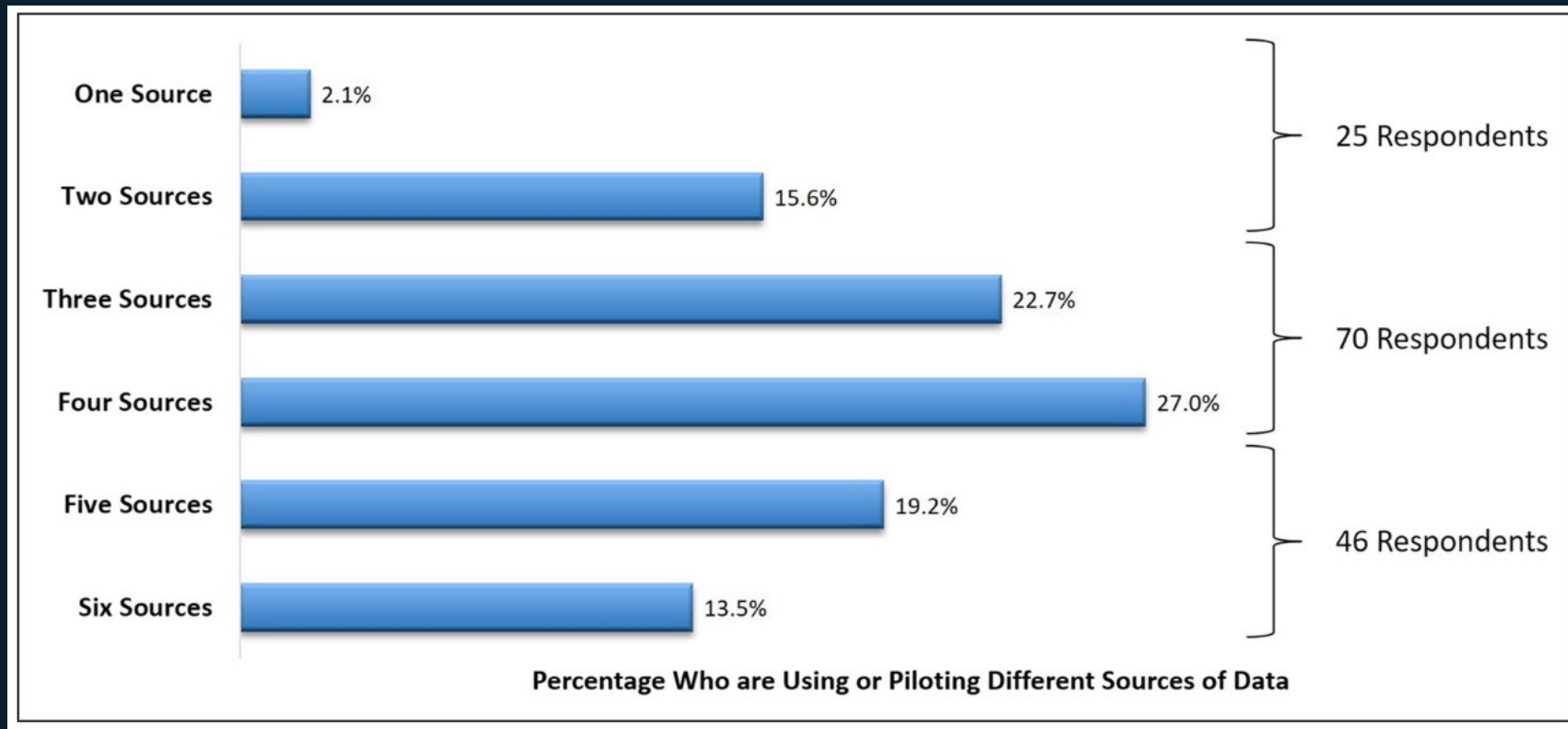
Clinical Data Sources Used or Piloted in Evaluations



Reference: Tufts-eClinical Solutions Data Strategies and Transformation Study, 2019

Data increasing in **Variety**

Number of Data Sources Used or Piloted in Clinical Trials



“On average, companies report using six unique applications to support each clinical study.”

Reference: Tufts-eClinical Solutions Data Strategies and Transformation Study, 2019

Getz, Surmounting eClinical Data Volume and Diversity, *Applied Clinical Trials*, 2018

Combating Data Chaos

“

The major challenges associated with data integration, coordination, accessibility, and compatibility must be confronted.

”

Getz, Surmounting eClinical Data Volume and Diversity,
Applied Clinical Trials, 2018

“

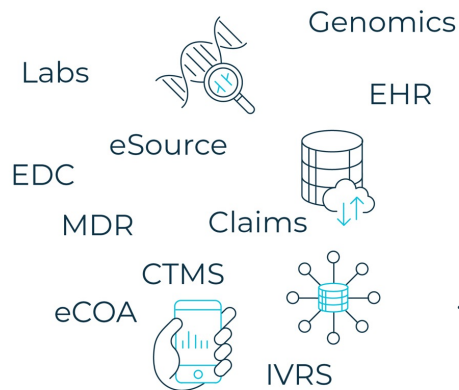
Without ... additional mitigation techniques in this area, database lock cycle times are likely to continue to increase.

”

Tufts-eClinical Solutions Data Strategies
and Transformation Study, 2019



DATA SOURCES



FORMATS



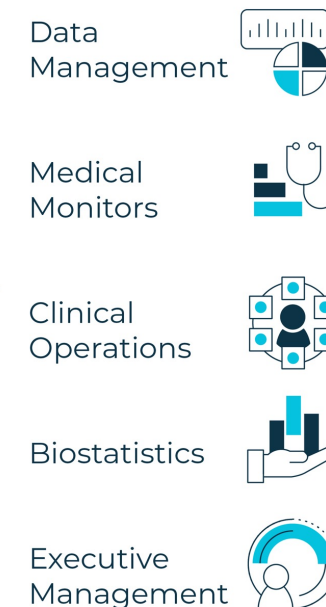
DATA INGESTION, MAPPING & STORAGE



INTELLIGENT APPLICATIONS



DATA CONSUMERS



MDR
CDR ODR

One platform for clinical and operational data from ingestion to insights -across all data sources



Demonstration



Source-agnostic Data Ingestion

Compliance to Industry or Custom Standards

Data Transformations Without Code

Founded
in
2012

100+
Customers

350+
Employees

Offices:
U.S.,
Europe,
India

eClinical

Our Mission

To make clinical research data acquisition
easy and intelligent to help bring new
treatments to patients faster.



Questions?



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Thank you

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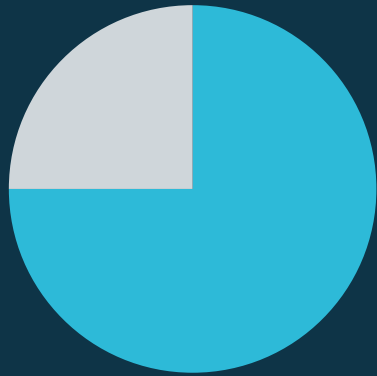
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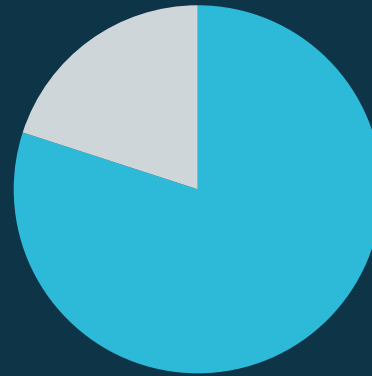
Supplemental Slides

Clinical Development Today



75%

Still use SAS and Excel to
integrate data



<80%

Consider data operations
well-suited for automation



40%

Increase in LPLV to
database lock cycle times

Reference: Tufts-eClinical Solutions Data Strategies and Transformation Study, 2019

SDTM Mapping Success with elluminate[®] Mapper

