

# Transform Your Clinical Trial Data Infrastructure

Discover how the ACDM's Technology DMEG is revolutionizing clinical trial data engineering, and join the group to unlock scalable, integrated solutions for tomorrow's trials.

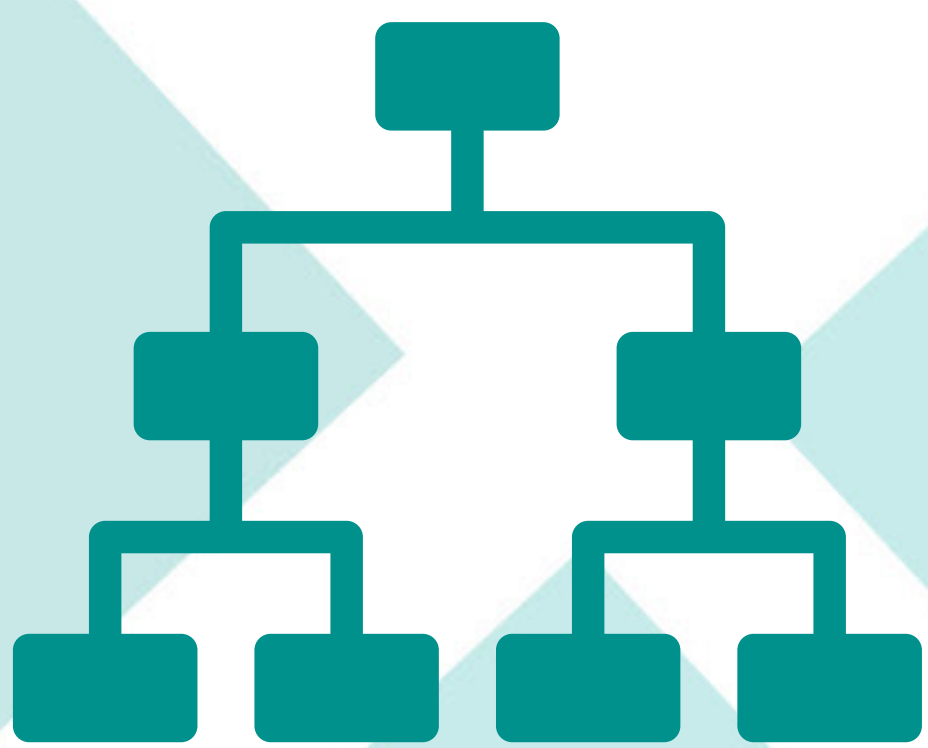
**acdm**   
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# Why Clinical Data Infrastructure Needs Evolution



## **Increasing Trial Complexity**

Decentralized studies require robust data handling capabilities



## **Multi-Source Integration**

Real-world data and digital health technologies creating new streams



## **Compliance Challenges**

Evolving regulatory requirements across global regions

# Real-Time Data Integration Frameworks

## Continuous Data Streaming

Near real-time processing of patient data from wearables and remote monitoring devices



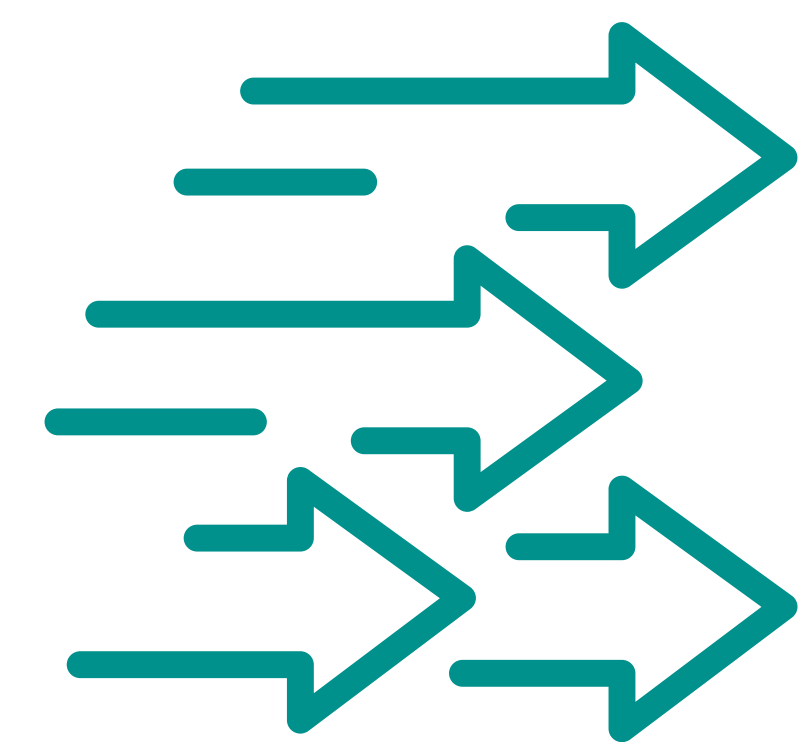
## Unified Data Views

Harmonized representations across EDC, EHR, and patient-reported outcomes



## Adaptive Integration

Responsive systems that adjust to changing data source configurations



# Metadata-Driven Pipeline Design



## **Design**

Metadata templates define data flows



## **Automate**

Self-configuring pipelines reduce manual coding



## **Scale**

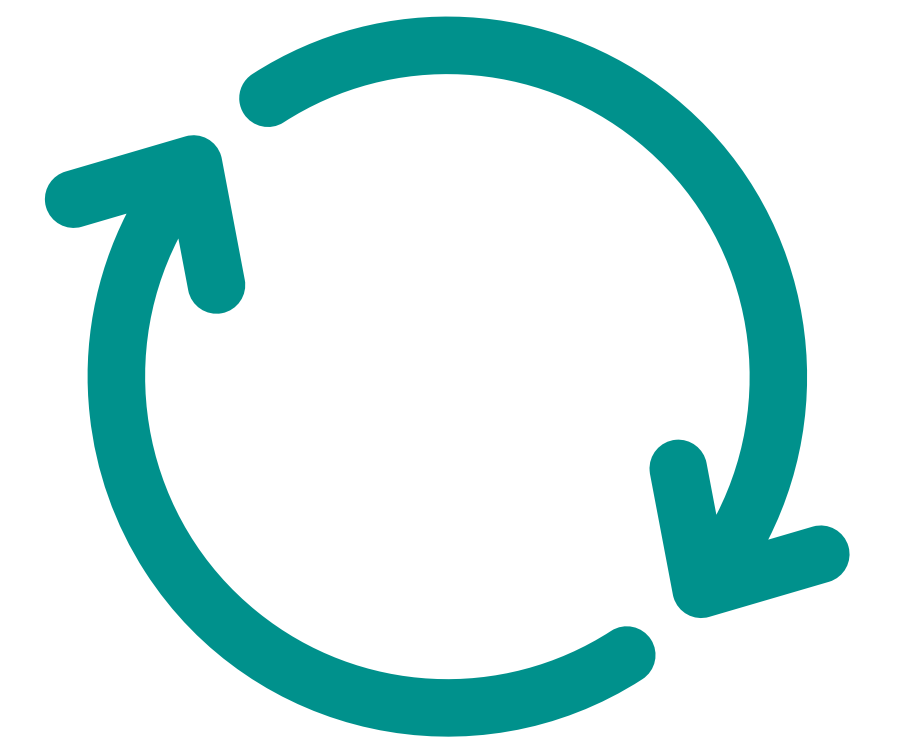
Rapid deployment across multiple studies

*Reduce pipeline development time by 75% with metadata-driven automation*

# Standardization & Interoperability

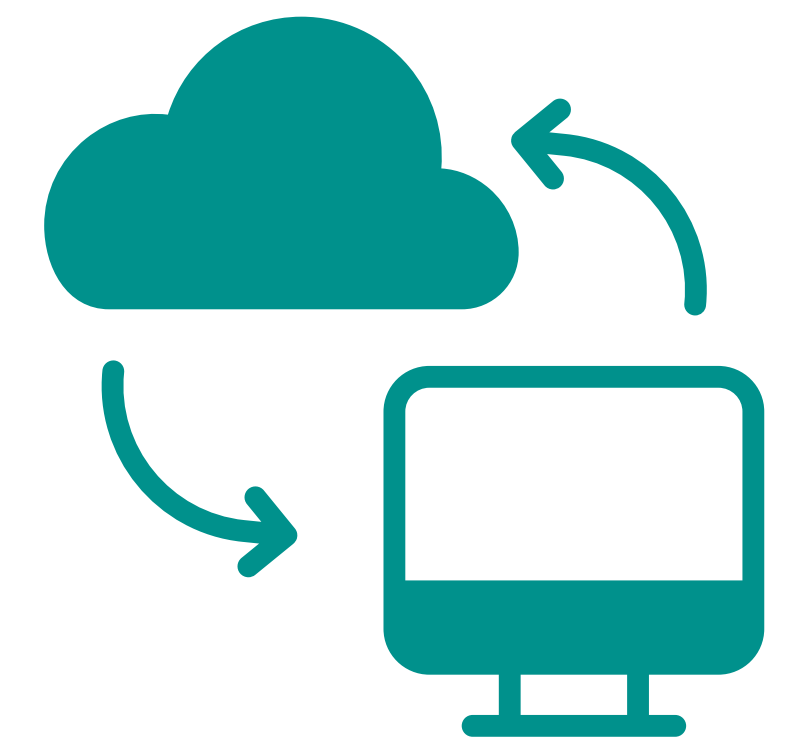
## Industry Standards Integration

Seamless adoption of CDISC, FHIR, and HL7 standards



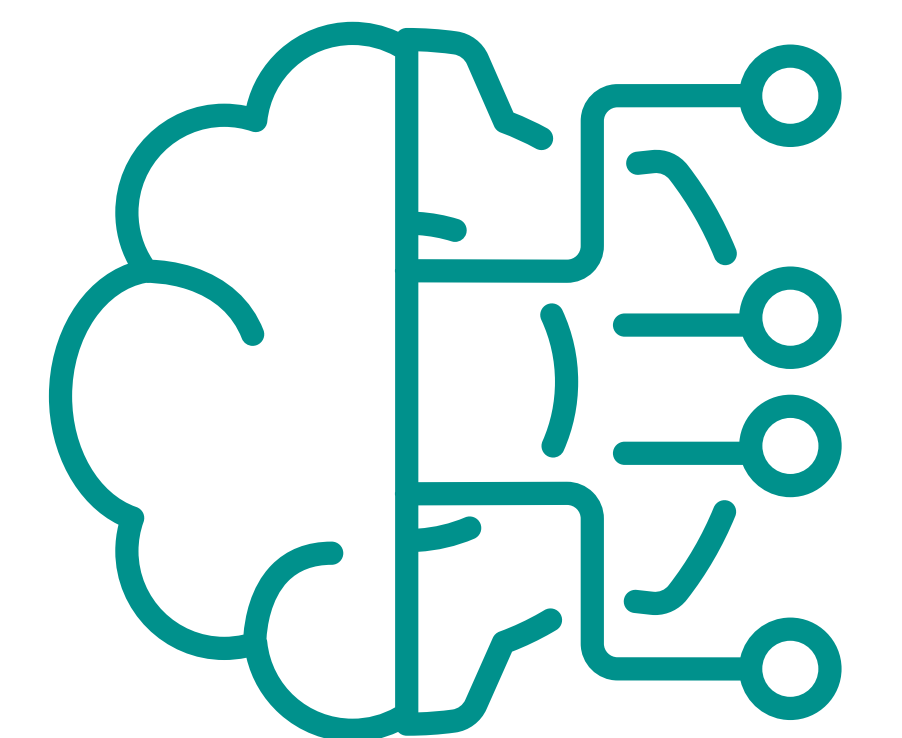
## Cross-Platform Compatibility

Unified data exchange between sponsor and vendor systems



## Future-Ready Architecture

Extensible frameworks adaptable to emerging standards



# Privacy & Compliance By Design

## Data Protection

End-to-end encryption and access controls

## Global Regulations

GDPR, HIPAA, and regional compliance

## Audit Trails

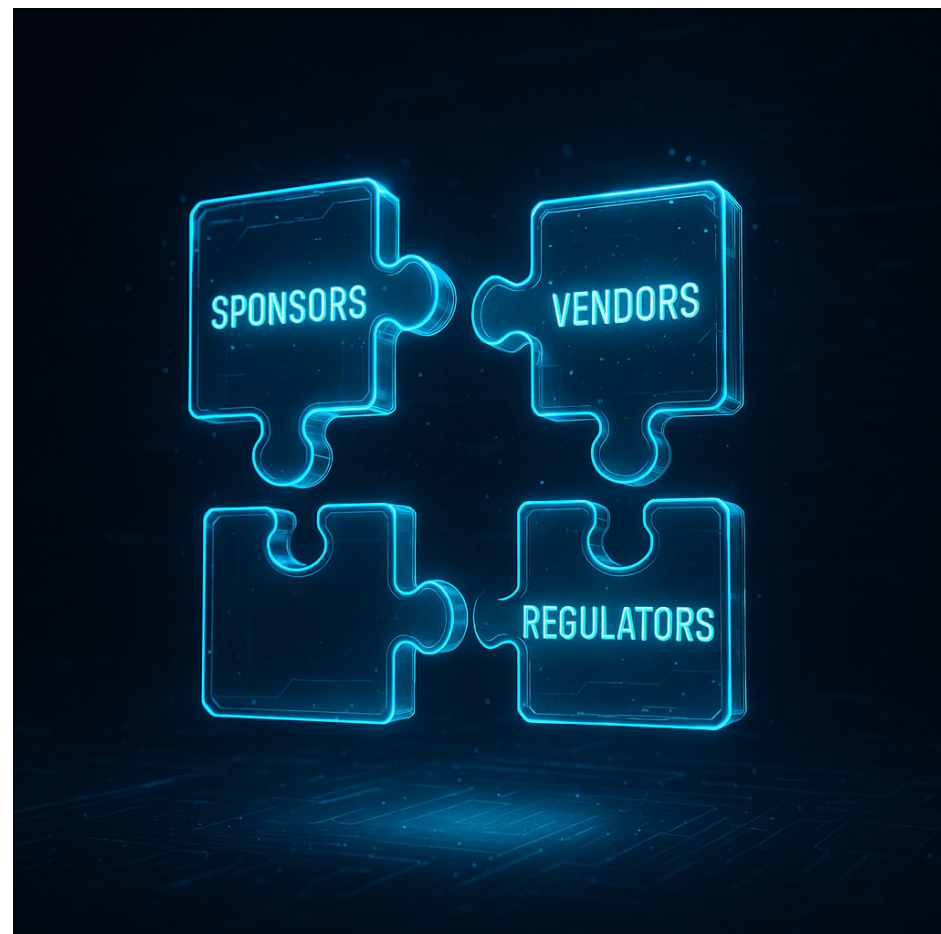
Immutable records of data transformations

## Risk Assessment

Continuous monitoring for compliance gaps



# Collaborative Knowledge Ecosystem



## Cross-Stakeholder Collaboration

Forums connecting sponsors, vendors, and regulators to share insights

## Skill Development

Training programs to build data engineering expertise in clinical settings



## Open Resources

Shared tools and frameworks to accelerate adoption





# Join The Clinical Data Engineering Revolution

The Technology DMEG is shaping the future of clinical trial data infrastructure. Ready to contribute to this transformation?

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