

ADDRESSING RESEARCH DATA CHALLENGES

Transforming fragmented, health data into a unified, research asset.



OCTILYON

**BUILDING A BETTER
TOMORROW
TOGETHER**

**THE WORLD
ECONOMIC
FORUM
ESTIMATES**

**97% OF HOSPITAL
& VETERINARY
DATA GOES
UNUSED**

THE HIDDEN COST OF DATA INEFFICIENCIES IN RESEARCH

80%

of research time is spent on data cleaning and formatting instead of actual analysis

(source **Harvard Business Review**).

50%

of health research data is unstructured, making integration difficult

(source **IDC**).

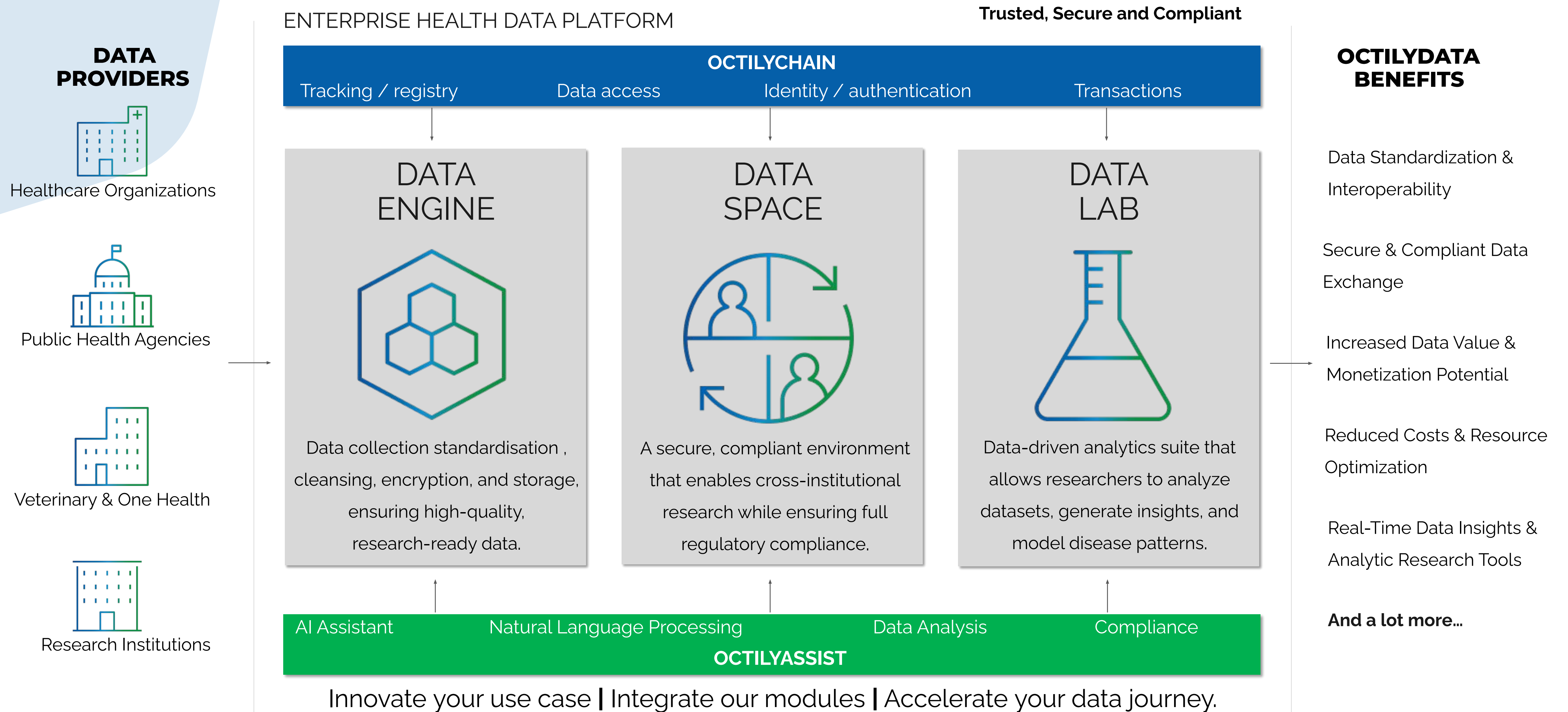
xM+

Multi-institutional studies are delayed by 6-12 months due to incompatible data formats

(source **McKinsey**).

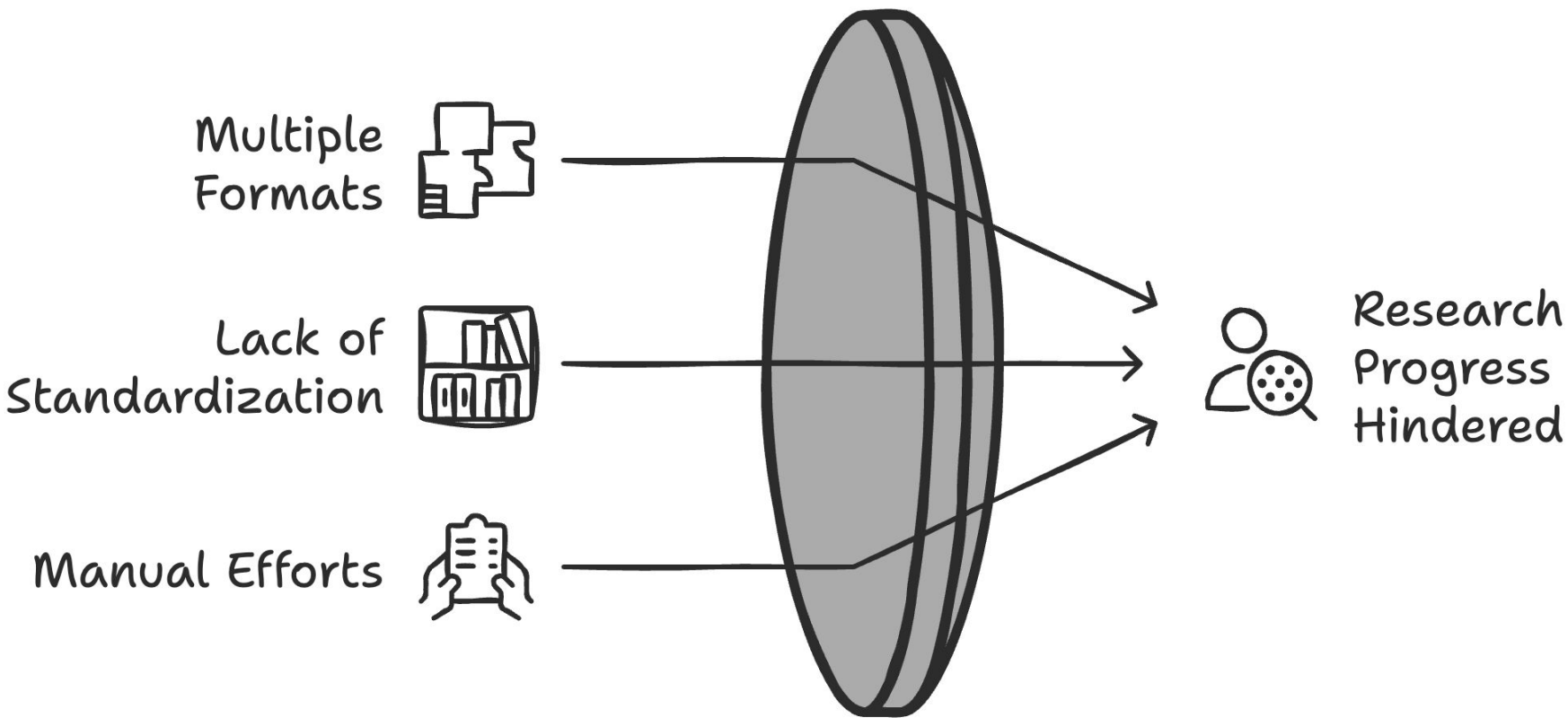
CREATE YOUR OWN HEALTH DATA JOURNEY

3



CHALLENGE #1 – DATA FRAGMENTATION & STANDARDIZATION

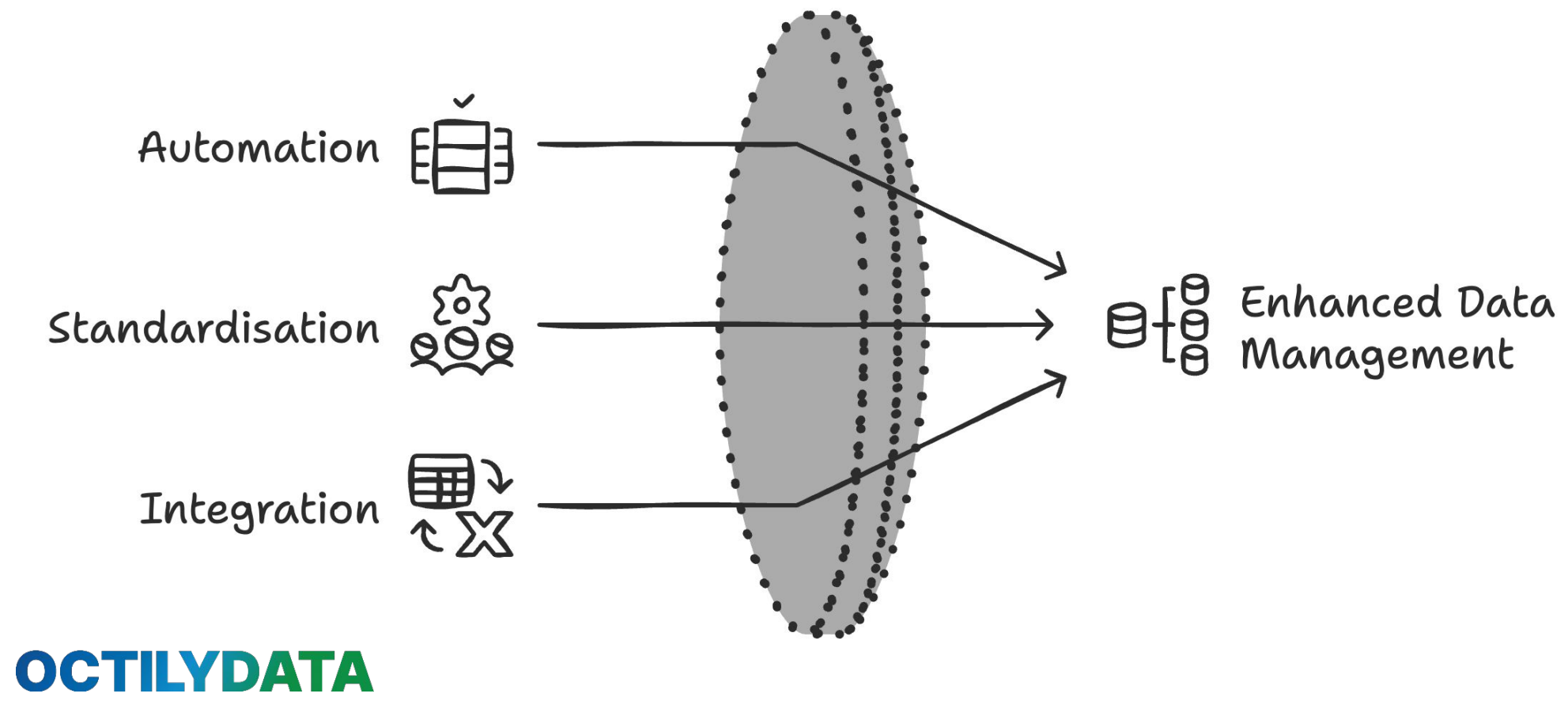
Challenges in Health Data Integration



Unstructured & Disconnected Data Hinders Research

- Health data exists in multiple formats across institutions, creating silos.
- Lack of standardized coding systems leads to inconsistent findings.
- Time-consuming manual efforts to unify datasets slow progress.

Octilyon Impact on Data



+90%

Automates **90%** of data standardization, reducing manual work

10+

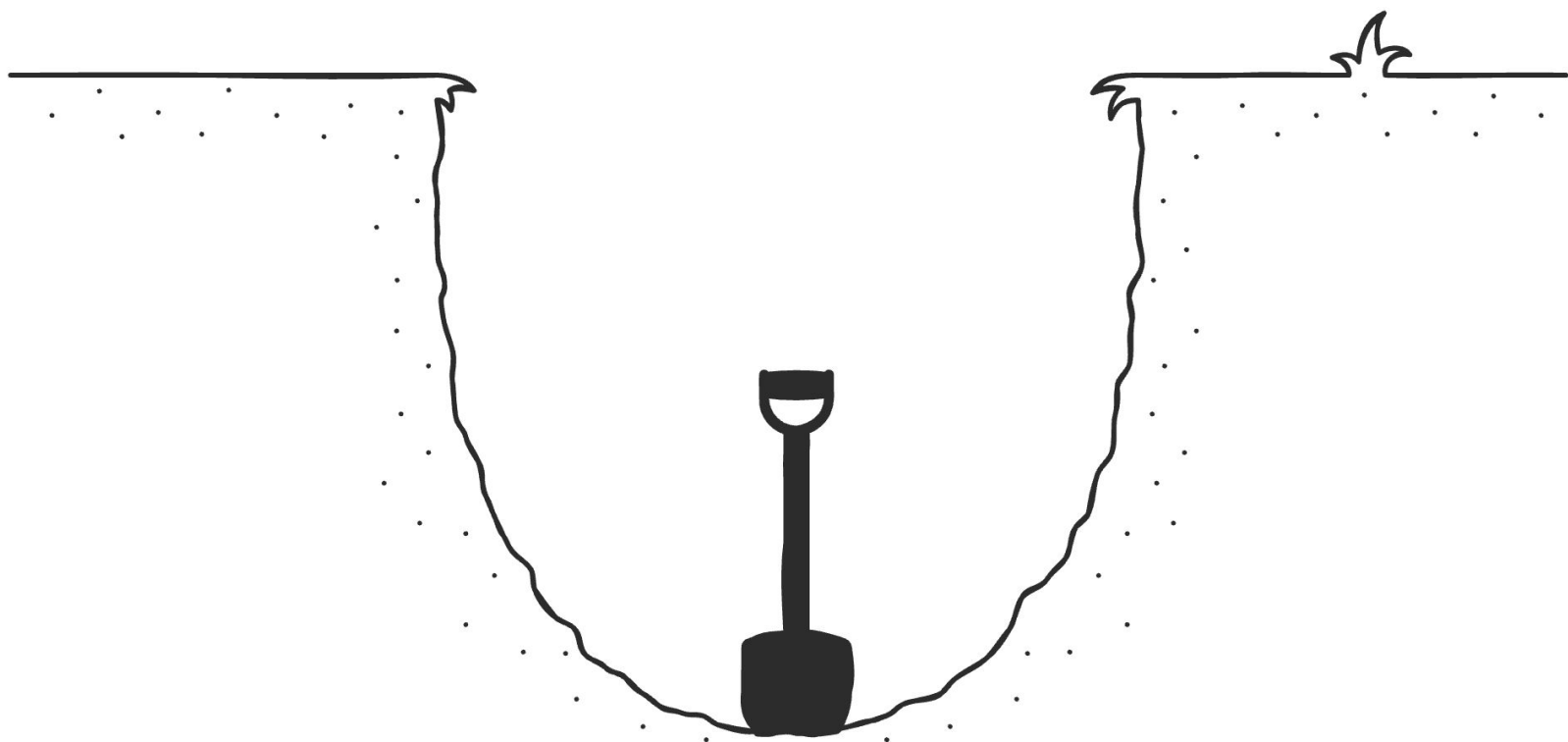
Human & Animal Data Exchange & Interoperability Standards

400+

Integrates data from **400+** sources & map to a data standard

CHALLENGE #2 – REGULATORY & COMPLIANCE BARRIERS

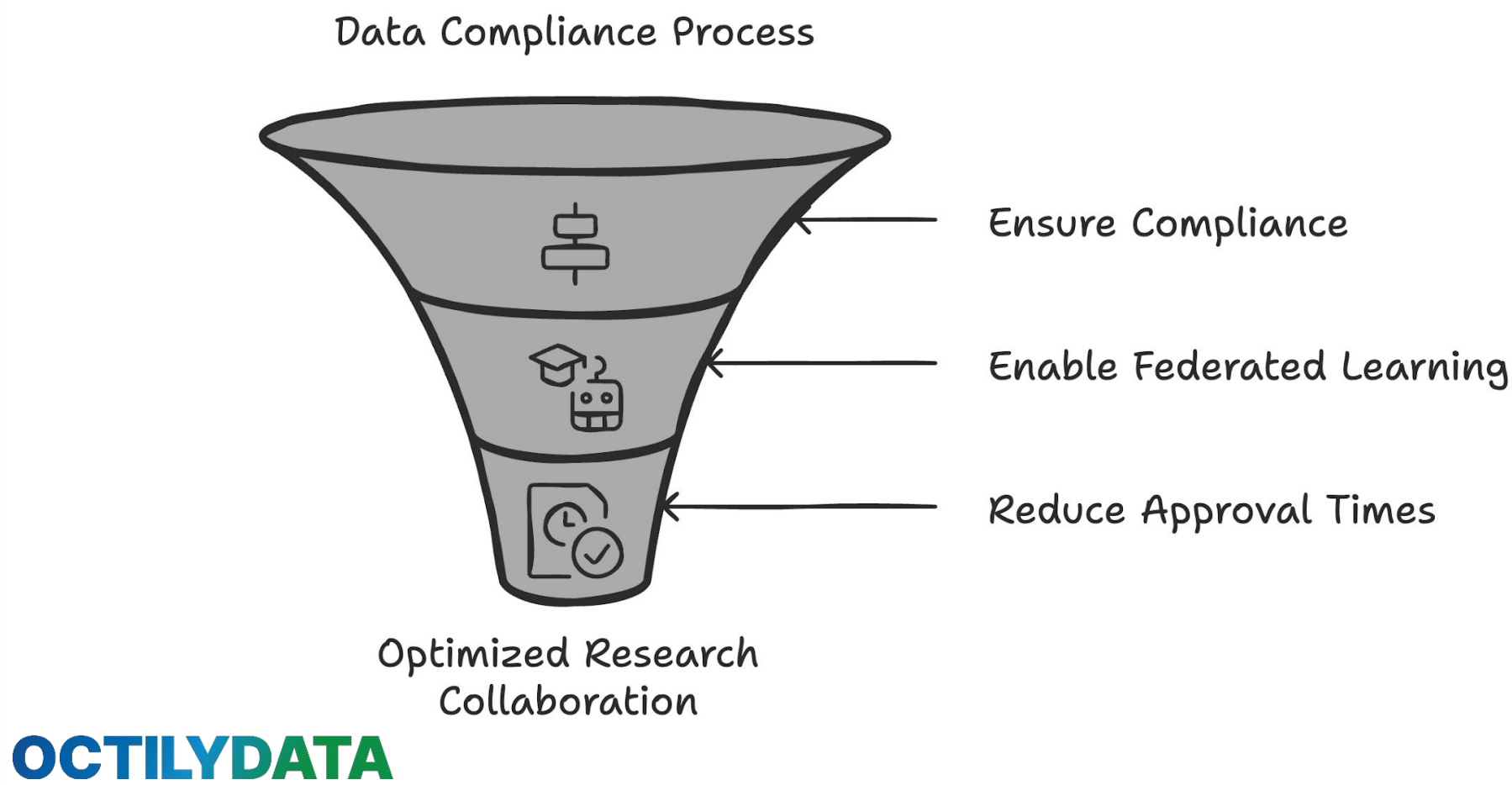
Low compliance limits funding and slows collaboration.



Data Privacy & Compliance Delays Research

- Only **10-15%** of institutions comply with FAIR principles, limiting research grants (European Commission).
- GDPR & HIPAA violations can result in **fines** of up to €20M (EU Data Protection Authority).
- Legal restrictions slow down global research collaboration by **50%** (WHO).

Streamlining Data Compliance and Analysis



+100%

PRIVACY

-5X

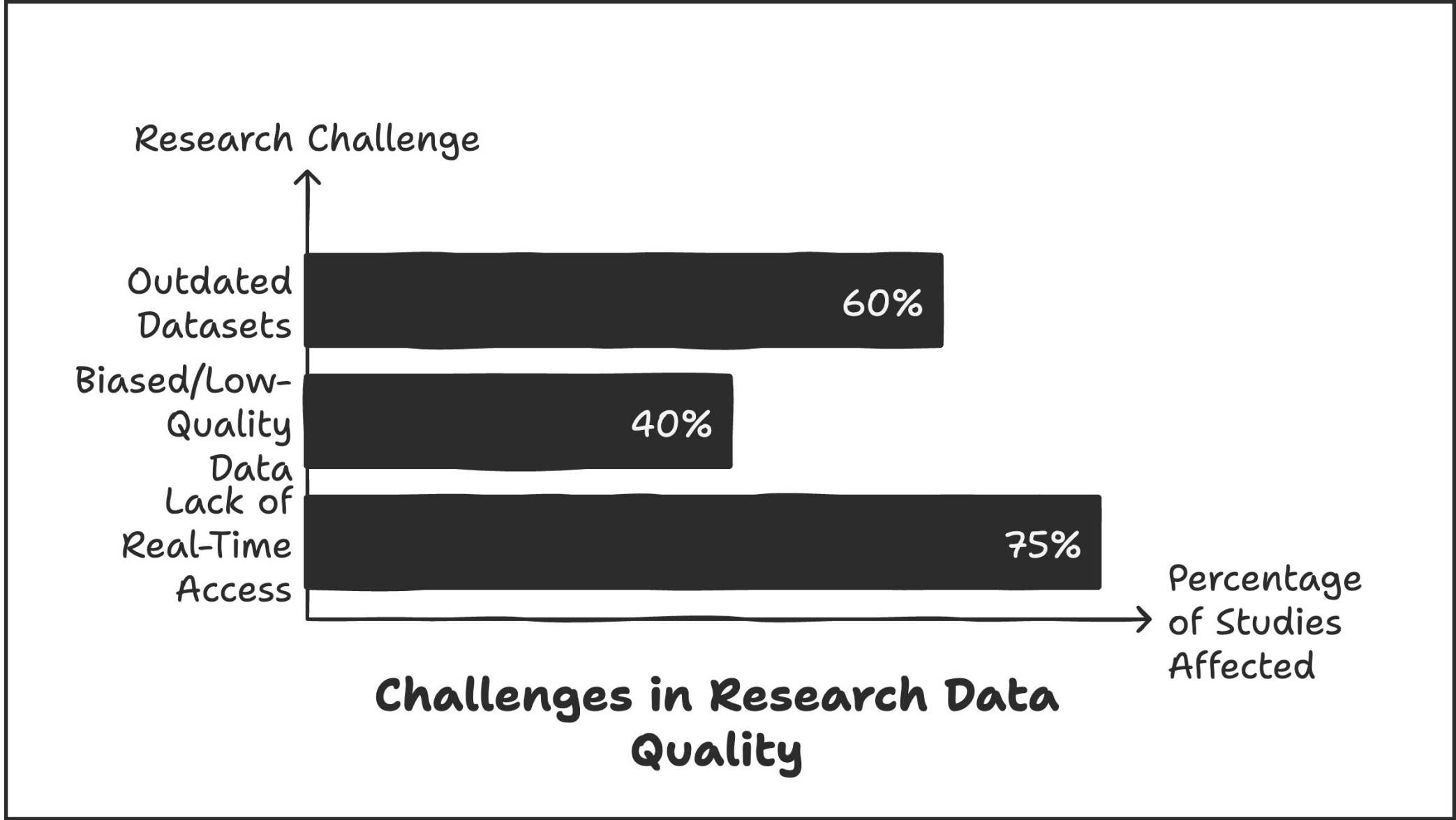
Ensures **100%** compliance with FAIR, GDPR, and HIPAA.

Enables privacy-preserving AI analysis with federated learning..

Reduces compliance approval times by **5x**

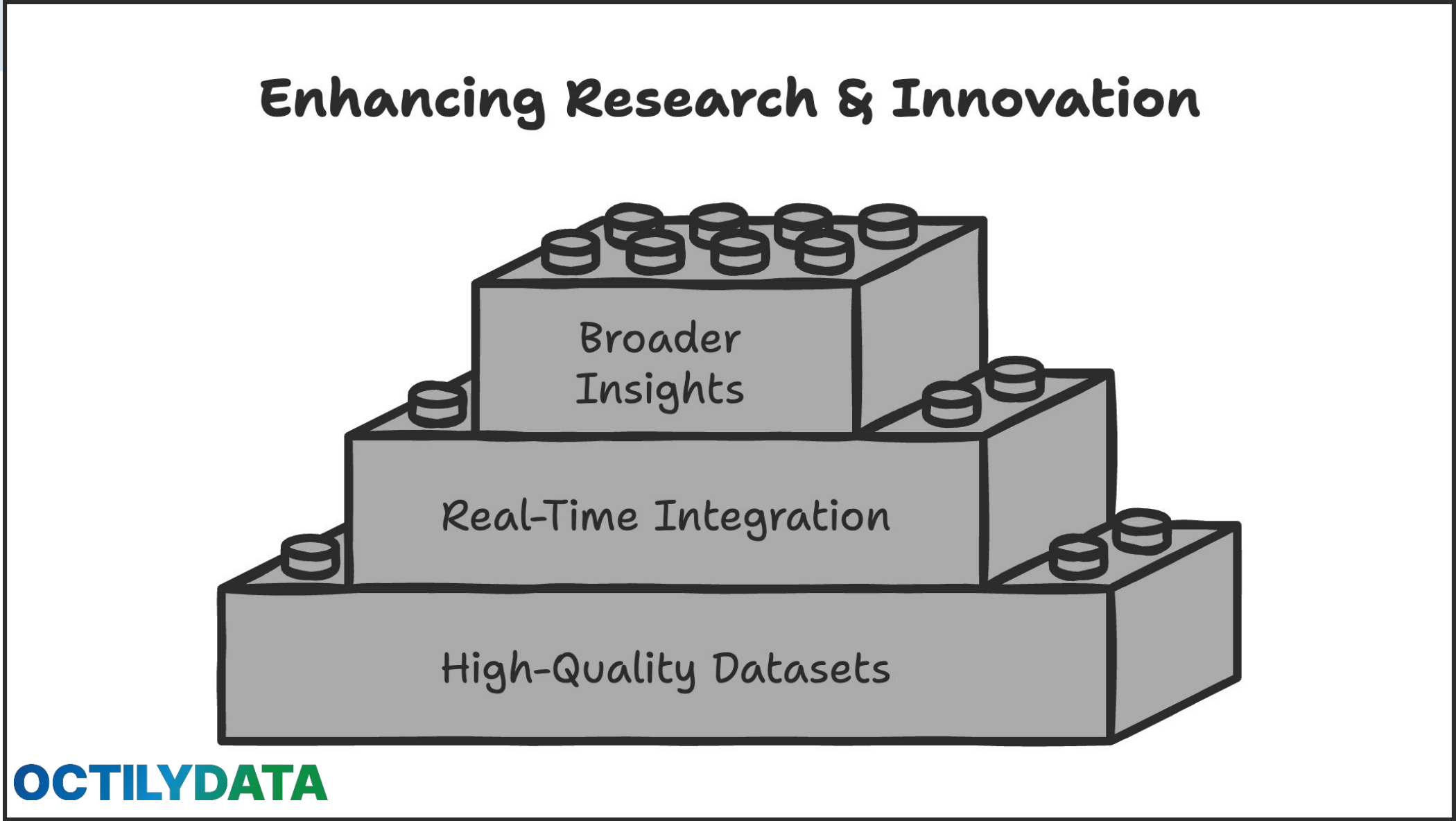
CHALLENGE #3 – LIMITED ACCESS TO HIGH-QUALITY, RESEARCH-READY DATA

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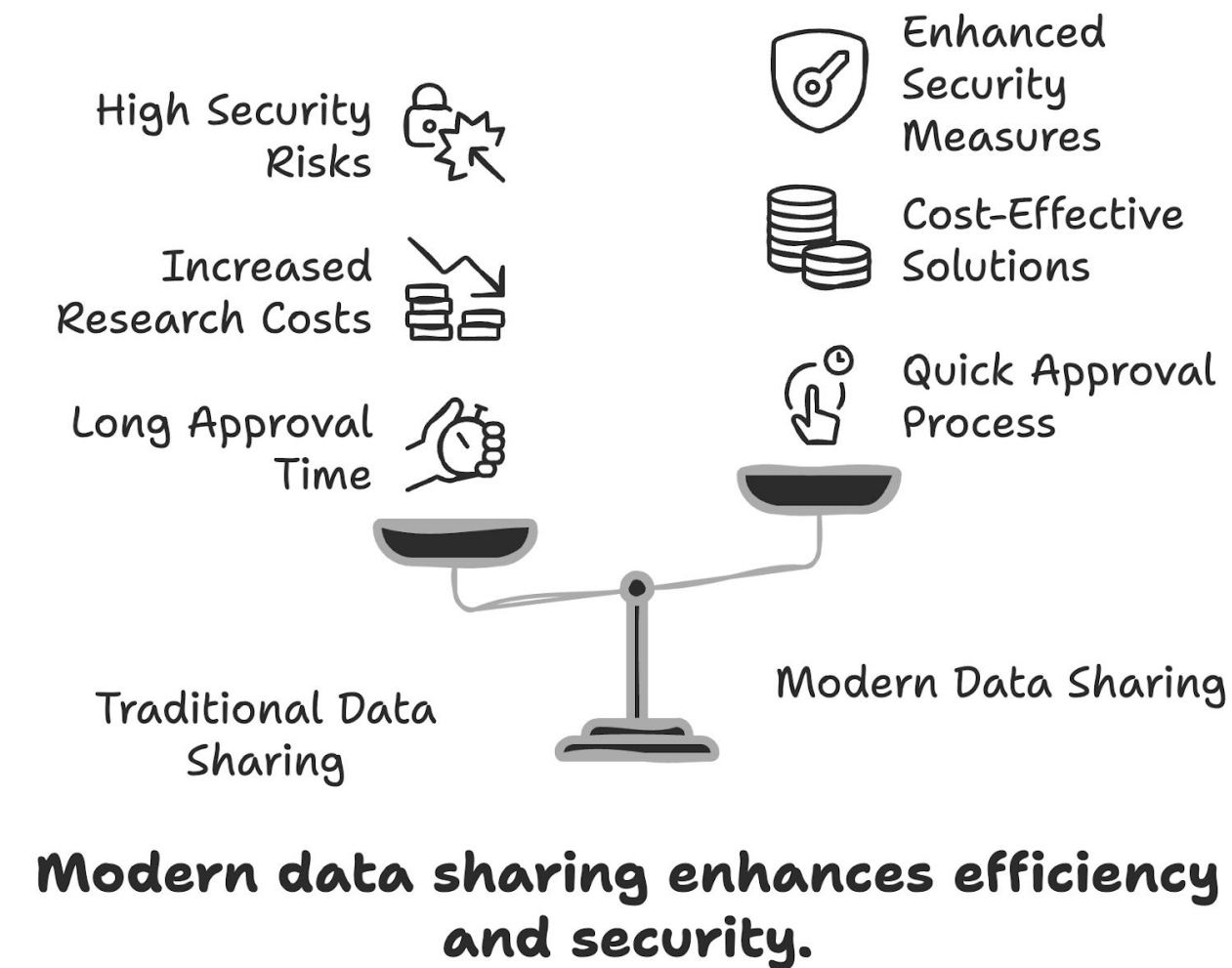
Incomplete & Outdated Data Slows Innovation

- **60%** of studies rely on outdated datasets (NIH).
- **40%** of AI-driven health research suffers from biased or low-quality data (MIT Tech Review).
- **75%** of academic research lacks access to real-time health data (Nature).



+30-50%	REAL-TIME	BRIDGING
Improves AI model accuracy by 30-50% with high-quality datasets.	Enables real-time data integration, preventing outdated results.	Bridges human, veterinary, and public health data for broader insights.

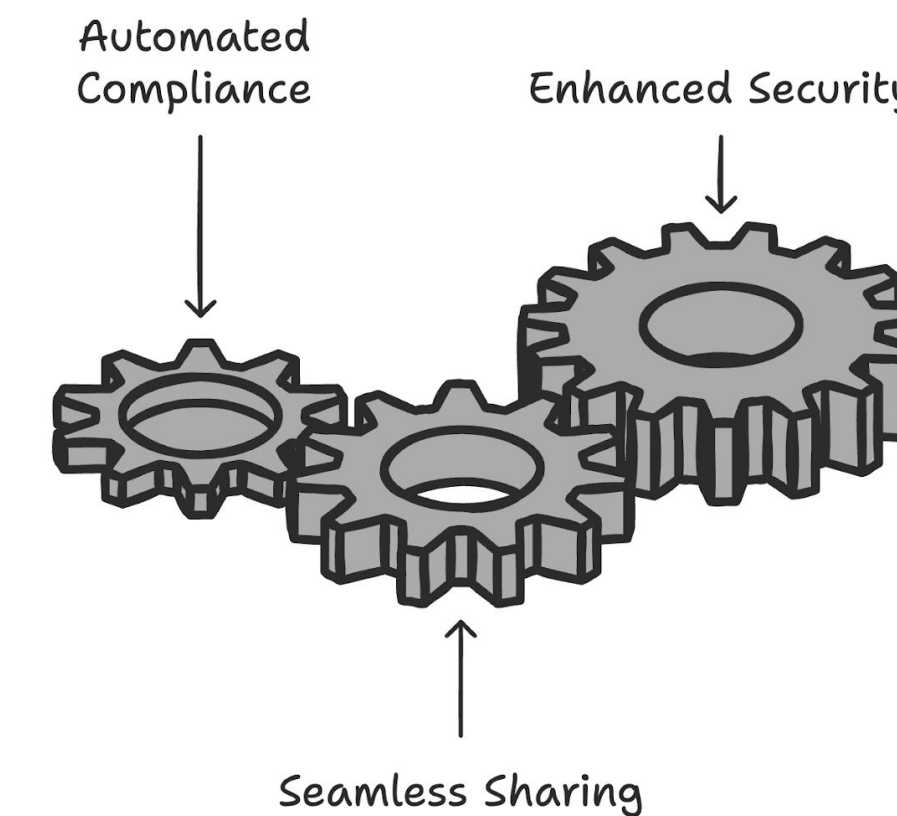
CHALLENGE #4 – INEFFICIENT DATA SHARING & COLLABORATION



Slow Multi-Institutional Collaboration

- Traditional data-sharing processes take up to **6 months** for approval (World Economic Forum).
- Cross-institutional silos increase research costs by **30%** (McKinsey).
- Security risks related to data sharing have risen by **67%** in the past 3 years (IBM).

shared, secure, and interoperable



OCTILYDATA

+3X

Speeds up data-sharing approvals by **3x** with automated compliance.

-30%

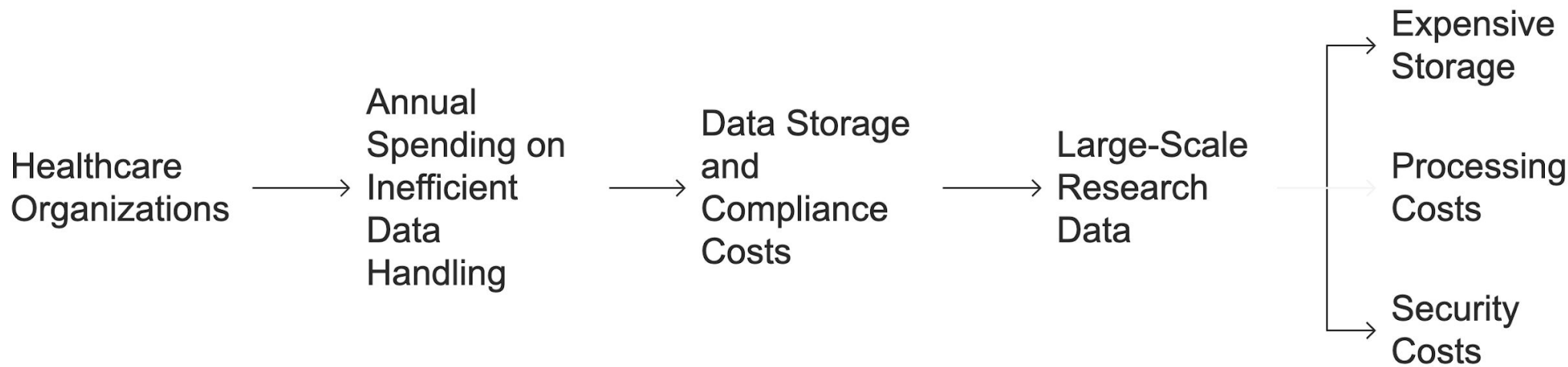
Reduces costs by **30%** through secure, seamless sharing.

-90%

Encrypts and tokenizes data, lowering security risks by **90%**.

CHALLENGE #5 – HIGH COSTS & RESOURCE-INTENSIVE DATA MANAGEMENT

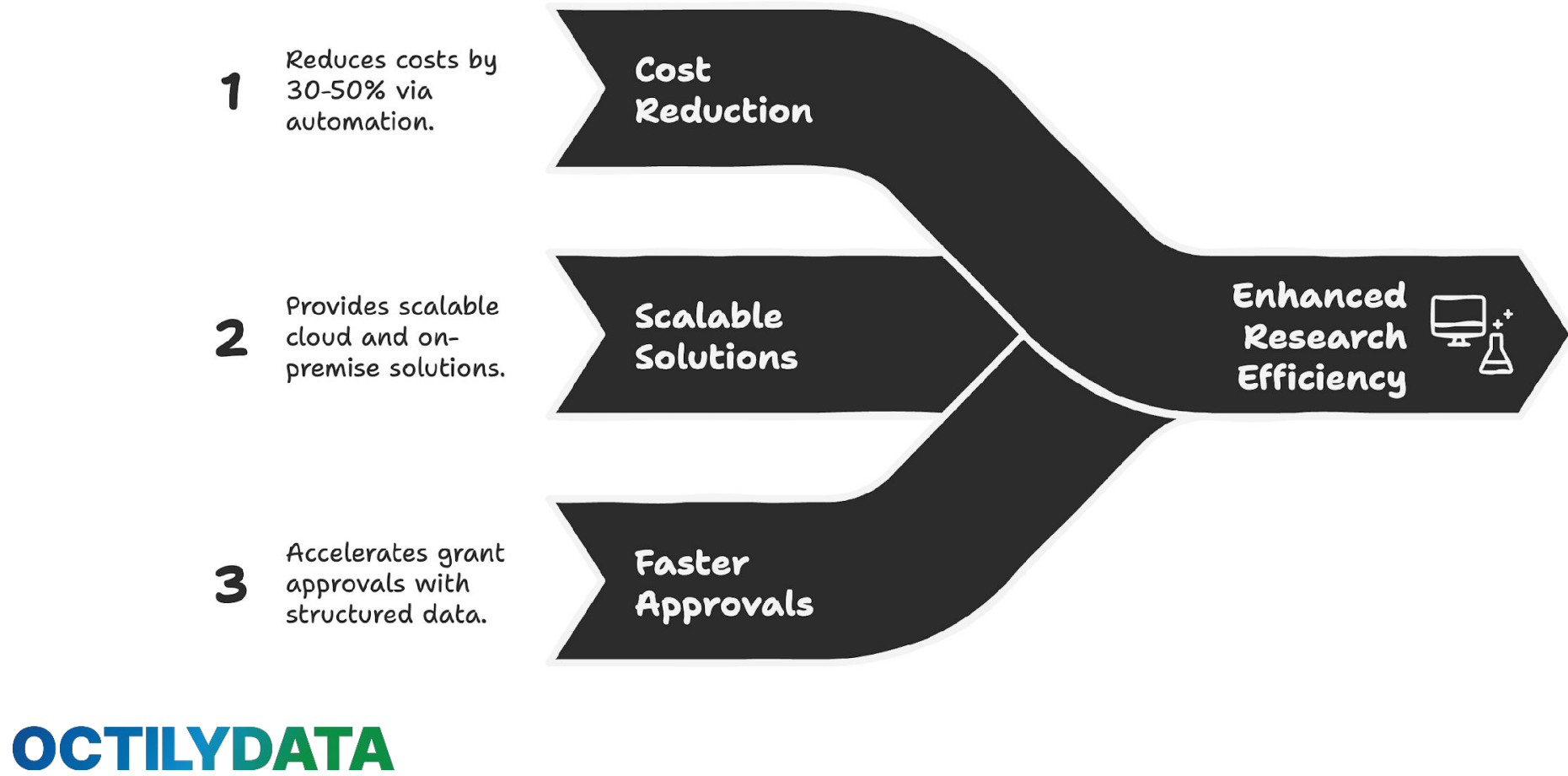
Impact of Data Management Costs on Research Budgets



Rising Data Management Costs in Research

- Healthcare organizations spend **\$30B+** annually on inefficient data handling (McKinsey).
- Data storage and compliance costs take up **20%** of research budgets (Deloitte).
- Large-scale research data requires expensive storage, processing, and security.

Streamlining Research with Octilyon



-30-50%	SCALE	APPROVAL
Cuts operational costs by 30-50% through automation.	Offers scalable cloud-based and on-premise storage options.	Speeds up grants with structured, regulation-ready data.

UNLOCKING RESEARCH EFFICIENCY

To advance healthcare and public health research, we are seeking:

- Partnerships with academic and government institutions to further validate our platform.
- Opportunities for cross-border research collaboration using Octilyon's secure data infrastructure.
- Engagement with policymakers to support data-driven, evidence-based decision-making in healthcare.

Contact us today to explore partnerships.



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