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Presented by henricigroup

Practical Data Governance ||| Case Studies in Enabling Data Integrity Assurance by-Design

Kir Henrici CEO & Principal HG



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Agenda

Data integrity & the Information Value Chain

- Reality Check: Health Authority Trends
 - Data Governance Journey: From Data Integrity to Data Integrity Assurance by-Design
 - **Practical Data Governance:** Planning, Implementing, and Enabling Data Integrity Assurance by-Design





In this session we will explore practical Data Governance measures to enable data integrity assurance by-design. Through real-world examples, participants will gain insight into the application of data governance principles across organizational cultures, manual processes, computerized systems, and complex, hybrid environments in support of effective risk-based data integrity strategies.





Data integrity & the Information Value Chain

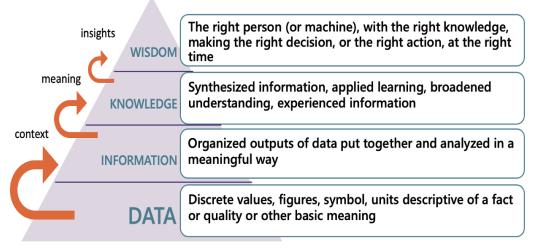




Data Integrity & The Information Value Chain

Our Data is our Product

In the worst-case unreliable data impacts product quality and may harm our patients



Our Patient



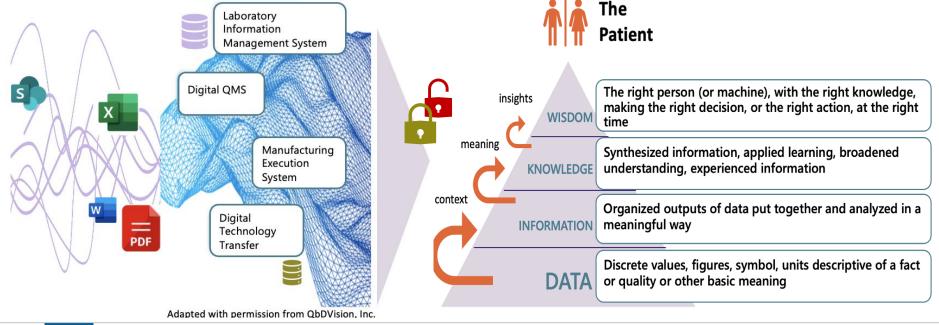




Data & Digital Transformation More and more DATA

The Environment has Changed...

Expectations for data integrity remain the same.



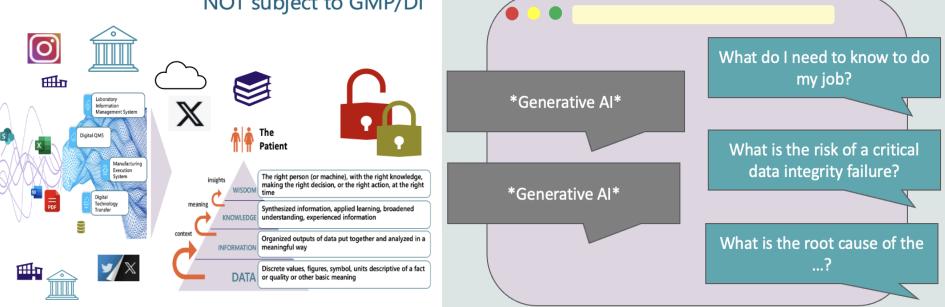






Data Integrity & The "Emerging" Information Value Chain

Emerging Technologies, AI/ML Data NOT generated for YOUR intended use, NOT subject to GMP/DI A Vision for Enabled Compliant Applications Unreliable data also equals missed opportunities of unknown impact





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Reality Check: Health Authority Trends





Reality Check: Health Authority Inspection Trends

PDA RAQAB Update, PDA/FDA Joint Regulatory Conference Sept 2024

"With new technology comes a heightened focus on data integrity, integrated quality management systems and risk-based approaches"

> Antonella Maggio, Co-Chair Parenteral Drug Association (PDA), Canada Chapter





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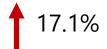


Reality Check: Health Authority Common Observations

PDA/FDA Joint Regulatory Conference Sept 2024

"Too many data integrity problems,"

Patrizia Cavazzoni, M.D., Director, CDER, US FDA



Baseline deficiencies; not related to Emerging Technologies.

Data Governance & Data Integrity

Quality Management System

- Data Integrity policy unavailable or incomplete for Employees
- lack of proper training/outdated training on data integrity principles

- Insufficient management review process
- > Insufficient RCA and CAPA process
- Data Integrity not integrated into computerized systems
- Weakness in internal audits and self assessments
- Non-compliance with SOPs



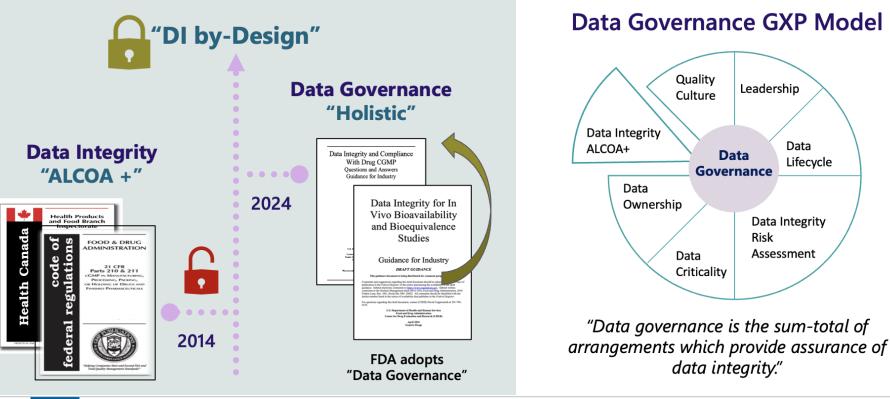


Data Governance Journey: From Data Integrity to Data Integrity Assurance by-Design





Data Governance & Data Integrity Assurance by-Design





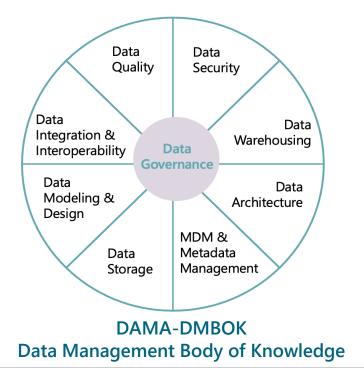
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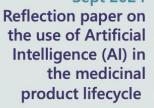
Data Governance, Digital Transformation & Emerging Technologies

Data Governance Enterprise Model



Digital Transformation & Emerging Technologies Sept 2024

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2021 FDA Office of Digital Transformation

2011-2013

Digital Transformation and Industry 4.0

2023 Using of Dr Charter Chart

Using AI/ML in the Development of Drug and Biological Products

2023

Artificial Intelligence in Drug Manufacturing

2023

Data Quality Framework for EU Medicines Regulation

2017

Advancement of Emerging Technology Applications for Pharmaceutical Innovation and Modernization



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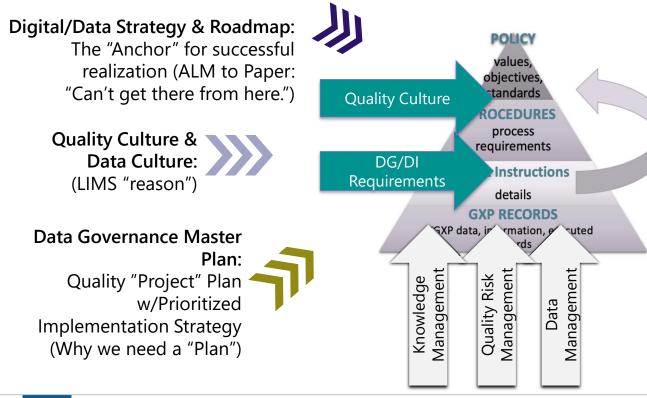
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Practical Data Governance: Planning, Implementing, and Enabling Data Integrity Assurance by-Design



Data Integrity Assurance by-Design



Policies, Procedures & Technical Controls

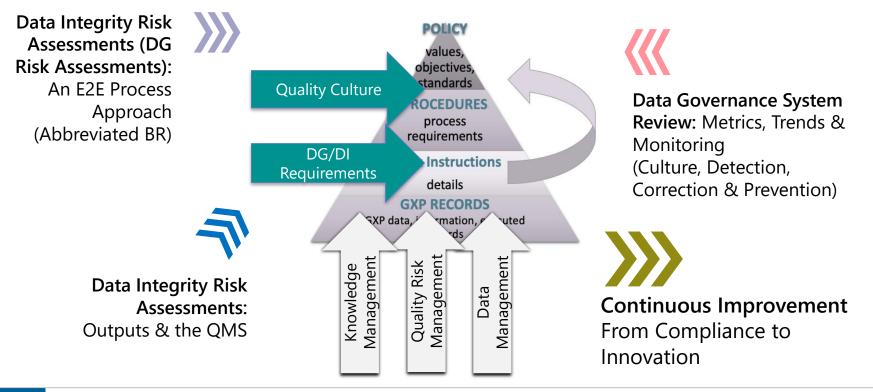
"Heavy Hitters":

- Glossary of Terms
- Aligned Requirements
- Embedded DI Controls
- Document
 Management & CSV
- Owners & Inventories
- (Rogue People, Rogue Data & Rogue Systems)





Data Integrity Assurance by-Design





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Thank you!



