Data Architecture

Oonagh van den Berg | Book introduction

Traces compliance data from source and transformation to model logic, decisions and lineage. Covers identifiers, reconciliation, cross-system consistency, ownership, data quality and remediation, helping readers build a foundation they can explain and defend.

Who it is for

Compliance and risk leaders, data owners, technology teams and AI governance professionals.

Contents at a glance

• The compliance data problem and regulatory expectations: data as a control, risk-data governance, model risk and explainability.

• The lifecycle: source data, transformations, model logic, decision documentation and lineage.

• Single-truth claims: master data, identifiers, reconciliation and cross-system consistency.

• AI failure and the data foundation: quality, metadata, ownership and AI-ready infrastructure.

• Remediation: stabilise the environment, clean what matters and rebuild governance.

• Defensible systems: AI readiness, regulatory scrutiny, case studies and a first-90-days execution blueprint.

How it helps in practice

Trace how data becomes a compliance decision. Identify weak hand-offs and inconsistencies, prioritise remediation and test whether the resulting evidence can withstand challenge.

Practical material

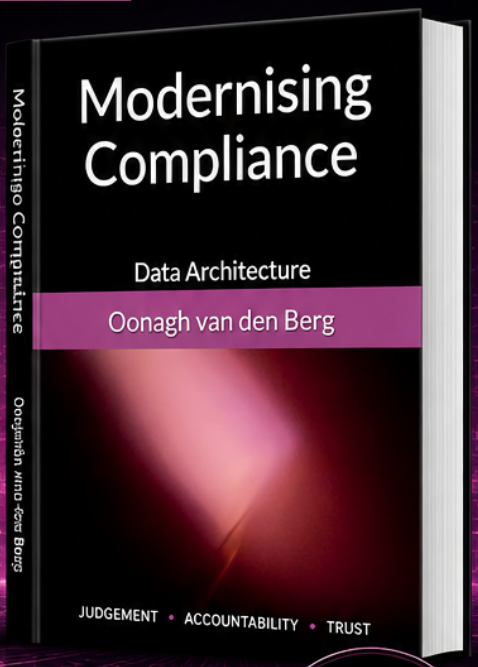
Data mapping, reconciliation, explainability, quality, ownership and readiness exercises.

View the book on Amazon

MODERNISING COMPLIANCE SERIES

DATA IS THE FOUNDATION. EVERYTHING ELSE DEPENDS ON IT.

When data is weak, risk grows.
When data is trusted, compliance strengthens.
This book shows you how to build the data foundation your institution can rely on.



REGULATORY EXPECTATIONS
Understand the standards shaping data governance and accountability.

DATA LIFECYCLE
Master every stage from source to decision with traceability.

SINGLE SOURCE OF TRUTH
Build consistency, reconcile data and eliminate conflicting information.

AI READINESS
Why AI fails on unstable data—and how to build AI that works.

DEFENSIBLE DECISIONS
Create evidence you can stand behind in any regulatory review.

BUILD DATA YOU CAN TRUST. BUILD COMPLIANCE YOU CAN DEFEND. BUILD AI THAT DELIVERS.

INSIDE THIS BOOK YOU WILL DISCOVER HOW TO:

STRENGTHEN DATA QUALITY
Eliminate poor, inconsistent, or unreliable data at the source.

DESIGN ROBUST DATA ARCHITECTURE
Create structures that support risk detection, reporting and automation.

ESTABLISH DATA GOVERNANCE
Define ownership, controls, standards and accountability that stick.

ENABLE END-TO-END LINEAGE
Trace every data journey and evidence every decision.

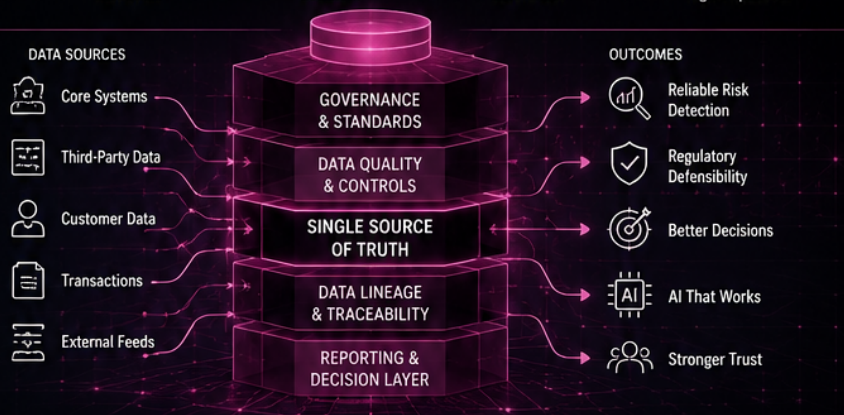
BUILD DEFENSIBLE EVIDENCE
Support investigations, regulatory reviews and board level assurance.

PREPARE FOR AI-ENABLED COMPLIANCE
Create the data foundation required for trustworthy, high-impact AI.

YOU CANNOT AUTOMATE CHAOS. YOU CANNOT SCALE POOR DATA. YOU CANNOT TRUST AI ON UNTRUSTED DATA.

THIS BOOK HELPS YOU:

- Reduce regulatory and enforcement risk
- Improve accuracy and reliability
- Increase efficiency and reduce rework
- Build confidence in data and decisions
- Enable effective use of AI and automation
- Strengthen governance and accountability
- Protect reputation and stakeholder trust



WHO THIS BOOK IS FOR

- Boards & Non-Executive Directors
- Chief Risk, Compliance & AML Officers
- MLROs & Financial Crime Leaders
- Data, IT & Architecture Leaders
- Internal Audit & Model Risk Teams
- Regulators & Supervisors
- AI & Transformation Leaders

> DATA IS NOT JUST INFORMATION. IT IS THE FOUNDATION OF DEFENSIBLE COMPLIANCE. GET IT RIGHT, AND EVERYTHING ELSE CAN STAND ON IT.

HOW THIS BOOK HELPS INSTITUTIONS

- Strengthens data governance and accountability
- Improves risk detection and reporting accuracy
- Enhances regulatory readiness and defensibility
- Enables trustworthy use of AI and automation
- Reduces cost, rework and operational risk
- Builds a resilient, future-ready compliance model

STRONG DATA. STRONGER COMPLIANCE. SMARTER DECISIONS. TRUSTED FUTURE.

DATA QUALITY YOU CAN RELY ON | ARCHITECTURE YOU CAN DEFEND | DECISIONS YOU CAN TRUST | AI ENABLED, NOT AI EXPOSED | GOVERNANCE THAT DELIVERS