



DATA IN MOTION

Data In Motion Consulting GmbH

SMARTCITY

EXPO WORLD CONGRESS





What We Do



Imagine your data is a giant box of Lego bricks. You know it's filled with countless golden bricks of all shapes and sizes, forming the very foundation of your digital transformation.

We don't just help you sort and organize – we develop the blueprints with you for new perspectives.



The Regulatory Tsunami



- Organizations today face an unprecedented complexity of regulatory requirements;
- Non-compliance can lead to massive fines, reputational damage, loss of customer trust, and operational disruption.



The Concept of Governance



- The **structure** and **process** by which an organization is directed, managed, and held accountable.
- It **sets** the rules.



The Concept of Compliance



- The act of **adhering** to, and demonstrating adherence to, those defined rules, policies, and laws.
- It **follows** the rules.



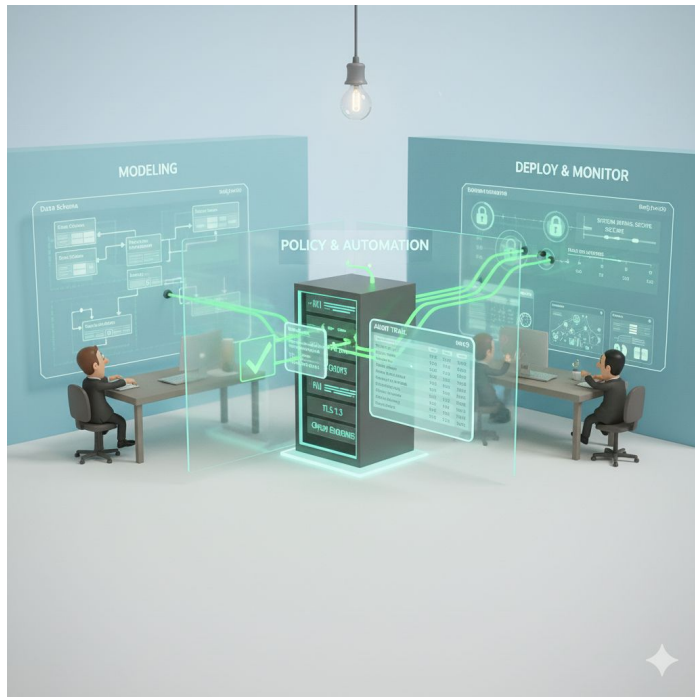
Compliance so far...



- **Manual:** Spreadsheets, checklists, and human reviewers
- **Reactive:** Compliance checked after development, causing expensive rework
- **Error-Prone:** Human interpretation varies, leading to inconsistent application
- **Expensive:** Significant overhead in legal, compliance, and audit teams
- **Non-Scalable:** Can't keep pace with rapid development and deployment cycles



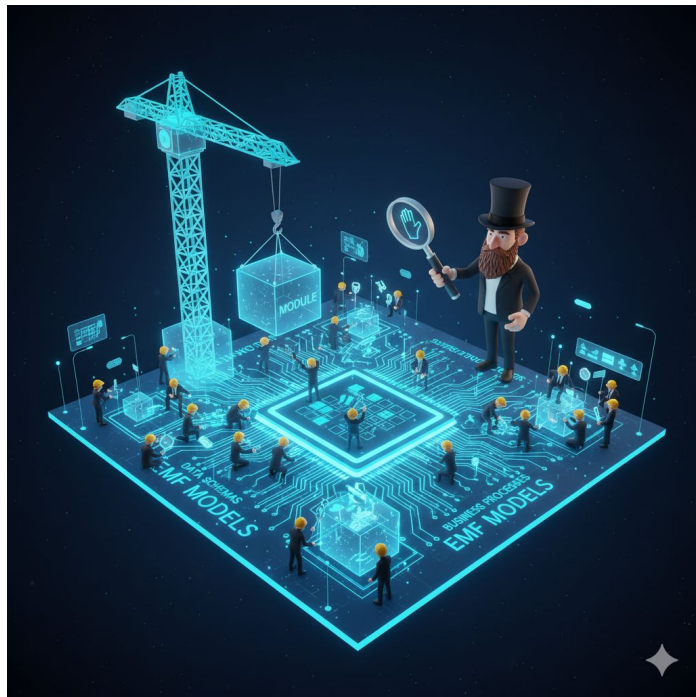
Compliance as we would like it ...



- **Automatic:** human review only needs as final confirmation
- **Interactive:** compliance checked at every stage of development
- **Replicable:** consistent and no prone to interpretation
- **Versatile:** system easily adaptable to different domains
- **Scalable:** efficiently able to manage increased demand and complexity



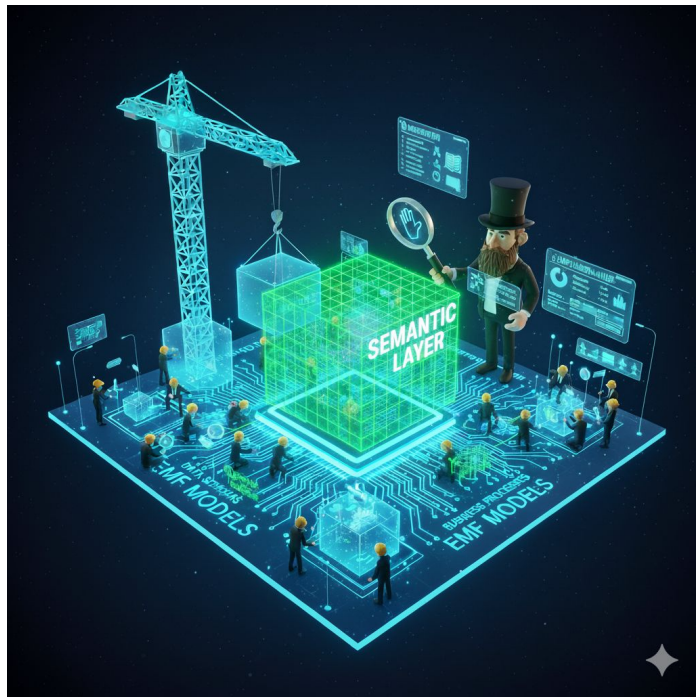
How to achieve it: Model Everything!



- We can define **everything**: data, architecture systems, security systems, processes, etc.
- These are **system definitions, executable, single source of truth**.
- They are not just documentation.
- **Formal, Machine-Readable Assets**



How to achieve it: Semantic Layer



- We can add on top of our definitions, a **semantic layer**.
- It gives you system a **meaning**
- It is responsible for performing the compliance checks.
- Reports and documentation can be generated from the compliance check results.



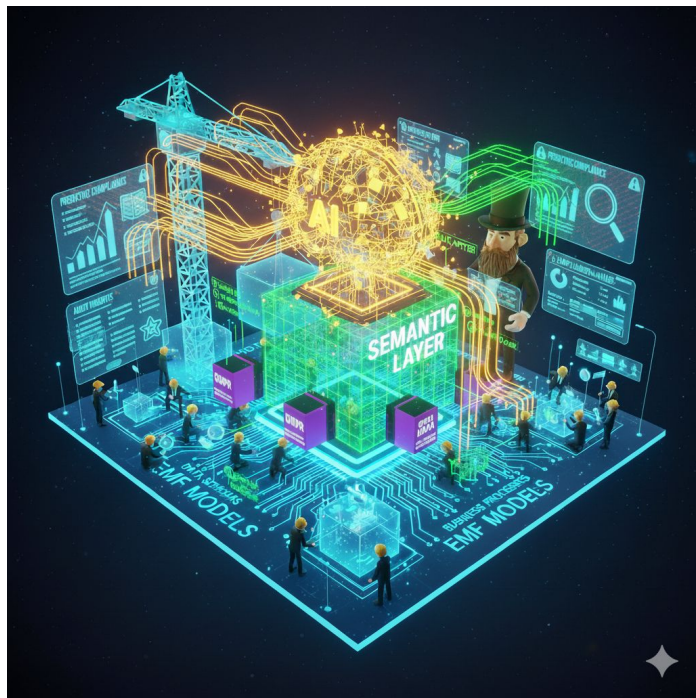
How to achieve it: Adapters



- Adapters are different policies (GDPR, Open Data, Data Quality, etc.).
- They can be plugged or unplugged depending on the structure we want to analyze.
- This provides a **flexible** and **scalable** system.
- They can combine different perspectives
 - Data structure and relation
 - Data itself
 - Processes
 - Infrastructure



Benefits when using AI



- Models provide **inherently structured, machine-readable representations** of *everything*.
- This is **precisely** the kind of input AI models crave.
- The semantic layer provides the **context and metadata** that AI needs to make intelligent decisions.
- AI can analyze existing structures and compliance checks to suggest new policies or identify gaps.



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Visit us in Barcelona from 04 - 06.11.2025

Hall 2 booth B 91

Meet Jürgen Albert (CEO) and Mark Hoffmann (CEO/CTO)

We are looking forward to talking with you.

All materials are available at: <https://www.datainmotion.com/scewc24/>