

# CASE STUDY

## OSTHUS

# Setting up a pragmatic Data Governance Framework that helps your business.

## The Goal

Manage data as enterprise assets that support your business to reach its goals.

## Challenges

- Information Silo's
- Cross Border Business Complexities
- Lack of Ownership & Culture
- Legacy IT
- Investment

## Solutions

- Data Management Maturity Assessment
- Use-Case Driven MVPs
- Harmonized Data Model
- Ref. & Master Data Management solution
- Enterprise Data Governance Framework
- Enterprise Data Quality

## Results

- Federated Data Governance Structure
- Improved Return on Data Asset
- Cost Savings on Data Exploration
- Improved Data Quality Score
- Improved Enterprise Data Lineage

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## THE CHALLENGE

Typical R&D firms have gradually begun to realize that a robust Data Governance mechanism far outweighs the cost curtailing or controlling measures in short term. Regulatory environment under GxP has become stricter for R&D Labs wherein Lab managers increasingly faced with complex data governance challenges. With the advent of new technologies like AI/ML/Big Data Tech./Cloud Tech./Virtualization, every technology driven firms now wishes to develop core competencies around this space to outperform each other in the race towards faster innovation and shorter time-to-market spans. Firms across domains have realized that "Data" is their most valuable asset and requires a formal governance process around for improved utilization.

The complexities that emerge from the expansion of regulatory legislation and a market push towards alternative and non-conventional asset will ensure that the firms that focus on robust data governance programs will be hailed.

For many organizations the existing data architectural landscape has evolved over the past 15-20 years, essentially mimicking the overarching IT and business organization - historically IT was siloed by both business domain and region. Current enterprise data management practices have led to a bad data situation hence there is a need for change.

In the sample model on the left each business line enjoyed essentially their own dedicated and full service (project management, analysis, development and testing) IT team. While this approach is has a number distinct advantages i.e. dedicated support for each business line, it has a number of significant disadvantages being duplication of resources, data, processes and technology hence the complexity shown in the figure.

It is important to note that the sample diagram focuses on the spaghetti IT architecture that predominately prevails in typically large multinational organizations.

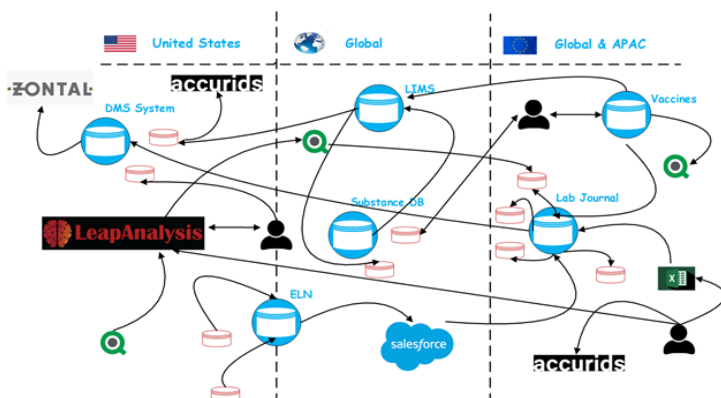


Fig.1: Spaghetti IT Architecture

The main challenges occur because there is a need to cross business lines or regions and look at the organization from a global perspective.

Other deficiencies include a lack of a global, complete and accurate authoritative sources of core master data e.g. R&D data related to experiments and labs, etc. In this context, a master source can be thought of as the

For example, there are multiple sources/copies for same data. This is not efficient from an operation, technology or cost perspective and creates further data consistency issues. All critical domains should have a single source of truth.

## THE SOLUTION

In our understanding, FAIR Data Governance provides an organizational, procedural and technical framework that organize the definition and management of terms (data, metadata, master, and reference data, and their relation to the business) in large, heterogeneous organizations. The efficient management of terms in large organizations ensures proper use, annotation, and publication of data assets and the linkage to business relevant terms and entities most often hidden in entity-relational models of data systems.

**OSTHUS** uses customized FAIR Data Management Maturity (DMMM) Model tailored to the need of each customer, which provides the best practices to help organizations build, improve, and measure their enterprise data management capability allowing for timely, accurate and accessible data across the entire organization. The FAIR Data Management Maturity Model (DMMM) is consistent enterprise wide framework for Data Councils to implement and embed data management in accordance with the Data Strategy, Data Policy and Regulations; which aligns to industry standards [including the CMMI, DCAM (EDM Council) and DAMA].

## ADVANTAGES

- Reduced cost of ownership for your data
- Effective Metadata management
- Reduce your data integration costs
- Simplify data impact assessment & GxP Regulatory driven change management.
- Spend less time searching for data
- Operationalize access control to allow for safe access of data through governance
- A pragmatic step by step approach to building, embedding and measuring data capability

## THE FUTURE

- DMMM also assisted our client to set up the Enterprise Data Policies and Compliance Framework. Data Policy Compliance Framework
- Our clients have leveraged myriad collaborative partnerships that we have with leading vendors in space of Data Governance, Data Lineage and Data Quality.
- We are major contributors on Allotrope foundation to lead the way in the application of in FAIR data principles in R&D space.

“[...] most of the time we witness new tools for data management sitting unused or poorly deployed. This is because no one has mastered the process the tool is supporting.”

## Perceptions of our customers vs. reality

“It costs too much to run our data estate!”

Direct data costs i.e. the costs to run the numerous databases & data warehouses that support the business generally runs in millions for big organizations.

“We can't find the data we need i.e. where do I go for e.g. R&D and experiments related data?”

Historically both the business and IT have been structured by business function\products and regionally, which often leads to a proliferation of processes and support IT & data architecture. On an average 80% of the time spent on an analysis project is spent on 'cleaning' the data - filling in missing information and confirming meaning.

“I need to standardize my data?”

JVs/ Alliances/ Research Collaboration approach allows researchers to tackle huge projects but different instruments produce different data and different scientists record data in different ways and formats.

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“Advanced Data Practices without a proper FAIR Data Management Maturity Framework, often take longer, cost more, deliver less and presents greater risk to the enterprise.”

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## About OSTHUS

OSTHUS provides customers with vendor-agnostic services for a wide variety of technology needs including integration, tool augmentation, analysis and visualization. We offer expertise from end to end, beginning with consulting, through to solution development all the way to complete system lifecycle management and help companies to develop innovative data-driven applications to fit their most complex data needs. OSTHUS works with our customers in a highly collaborative manner, often as part of a larger technology team composed of customer experts