

Establishing a Data Governance Foundation in a Heterogeneous Corporate Environment

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01 Setting the Scene

02 Our Data Governance Program

03 Examples

04 Questions & Answers

Shaping the future

The ZEISS segments



Semiconductor Manufacturing Technology



Strategic Business Units

Semiconductor Manufacturing Optics
Semiconductor Mask Solutions
Process Control Solutions

Industrial Quality & Research



Industrial Quality Solutions
Research Microscopy Solutions

Medical Technology



Ophthalmology
Microsurgery

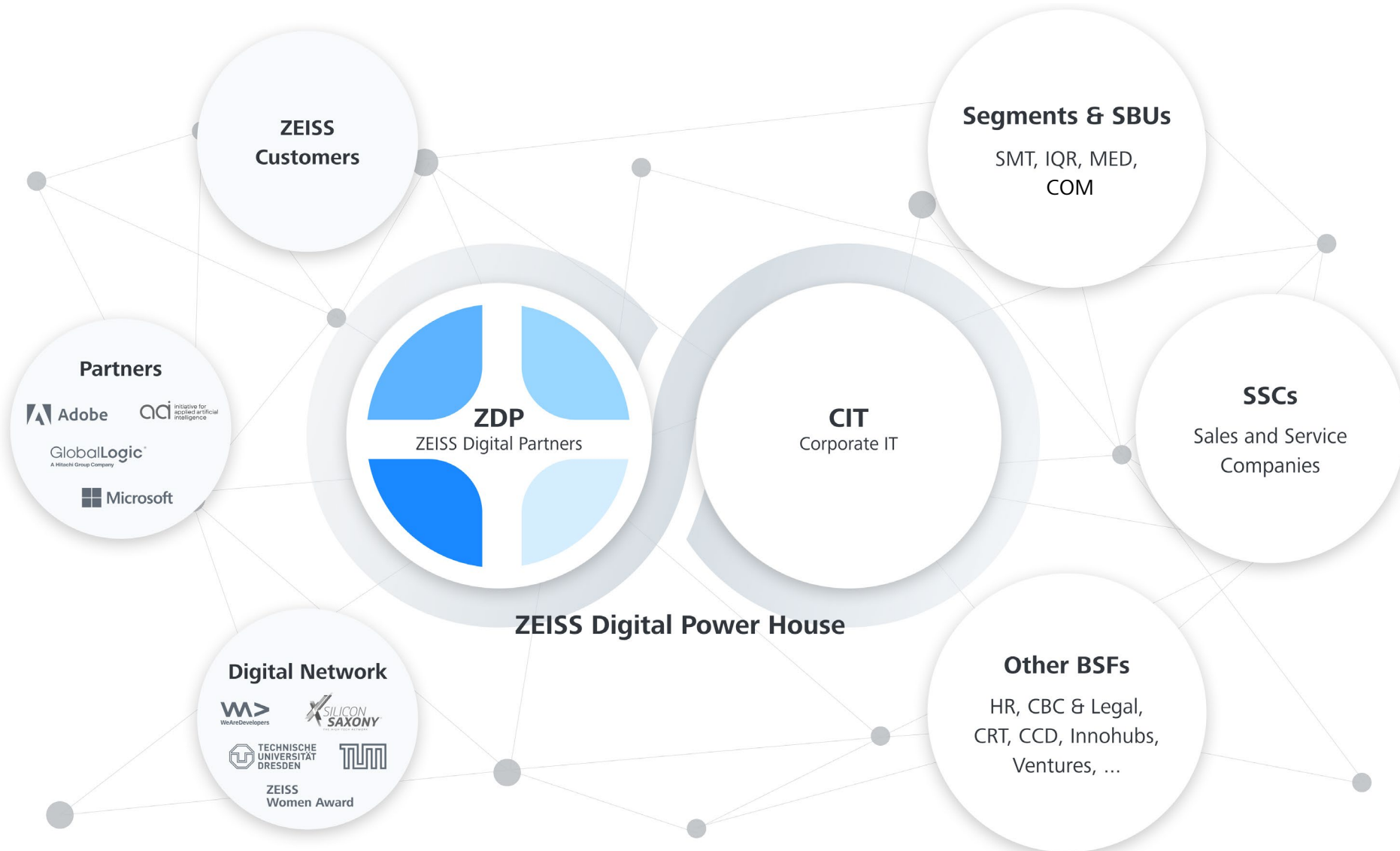
Consumer Markets



Vision Care
Consumer Products

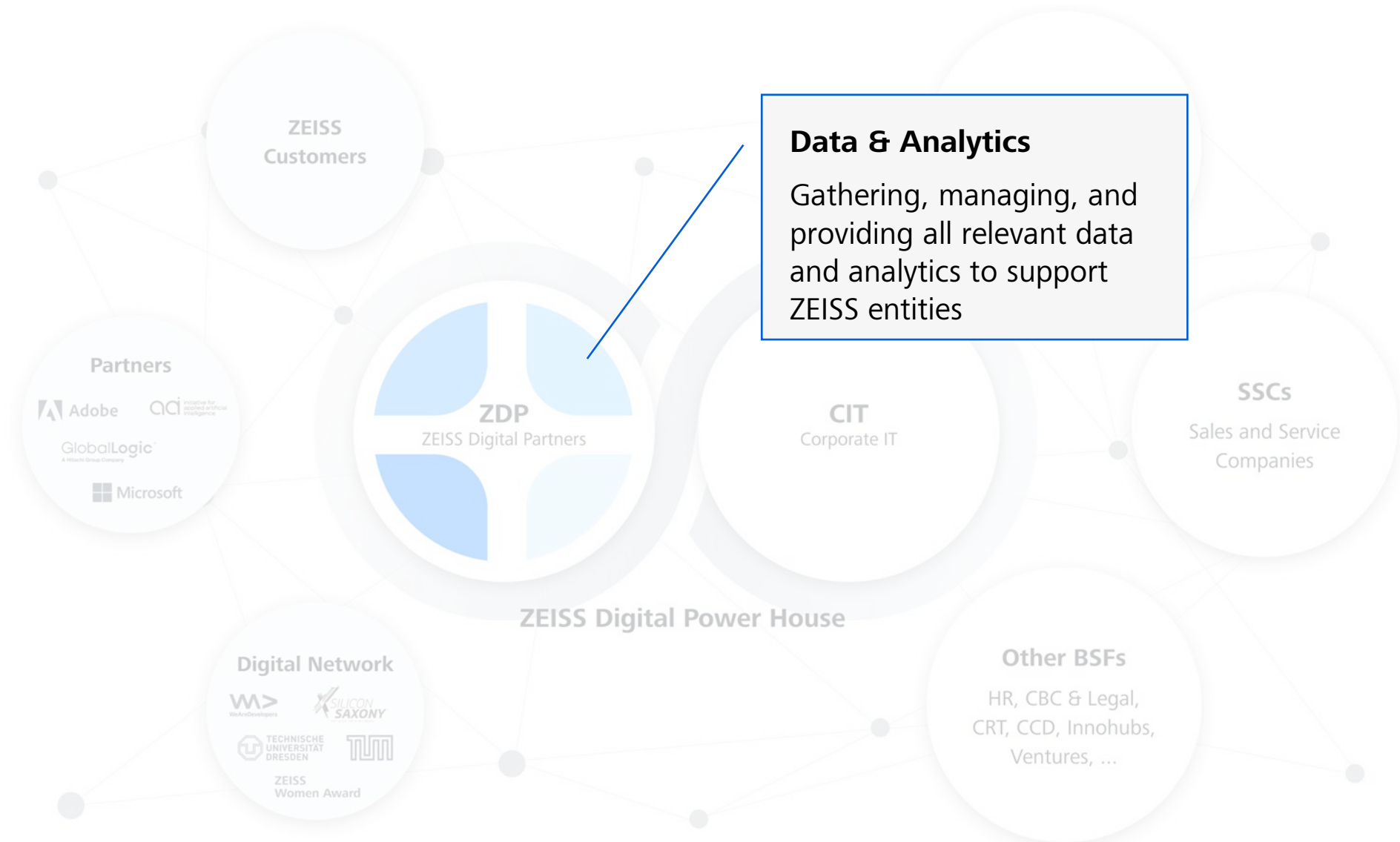
Shaping the future

The ZEISS Digital Power House

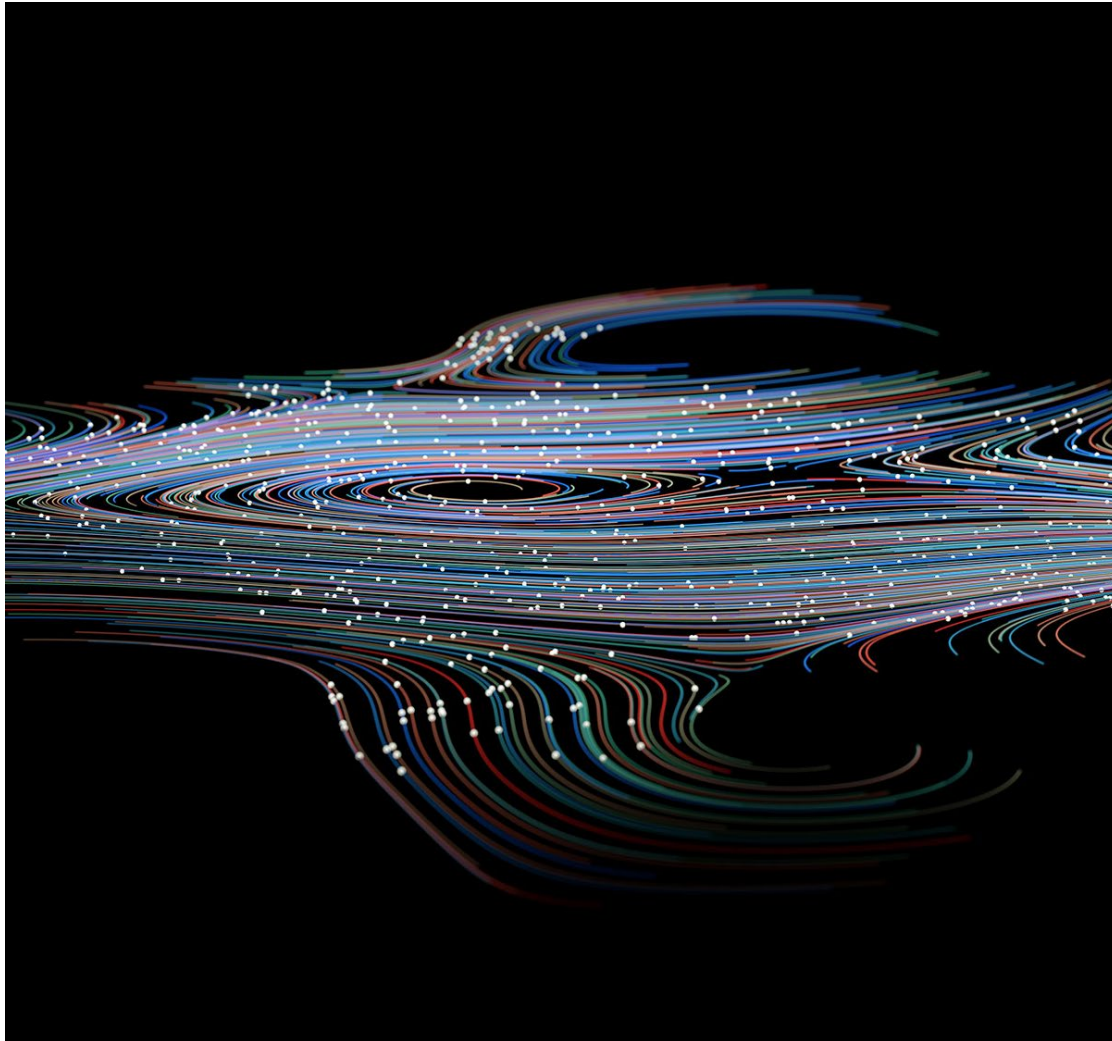


Shaping the future

The Data & Analytics unit



Despite of the different business backgrounds at ZEISS, we share a single vision about data governance



“Build **trust in data** enterprise-wide,
accurately **measure the business value**
of data,

foster collaboration for more robust
insights & outcomes,

and **create auditable processes** to
document data changes,

so that the company can **get the
absolute most value from the data.**”

Sharing a vision is one thing, but when it comes to “the real thing”, it gets tricky...



“Ambiguous business terms and improper data documentation lead to approximately **50%** waste of my time when creating a dashboard.”

“The only data I trust is in my Excel file.”

“I would need better data to optimize my production line.”

“I am still lacking customer data to launch a proper marketing campaign.”

“Somebody deleted data that was still important for me to run my business.”

“I have been asked to maintain a customer’s device, but I cannot find its exact location.”

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Data Governance Program objectives highlight what we jointly want to achieve



Establish a **unified and aligned approach on maturing data governance** across Zeiss



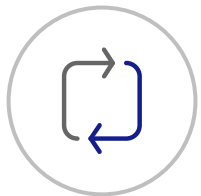
Accelerate the standardization without losing the business relevance of segments, SBUs and SSCs



Orchestrate the transformation journey with **clearly defined roles & responsibilities** across Zeiss



Deliver short-term business results while transforming the organization for the long-term



Derive lessons learnt from the pilots while **creating a repeatable model for an incremental journey**

DG implementation roadmap includes three building blocks: One-off & recurring efforts, as well as add. ongoing initiatives



One-off efforts



Getting organized & aligned

No-regret DG foundation xZEISS

Recurring efforts



**Performing DG
DG activities xZEISS**

("Build & repeat" approach)

Add. ongoing projects



Ongoing projects including data governance topics
Interdependencies with DG program to be closely orchestrated

The one-off efforts create a solid data governance foundation for all DG-related use cases xZEISS

/ NON-EXHAUSTIVE



One-off efforts

Category

Building blocks

Group

SMT

MED

IQR

COM

Getting aligned

Data Taxonomy

No-regret DG foundation xZeiss

Group-wide templates for policies and processes

Tools & services

Getting organized

Organization, incl. roles & governance bodies

Capacity & capabilities

Each building block includes set of initiatives for implementation

Comments

- **One-off efforts** build the DG foundation and only need to be completed only once throughout the program
- Initiatives to **Get aligned** work towards defining a common data taxonomy with segment-specific examples
- **No regret DG foundation xZEISS** initiatives include:
 - Defining group-wide templates for policies, processes, and standards
 - Establishing tools and services
 - Resulting responsibilities for the defined policies, processes, standards and tools
- To **Get organized**, organizational structures, decision rights and roles are set up to reflect the responsibilities defined in the no-regret foundation
 - Implementing steady-state DG org & governance bodies
 - Developing capability roadmap and associated capacity model

The recurring efforts support the repetitive DG implementation for specific use cases



Comments

- **Recurring efforts** includes a sequence of initiatives designed for repetitive application when implementing data governance for individual use cases
- Building blocks include initiatives **defining use-case specific data governance elements**, such as:
 - Definition of use case objective, scope and business value
 - Identification of required data and associated owners, as well as standardization needs across organization
 - Definition and implementation of use case policies and processes based on the standardized data policy & process templates
 - Implementation of tools, defined processes and monitoring activities
- First, **pilots are run in SMT (2) and MED (2)**; additionally, one IQR and COM use case each will be implemented

/ NON - EXHAUSTIVE

Recurring efforts

Category

Use case implementation
(incl. Use case assessment, policies & processes, technical Implementation)

Building blocks

Group	SMT	MED	IQR	COM
	SMT Use Case 1	MED Use Case 1	Use case implementation in IQR/ COM after successful pilot in SMT/ MED	
	SMT Use Case 2	MED Use Case 2		

Pilots lay the foundation for continuous implementation in all segments

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Most of the planned deliverables have been completed



WELCOME TO DATA GOVERNANCE @ZEISS

*Data Governance - It is not a set of abstract and theoretical things that data people do!
It involves everyone and that includes you!*

ZEISS Digital Partners (ZDP) and in particular **Data & Analytics (D&A)**, through initiatives such as the **Key Group Program Digital System Enablement (KGP DEE)** and the **Data Governance Program**, are striving to support the strategic goals of **#agenda25** by building a backbone to enable and scale digital ecosystems for ZEISS, that would create opportunities for new markets and business models. To move forward with agility and speed in this endeavor data governance is the cornerstone that will help foster transparency, mindset change, breaking data silos, building synergies, and support making data-driven decisions for accelerating businesses.

Brief Guide to Data Governance

Why data governance should be so important for you?
Well, let's think of a few analogies:
In a business we manage our money – we set budgets and we keep track of what we spend. We have people with specific responsibilities for managing 'the numbers' and we investigate when we cannot reconcile. This is all about managing the 'money' asset.

Contacts

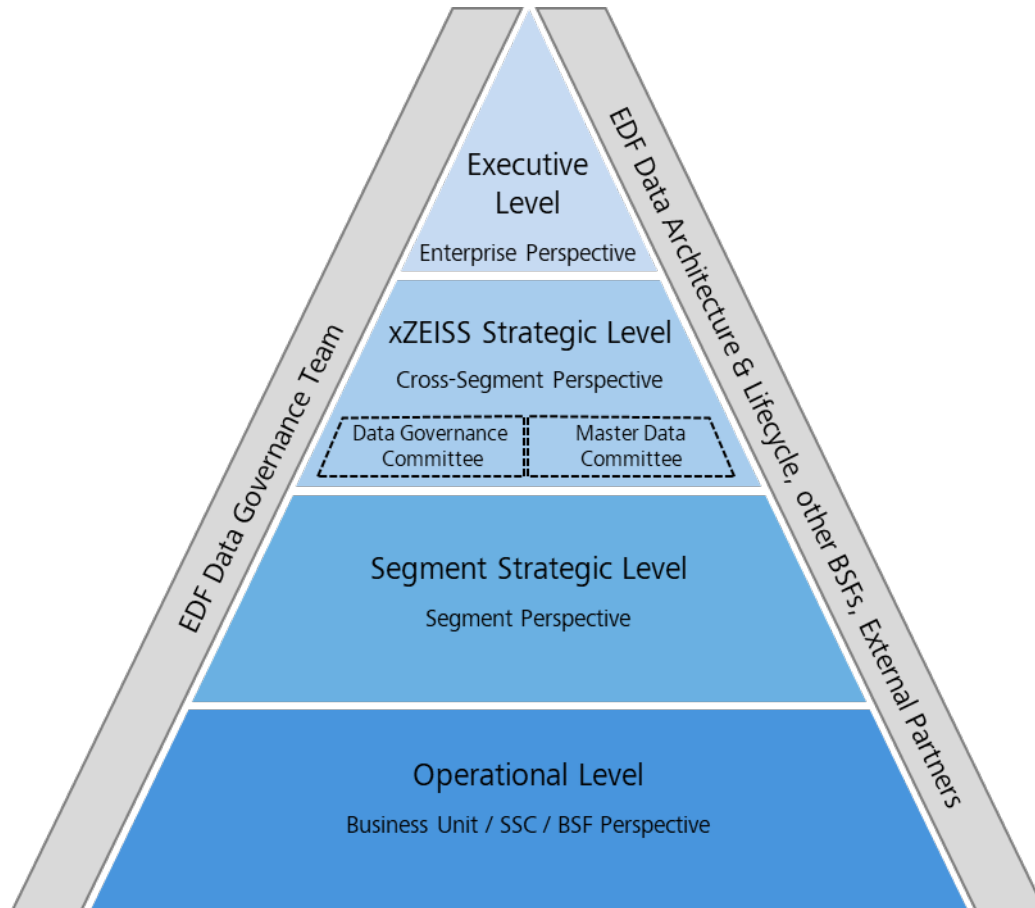
- Gaikwad, Jitendra
- Baldanzi, Annarita

Common Understanding

- Business Glossary
- Roles and Responsibilities
- Data Quality - What do we mean with good data
- Metadata: it is not just data about data

- **DG InfoHub** is accessible to all employees as the central entry point:
https://zeiss.sharepoint.com/sites/EP_KANDS/EN/KSG_ZDP_Data-Governance/Pages/serviceshomepage.aspx
- **Business Glossary** contains the most important data and data governance related terms, available to every ZEISS employee at <https://axon.zeiss.org:9443/>
 - Process to add new terms has been defined
 - SAP data object definitions will be added shortly
- **Roles & responsibilities** handbook, **data modelling** guidebook, and **Data Quality frameworks & processes** published on the InfoHub
- **Conceptual data models** for sales, service, marketing and eCommerce domains developed

The Data Governance Organizational Structure is currently finalized



EXECUTIVE LEVEL (DIGITAL COUNCIL)

- Sponsorship and oversight for the overall DG activities xZEISS.
- Support data-related strategic decisions in providing expertise, budget, resources and technologies

xZEISS STRATEGIC LEVEL (DATA GOVERNANCE AND MASTER DATA COMMITTEES)

- Overall accountability for xZEISS Data Governance activities.
- Accelerates data governance synergies xZEISS.
- Report progress on Data Governance activities and potential escalation topics to Digital Council.
- Ensure adoption and sustainability of Data Governance.
- Ensure Data Governance activities are aligned to ZEISS business objectives.

SEGMENT STRATEGIC LEVEL (BUSINESS SEGMENT DATA GOVERNANCE BODY / FCT.)

- Translate local and central requirements into sets of segment-specific DG activities and processes.
- Review and make usecase driven Data Governance decisions

OPERATIONAL LEVEL (CROSS-FUNCTIONAL AND UNIT SPECIFIC FORUMS)

- Cross-functional
 - Develop and maintain corporate materials/artefacts such as glossaries, data models, etc.
 - Collaborate and build synergies xZEISS to address shared data problems.
- Unit specific
 - Localized (unit specific) collaborations for addressing internal data problems.
 - Develop and maintain local segment specific materials/artefacts such as data quality rules, compliance etc.

We have accomplished a lot, but not everything went according to plan



- External “authority” helped getting things started
- Contributions from the pilot segments ensured staying grounded
- Many parts of the organization understood the long-term character of data governance



- xZEISS alignments took way longer than expected
- Planned effort and project organization had not been reasonable
- Some units are still hesitating to get involved

Going beyond the foundation: Governing the Enterprise Data Platform



Data Mesh Guardrails

Changing our perception of DLZ and Data Products



Analytics requirement needs a data product, not a landing zone



A data landing zone is a technical concept which is internal to the data platform



Increasingly, analytics requirements will be met by re-using or combining existing data products



Exceptions: valid requirements (mostly around data sensitivity/privacy) leading to dedicated landing zones

Agenda



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Seeing beyond