Data Management Plan

What is it?

- A **governing document** that **defines the rules** for the road for use of an organization's Environmental Data Management System (EDMS).

What does it really mean?

- With ever-changing environmental data, a data management plan helps keep the **data workflow running smoothly**.

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Data Management Plan vs. Data Governance Plan

DATA MANAGEMENT PLAN

- Outlines the specific processes and technical details for handling data
- Focusing on how to collect, store, and access data
- **The HOW of data handling**

DATA GOVERNANCE PLAN

- Establishes the policies, standards, and guidelines for how data should be used/managed
- Ensuring its quality, security, and compliance with regulations
- **The "WHAT" and "WHY" behind data management practices**

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Key Components of a **DMP**

- ✓ Data Collection
- ✓ Documentation
- ✓ Storage and Security
- ✓ Sharing and Accessibility
- ✓ Archiving and Preservation
- ✓ Responsibilities and Resources

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Data Management Plan Value

➤ Enhance data integrity and quality

➤ Ensure compliance with data requirements

➤ Improve efficiency in data handling and sharing

➤ Facilitate data reproducibility

➤ Support long-term data preservation

| Enhanced Data Quality | Compliance | Efficiency | Reproducibility | Long Term Data |

How does it help with Enhanced Data Quality?

Standardized data formats to improve accuracy

Minimizes errors and inconsistencies

Supports validation and verification processes

Enhanced Data Quality | Compliance | Efficiency | Reproducibility | Long Term Data
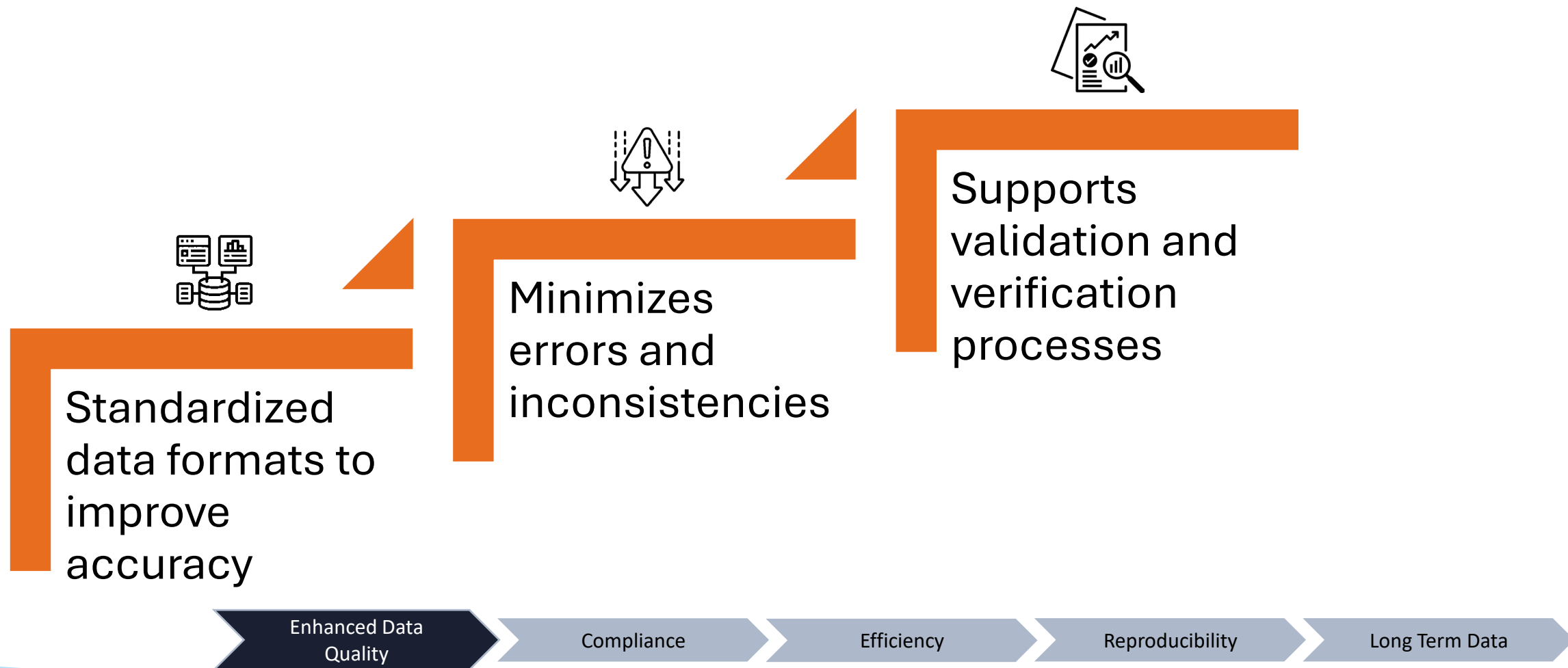
How does it help with Compliance of Data Requirements?

- Some funding agencies require DMPs

- Adherence to Regulatory Requirements

- Ethical considerations for data usage and privacy

- Keep your IT group happy

Enhanced Data Quality | Compliance | Efficiency | Reproducibility | Long Term Data

How does it help with Efficiency in Data Management?

- Saves time by planning data handling in advance

- Reduces duplication of efforts

- Enhances collaboration among teams

Enhanced Data Quality | Compliance | **Efficiency** | Reproducibility | Long Term Data

How does it help with Facilitating Data Reproducibility?

- People all over pull and producing same results

- Promotes ability to build on existing data

- Supports transparency and credibility

| Enhanced Data Quality | Compliance | Efficiency | Reproducibility | Long Term Data |

How does it help with Long-term data preservation?

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Prevents data loss over time

Supports historical and future needs

Encourages data citation and recognition

Enhanced Data Quality → Compliance → Efficiency → Reproducibility → Long Term Data

DMP Value

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Enhance data integrity and quality

Ensure compliance with data requirements

Support long-term data preservation

Improve efficiency in data handling and sharing

Facilitate data reproducibility

How can ddms help?

✓ Define your Data Management or Data Governance Needs

✓ Industry Best Practices

✓ Provide detailed documentation and quick reference guides

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Discussion or Questions

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