Best (and worst) practices in data governance.

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What is Data Governance and Why is it Needed/What's Changed?

In my 30+ years with the Iowa DOT

- **GPS**
  - **1989** — Magellan introduces NAV 1000, the first hand-held GPS device. First Block II satellite is launched.
  - **1993** — Constellation of 24 satellite system becomes operational.
  - **1995** — Full Operational Capability (FOC) declared.
  - **2000** — Selective Availability discontinued by the U.S. Government.
  - **2004** — Qualcomm successfully completes test of live assisted GPS on a mobile phone.
- **Information Technology**
  - Netscape Mosaic - 1994
  - Data Storage Capabilities
  - ETL
  - IOT
  - GIS
- **Mobile Devices**
  - IPhone, Tablets, Mobile Devices

- Data Governance is a discipline that provides clear-cut policies; procedures; standards; roles; responsibilities; and accountabilities to ensure that data is well-managed as an enterprise resource.
  - — *from the DGPO Data Governance Glossary*

- *"Data Governance is a system of decision rights and accountabilities for information-related processes, executed according to agreed-upon models which describe who can take what actions with what information, and when, under what circumstances using what methods."*

When you refer to governance, be careful! Depending on the context, "Data Governance" could refer to:
- organizational bodies
- rules (policies, standards, guidelines, business rules)
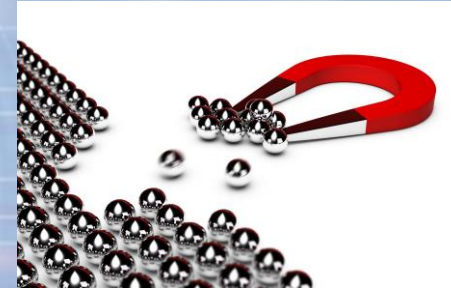- decision rights (how we "decide how to decide")
- accountabilities
- enforcement methods for people and information systems as they perform information-related processes.

The Data Governance Institute

Back to Defining Data Governance

- Financial Records
- PII

- More Diverse sets of Data

Necessities of Good Data Governance

1.) You need to develop your own definition of Data Governance.

- It's Meaning
- It's Purpose
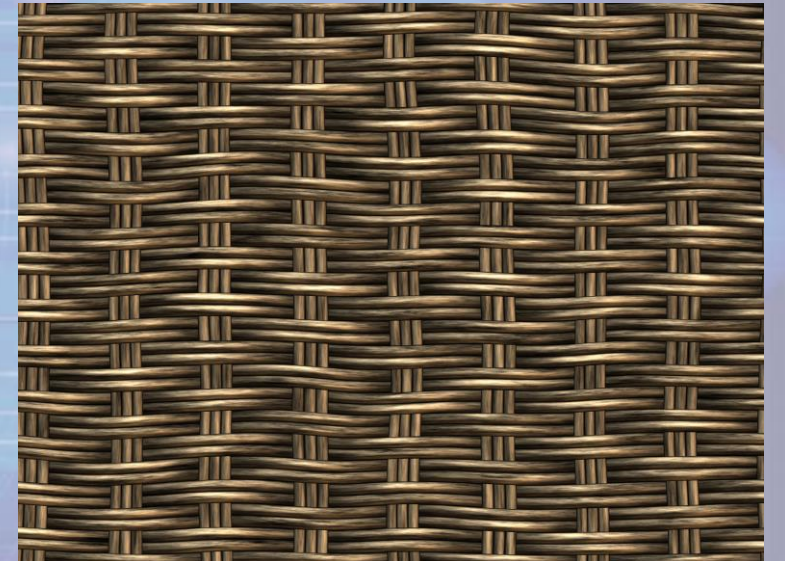- It's Value to the Organization

Necessities of Good Data Governance

2.) You need to develop a strategic and tactical plan that not only considers conventional components but:

- Organizational Culture
- Organizational Structure
- Organizational Readiness
- Organizational Decision Making

Data Governance needs to be woven into the organization

Necessities of Good Data Governance

3.) You need to realize that Data Governance is a Journey

- Technology rapidly changing
  - ML & AI
- Data in motion vs. Data at rest
- Changing role of organization
  - "Construction Co." vs. "Mobility Maximizer"
  - Identity
- Data Governance – Prescribed to Distributed to Emergent
- 3rd Party Data

Necessities of Good Data Governance

4.) You need to be adequately resourced/supported to succeed

- Given the complexity and long term effort, dedicated staff must be assigned
- Can't continue to load someone's plate
- Executive sponsorship/involvement necessary as barriers are encountered or to reinforce guiding Principles.

Necessities of Good Data Governance

5.) You need to be Collaborative and have
Good Communication Skills

- First and foremost, this is an enterprise activity
- No one individual has the ability to see the complete "whole"
- The vision for data governance needs to be Communicated in a clear, compelling way

Some Last Thoughts

Data Governance is not an end in itself. It is not only about allowing us to integrate data, but integrating the organization. It also is a powerful force that can align your organization to its mission and vision. One in which you can truly engage your workforce to help create a successful future.