Measuring Data Governance Maturity at Stanford

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Data Governance

DG is the formalizing of behavior around the definition, production and usage of data to manage risk and improve the quality and usability of the selected data.*

* As the quality and the usability enables more efficient and effective operational processes and strategic decisions

Non-Invasive Data Governance, Robert Seiner, TDAN
Data Governance Components

PEOPLE
- Authority
- Data Stewardship
- Business Role
- Collaboration
- Accountability
- Cultural Attitude

POLICY
- Policy Management
- Communication
- Issue Resolution
- Decision Rights
- Performance Mgmt
- Info Flow Mgmt

TECHNOLOGY
- Data Policies and Rules
- Process Orchestration
- Compliance Monitoring
- Modeling
- Master Data
- Data Quality Mgmt

From the Kalido DG Maturity Model
Data Governance Plan

**PROJECT**
- HR Metrics Dashboard
- Org Hierarchy
- Research Data Quality

**FOUNDATION**
- Institutional Data Dictionary
- Institutional Information Flows
- DG Processes and Procedures
Why Build a Maturity Model

If you cannot measure it, you cannot improve it.

- Lord Kelvin (William Thompson)
## Stanford DG Maturity Scorecard

<table>
<thead>
<tr>
<th>Foundational</th>
<th>People</th>
<th>Policies</th>
<th>Capabilities</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Awareness</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Formalization</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>2.7</td>
</tr>
<tr>
<td>Metadata</td>
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<td>1</td>
<td>2</td>
<td>1.7</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>2</td>
<td>2.3</td>
<td>1.7</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project</th>
<th>People</th>
<th>Policies</th>
<th>Capabilities</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stewardship</td>
<td>5</td>
<td>2</td>
<td>4</td>
<td>3.7</td>
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<tr>
<td>Data Quality</td>
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<td>1</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Master Data</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2.3</td>
</tr>
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<td><strong>Total</strong></td>
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<td>2.3</td>
</tr>
</tbody>
</table>
# Qualitative and Quantitative Measures

## Formalization — Policies

<table>
<thead>
<tr>
<th>Maturity Level</th>
<th>Qualitative</th>
<th>Quantitative</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No formal data governance policies exist.</td>
<td></td>
</tr>
</tbody>
</table>
| 2              | High-level data governance meta-policies are defined and distributed. | • # of meta-policies defined  
• # of meta-policies documented  
• # of meta-policies approved |
| 3              | Data policies around the governance of specific data are defined and distributed as best practices. | • # of data policies identified  
• # of data policies documented  
• # of data policies approved |
| 4              | Data policies become official Stanford data policies and compliance with approved data policies is audited. | • # of official data policies approved  
• # of data policies with audit process implemented |
| 5              | Compliance with official Stanford data policies is actively enforced by a governing body. | • # of exceptions to official data policies  
• Average time to resolution of policy exceptions |
Short-term DG Activities

- Finalize DG maturity model and indicators
- Establish Stanford DG maturity baseline
- Develop metadata through HR Metrics project
Short-term DG Activities

• Develop institutional data subject areas
  – Map to major data entities

• Define DG organizational structure

• Define stewardship responsibilities
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Resources

• Data Governance Website
  – http://dg.stanford.edu/

• Data Governance Wiki
  – https://asconfluence.stanford.edu/confluence/display/~mhoying/Home

• This presentation
  – http://dg.stanford.edu/?p=133

• The presentation supplement (newsletter)
  – http://dg.stanford.edu/?p=123

• Old presentations and newsletters and the current version of the DG maturity model
  – http://dg.stanford.edu/?tag=bicc