INFORMATION MANAGEMENT STRATEGY FOR SECURITY, QUALITY, AND INTEROPERABILITY

UNWDF webinar on data interoperability
Need of a Data Governance Program under an Information Management Strategy for Security, Quality and Interoperability
Information Management Strategy for Security, Quality, and Interoperability

Necesidad de un programa de gobierno de datos bajo una estrategia de gestión de la información basada en la seguridad, calidad e interoperabilidad de datos y procesos

Conceptual framework

- **Conceptual**
- **Technological**
- **Organizational**

**Goals:**
- Security
  - Confidentiality
  - Integrity
  - Availability
- Quality
  - Relevance
  - Accessibility
  - Timeliness
  - Coherence
  - Accuracy
- Interoperability
  - Conceptual
  - Technological
  - Organizational

**Components:**
- Information Security System
- Operations security
- Human factor
- Process standardization
- Information evaluation
- Improvements management
- Modeling
- Technological solutions
- Governance

New data ecosystem
# Maturity Model for Enterprise Interoperability*

<table>
<thead>
<tr>
<th>Concerns</th>
<th>Barriers</th>
<th>Conceptual</th>
<th>Technological</th>
<th>Organizational</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business</td>
<td>Business models, enterprise visions, strategies, objectives, policies</td>
<td>Infrastructure, technology</td>
<td>Work methods, business rules, and organizational structure</td>
<td></td>
</tr>
<tr>
<td>Process</td>
<td>Processes models</td>
<td>Tools supporting processes modeling and execution</td>
<td>Responsibilities, process management and rules</td>
<td></td>
</tr>
<tr>
<td>Service</td>
<td>Services models</td>
<td>Tools supporting services and applications</td>
<td>Responsibilities, service and application management and rules</td>
<td></td>
</tr>
<tr>
<td>Data</td>
<td>Data models, (semantic, syntax)</td>
<td>Data storage and exchange devices</td>
<td>Responsibilities, data management and rules</td>
<td></td>
</tr>
</tbody>
</table>


---

Information Management Strategy for Security, Quality, and Interoperability

Sergio Carrera
<table>
<thead>
<tr>
<th>Interoperability Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 0: Unprepared</td>
<td>Isolated</td>
</tr>
<tr>
<td>Level 1: Defined</td>
<td>Connected</td>
</tr>
<tr>
<td>Level 2: Aligned</td>
<td>Integrated</td>
</tr>
<tr>
<td>Level 3: Organized</td>
<td>Unified</td>
</tr>
<tr>
<td>Level 4: Adaptive</td>
<td>Federated</td>
</tr>
</tbody>
</table>

First steps

Security
- Information Security Committee
- Rules and Policy

Quality assurance
- Quality Assurance Committee
- Rules and Policy

GSBPM implementation
- Model adaptation to INEGI and SNIEG
- Mandatory process documentation "as-is"

Metadata standardization
- National Metadata Network (statistics)
- Metadata Center (geography)

Sergio Carrera