### Metadata Repositories: Loosely-controlled Environments

- Each discrete metadata dataset retains its independent identity
  - can be used without a union catalog
  - can exist in two places, may not be identical
- Multiple standards were applied
- Voluntary metadata sharing
  - no central authority / management
- Records were created by trained and untrained metadata authors

### Levels of Quality

- Stand-alone databases/data sets
  - individual records
- Shared databases / repositories
  - Individual records
  - Converted records
  - Duplication

### Measurement Aspects

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<tr>
<th>Completeness</th>
<th>Consistency</th>
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<tr>
<td>Correctness</td>
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<tr>
<td>Duplicates</td>
<td>intra- &amp; inter-collection</td>
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</table>

### Quality Assurance

**Make Policies:**
- minimum quality requirements,
- quality measurement instruments,
- quality enforcement policies,
- quality enhancement actions, and
- the training of metadata creators.

**Use Tools:**
- Instructions
- Templates for input records, with suggested syntax, vocabularies, and built-in values
- Duplicate-checking algorithm

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### Sample-level Analysis

- NSDL record
- Original record
- Source code

### Collection-level Analysis

- Record-level Analysis

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**NSDL Metadata Repository Quality Analysis**

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http://appling.kent.edu/NSDLMetadataQuality/