Curation Tools

Community Landscape

We have more and more tools…

* How do the tools we have fit together?
* What gaps are there to fill?
* How do we measure effectiveness?

Technology Developments

Outcomes:

* **Enhancement**: doing a known thing better
* **Alternative**: doing a known thing differently
* **New ability**: doing a new and desired thing
* **Innovation**: doing a new and unimagined thing

Optimal Developments

* Characteristics of good developments
  o written in a well-documented language
  o usable on a wide variety of platforms
  o longevity – commitment, duration of support
  o modular in design
  o support for batch processing and workflows
  o designed for workflow integration
  o development by quality staff
  o licensing options and good access to code

Impact/Application

At what level do tools apply?

* Object

* Collection/Aggregate

* Repository

* Community

Stages of Automation

* **Basic tool**: improvement, but only a step away from manual process

* **Tool refinement**: take advantage of automation benefits to develop basic tool

* **Tool production**: develop stable tool with managed phases of development

* **Basic workflow**: defines basic sequence of tool application and actions

* **Workflow refinement**: string tools together

* **Workflow production**: full integration of process

Five Stages

1. *Acknowledge:* identify need for tool
2. *Act:* initiate tool development project
3. *Consolidate:* share as open source
4. *Institutionalize:* production mode
5. *Externalize:* integrated into workflows