**The Need & Assumptions**

- NSDL Collections and Pathways have a wealth of resources. OpenCourseWares also have a wealth of resources.
- OpenCourseWares and Open Educational Resource (OER) collections can provide context to NSDL resources.
- NSDL resources can enrich OpenCourseWare course materials (and other OERs).

**Assumptions:**
- Design and implementation should be simple and clean.
- NSDL Collections and Pathways and OpenCourseWares (and other OERs) should be able to easily integrate the service into their site.
- End users should be able to access recommendations even if the collection does not directly participate.

**Solution**

- “Harvest” metadata from NSDL Collections & Pathways (via NSDL Data Repository) and OpenCourseWares (via RSS).
- Create a simple recommender system and process metadata (titles, descriptions, tags) to link resources based on URL and feedback loops (clicks).
- **Integration:**
  - OER Commons (oercommons.org), eduCommons 3.1.1 OpenCourseWares (e.g., ocw.nd.edu, ocw.usu.edu), OpenLearn (openlearn.open.ac.uk)
  - Simple Display: One line of Javascript (or use XML) to display on site(s).
  - Optional: Display recommendations via Greasemonkey script (Firefox browser plug-in).

**Future Work**

- Extend prototype to relevant NSDL Collections and Pathways and OpenCourseWares. Collaborate with projects for direct integration.
- Improve recommendations (e.g., use full resource for recommendation, other strategies).
- Improve automation for including new NSDL and OpenCourseWare data sources and optimize operations.