Outline

• PART I – Examples
  • DL Educational Benefits
  • Advancing Education
  • Community Building, Sharing, Educational Resources, …

• PART II – What, Why, How
  • What – Example
  • Why – Knowledge, Teaching, Learning
  • How - GetSmart
DL Educational Benefits

Learning could be more meaningful and include concept maps.

Teaching involves more suitable activities since higher level relationships include.
Advancing Education

through

supported by

Community Building
Sharing
Educational Resources

Digital Libraries
Community Building

example

NSDL

thru

Management (see later)

thru

CITIDEL

example

ETD 2003 (Berlin)

Training Trainers

using

NDLTD

thru

National Projects (e.g., Australia, Germany, India, …)

ETD Guide
Advancing Education through Sharing supported by Digital Libraries, Community Building, and Educational Resources.
Sharing (Examples)

by researchers
- Tech Reports
  example
  - NCSTRL (Computer Science)

by teachers
- Courseware

by students
- ETDs
- Portfolios

across roles
(see diagram)
Advancing Education

through

Community Building
Sharing
Educational Resources

supported by

Digital Libraries
Educational Resource (Benefits) – 1/2

- More resources
  - because
  - thru
  - Accessible thru WWW
  - Focused DLs
  - Universal educ. DL

- Better resources
  - thru
  - Rewarded thru Awards
  - Quality Control
  - Digital
  - Fitting to student needs

- Affordable thru from thru
  - Buyers club
  - Open Source

- Automation

- DL tools...
Educational Resource (Benefits) – 2/2

More resources
because

Bettter resources
thru

Accessible
Affordable
Rewarded
Quality Control
Fitting to student needs

Digital
supports

Smaller
makes
Malleability
Interactivity
Easier to reuse

DL tools

Composition
Students select
Personalization

thru

...
Community Building

example ...

NSDL

leads to

NSDL Serving Users

thru

eexample

Management

thru

CITIDEL

from

CITIDEL Collection Sources

thru

CITIDEL Collection Building

Collection Tracks
CITIDEL Collection Building

Submitting

Nominating

include after

Creating

Searching, Browsing

Classifying

Crawling

include after

Crawlifyer

thru

after

or thru

include after

Composing

using

VIADUCT

include after

GetSmart

thru

aided by

using
NSDL Tracks

include

CI (Core Integration)

Collections

include

CITIDEL

Services

include

GetSmart

Research

supports

Concept Maps
NSDL Management

includes

guides

CI (Core Integration)
Policy Committee
NSF Staff
National Visiting Committee

Task Forces
Standing Committees

are

Community Services
Content
Educational Impact
Technology
Sustainability
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• What are concept maps?
• Why concept maps?
• How to construct concept maps?
Why concept maps?

- Help effective teaching and effective learning
- Get smarter
Knowledge Input → Sensory Memory (1 sec. Duration)

- Short term or working memory
  - 1-30 sec. Duration
  - Limited to 7 + 2 independent chunks

Long Term Memory
- Minutes to lifetime recall
- Rote and Meaningful Learning continuum
How to construct concept maps?

• Use GetSmart tool
Summary

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