

Chicago, Illinois, USA November 11-12, 2002

Impact and Opportunity of Digital Reference in Primary and Secondary Education



Hosted by:  and 

Virtual Reference Desk Conference 2002

The Digital Reference Research Symposium

Digital Reference

Research Symposium
Cambridge, Massachusetts

August 1-3, 2002

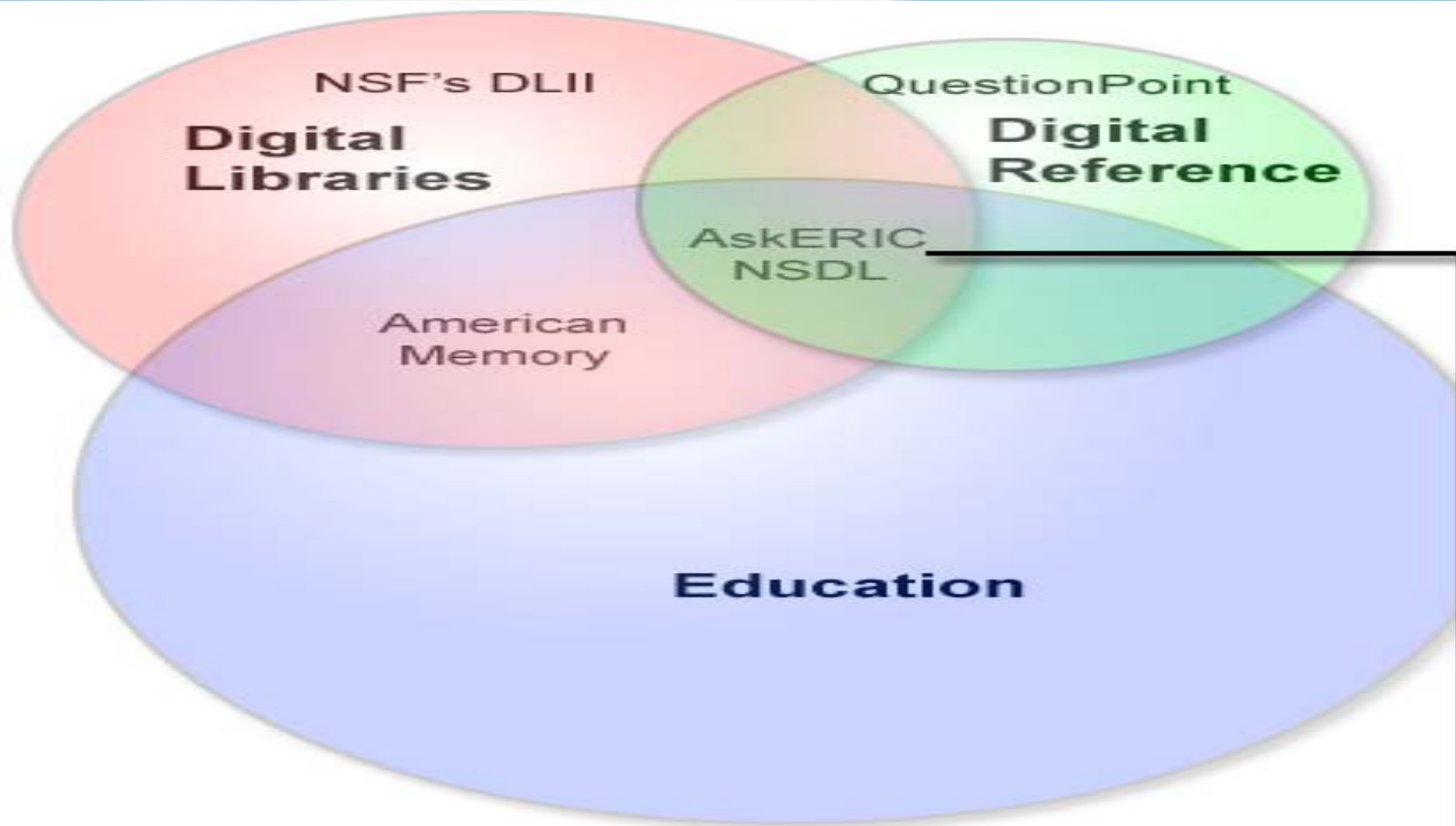
quartz.syr.edu/symposium

Virtual Reference Desk Conference 2002

Primary and Secondary Education

- Revelatory Case
 - Well Researched
 - Well Funded
 - Stable Funded
- However...
 - Research has Been General Digital Reference in Nature

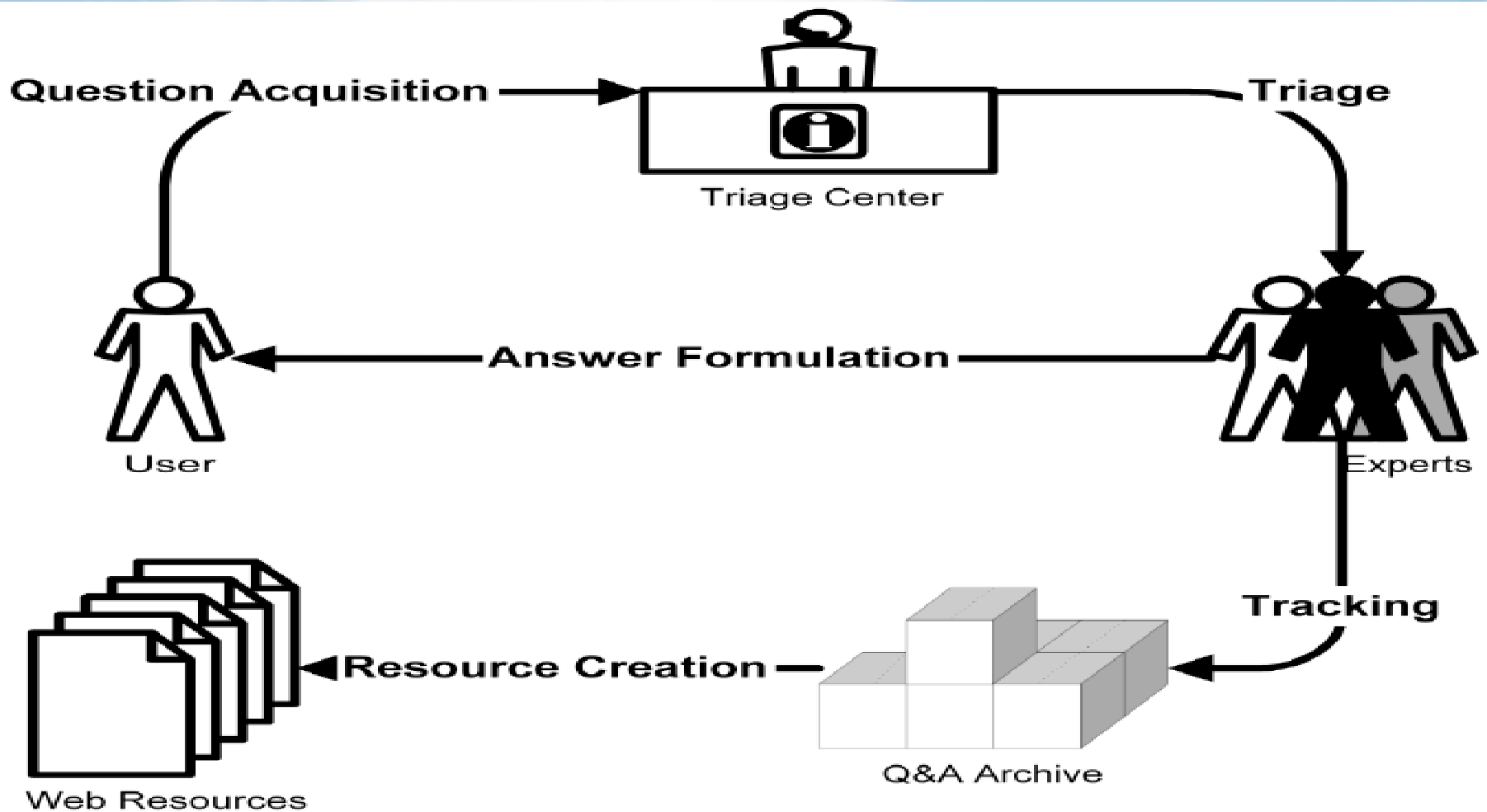
Models of Digital Reference for Education



This White Paper

Virtual Reference Desk Conference 2002

General Digital Reference Model



User Types in Education

- Professional Population
 - this class includes the paid staff of an educational institution whose purpose is to deliver education content or their equivalent (such as a parent who home schools)
- Student Population
 - this class covers members of the education community who are primarily receiving education information
- Affiliated Population

Producers versus Consumers

User Type	Information Consumed	Information Produced
Professional Population		
Teacher	<ul style="list-style-type: none"> • Curriculum (lesson plans, unit plans, activities) • Texts (text books, articles, primary source materials) • Advice (mentorship, best practices, evaluations, peer evaluations, training, professional development literature) 	<ul style="list-style-type: none"> • Curriculum (lesson plans, unit plans, activities) • Texts (text books, articles, primary source materials) • Advice (mentorship, best practices) • Evaluation (grades, progress reports, peer evaluations) • Lectures (delivery of instruction)
Administrator	<ul style="list-style-type: none"> • Model Programs (best practices, case studies) • Statistics (testing, population, comparative data) • Performance Data (evaluations) • Policy (standards, legislation, regulation) 	<ul style="list-style-type: none"> • Local Data (best practices, statistics, performance data) • Policy
School Library Media Specialist	<ul style="list-style-type: none"> • Curriculum • Source Documents • Research Literature (journal articles, ERIC publications) • Multimedia Data 	<ul style="list-style-type: none"> • Synthesis (pathfinders, list of links, webliographies) • Assessments (web assessments, peer evaluations)
Counselor	<ul style="list-style-type: none"> • Career Data (job availability, career trends) • Higher Education Data (entrance requirements, school rankings) • Research Literature 	<ul style="list-style-type: none"> • Synthesis • Trend Data (student performance, career choice, alumni data)
Specialist Educator	<ul style="list-style-type: none"> • Training (topical education for technology, special education, etc) • Best Practices 	<ul style="list-style-type: none"> • Best Practices • Assessments

Producers versus Consumers

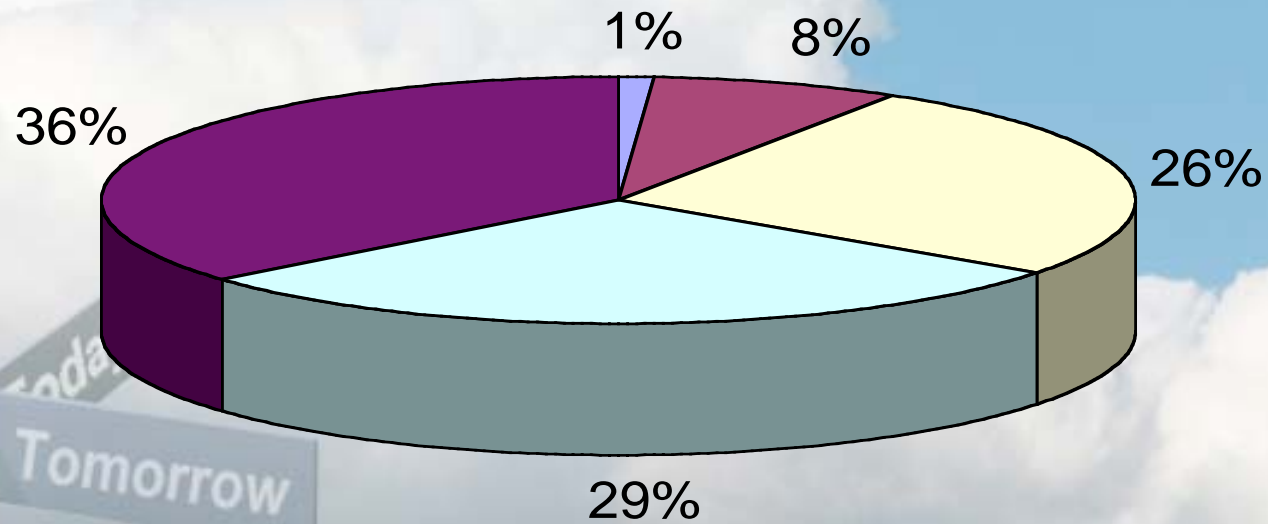
Student Population		
Primary Student	<ul style="list-style-type: none"> • Lessons (activities, online activities, simulations) • Fiction (story books, educational television) • Primary Source Material • Texts 	<ul style="list-style-type: none"> • Projects (multimedia materials) • Fiction
Secondary Student	<ul style="list-style-type: none"> • Lessons • Nonfiction (biographies, histories) • Higher Education Information (college brochures, school rankings) • Primary Source materials • Texts • Evaluations (tests, assignments) 	<ul style="list-style-type: none"> • Projects • Papers • Fiction • Field Data • Synthesis
Gifted Student	<ul style="list-style-type: none"> • Enrichments (further readings, college courses) • Lessons • Nonfiction (biographies, histories) • Higher Education Information (college brochures, school rankings) • Primary Source materials • Texts • Evaluations (tests, assignments) 	<ul style="list-style-type: none"> • Projects • Papers • Fiction • Field Data • Synthesis • Advice
Special Education Student	<ul style="list-style-type: none"> • Added Assistance (tutoring) • Lessons • Nonfiction (biographies, histories) • Primary Source materials • Texts • Evaluations (tests, assignments) 	<ul style="list-style-type: none"> • Projects • Papers • Fiction • Field Data • Synthesis

Producers versus Consumers

Affiliated Population		
Education Researcher	<ul style="list-style-type: none"> Statistics Case Studies Research Professional Produced Materials (curriculum resources) Student Produced Resources Evaluations Peer Assessments 	<ul style="list-style-type: none"> Research Results (articles, data sets, lectures) Research Tools (methodologies, apparatus) Assessments Advice
Parent/Guardian	<ul style="list-style-type: none"> Assessments (school performance data, teacher performance data, student performance data) Curriculum (assignments, topics) Texts 	<ul style="list-style-type: none"> Advice Assessments
Pre-Service Educator	<ul style="list-style-type: none"> Curricula Texts Assignments Research 	<ul style="list-style-type: none"> Assignments
Higher Education Teacher	<ul style="list-style-type: none"> Case Studies Curriculum Statistics Research 	<ul style="list-style-type: none"> Case Studies Curriculum Statistics Research
Policy Maker/Government	<ul style="list-style-type: none"> Statistics Best Practices Assessments 	<ul style="list-style-type: none"> Policies (law, regulation, rules)
Public Librarian	<ul style="list-style-type: none"> Source material 	<ul style="list-style-type: none"> Synthesis
Business Community	<ul style="list-style-type: none"> Assessments Statistics 	<ul style="list-style-type: none"> Assessments
Media	<ul style="list-style-type: none"> Best practices Statistics Research Synthesis 	<ul style="list-style-type: none"> Synthesis

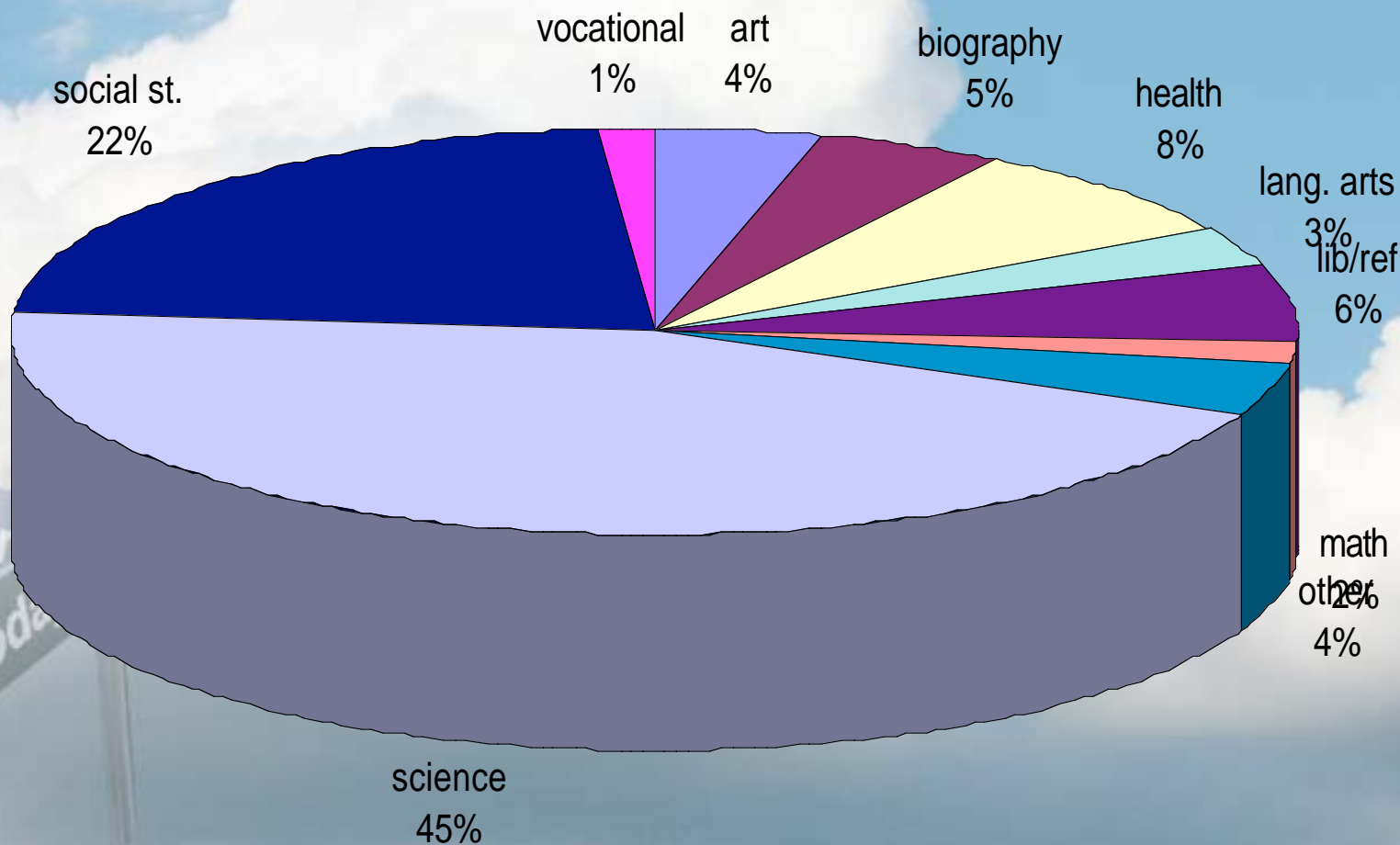
Students

Age Groups KidsConnect Served

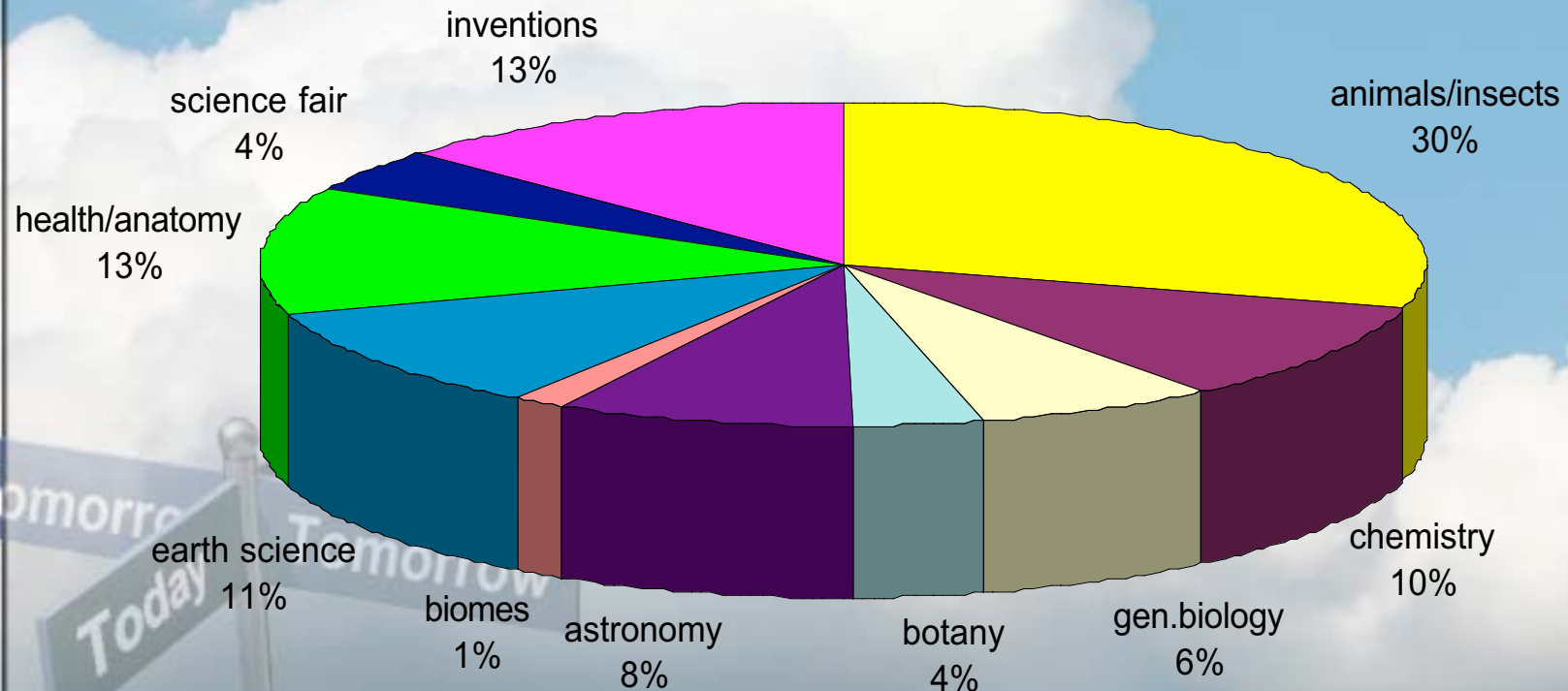


adult	unknown	high school
middle school	elementary	

Students - Topics

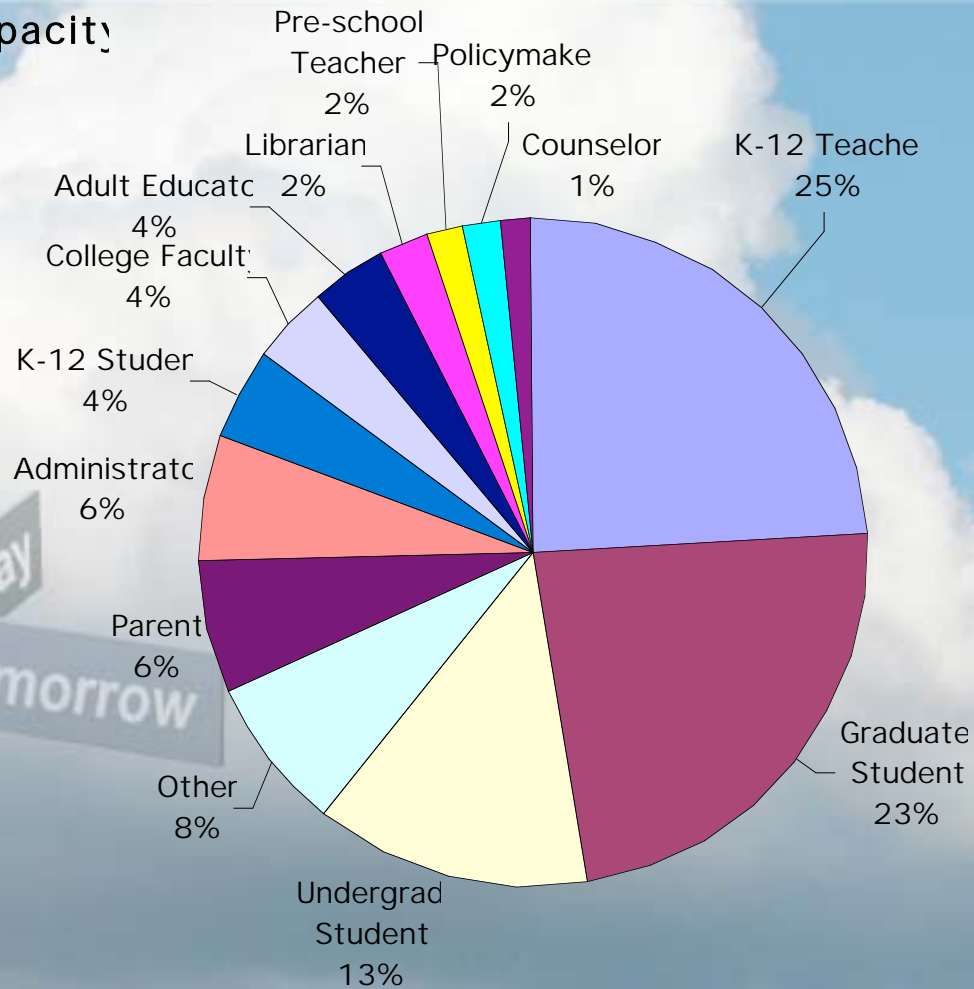


Students – Science Topics



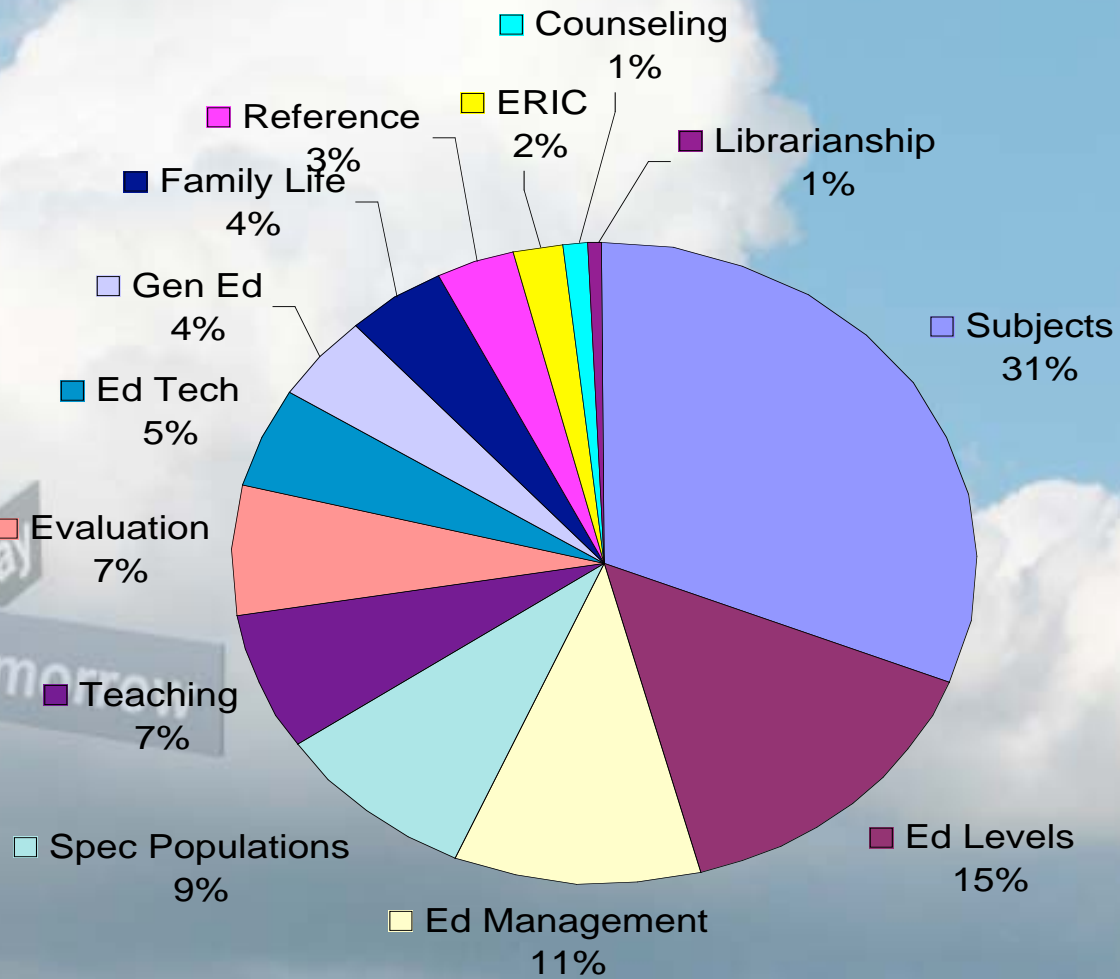
Education Professionals

Capacity



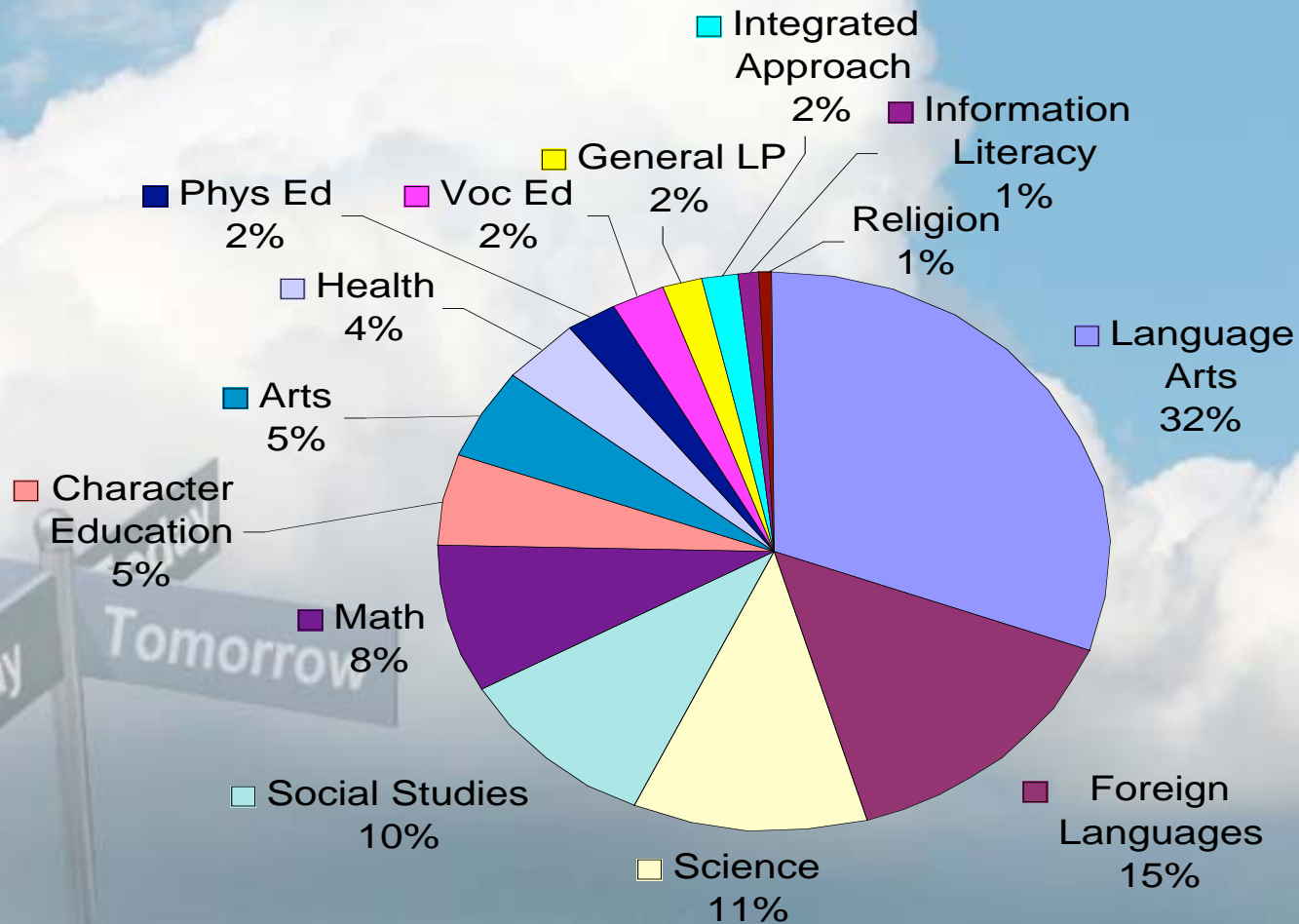
Virtual Reference Desk Conference 2002

Education Professionals - Topics



Virtual Reference Desk Conference 2002

Education Professionals – Topics, “Subjects”



Virtual Reference Desk Conference 2002

Issues

- Information Literacy
- Privacy
- Credentials and Expertise
- Rhetorical Levels
 - Sophistication of Language and Terminology
 - Sophistication of Procedures
 - Primary Language Affiliation

Issues of Identity

Area of Issue	User	Service
Information Literacy	Need for Instruction	Need to Instruct
Privacy	Need for Privacy	Need for Context of User
Credentials and Expertise	Need for Trust	Need for Reputation
Rhetorical Levels	Need to Understand (and Apply)	Need to be Understood

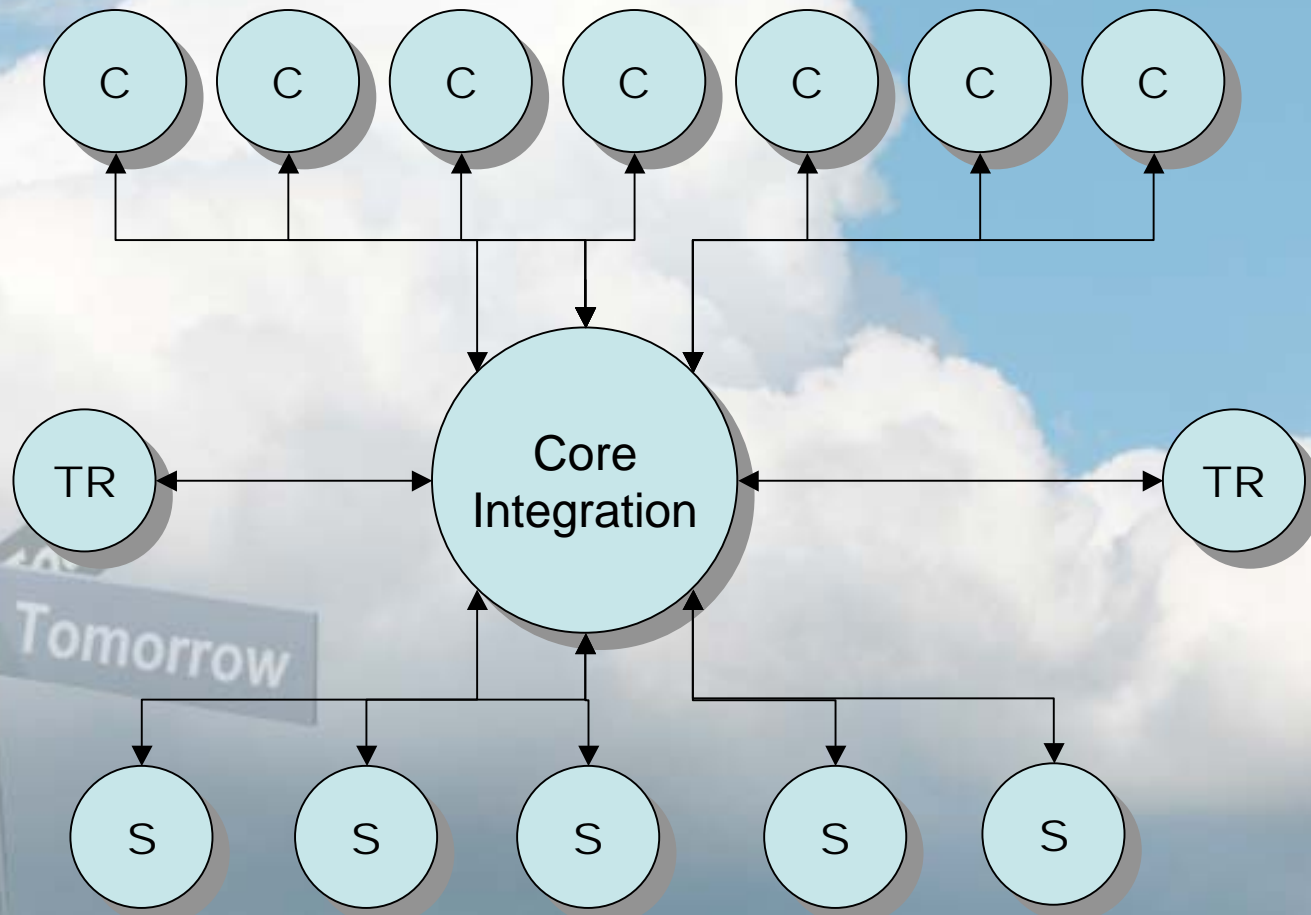
Coming Initiatives



THE NATIONAL SCIENCE DIGITAL LIBRARY

<http://www.nsdlib.org>

Virtual Reference Desk Conference 2002



Education Digital Library Initiative



- Combines The Gateway to Educational Materials (GEM) Project and the Virtual Reference Desk (VRD) Projects
 - To Promote better Teaching and Learning through Digital Library Technologies
 - To better Equip the Dept. in its operations

Virtual Reference Desk Conference 2002

Directions for EDLI

- Merging of Web Presence ("Portal")
 - Linking VRD Responses to GEM Resources as Means of Providing Users with Quality and Context Judgments
 - Providing quality resources to Learning Center users by linking to relevant resources in The Gateway
 - Providing digital reference functionality in The Gateway
- Collaborating Tool Development, Testing, and Implementation
- Fostering Synergy Between Digital Reference (AskA Consortium) and Education Content Provider (GEM Consortium) Communities
 - Coordinating of meetings around VRD Conference

Virtual Reference Desk Conference 2002

Future Research

- Motivation
- Impact on Assessment
- Classroom Integration
- Resource Type Delivery to Education Professionals

Tomorro

Today

Tomorrow

Virtual Reference Desk Conference 2002