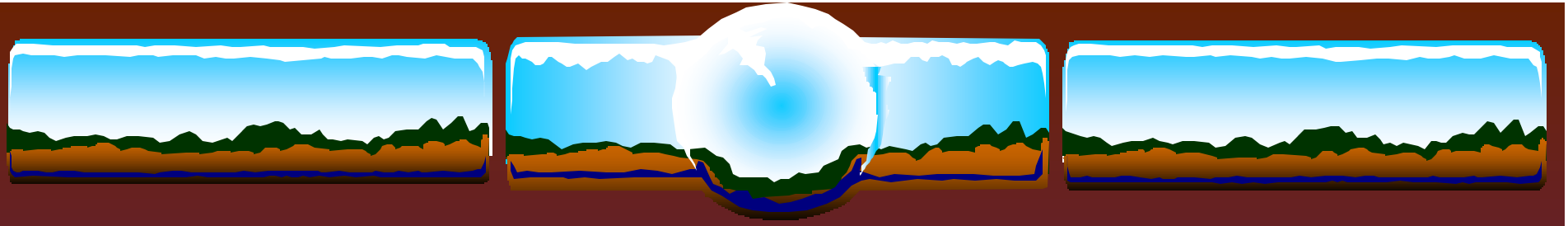


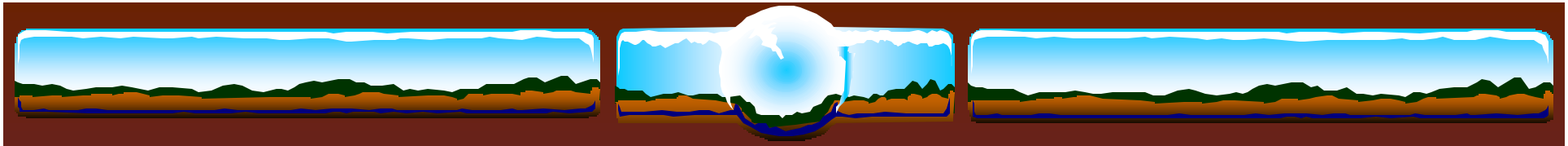
Scientific and Technical Information Program Goals

Those Achieved and Those Ahead

Sharon Jordan

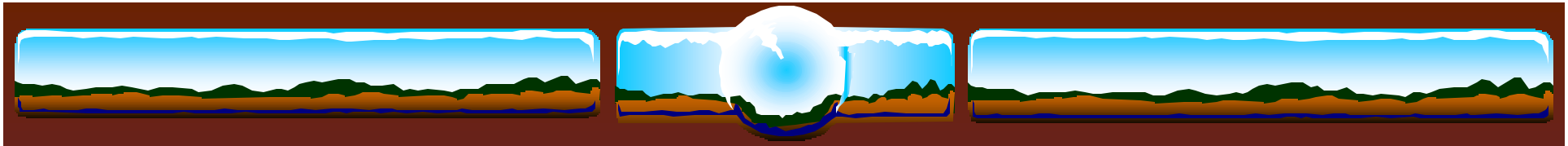
DOE STIP Meeting

April 28, 2004



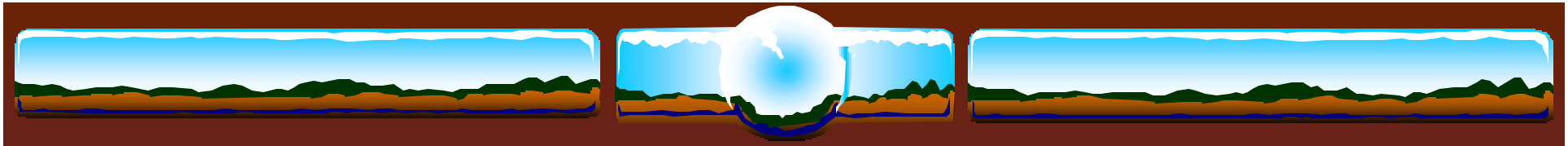
Desired Outcome

- DOE research results are efficiently and effectively provided to customers and users
  - Through continuous improvement
  - Work out challenges
  - Set practical goals



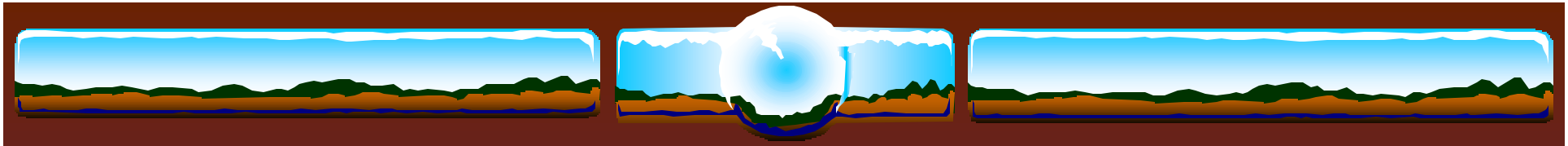
STIP Goals Revisited

1997	2003
1. Access to STI	Implement innovative approaches to sharing STI with appropriate audiences
2. Collaboration	At each site, STI, research, and information security professionals partner to balance sharing and protection of valuable but sensitive STI
3. Best Practices	Share lessons learned and success stories at individual sites with larger STIP community
4. Customer-Focused	



Transition to Electronic Achieved

- FY 91 – STIP sets out on journey with SGML
- FY 93-94 – STI Order acknowledges distributed environment
- FY 95 – Electronic processing capability implemented
- FY 97/98 – Electronic exchange defined in Order and Guide
- FY 99 – E-link developed; FT links accepted
- FY 01 – Paper ceased
- FY 02 – Harvesting implemented
- FY 03 – Secretary's certificate of achievement

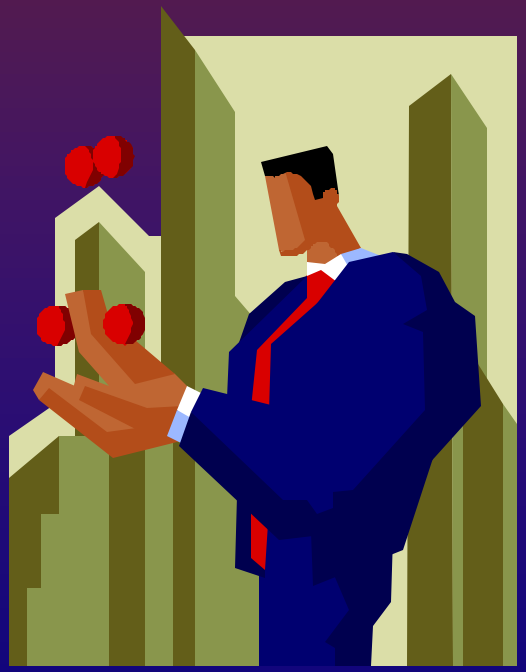


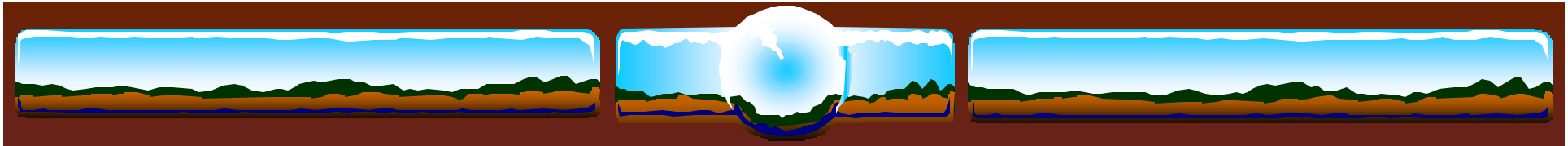
Goals Achieved

- Innovation in sharing STI:
  - Harvesting, deep Web
- Partnerships within DOE
  - SO guide, lab-by-lab
- Share lessons learned
  - STIP Home Page, ORNL presentation, OSTI exhibits

Goals Ahead

- Enhance STI access
  - Comprehensiveness of STI “collection”
    - Types of information
    - All access categories
    - Legacy documents
  - Technical enhancements
    - Unicode
    - Search/retrieval

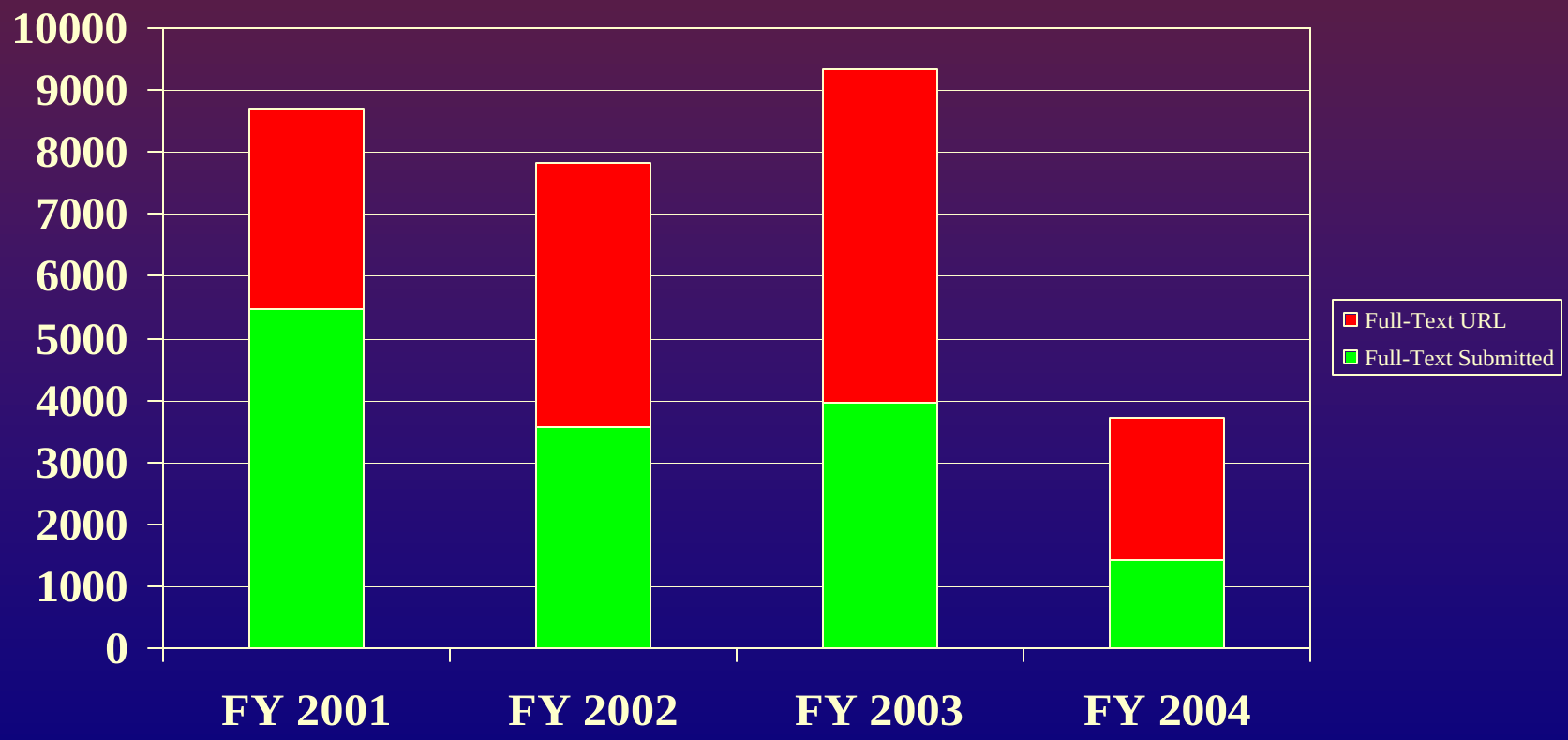


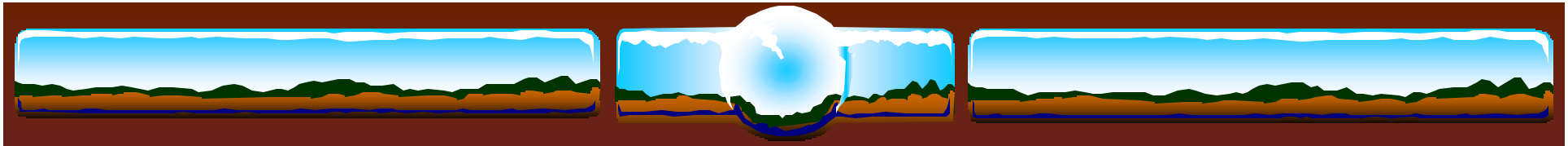


Goals Ahead (cont'd)

- Collaboration
  - Communication across business lines (OPSEC – CIO – Classification – Research programs – *and* STI)
  - Integrate changes of NNSA and other Programs
- Share combined body of knowledge and lessons learned

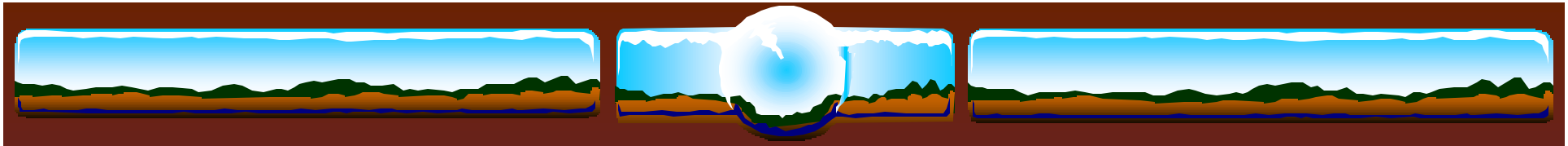
Distributed STI
Full Text Documents





Distributed Electronic Environment – Impacts to Policies/Practices

- **Repository**
  - OSTI, if FT submitted, not linked only
- **Formats**
  - Electronic options, but indexable desired
- **Revisions/updates to data/documents**
  - In hands of originating site (data too?)
- **Review/release**
  - Responsibility of originating site



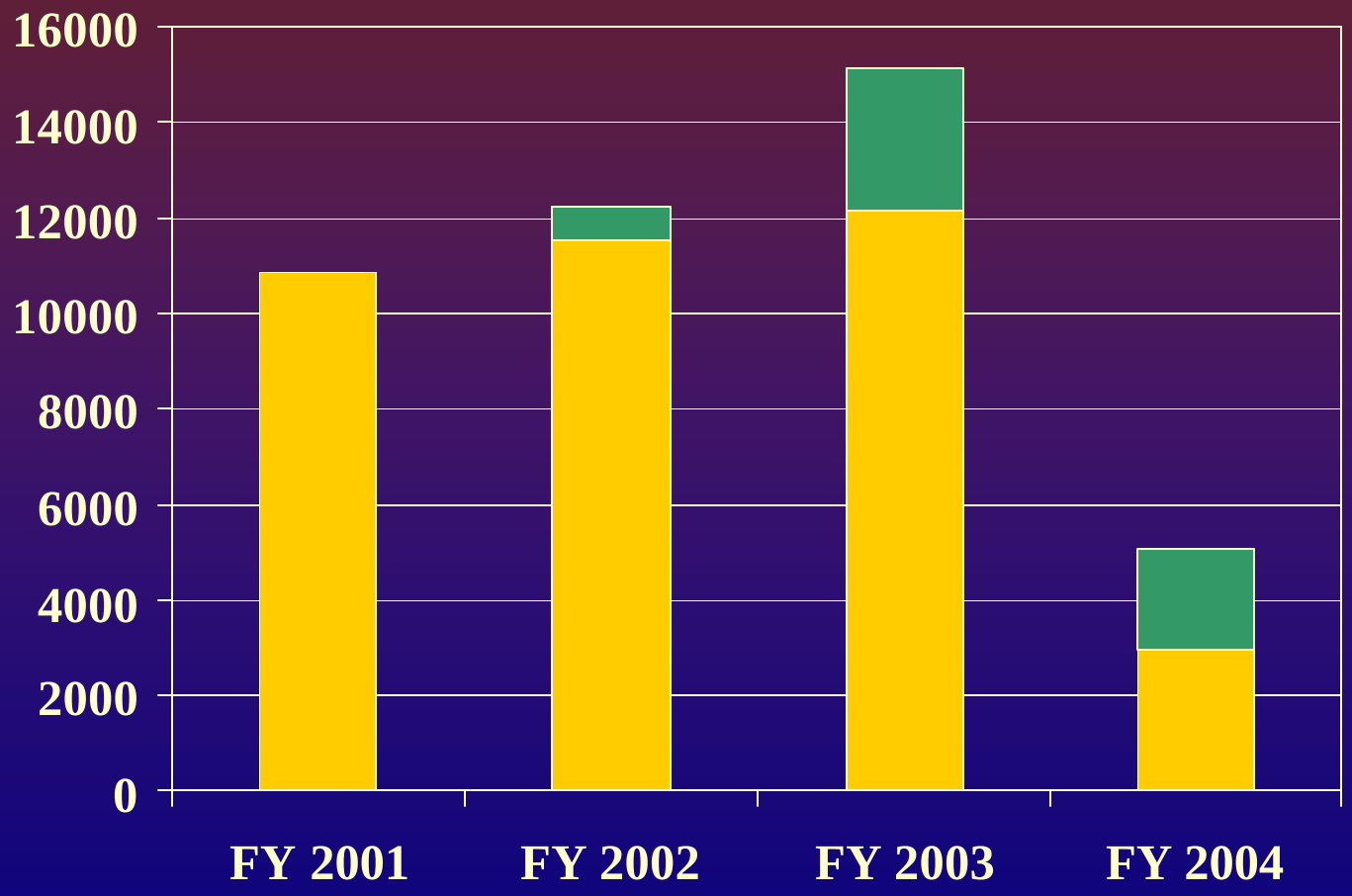
Harvesting Achieved

- Since 2002, more than 12,000 citations have been harvested by OSTI.
- Four other sites are in progress (mapping and testing)
- Two other sites are in the wings: Sandia and our Nordic partners in the International Program.

NREL
PNNL
LLNL
ANL
BNL

INEEL
SLAC
FNAL
SRS

Harvesting Contributes to Total STI



Harvesting Sites:

ANL

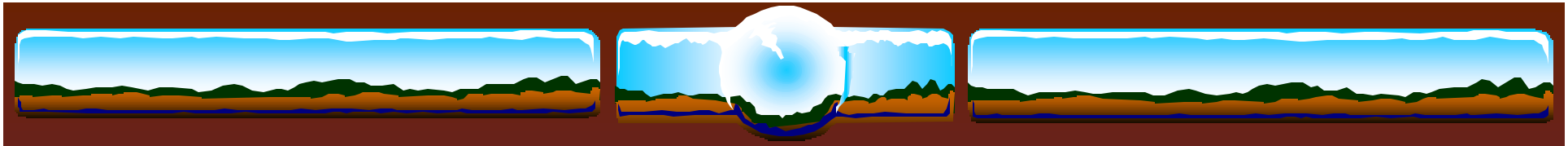
BNL

LLNL

NREL

PNNL

***Harvesting Numbers do not reflect Replaced/Updated Records**



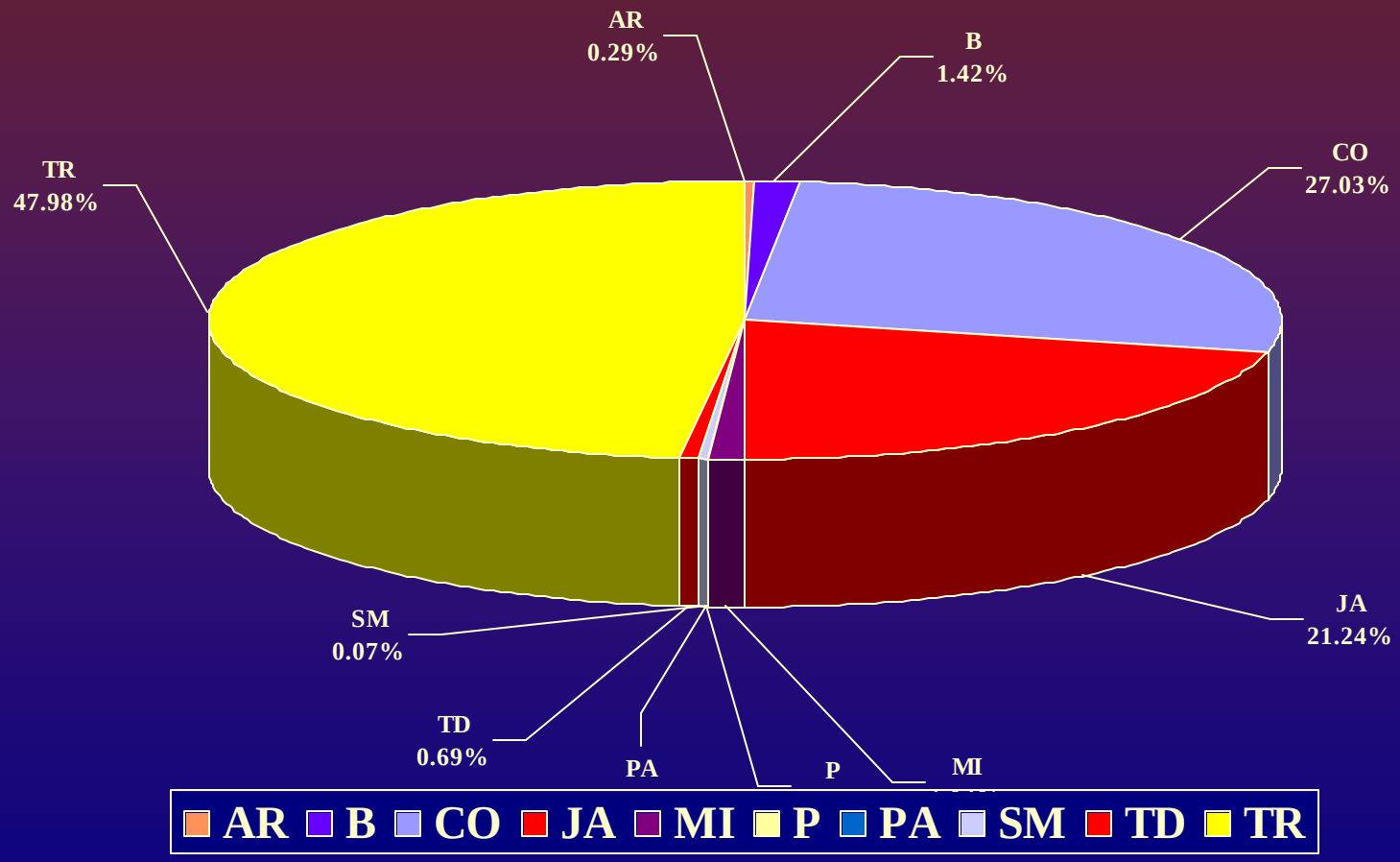
Harvesting Ahead

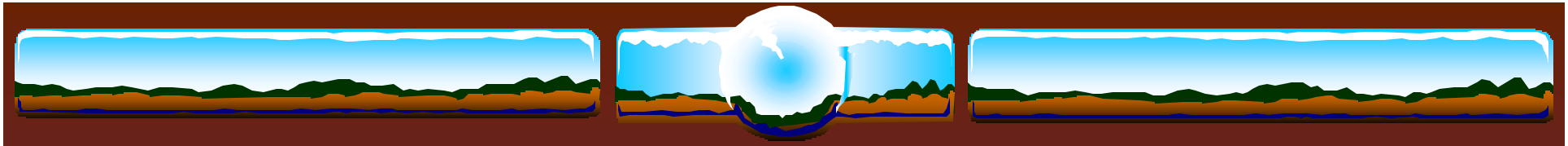
- Implement improved software site-by-site
  - Develop a web-based interface for harvesting partners.
  - Address special characters (Unicode)
- Explore the feasibility of harvesting full-text when needed.
- Explore the possibility of harvesting certain kinds of limited distribution records.

(Thursday working group)

STI Product Types

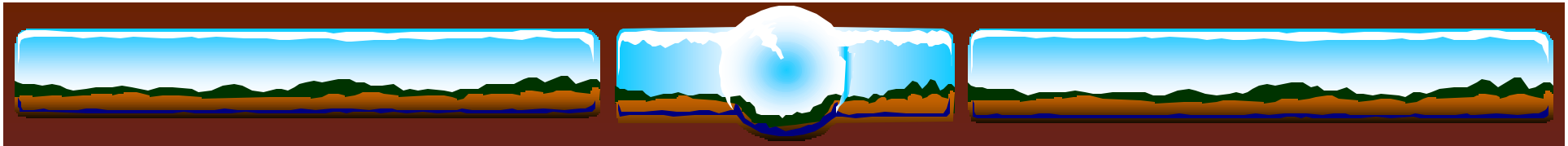
FY 2001-2004





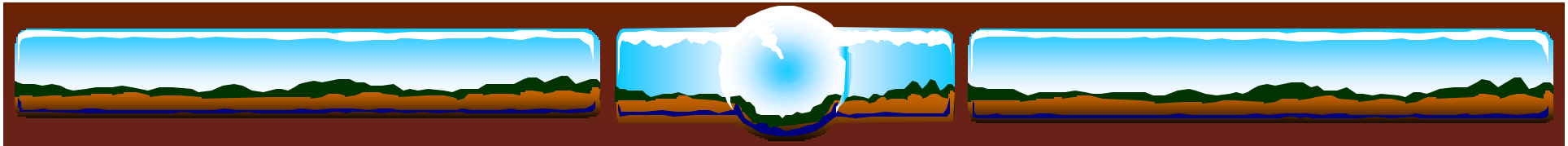
STI Acquisition Policy over Time

Product Type	Source Then	Now
Technical Reports	DOE labs and awarding offices; OGAs (since 1947)	Labs, offices, grantees
Conference literature	A&I contractors; exchanges	DOE labs/sites
Patents	A&I contractors, PTO, and OSTI staff	GC (DOE-owned)
Journal citations	A&I contractors; AIP; publishers	Labs/sites



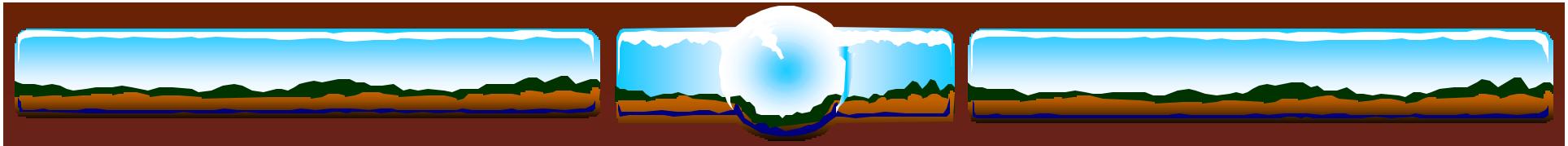
Patents Ahead

- Focus is coverage and ready access to DOE patent information (and proof of economic benefit)
- Plan to re-establish means to collect non-intrusively.
- Now tools exist such as the Patent Weasel to enable retrospective analysis of patent information obtained from the U.S. Patent and Trademark Office (USPTO).
- Problems with determining sponsor and contract information. Review and discussions ongoing to provide a central, comprehensive resource for DOE.



Conference Literature Ahead

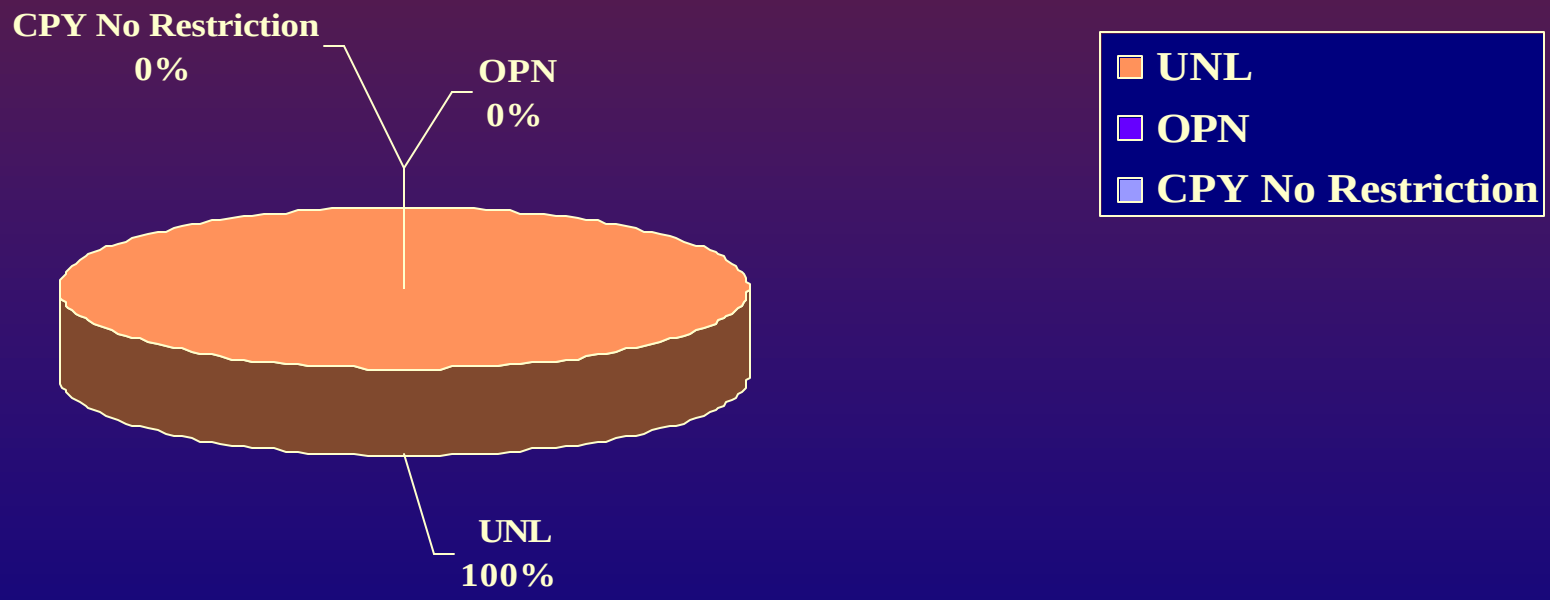
- DOE-sponsored conferences are within “scope”
- International exchange partners have identified gaps
- To begin exploring how best to collect proceedings and/or papers
  - “Deliverable” of support-service type contracts
  - Program documents
  - Researcher papers



Observational and Experimental Data Ahead

- A growing topic is the source data behind the STI product
  - Access and preservation
- Options?
  - Data centers
  - Links in STI documents
  - Other alternatives

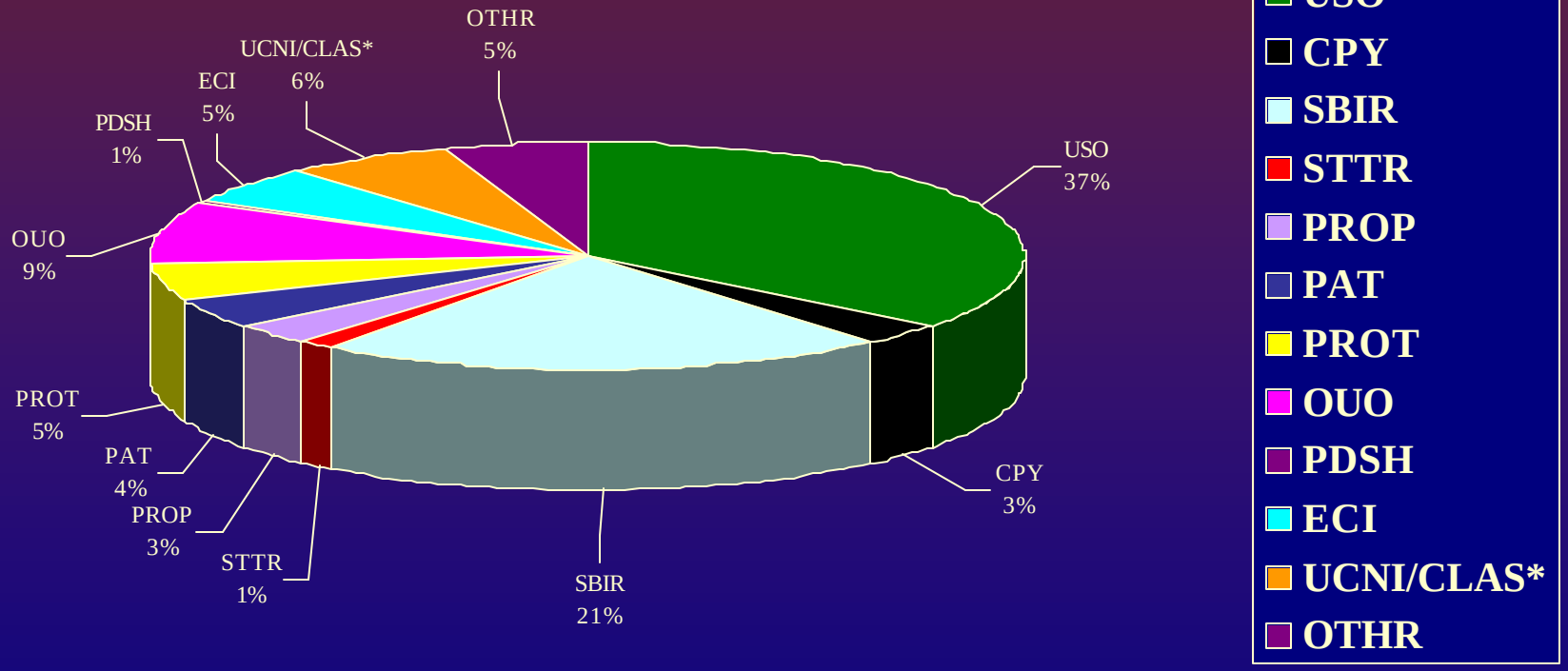
Public Access Categories
for STI Announced FY2001-FY2004

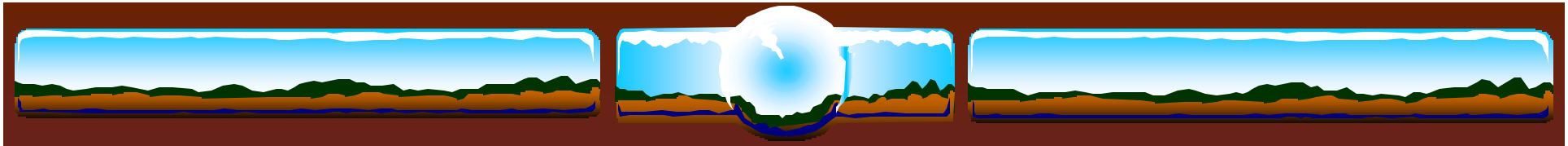


STI marked “OpenNet” = 1 record. Where is it going?

Access Limitations

for STI Announced FY2001-FY2004

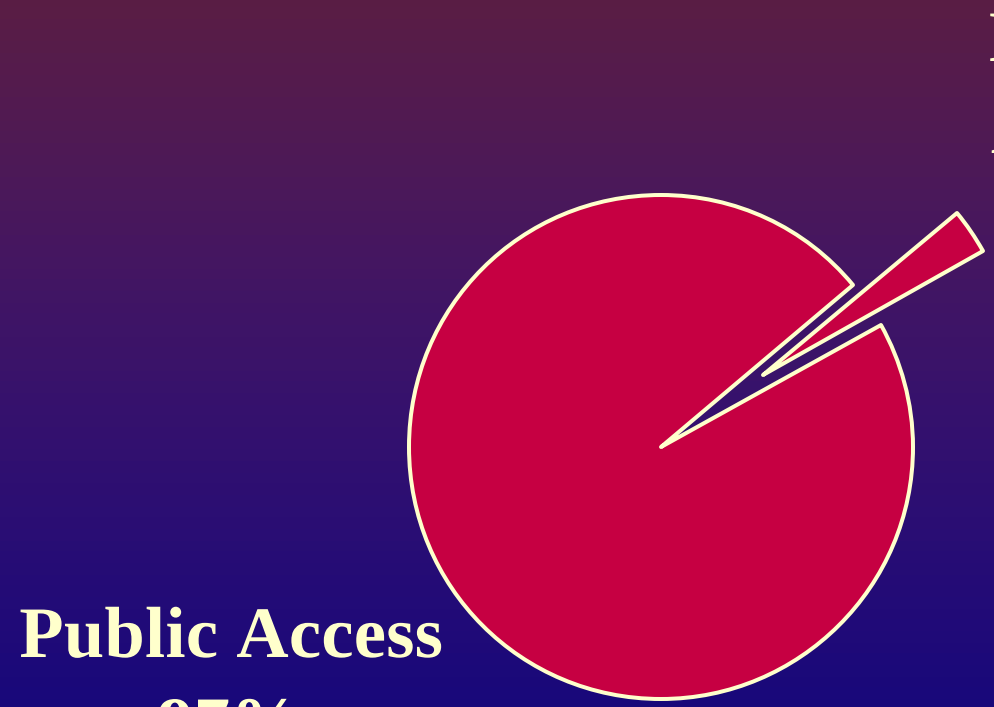


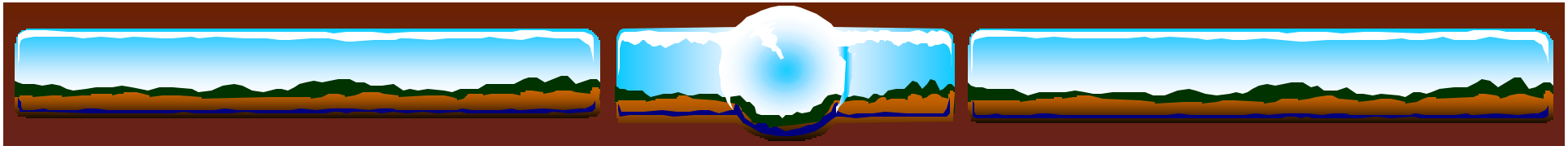


New Age CAF

Citations (report #, title, author, site, access lim…)	Accessible to all DOE and DOE contractors (IP address)
Full text accessible based on category and audience	Distribution category related to access lim + identification of user
EX: Protected CRADA, SBIR	DOE Federal staff only

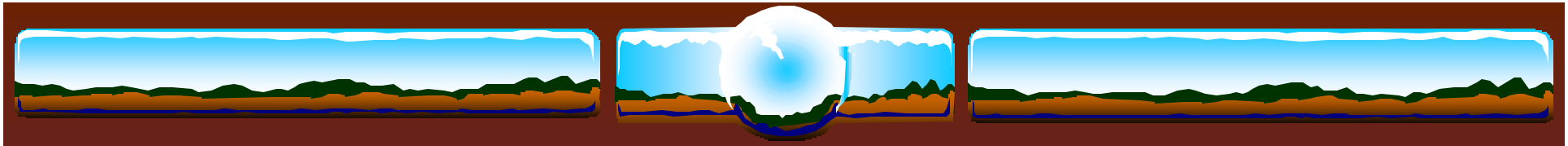
Is All the Limited STI Submitted to OSTI?





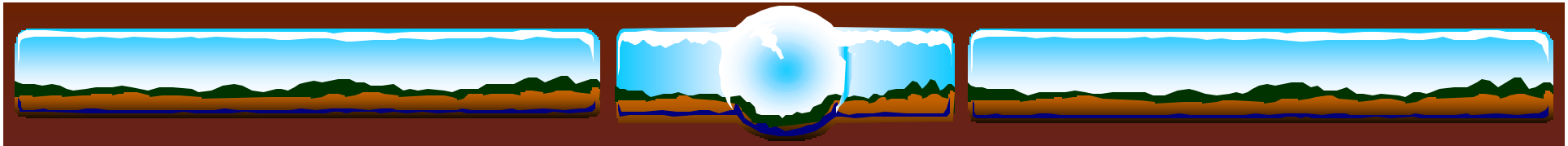
Is OSTI Receiving All S&T Software?

Calendar Year	Packages Received
1997	78
1998	88
1999	73
2000	28
2001	24
2002	144
2003	43
2004	31



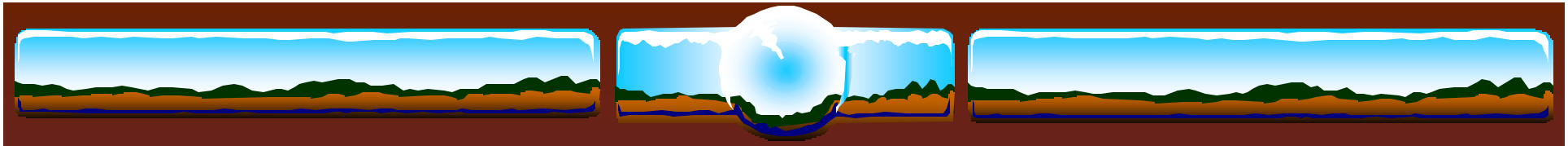
Tracking Copyrighted Software

DOE Operations Office	Lab/Site	Letters	Software Rec'd
Albuquerque	Honeywell FM&T	16	
	LANL	57	5
	Mason & Hanger	1	
	SNL	271	25
	Vanderbilt Univ.	1	
Oakland	LBNL	85	7
	LLNL	46	
	SLAC	3	
Oak Ridge	UT-Battelle	2	
Chicago	ANL	2	5
	INEEL	1	



Regaining Comprehensiveness Ahead

- To seek out nontraditional types of STI
  - Broaden harvesting “scope”
  - Files/sources outside the STI circle
- To seek typical forms of STI
  - Limited
  - Software



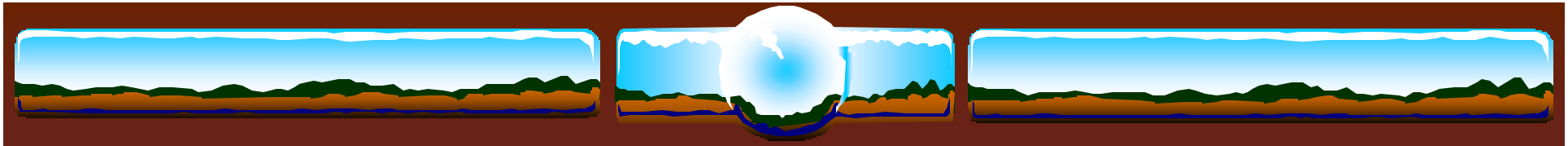
R&D Project Summaries

- FY 03 Tracking System Data Call is close to done
  - Approx 2000 new items per year
  - Provided to OSTP
  - Publicly releasable
- System improvements slated to begin
- Data quality / data feeds to be explored for FY 04

U.S. Department of Energy
Research & Development

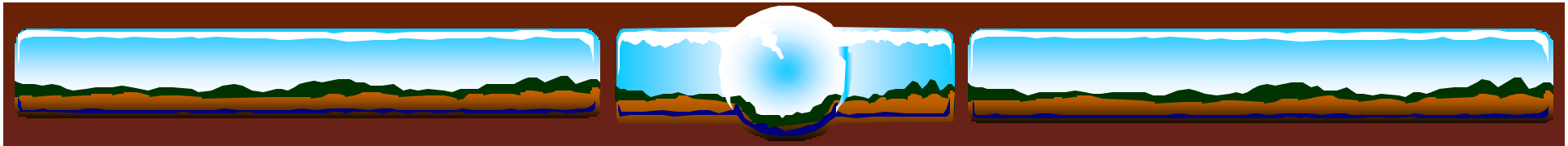
Science Education

- OSTI participated in DOE booth at NSTA
- Science.gov Lesson Plan available
- New “ScienceLab – Student online lab for science stuff” was unveiled April 1
- DOE labs’ science education resources are highlighted



Promoting STI Program

- Atoms for Peace
  - Washington event
  - Vienna exhibit
  - STI program “history”
- AAAS exhibit with Office of Science



What's the next Grand Challenge for the STI Program?