

# Inter-American Institute for Global Change Research



## Update on the DIS and IT Matters

19 EC Meeting , Buenos Aires, Argentina  
June 29,30 2004

# Inter-American Institute for Global Change Research

## SUMMARY

DIS Update

DIS NASA/GCMD Integration

IT Matters

IAIDBweb System

Website

# Inter-American Institute for Global Change Research

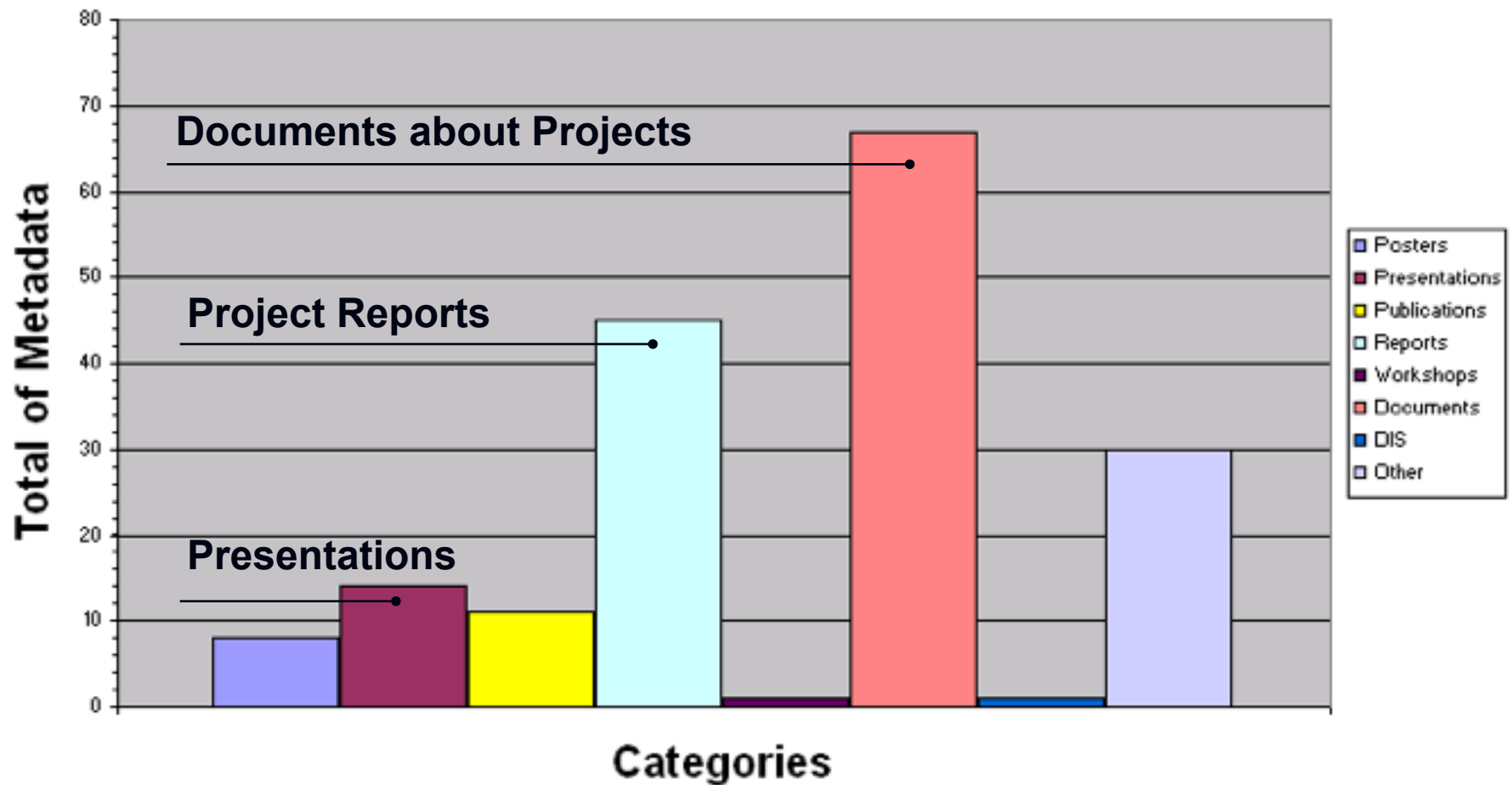
## DIS UPDATE

### Current Scenario

- No support from CIESIN;
- No effective participation from the Pis or CoPIs. 177 Metadata created in 4 years of operations; ([see graphic](#))
- The system is old in term of features;
- The IAI is investing US\$ 4.5K per year with renting charges for the IBM server. (**US\$9K from August 2002 to July 2004**);
- Loss of motivation for Pis CoPIs participation, since the system is not updated for years;



## Distribution of Metadata by Category



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## DIS UPDATE

### Scenario that will be implemented by the IAI

- Adopt the ORNL Solution and participate in their consortium;  
([see details](#))
- Have a more updated system (with additional features) and specially keep it updated as years goes by;
- **SERVICE** Approach instead of **SYSTEM** Approach;
- Integrate our “new” system with other groups from their consortium;
- Cost:
  - **US\$33K** for implementation + migration and
  - **US\$15K** per year for maintenance/update/participation in the consortium.

Any directory with different formats, like .DOC, .PDF, or .XLS

Any single website



XML files with links to original files in different machines or servers

Any commercial database by using special extract programs

Processing Transformations  
(format conversions)

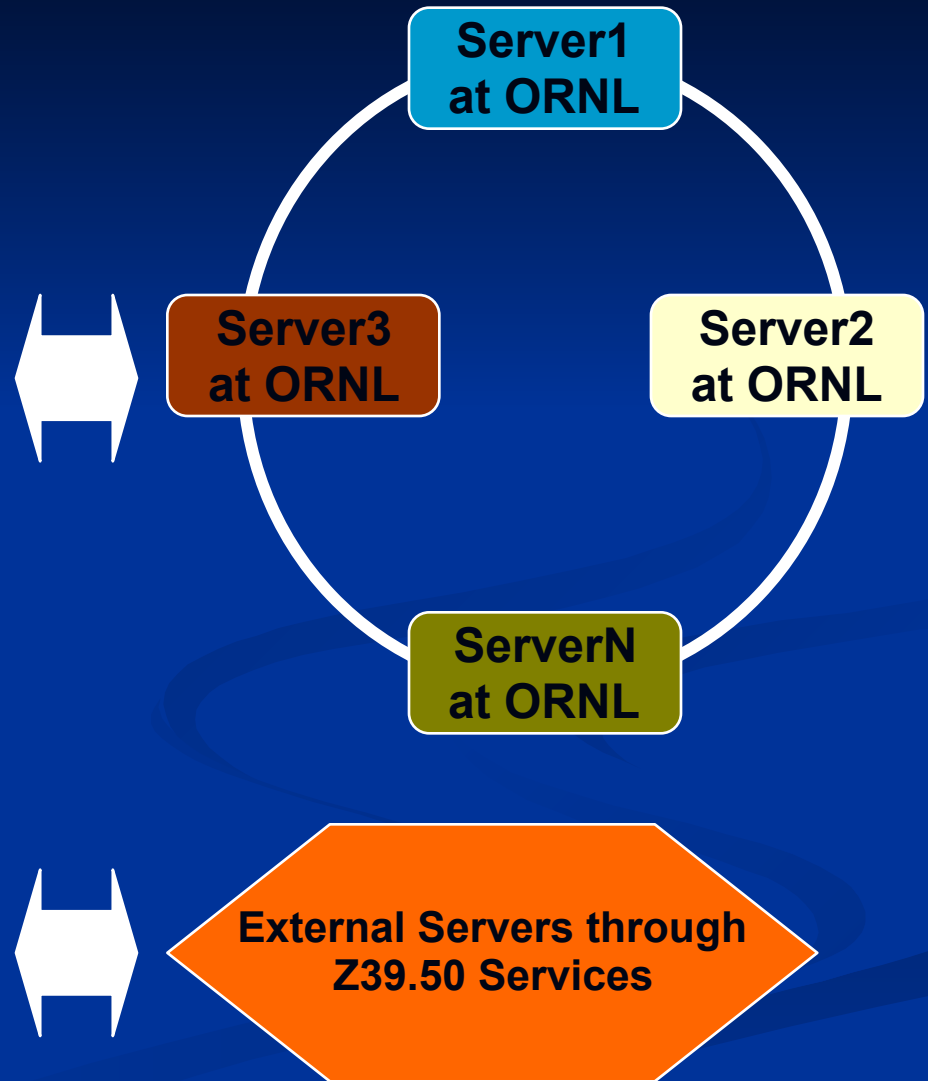
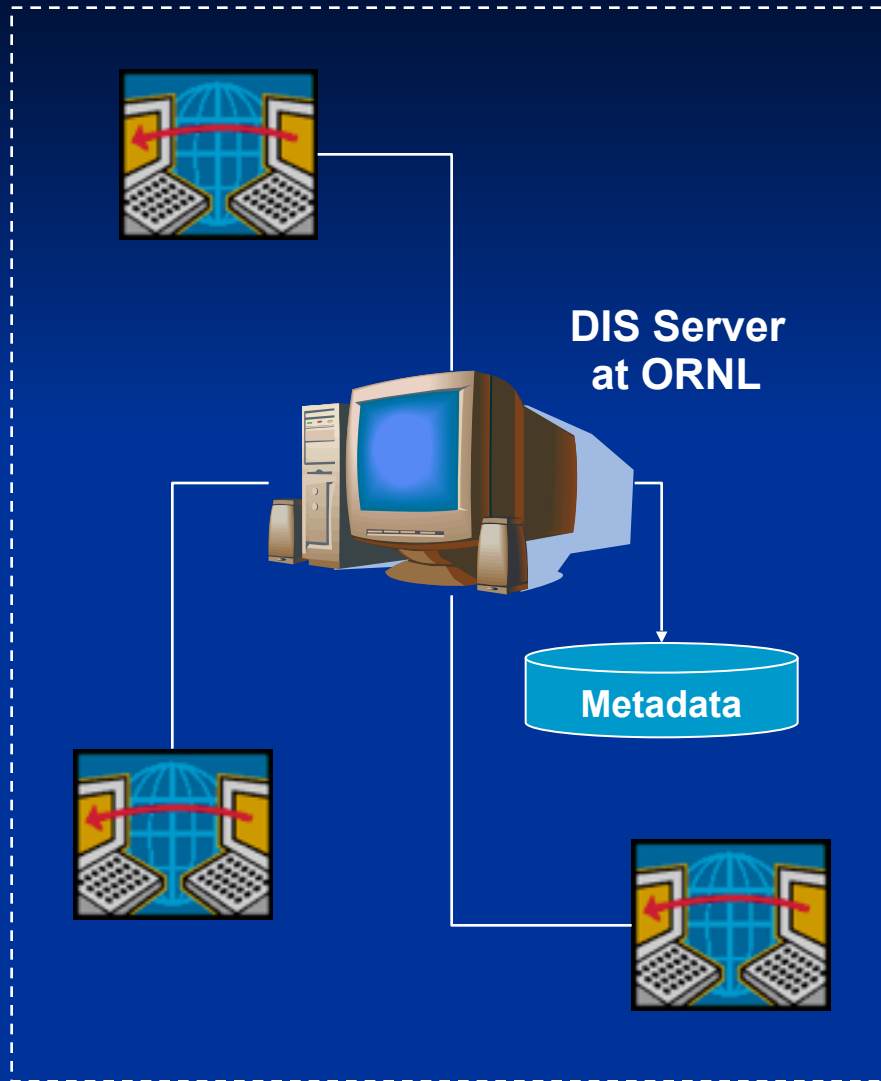
XML to HTML

Z39.50 Server



New DIS website  
(metadata search area)





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## DIS UPDATE

### Scenario that will be implemented by the IAI

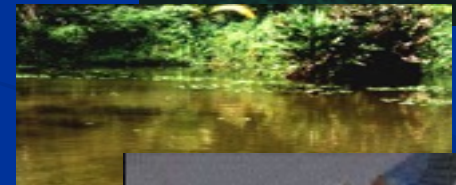
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([see details](#))
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## DIS UPDATE

### Timeframe for the new Scenario

1. Signature of contract between the IAI and ORNL  
**By JULY 2004**
2. Implementation, tests and migration of metadata  
**3rd and 4th quarters of 2004**
3. Liberation to the community  
**JANUARY 2005**
4. Definition of strategical policies for the new system  
**By JANUARY 2005**
5. Workshop for Pis or Projects Representatives  
**By MARCH 2005**



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## DIS UPDATE

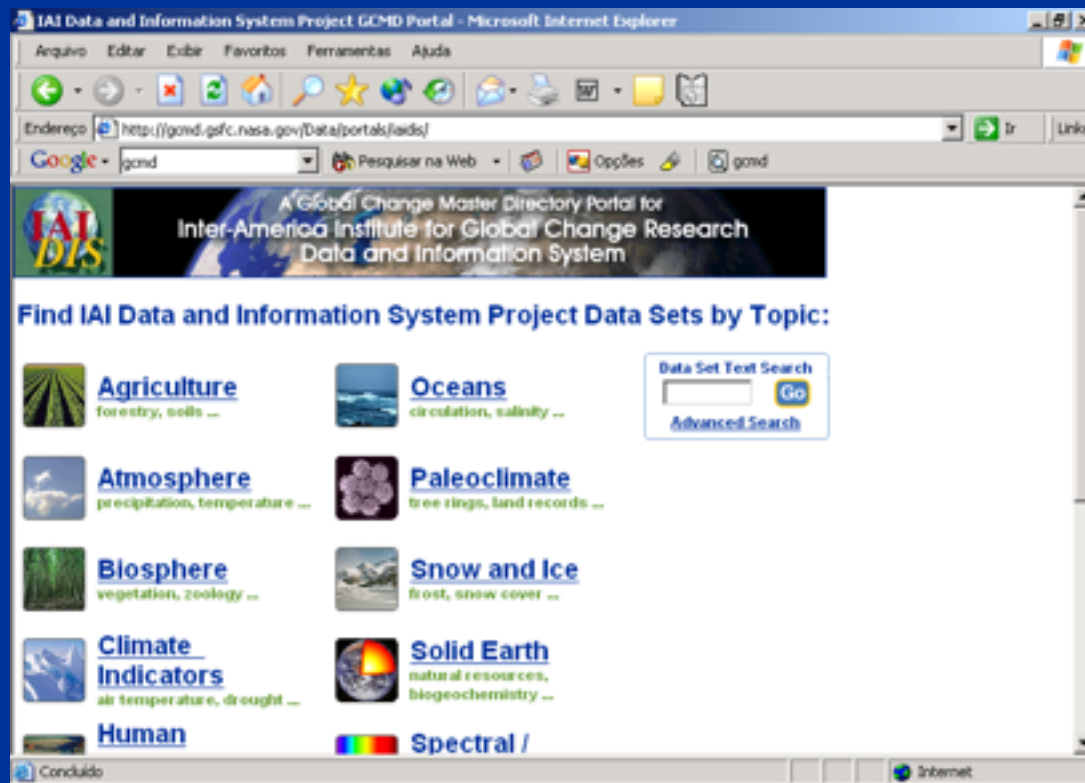
### Some “actors” of the Consortium



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## DIS UPDATE

### DIS NASA/GCMD Integration



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## IT MATTERS

### Current Scenario

1. DELL Servers up and running. **IAIBR1** as NETWORK SERVER (mail, webmail, website, iaidb) and **IAIBR3** as a FILE SERVER;
2. **IAIBR3** implemented with RAID strategy in order to insert additional protection against hardware/software problems;
3. IAI Network is structured, certified and operating in 100Mbits;
4. Webmail, FTP Area for the staff and guests accounts if needed;
5. Network is well protected against Viruses, Spams and other Malwares: **After email arrive in our network, the server checks for virus, then identifies SPAM and ONLY after running this two process, the message is liberated for the user.**

# Inter-American Institute for Global Change Research

## IAIDBweb SYSTEM

Informative Database System - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://iaidb.is.int/

moa.org Latest builds



Inter-American Institute for Global Change Research  
IAIDBWeb System

Login	Instructions
Account <input type="text" value="firstall"/>	This is a restricted area.
Password <input type="password"/>	In order to search and retrieve data in this database, its necessary to have a valid Account and Password. Should you have this information, type them in the appropriate fields beside to enter in the system.
<input type="button" value="Send"/> <input type="button" value="Reset"/>	For further information or questions, please contact <a href="mailto:iaidbweb@is.int">iaidbweb@is.int</a> .

IAIDBWeb System Version 2.1 (10/05/2004)  
© Copyright 2004 by the Inter-American Institute for Global Change Research, IAI.

Done

Welcome to Informative Database System - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://iaidb.is.int/welcome.php

moa.org Latest builds



Inter-American Institute for Global Change Research  
IAIDBWeb System

IAIDBWeb Home People Institutions / Departments Scientific Programs Events

All People  
Specific People  
Newsletter Subscribers  
Listserve Subscribers

EC Representatives  
CoP Representatives  
SAC Members  
Former SAC Members  
Potential Reviewers

The IAIDBWeb System is a web-based

ing objectives:

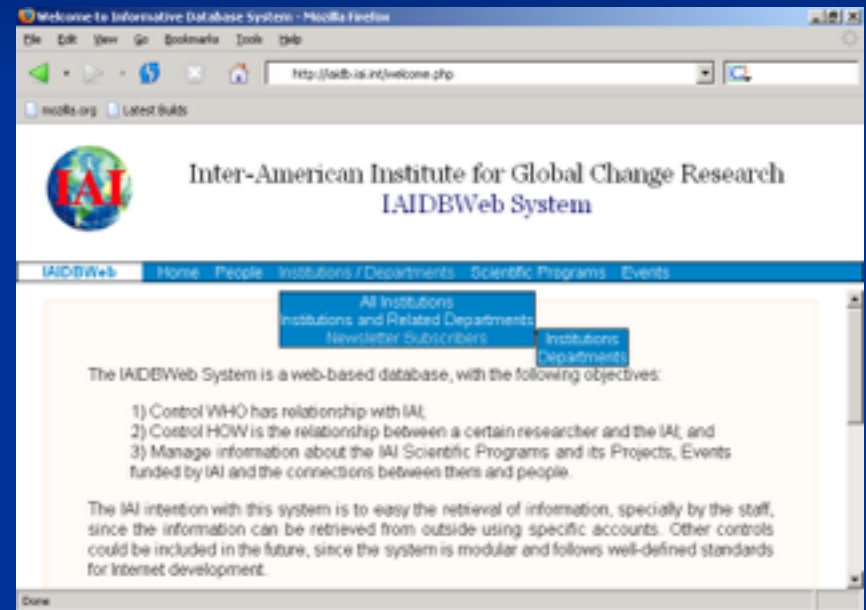
- 1) Control WHO has relationship with IAI,
- 2) Control HOW is the relationship between a certain researcher and the IAI, and
- 3) Manage information about the IAI Scientific Programs and its Projects, Events funded by IAI and the connections between them and people.

The IAI intention with this system is to easy the retrieval of information, specially by the staff, since the information can be retrieved from outside using specific accounts. Other controls could be included in the future, since the system is modular and follows well-defined standards for Internet development.

Done

# Inter-American Institute for Global Change Research

## IAIDBweb SYSTEM



# Inter-American Institute for Global Change Research


## IAIDBweb SYSTEM

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http://iaidb.is.int/welcome.php

iaidb.org Latest builds



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IAIDBWeb System

IAIDBWeb System Home People Institutions / Departments Scientific Programs Events

**IAIDBWeb System**  
(IAI Data Base Web)

The IAIDBWeb System is a web-based database, with the following objectives:

- 1) Control WHO has relationship with IAI,
- 2) Control HOW is the relationship between a certain researcher and the IAI, and
- 3) Manage information about the IAI Scientific Programs and its Projects, Even funded by IAI and the connections between them and people.

The IAI intention with this system is to easy the retrieval of information, specially by the staff, since the information can be retrieved from outside using specific accounts. Other controls could be included in the future, since the system is modular and follows well-defined standards for Internet development.

Done

**Navigation Menu:**


- All Programs and Related Projects
- Projects and People Connection
- Project's Informative Budget
- Total of Researchers by Programs
- All CRN
- GEF
- ISP1
- ISP2
- ISP3
- ESCA
- SGP 1
- SGP2
- SUG

Welcome to Informative Database System - Mozilla Firefox

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http://iaidb.is.int/welcome.php

iaidb.org Latest builds



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IAIDBWeb System

IAIDBWeb System Home People Institutions / Departments Scientific Programs Events

**Total of Researchers by Programs**

CRN		ISP1	
Number of Real Pts: 14	Number of Real CoPis: 205	Number of Real Pts: 11	Number of Real CoPis: 64
Number of Real Researchers: 220		Number of Real Researchers: 65	
<a href="#">Distribution by Country</a>		<a href="#">Distribution by Country</a>	

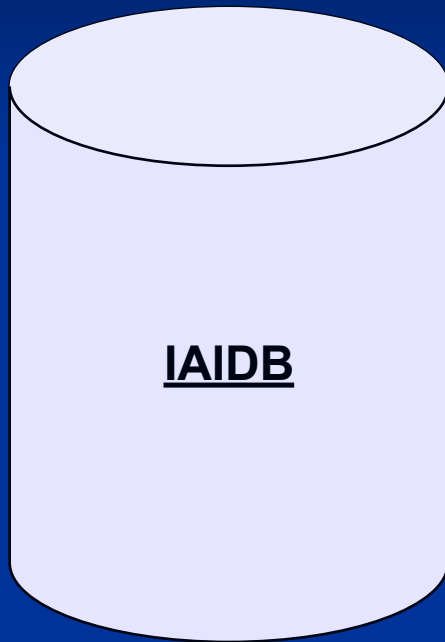
ISP2		ISP3	
Number of Real Pts: 12	Number of Real CoPis: 53	Number of Real Pts: 16	Number of Real CoPis: 108
Number of Real Researchers: 65		Number of Real Researchers: 123	
<a href="#">Distribution by Country</a>		<a href="#">Distribution by Country</a>	

Done



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## IAIDBweb SYSTEM



**IAIDB**

**IAIDB** is an Open Source System, so the implementation cost was ZERO for the IAI.

As the database is based in the RELATIONAL MODEL, we can create external QUERIES in order to retrieve any kind of information.



How many PIs?

What about the costs?

What are the countries?

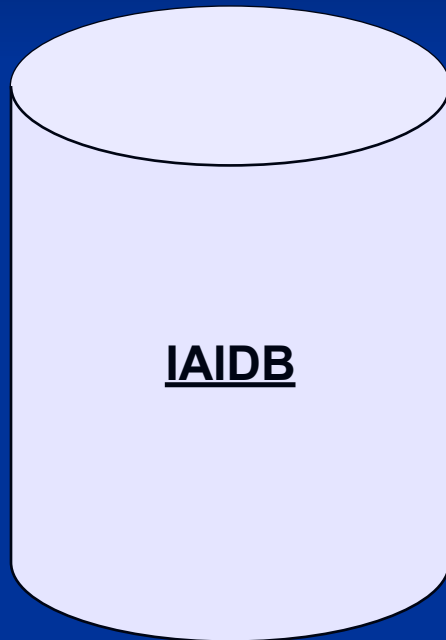
How many Institutions?

What are the newsletter subscribers?



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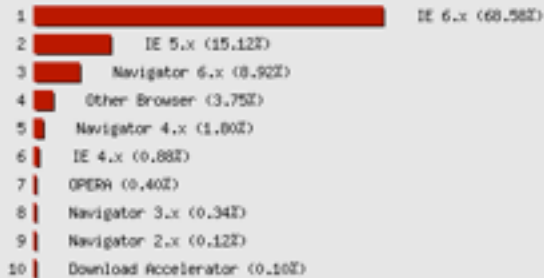
## IAIDBweb SYSTEM



# Inter-American Institute for Global Change Research

## IAI WEBSITE - STATISTICS

Most Used Browsers



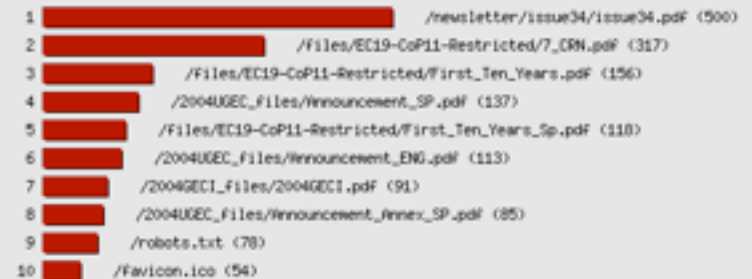
Most Used Operating Systems



Most Active Countries



Most Downloaded Files



# Inter-American Institute for Global Change Research

## IAI WEBSITE – NEW DESIGN



The screenshot displays the IAI website's new design. At the top left is the IAI logo, a globe with the letters 'IAI' in red. To its right is the full name of the institute in a dark red serif font. A horizontal navigation bar below the header contains links: 'What's News | Meetings | links | Opportunities | Contact Us | Home'. The main content area is divided into a left sidebar with red navigation buttons and a main right section. The sidebar buttons are 'The IAI', 'Member Countries', 'IAI Science', 'IAI Communications', and 'Other Initiatives'. The main section features a large background image of Earth from space. Overlaid on this image is the text 'The Challenge of Global Change' in a large, white, serif font, with 'click here' in a smaller white font below it. At the bottom of the main section are three columns of text: 'IAI Scientific Community' (announcing Dr. Carlos Clemente Cerri), 'IAI Summer Institutes' (mentioning positive feedback), and 'Opportunities' (mentioning the Eighth International Global Atmospheric Chemistry Conference). Each column ends with '>> More...'. The footer contains the 'dm4 Brasil' logo, copyright information 'Copyright © IAI 1999 - 2004', and additional links 'Search | Site Map | Services'.

**IAI** Inter-American Institute for Global Change Research

What's News | Meetings | links | Opportunities | Contact Us | Home

The IAI  
Member Countries  
IAI Science  
IAI Communications  
Other Initiatives

The Challenge of Global Change  
click here

IAI Scientific Community  
The IAI is pleased to announce that Dr. Carlos Clemente Cerri, professor at the Center for Agriculture Nuclear Energy...  
>> More...

IAI Summer Institutes  
Given the very positive feedback received from the scientific and policy communities regarding the effectiveness of the IAI...  
>> More...

Opportunities  
Eighth International Global Atmospheric Chemistry Conference. The event will take place in New Zealand...  
>> More...

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## CONCLUSIONS

- DIS: The ORNL implementation will give a new “breath” to the system and will integrate our scientific results with other external systems;
- DIS: **The technical aspects is only one part of the total.** Also, the IAI should define clear strategies for the system and also pull the participation of researchers;
- IT: The IAI Network and its Security is continuously been improved in order to avoid disasters and other problems;
- IT: Hiring an Assistance (for typing issues, support activities, etc) is desired instead of having a trainee;
- IAIDB: New capabilities (control of proposals, events,etc) will be presented during the next months; and
- WEBSITE: Continuously improvement.

**Inter-American Institute for Global Change Research**

**QUESTIONS ???**

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