### **A Poll on HEP Information Systems**

Jointly organised by CERN/DESY/FNAL/SLAC

\*VERY\* preliminary results... ...just a taste of the answers

library.cern.ch/poll.html

Salvatore Mele CERN

SLAC - May 10<sup>th</sup> 2007

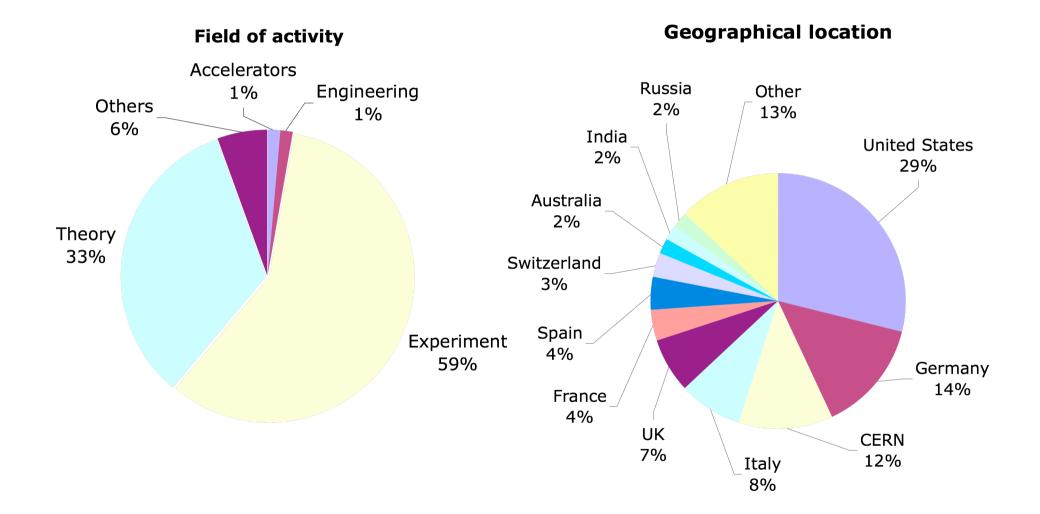
### Targets of the poll

- Survey user perception of present HEP information systems
- Assess user requirements and preferences
- Learn nitty-gritty details for short-term (easy and feasible) improvements of current systems
- Look for the killer application(s) of the next years
- Be inspired: develop "HEPIS" as a userdriven platform

## Deployment of the poll

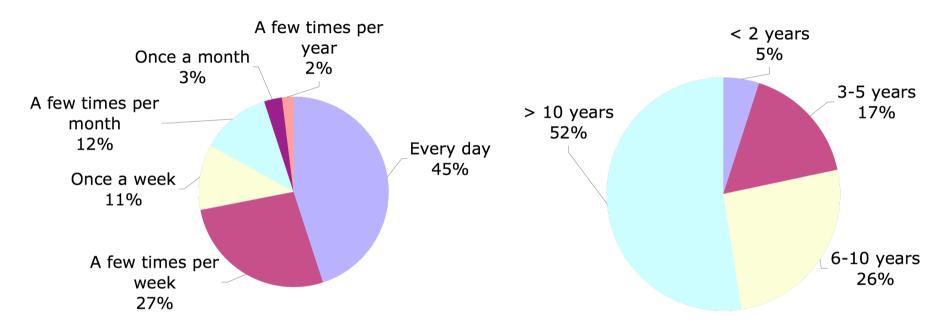
- Launched on April 30th
- Link from the CDS and SPIRES entry pages
- Advertised on CERN experiments mailing lists, CERN TH division, several hypernews, other communication channels at DESY/FNAL/SLAC
- About 500 answers by May 8th 0100 UT

### Who answered?



# **Highly-qualified** answers

Frequency of use of HEP Information Services Experience with HEP Information Services



#### **Concerned users:**

0 43% wish to receive the results via e-mail o 89% answered to two or more of the nine "free-text" questions

# Free text answers: what's on a user mind?

Showing top 50 of 2153 possible tags

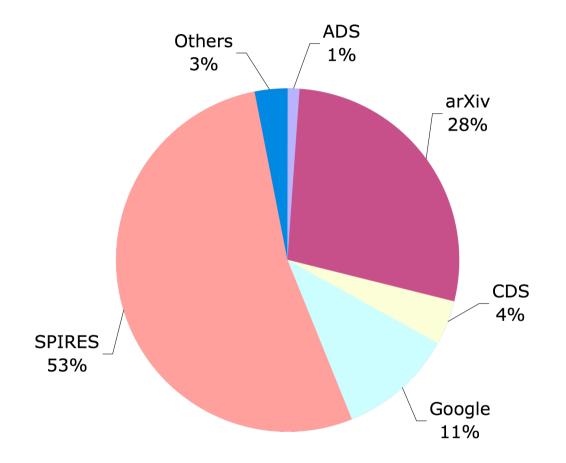
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user version WOrk

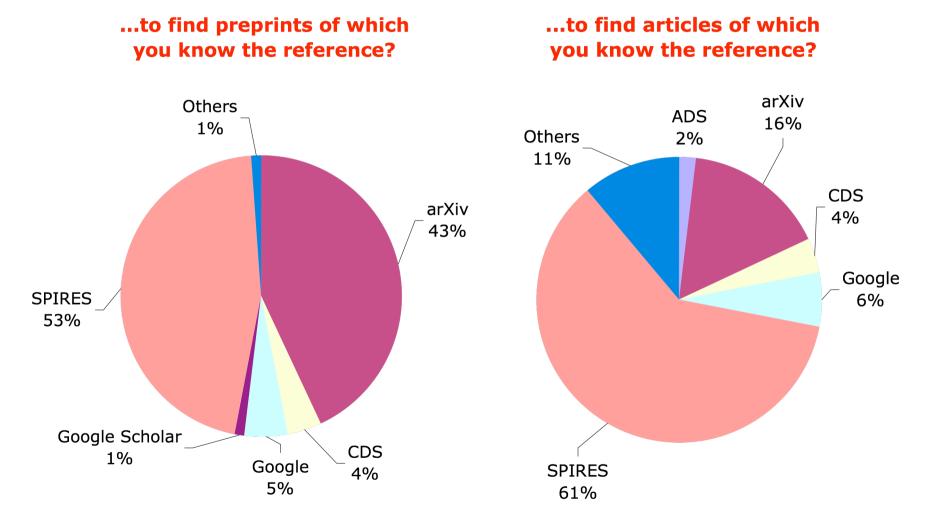
TagCrowd

### A survey of present systems

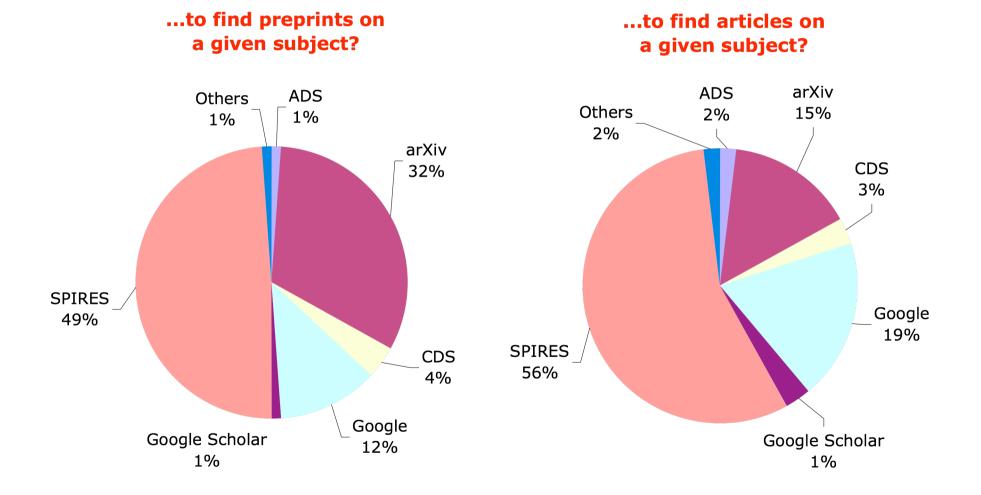
### Which system do you use the most?



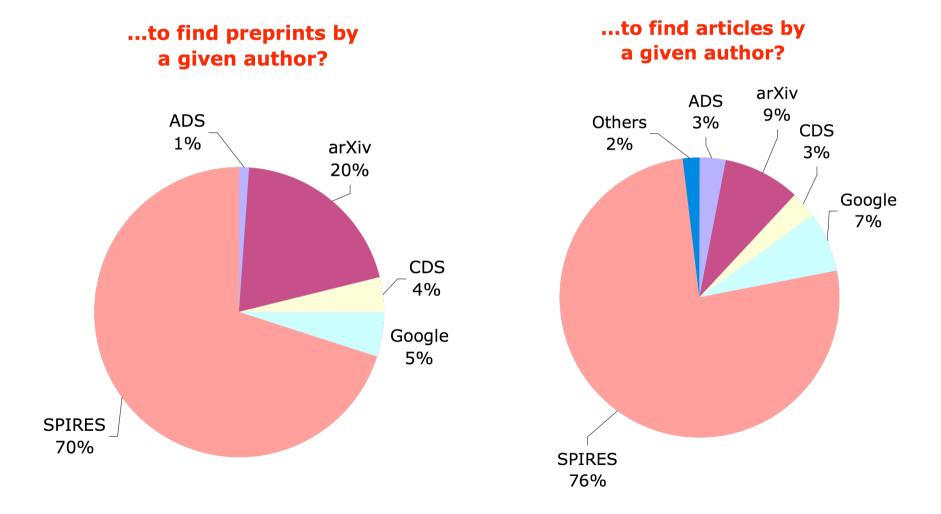
# Known-item search Which system do you use the most...



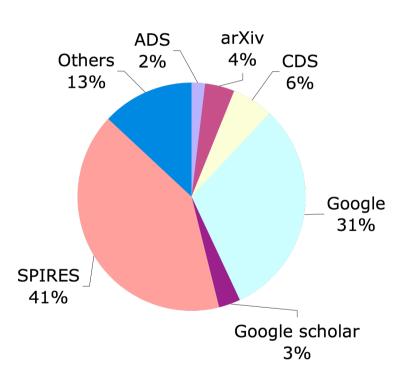
# Subject search Which system do you use the most...



# Author search Which system do you use the most...



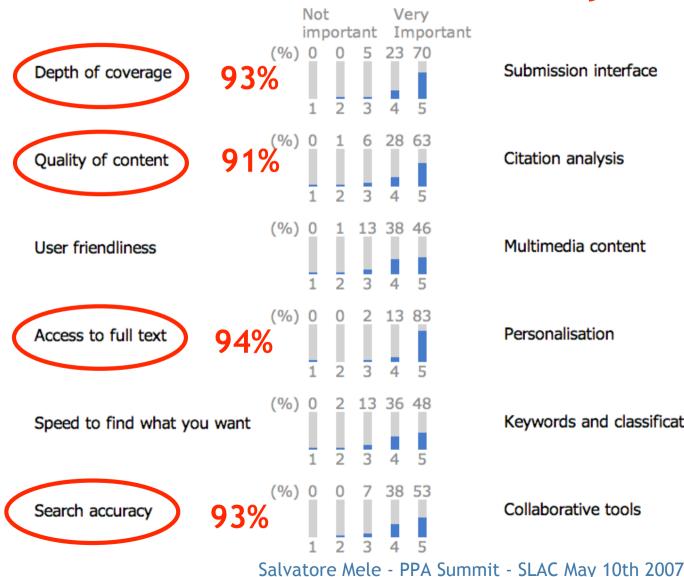
# "Greyer" literature Which system do you use the most...

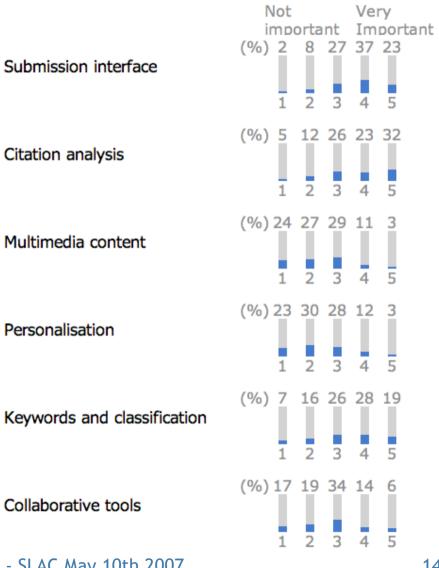


#### ...to find theses?

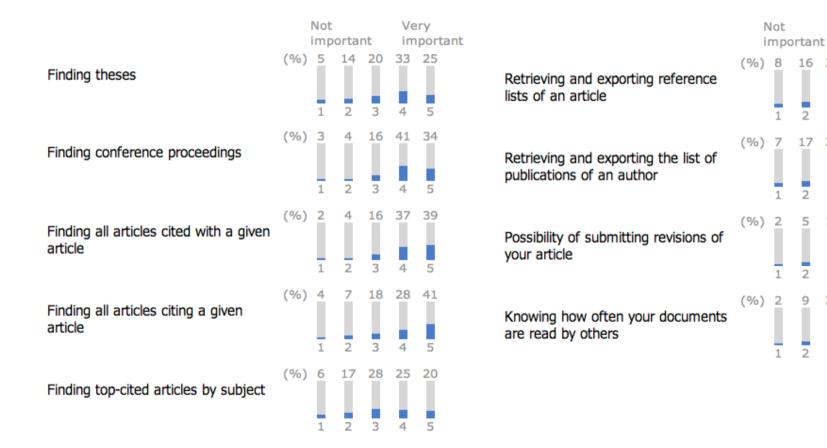
### User preferences

# How important are these features of an information system?





### How important are these features of an information system?



Verv

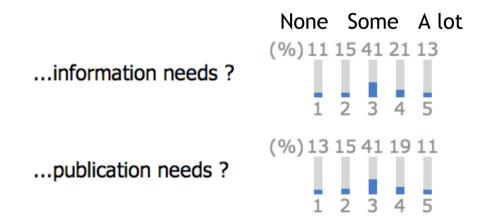
24 17

16 28

important

### A look into the (near) future

### Let's give a look to the future. In the next five years, how much change would you expect in your...

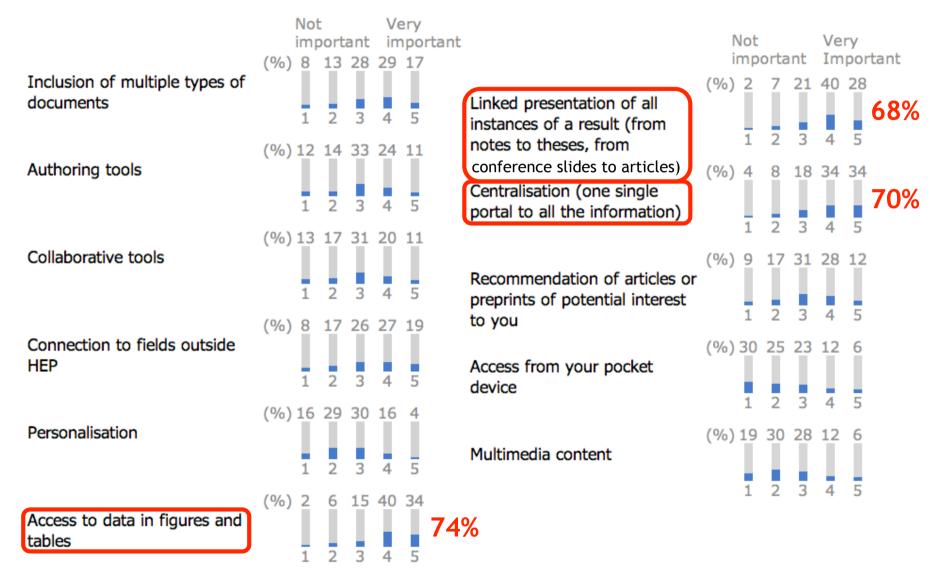


#### More than 70% of user expect at least some change

Which changes do you expect? Summary of recurrent and inspiring answers

- Seamless (open) access to older articles
- Improved (full-text search and) access to public experiment notes
- Indexing of conference .ppt slides (interlinked with the corresponding article)
- "Publication" of "ancillary" material:
  - Data in tables, figures
  - Correlation matrices
  - Data (high-level objects)
- (A new kind of) Peer-reviewing overlaid on arXiv
- "Smarter" search tools

# Imagine your ideal scientific information system in five years from now. Which additional features will be important?



### Any features you would dream of?

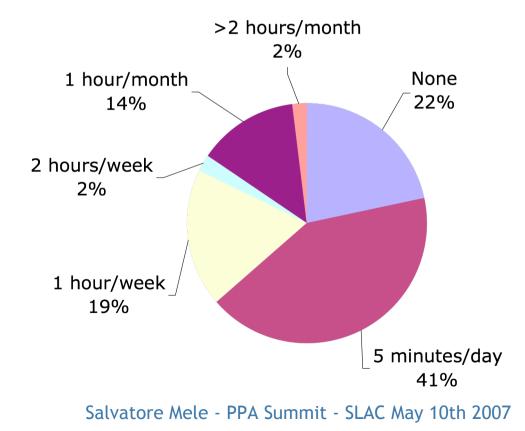
Cover the contents of all famous journals going back to their starting dates and a database which contains something like flow diagrams showing how certain articles initiated further research. (Papers citing the original ones etc)

- Follow the 'paper trail'. Citations/References linked to be a single click away inside of the article and open access from anywhere and include peer-reviewed journals...
- A weekly alert of all the new preprints and publications in certain predefined (but rather general) fields, sent by email, in a compact form (html), with the title, first few authors, with a hidden link to a page with the abstract and a link to the PDF file, similar arXiv today
- Access to code fragments which could accompany a plot or equation. This would make it easier to re-use results without making many errors.
- Instead of a paper centric system it would be nice to have an idea/topic centric information system. Following the ideas of wikipedia/myspace, each idea in HEP would have its own page, with, for example: a brief outline of the idea, a list of the most recent review papers, a list of the latest cutting edge research in that area, a summary of experimental results, a list of people working in that area with links to their personal pages.

A more clever system of searching for a paper that is "connected" by title, citations, references, ... to a given paper Salvatore Mele - PPA Summit - SLAC May 10th 2007

### Web2.0 applications?

If a simple web interface would show you an article and offer a set of categories to which it could belong, how much time would you spend in this tagging system to give a service to the community?



# **Preliminary conclusion**

# Users know what they want: listen! Outlook

- The poll is still running, plan in one or two weeks more, maybe with some e-mail reminders
- Many more (juicy!) questions I did not quote today ("what do you like the most/least of")
- Will put together a white paper, relevant for discussions on a future common platform