S&T, Web and Information Society Indicators: Building a new scenario

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Advantages

- Websites can reflect the output of academic and research activities better than traditional paper publications
  - The nature of scientific activity communication
  - Web sites contain 4,000 million pages
  - More rapid than the data
  - The richness of the Web is far larger than that of other means of scientific communication
  - Changes instantaneously
  - Access is universal and close
- "Open access" initiatives
- Hypertext nature of the Web allows the discovery of new patterns
- Cyber-sciences-techno-sociometrics

Not only papers

- Contents of the R&D and academic Websites
  - In-depth information
  - News material
  - Info about academic activities
- Electronic journals
- Document repositories
- Informal and draft
- R&D results databases
- Raw data
- Media and software
- Visas and other personal info
- Cultural, social and economic relationships

Cybermetric Indicators

- Web Data Methodology
  - Indicators of web metrics
- Trend analysis
- Other indicators

Results (I)

Results (II)

Results by country (I)

Results by country (II)

Conclusions

- Academic and Web realms are very similar for Top 100 Universities
- Technical Universities are better represented by Web metrics
- Largest universities with higher number of indicators have more domains in top web list
- Institutional information
- URL and German web domain are leaders in both academic and web lists
- French universities underperformed in the Web
- Web access changing and existing
- Language could be a key factor for explaining this gap of French, German and Italian (relatively the English) universities and the self-awareness academic of French and Spanish (local languages) ones
- Exception is Italy

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