Global Libraries Challenges - e-Libraries on the Agenda!

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Libraries and Scientists

300 B.C. - Antic Period

6th - 15th Century

16th - 19th Century

in Europe

Expanding the role of libraries for humanities, art and science

20th Century
More Scientists than ever before

- **17th Century** **1 Million**
- **1950** **10 Million**
- **2000** **100 Million**

and more publications....

Since the 17th Century the amount of published information has doubled every 10 - 20 years

Libraries in the 20th Century for Science and Humanities

- More Libraries than ever before
- Growing Collections;
- Cataloguing Standards
- Interlibrary Loan,
- User Education

Challenges

of the 21st century

1. Technology

- Storage capacity
- Format
- Services
- Digital preservation
- Cyberinfrastructure

Worldwide production of original information, if stored digitally, in terabytes circa 2002.

Storage Medium	Upper Estimate
Paper	1.634
Film	420.254
Magnetic	5.187.130
Optical	103
Total	**5.609.121**

Techical Challenges

2005:	5 million web servers
2008:	9 Million websites
	2 billion documents (surface)
2009 :	1 hard-disc = 2 terabytes storage capacity
2012:	9 billion documents (surface)
	much more in the deep web

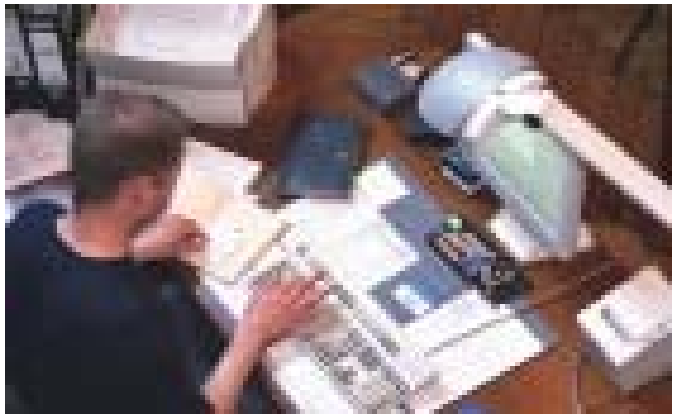
Challenge : the formats

- CD, CD-ROM, DVD
- E-Journals
- E-Books
- Digital Objects
- Films
- Websites
- Raw-Data
- Associated Tools

And the Future?

- Search technology will include the ability to search for such attributes as taste, smell, texture, reflectivity, opacity, mass, density, tone, speed, and volume. (Fey)

Change in Services



- Link-Collections
- OPAC
- Remote Account
- SMS, RSS-Feeds
- Licensing Clearance
- Digitisation
- Metadata
- E Space

less space
more space

Building Cyberinfrastructure

- Collaborative research environment
- Information sharing
- Automatically deducing research quality from harvested metadata
- Network of scholarly communication

Tech facilitates participation and outreach

- User generated content
- Automated service interfaces
- Changing virtual learning spaces
- Information literacy and teaching library

less staff
more staff

E Library Special Challenge

- Staff development
- Special IT training
- Train the trainer?

- E Librarian
- and IT staff

2. Economic challenges

- The ‘f’ree’ market concept
- Diverse Publishing Models incl. Google
- Copyright
- Resources (project money, long-term)
- Financial Crisis

Free Market- a challenge

- GATT
- GATS

- WTO
- Harmonisation of intellectual property restrictions --> more restrictions
- IFLA on WTO and GATS

Impact on Libraries

- Are tax or government supported library services a threat to the free market?
- Will libraries become a part of the education market, when they support lifelong learning?

Balanced Instruments?

- GATS / WTO / WIPO
- Standardisation
- Free Market in Education and Culture
- Political Restriction
- Protection for Profit

- UN /UNESCO/ IFLA
- Digital Divide
- Lifelong Learning
- Cultural Diversity
- Free Access to Information
- Fair Use

Financial Crisis

- Chance and Challenge
- Positioning of Libraries
- Further Co-operation
- Resource sharing
- Restructuring
- Multiple use
- Free

3. Environmental challenges

- Air, Pollution, Weather conditions,
- Global Warming, Heat, Water
- Electricity
- Chemical and Natural Challenges
- Security of Collections
- Sustainability

Preparations

- Disaster Management
- Preventative Actions
- Suitable Collections Storage Environment
- Build green, computer, electronic devices, vehicle, clean air filters etc.
- Analyze E-Library disaster management

4. Cultural challenges of E libraries

- Acceptance of language
- Library user’s behaviour in E-Libraries
- Acceptance of new formats
- Virtual working space design
- Real working space design

Impact on Libraries

- Will libraries be able to manage different cultures and multi-lingualism?
- Will libraries be able to digitise their collections and give access to it?
- Will libraries be able to handle the mass storage and retrieval (cultural heritage)?
- Who will be excluded?

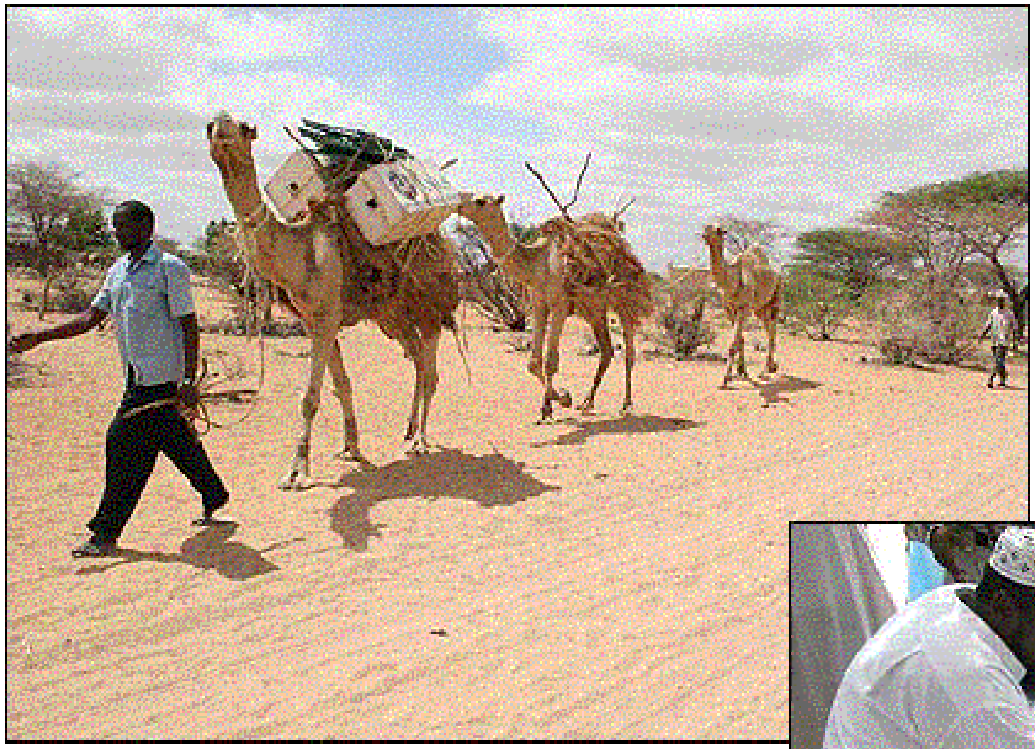
A New culture

- Automatic Creation of Reviews
- Automatic Qualitive Assessment
- Navigation and browsing in Digital Repositories
- E library Facilitate Analysis of Ancestry of Ideas

How Libraries are serving the Knowledge Society

- Deep Indexing
- Enhanced Search
- Virtual services
- National Licencies
- Open Access
- Document Server

and the reality?



Camel-Library
in Africa

Information Rich
Information Poor

Connecting People in South-America

5. Social challenges

- E Library: Chance for Open Access
- Is there enough activity and interest to keep e.g. social tagging alive?
- Overcome digital divide is crucial for E-Libraries in developing countries

6. Political challenges

- Security , Borders
- Access to information
- Censorship
- User data protection
- Support of e-libraries

IFLA advocates

- Libraries - part of the digital Infrastructure
- Libraries bridge the digital divide
- Libraries support development
- Libraries provide content, culture, education

A challenge is a chance!

Advocate for

e-Libraries on the Agenda!

Thank you for your attention!

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and don´t forget to.... join IFLA
(if you have not done yet)