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Paper No. 46

Emerging Internet Technologies

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Seven Categories of Emerging Internet Technologies

- Bandwidth
- Connectivity and access
- Content management
- Privacy management
- Measurement technologies
- Personalisation services
- Hybrid platforms



Bandwidth

- Project Oxygen
- Africa One
- LEOs
- Digital radio



Connectivity and Access

- Ubiquitous access
 - Palmtops, pagers, cellphones
- Other Non-PC devices
 - WebTV
 - Online refrigerators!
- Internet kiosks
- Internet community centres

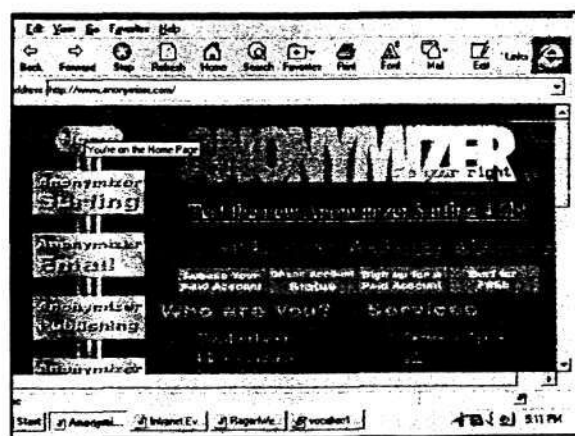
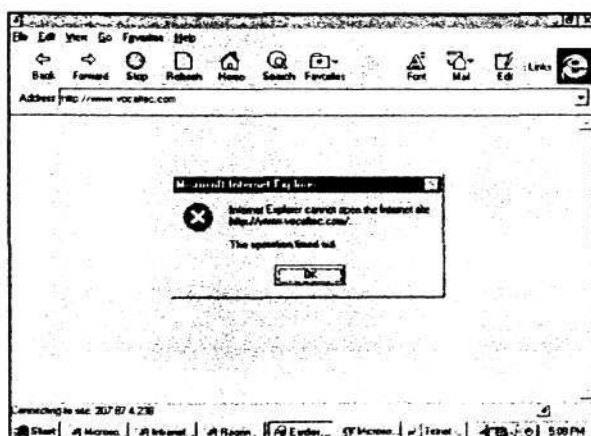
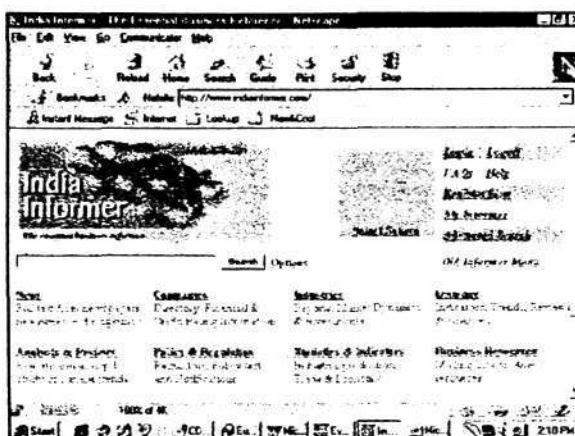
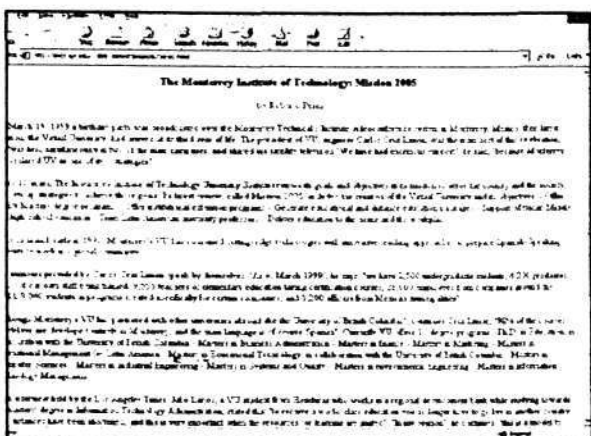
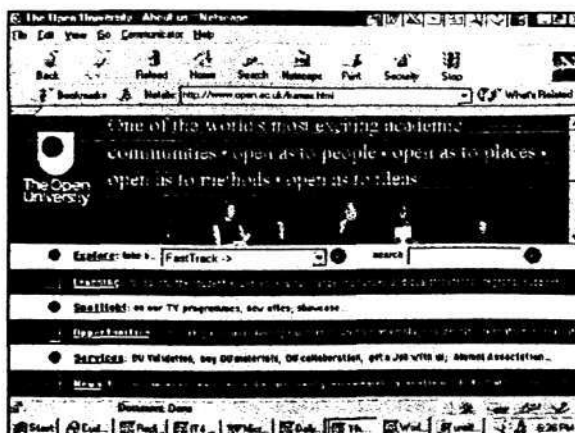
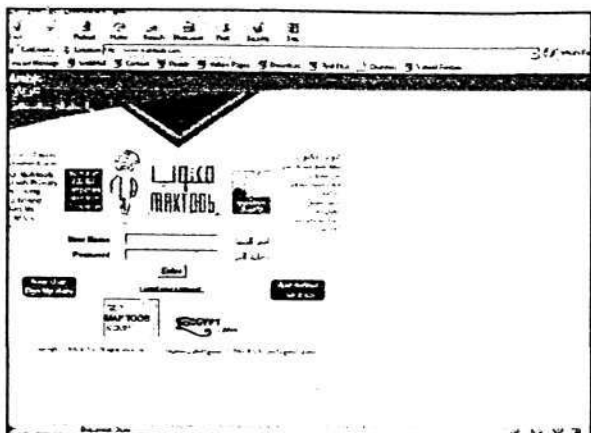


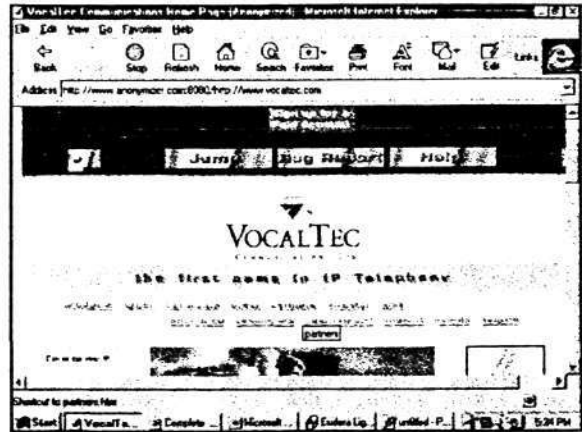
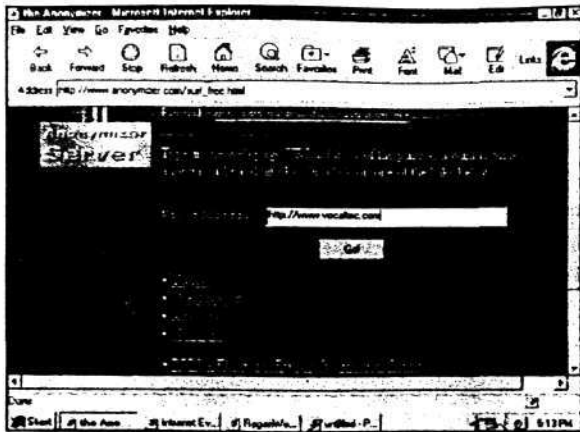
The screenshot shows a Netscape browser window with the URL <http://www.global-learning.org/>. The page title is "Alliance for Global Learning". The main text reads: "The Alliance for Global Learning creates sustainable school networking models in developing countries by providing technology, training and support for collaborative educational projects with peers around the world." Below this, it says "Through this work we aim to enhance teaching and learning, promote equity of..."

Content Management

- Protocols, languages
 - XML, Unicode, MP3
- Filtering solutions
- Agents
- Multilingual publishing, translation services
- Sector-specific solutions
- Aggregation







Multilingual Publishing

- Fastest growing languages
Japanese, German, Spanish,
Chinese, Portuguese
- Drivers
Localisation, online news, education,
e-commerce, government initiatives

Worldwide Internet Users: U.S. Percentage

1991	80%
1994	65%
1997	55%
2000	40%



Indian Language Web Sites

- Gujarati Sandesh (www.sandesh.com)
- Tamil Nakkheeran
(www.pcsadv.com/nakkheeran)
- Bengali Parabaas (www.parabaas.com)
- Marathi Kesari (www.kesari.com)
- Kannada Sanjevani
(www.sanjevani.com)

Content Access Improvement

"The Web is such a critically important information resource that we have to make sure it does not shut people out."

Judy Brewer
World Wide Web Consortium



Privacy Management

- Security
- Privacy policies
- Encryption



Measurement Technologies

- ISP Bandwidth
- Site traffic
- User behaviour



Internet Traffic Audits

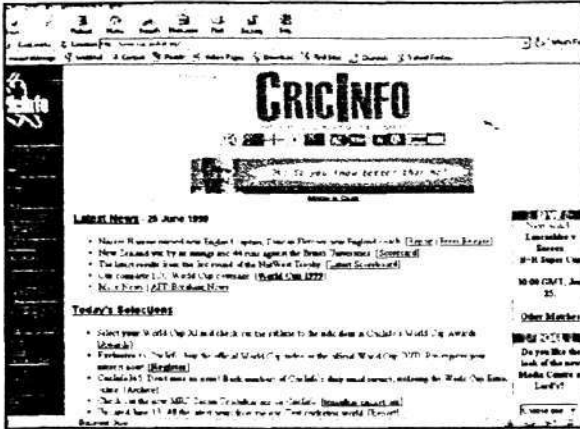
- Countries
U.S., Canada, Britain, Australia, South Africa. Asia: Hong Kong
- Companies
Internet Profiles, AC Nielsen, ABC Interactive, Relevant Knowledge, BPA Interactive



Personalisation Technologies


- User profiling
- Content customisation
- Targeted advertising






Hybrid Platforms

- Internet + Intranet
- Site caching, mirroring



"The huge danger is that the Internet might create a global impoverished class that doesn't have access to information systems."

- Martin Hull, University of Cape Town, South Africa



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