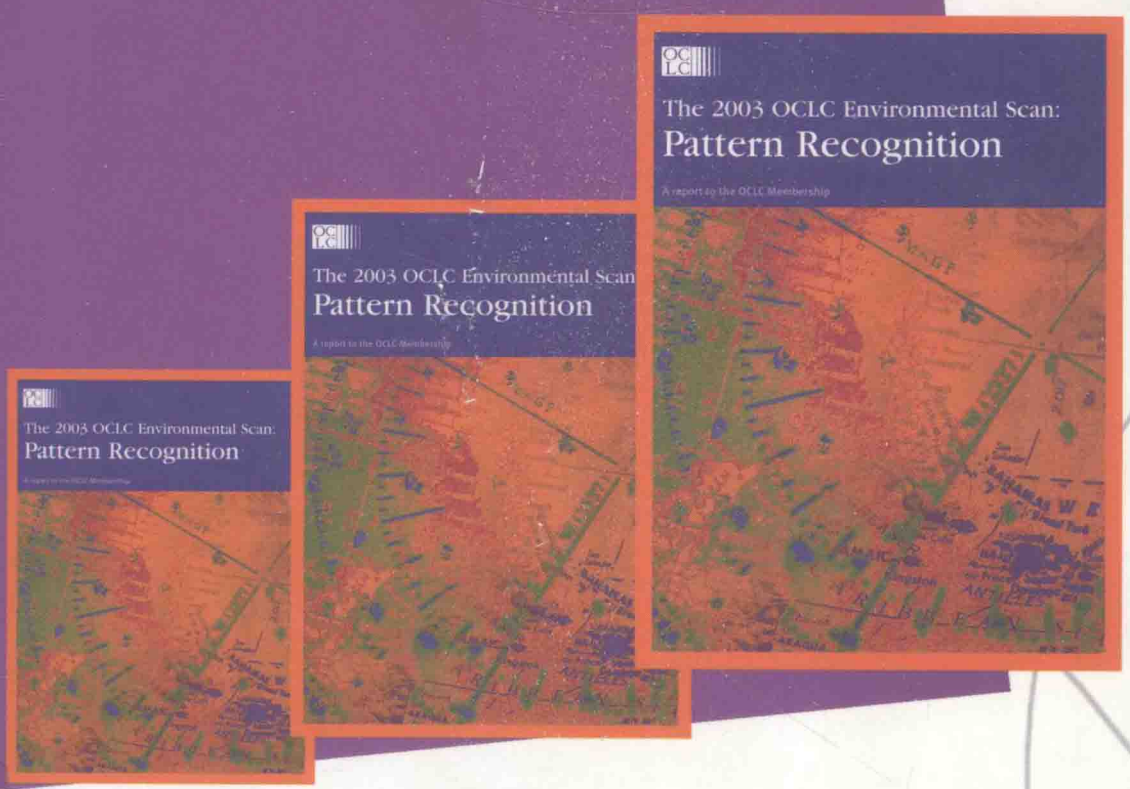
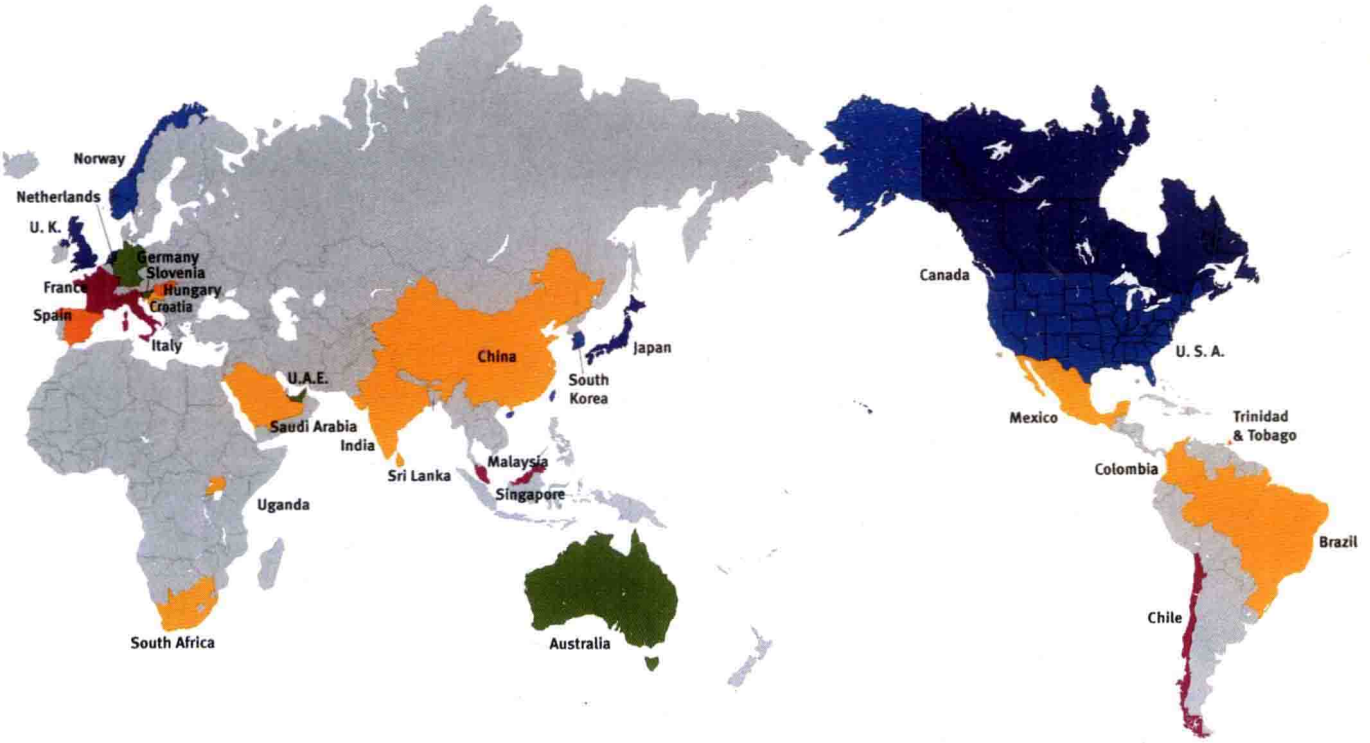
审视发展环境 认清前景趋势

—— OCLC 关于全球图书馆和信息服务现状与未来的研究报告

（2004 年 2 月正式发布）



清华大学图书馆 译



Internet usage

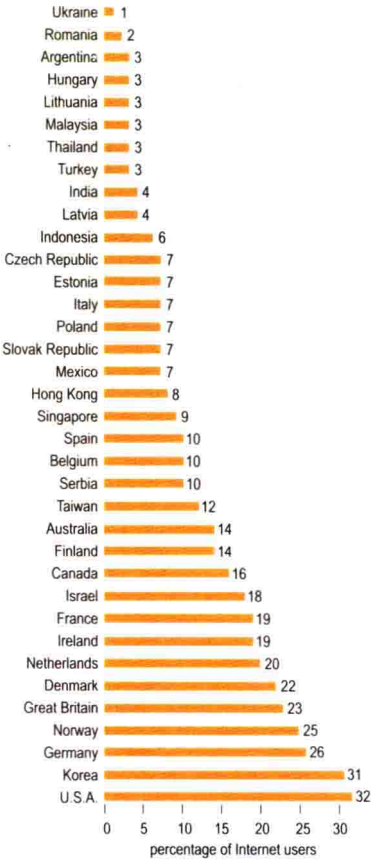
Country	% Population using the Internet
Norway	59.7%
United States	50.9%
South Korea	50.5%
Netherlands	49.2%
Japan	44.0%
Canada	42.3%
United Kingdom	40.1%
U.A.E.	39.9%
Australia	38.8%
Germany	37.0%

Country	% Population using the Internet
Singapore	33.7%
Slovenia	31.0%
Malaysia	28.7%
Italy	28.4%
France	26.2%
Chile	20.0%
Spain	18.4%
Hungary	14.7%
Trinidad & Tobago	10.3%
South Africa	7.0%

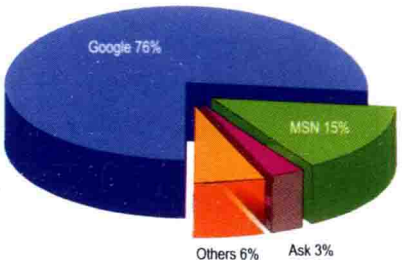
Country	% Population using the Internet
Croatia	5.7%
Brazil	4.5%
Mexico	3.5%
Colombia	2.8%
China	2.6%
Saudi Arabia	1.3%
Sri Lanka	0.8%
India	0.7%
Uganda	0.2%

Sources: World Development Indicators Database, World Bank (July 2003).

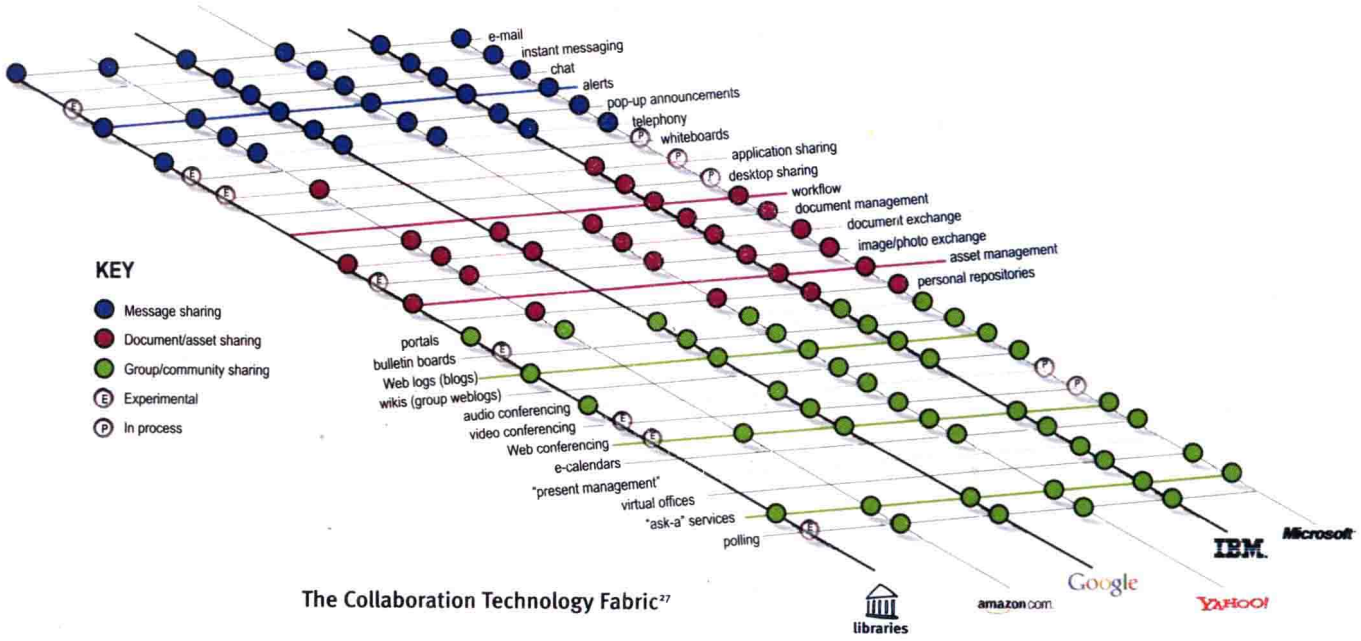
彩图 1



彩图 2

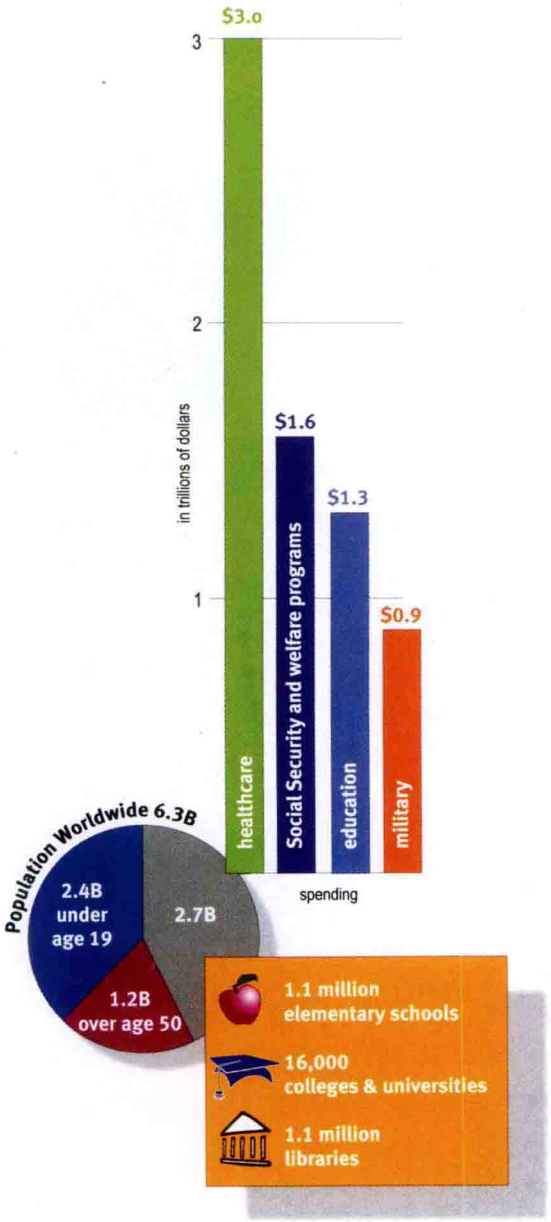


彩图 3



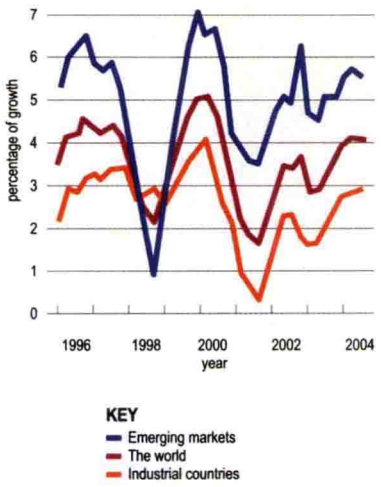
The Collaboration Technology Fabric[27]

彩图 4



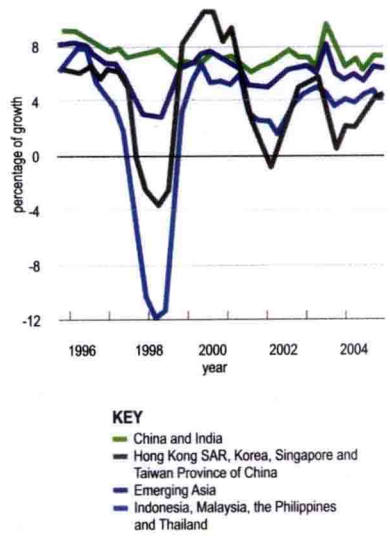
The public and public goods[1]

彩图 5



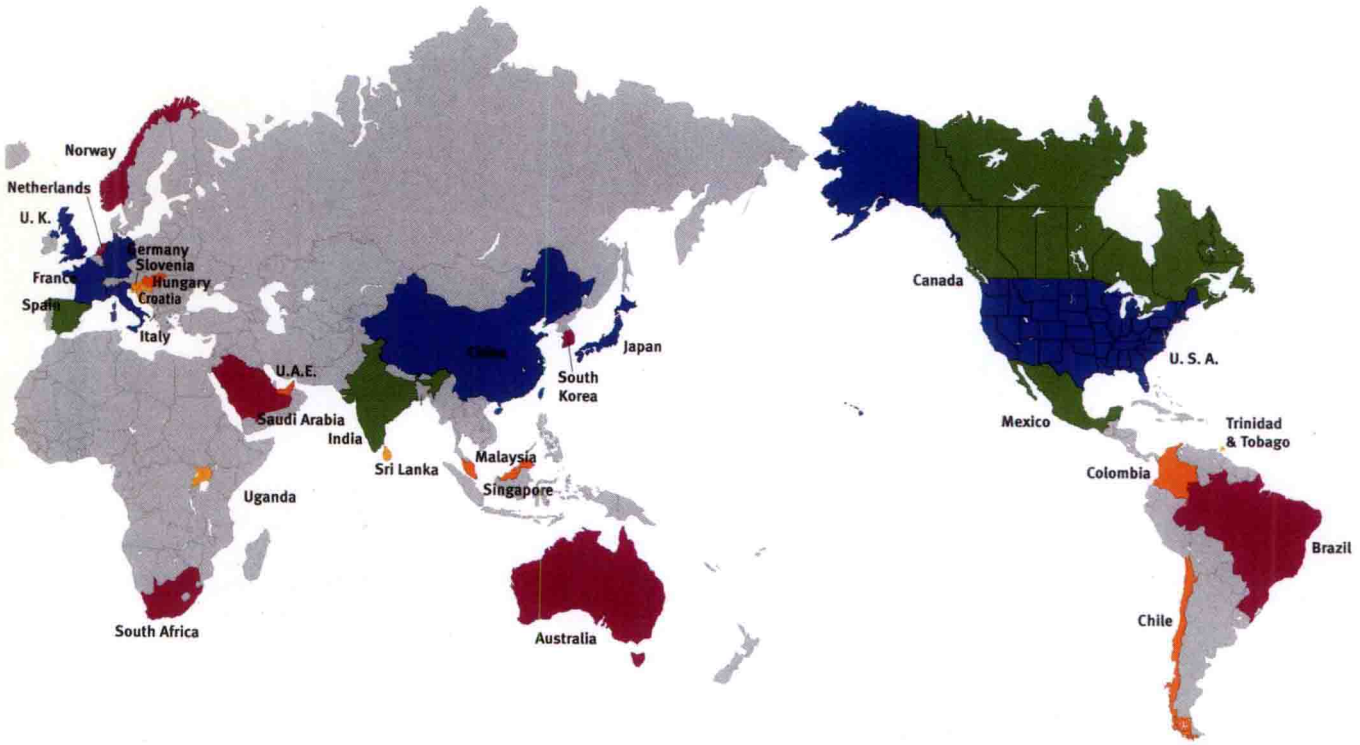
GDP growth rate of world economies[3]

彩图 7



GDP growth rate of Asian economies[3]

彩图 8



Gross domestic product (GDP) by country

- $1 trillion +
- $750 – 999 billion
- $500 – 749 billion
- $100 – 499 billion
- $50 – 99 billion
- < $50 billion

Country GDP

Country	World Rank	GDP Billion	Country	World Rank	GDP Billion	Country	World Rank	GDP Billion
United States	1	$ 10,417	Brazil	13	$ 452	Croatia	63	$ 22
Japan	2	$ 3,979	Netherlands	14	$ 414	Slovenia	67	$ 21
Germany	3	$ 1,976	Australia	15	$ 411	Sri Lanka	73	$ 16
United Kingdom	4	$ 1,552	Norway	21	$ 189	Trinidad & Tobago	88	$ 9
France	5	$ 1,410	Saudi Arabia	23	$ 186	Uganda	105	$ 6
China	6	$ 1,237	South Africa	35	$ 104			
Italy	7	$ 1,181	Malaysia	37	$ 95			
Canada	8	$ 716	Singapore	40	$ 87			
Spain	9	$ 650	Colombia	41	$ 82			
Mexico	10	$ 637	U.A.E.	43	$ 71			
India	11	$ 515	Hungary	45	$ 66			
South Korea	12	$ 477	Chile	46	$ 64			

Source: World Development Indicators Database, World Bank (July 2003).

彩图 6

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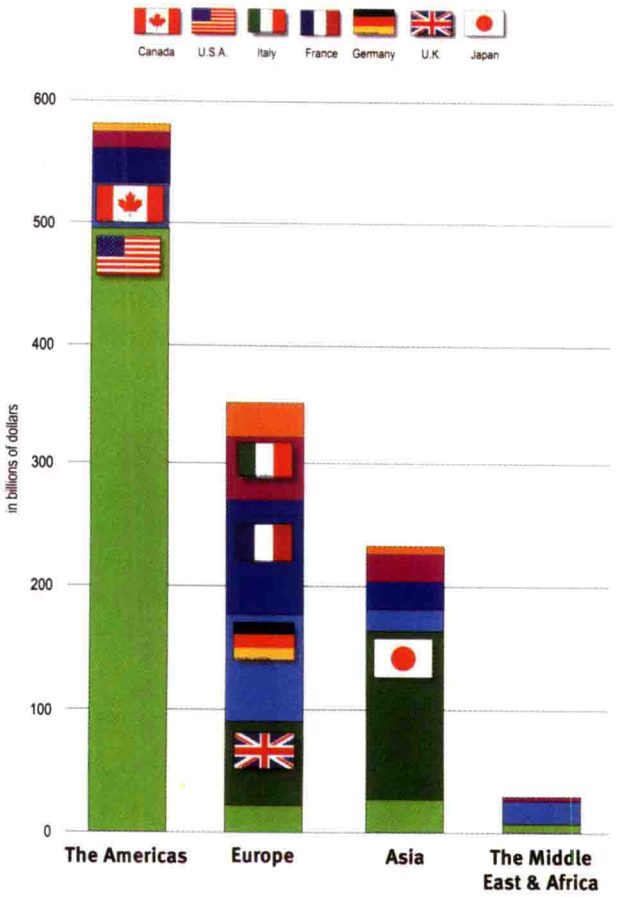
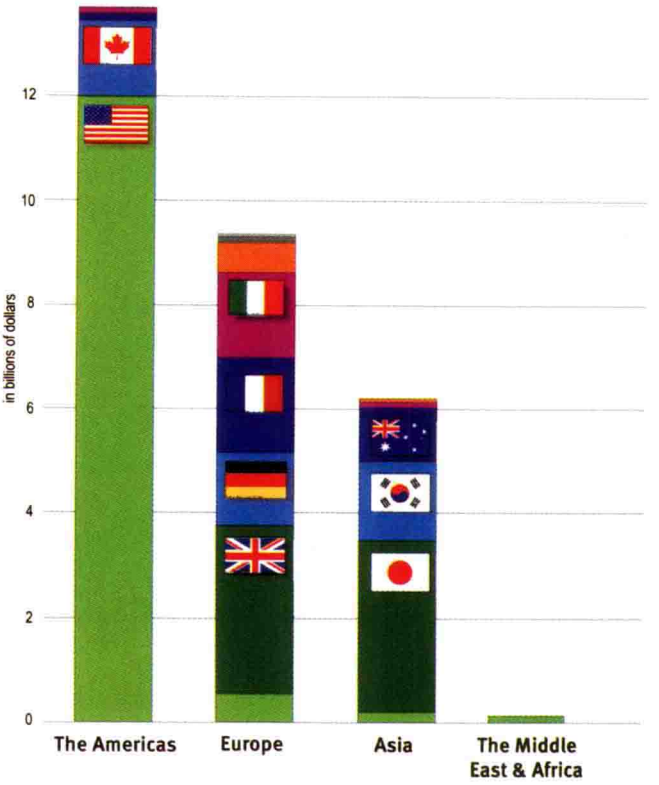


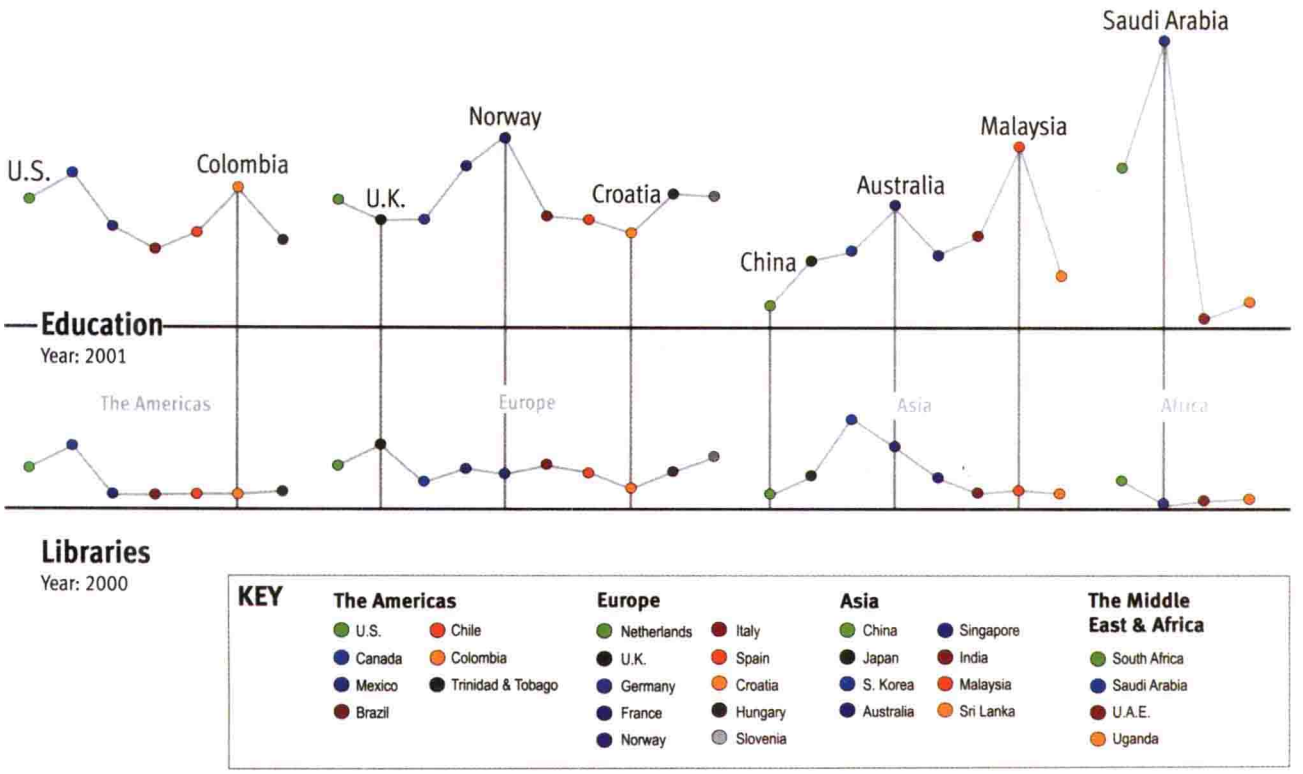
Education spending by region

彩图 9



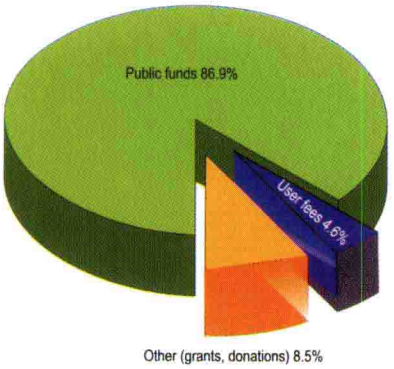
Library spending by region

彩图 10



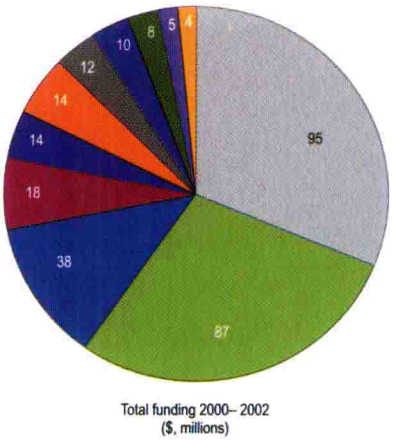
GDP spending on education and libraries[9]

彩图 11



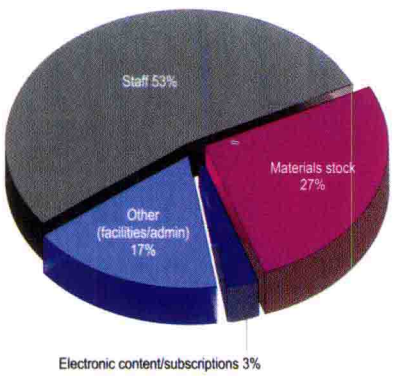
Sources of library funds

彩图 12



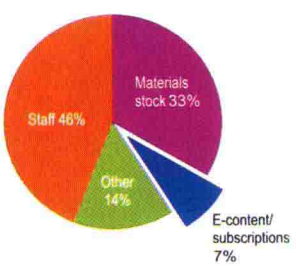
Largest private library funding foundations

彩图 13



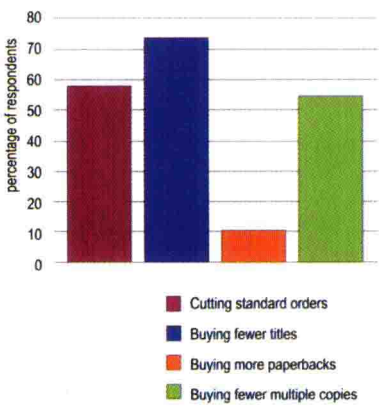
Uses of library funds worldwide

彩图 14



Use of library funds—ARL University libraries 2001–02

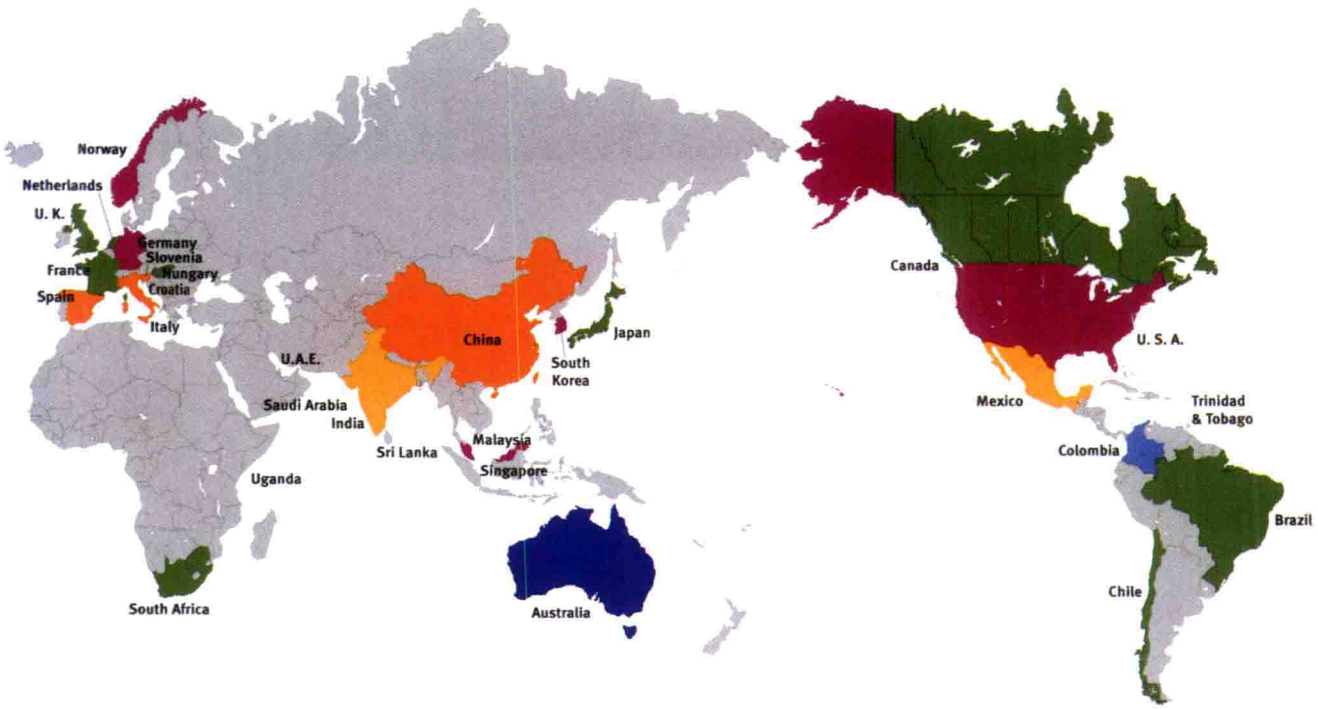
彩图 15



Source: 2003 Library Journal Buying Survey

U.S. public libraries—materials budget response to budget cuts

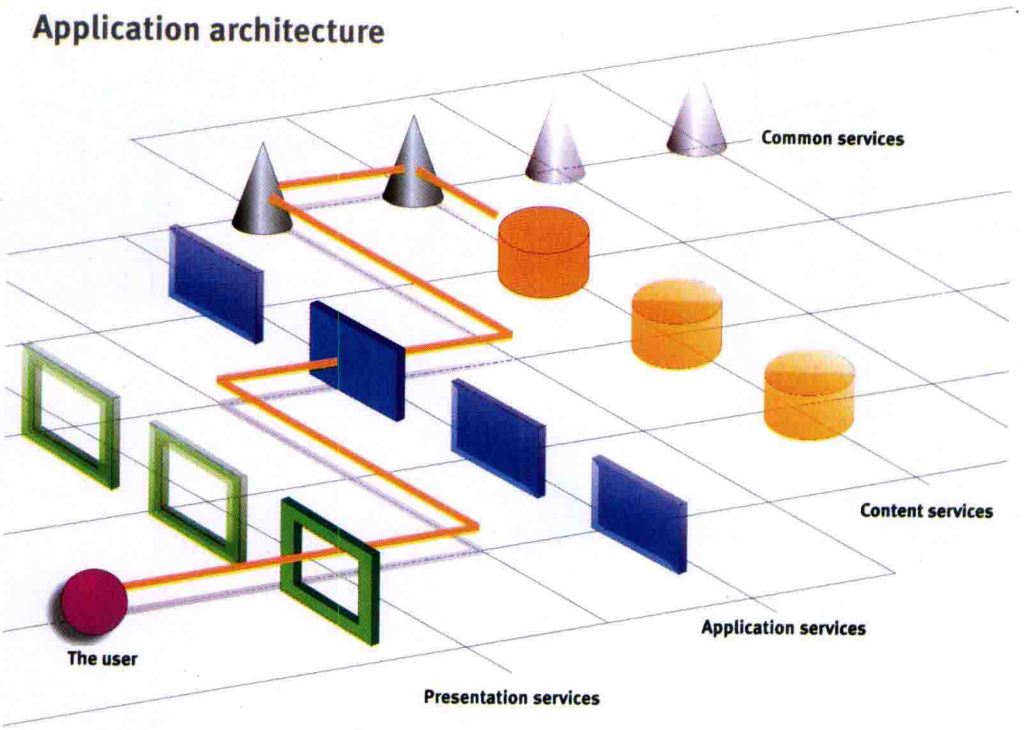
彩图 16



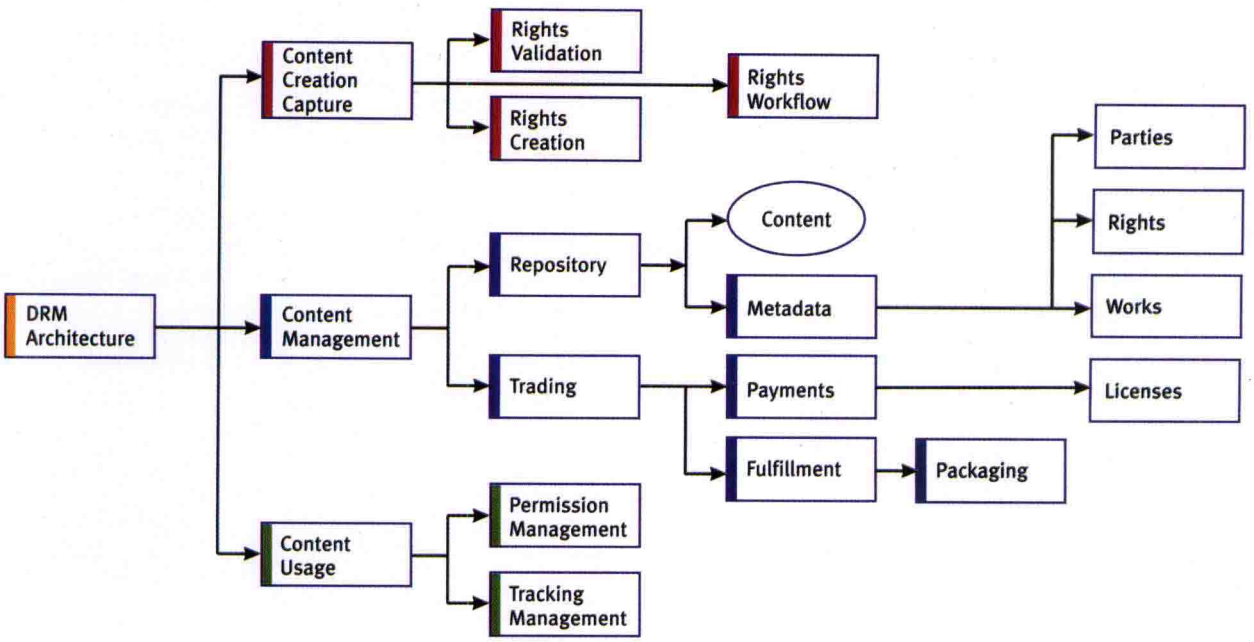
Country spending on information and communications technology

Country	% GDP	Country	% GDP	Country	% GDP
Colombia	12.0%	Brazil	8.3%	Slovenia	4.7%
Australia	10.7%	Chile	8.1%	India	3.9%
Singapore	9.9%	United States	7.9%	Mexico	3.2%
United Kingdom	9.7%	Germany	7.9%	Croatia	N/A
Japan	9.6%	South Korea	7.4%	Sri Lanka	N/A
Netherlands	9.3%	Norway	7.2%	Trinidad & Tobago	N/A
South Africa	9.2%	Malaysia	6.6%	U.A.E.	N/A
France	9.1%	Italy	5.7%	Uganda	N/A
Hungary	8.9%	China	5.7%	Saudi Arabia	N/A
Canada	8.7%	Spain	5.1%		

Sources: World Development Indicators Database–2003 Edition, World Bank.

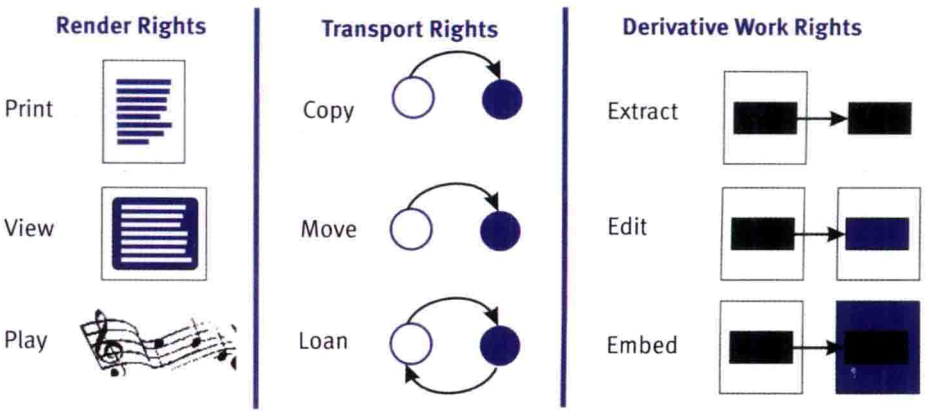


彩图 18

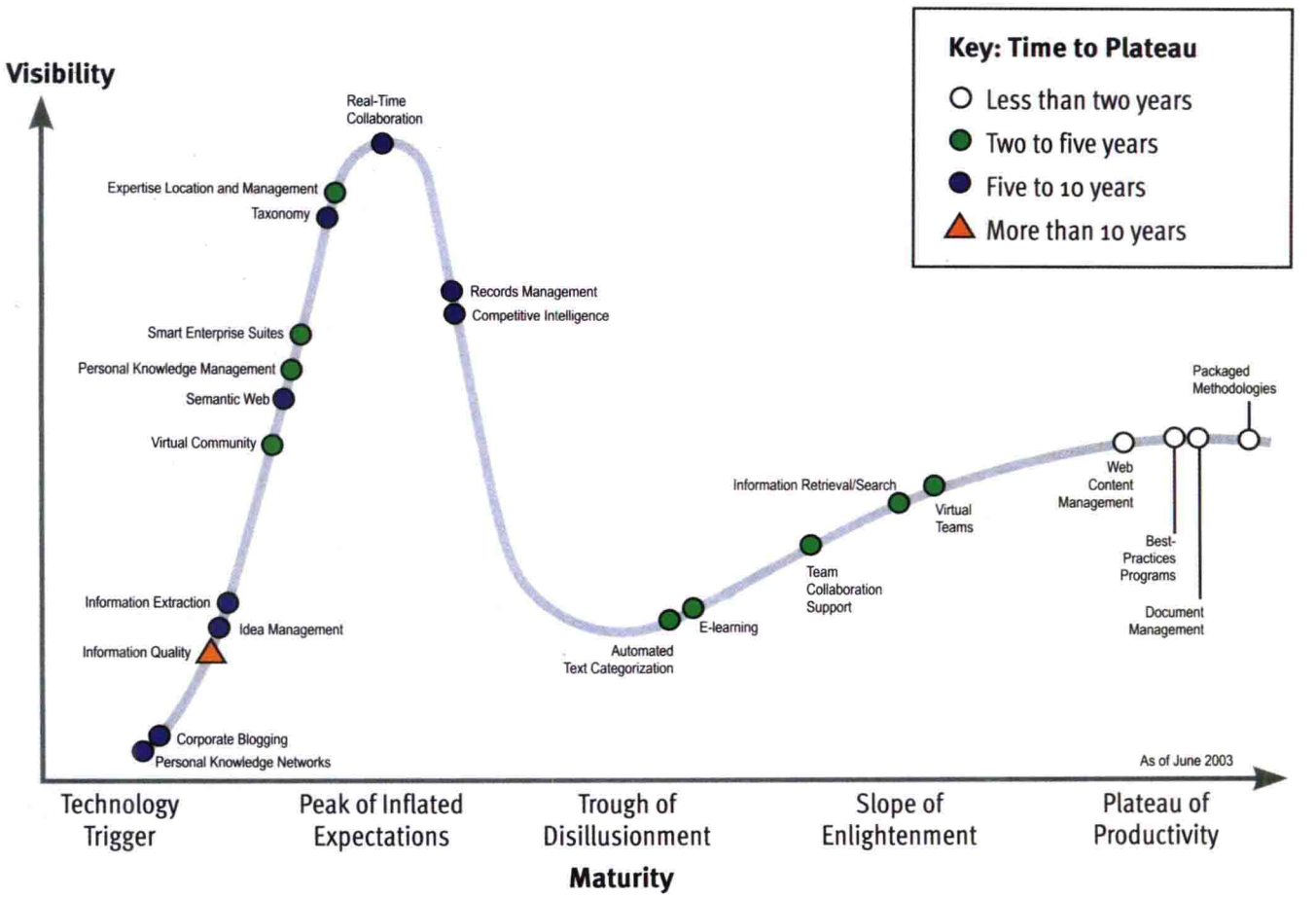


DRM Functional Architecture diagram[24]

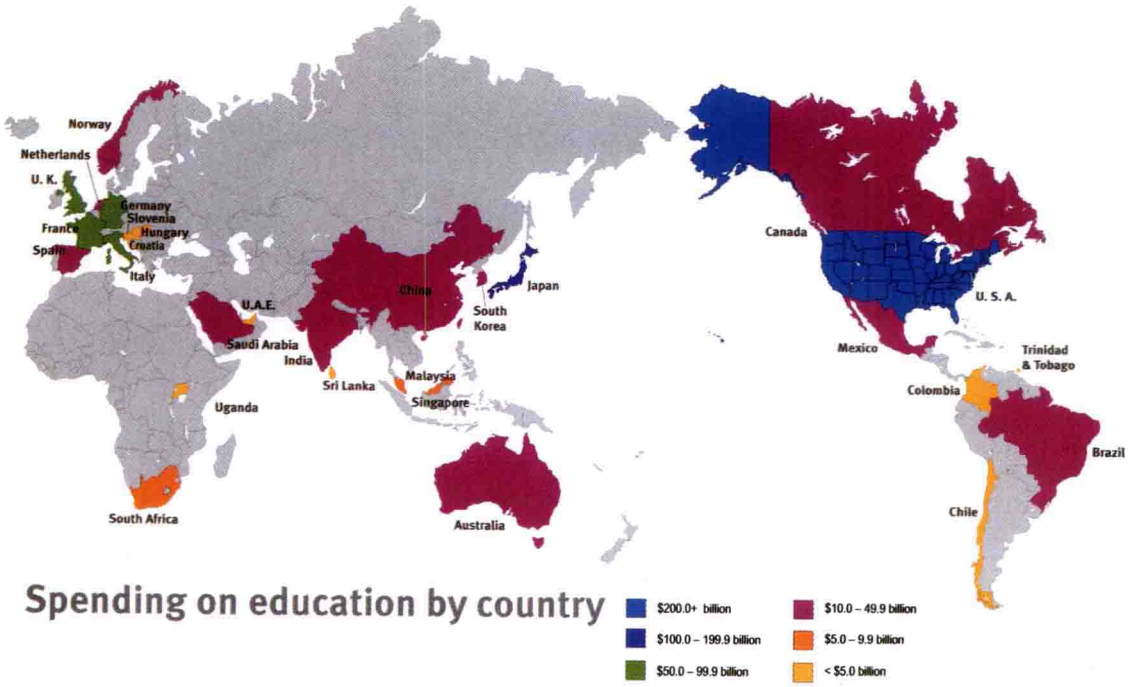
彩图 19

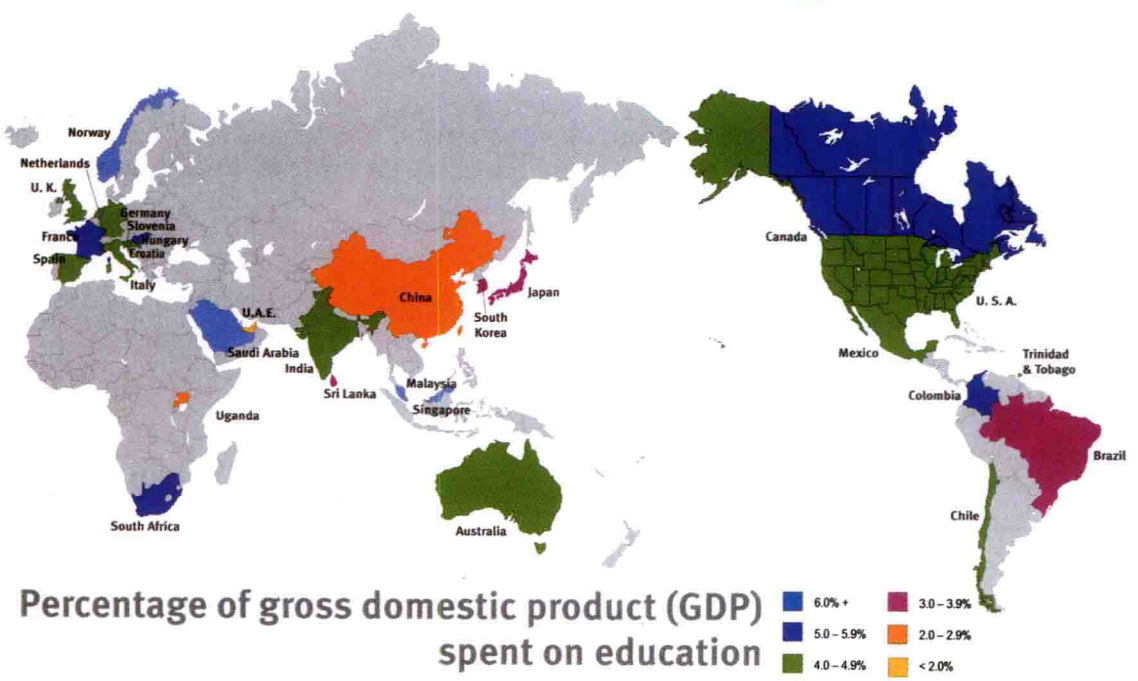

Render Rights
Print
View
Play
Transport Rights
Copy
Move
Loan
Derivative Work Rights
Extract
Edit
Embed

彩图 20


Key: Time to Plateau
Less than two years
Two to five years
Five to 10 years
More than 10 years
Visibility
Real-Time Collaboration
Expertise Location and Management
Taxonomy
Records Management
Competitive Intelligence
Smart Enterprise Suites
Personal Knowledge Management
Semantic Web
Virtual Community
Information Extraction
Idea Management
Information Quality
Corporate Blogging
Personal Knowledge Networks
Automated Text Categorization
E-learning
Information Retrieval/Search
Team Collaboration Support
Virtual Teams
Web Content Management
Best-Practices Programs
Document Management
Packaged Methodologies
As of June 2003
Technology Trigger
Peak of Inflated Expectations
Trough of Disillusionment
Slope of Enlightenment
Plateau of Productivity
Maturity

彩图 21





Country education spending

Country	Education Spending (Billions)	% GDP on Education	Country	Education Spending (Billions)	% GDP on Education	Country	Education Spending (Billions)	% GDP on Education
United States	$ 500	4.8%	India	$ 21	4.1%	Hungary	$ 3	5.0%
Japan	$ 139	3.5%	Netherlands	$ 20	4.8%	Singapore	$ 3	3.7%
Germany	$ 89	4.5%	Australia	$ 19	4.7%	Chile	$ 3	4.2%
France	$ 82	5.8%	South Korea	$ 18	3.8%	U.A.E	$ 1	1.9%
United Kingdom	$ 70	4.5%	Saudi Arabia	$ 18	9.5%	Slovenia	$ 1	4.9%
Italy	$ 54	4.6%	Brazil	$ 17	3.8%	Croatia	$ 1	4.2%
Canada	$ 39	5.4%	Norway	$ 13	6.8%	Sri Lanka	$ 0.5	3.1%
Spain	$ 29	4.5%	South Africa	$ 6	5.7%	Trinidad & Tobago	$ 0.4	4.0%
Mexico	$ 28	4.4%	Malaysia	$ 6	6.2%	Uganda	$ 0.1	2.3%
China	$ 27	2.2%	Colombia	$ 4	5.1%			

Source: UNESCO Institute for Statistics (May 2003).

彩图 23

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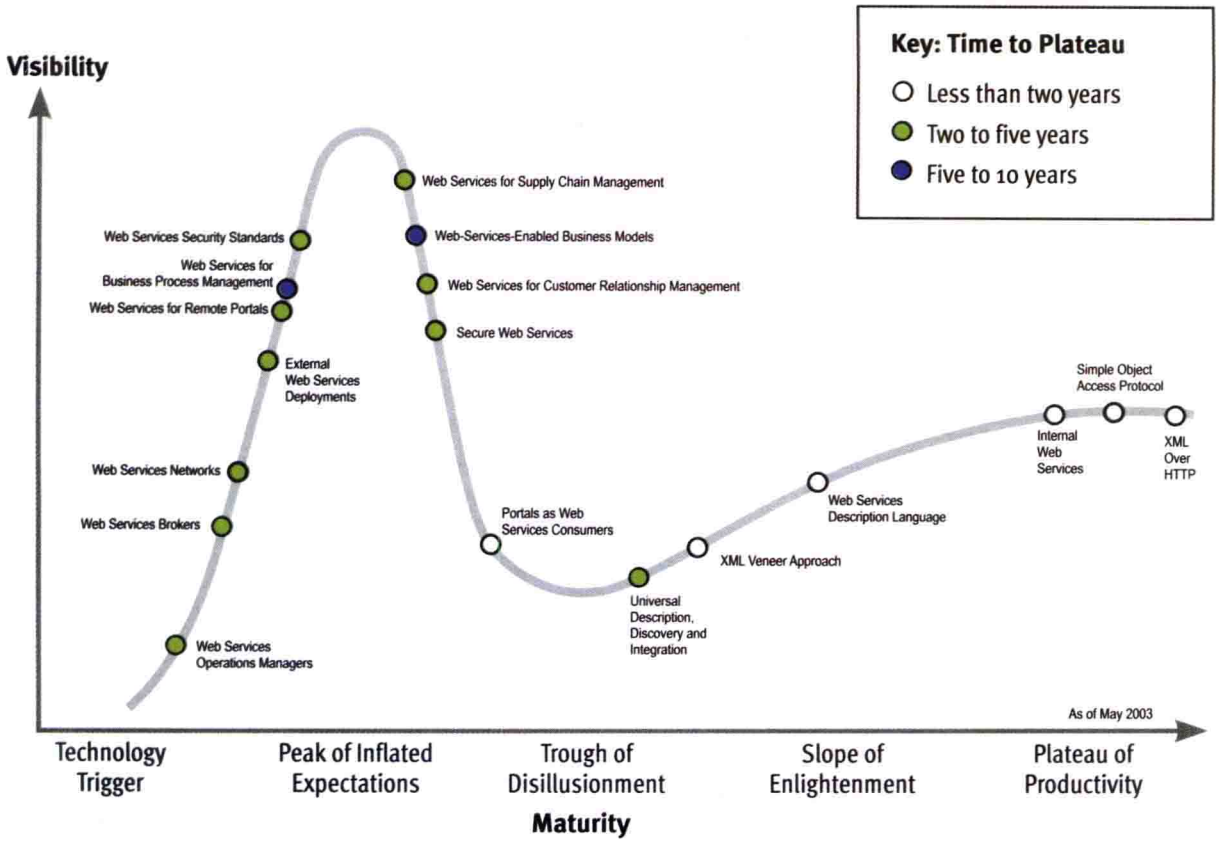
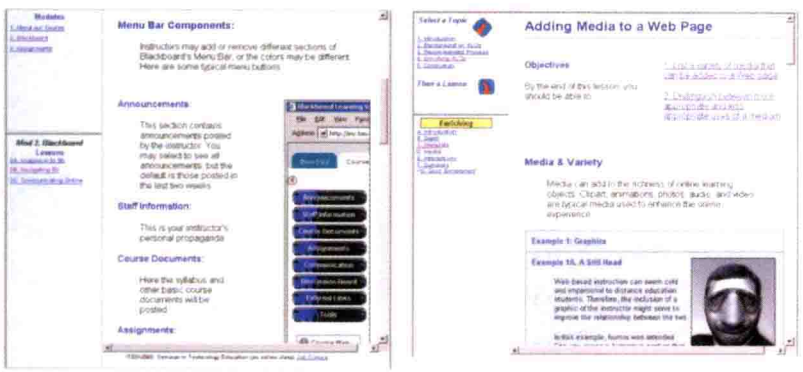
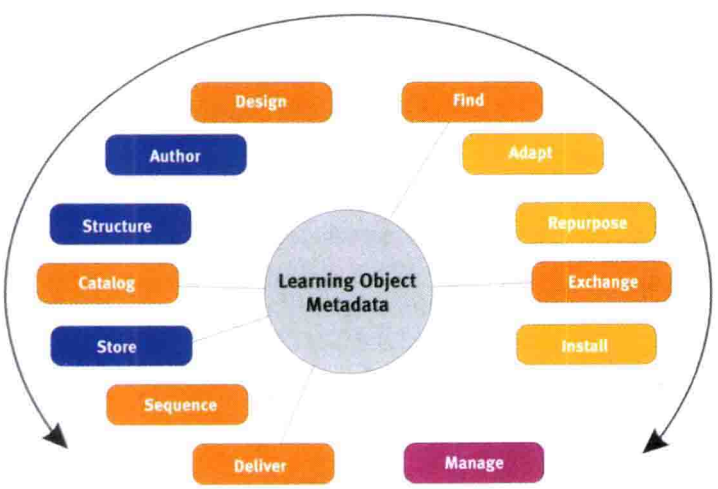


彩图 22



Learning objects[8]

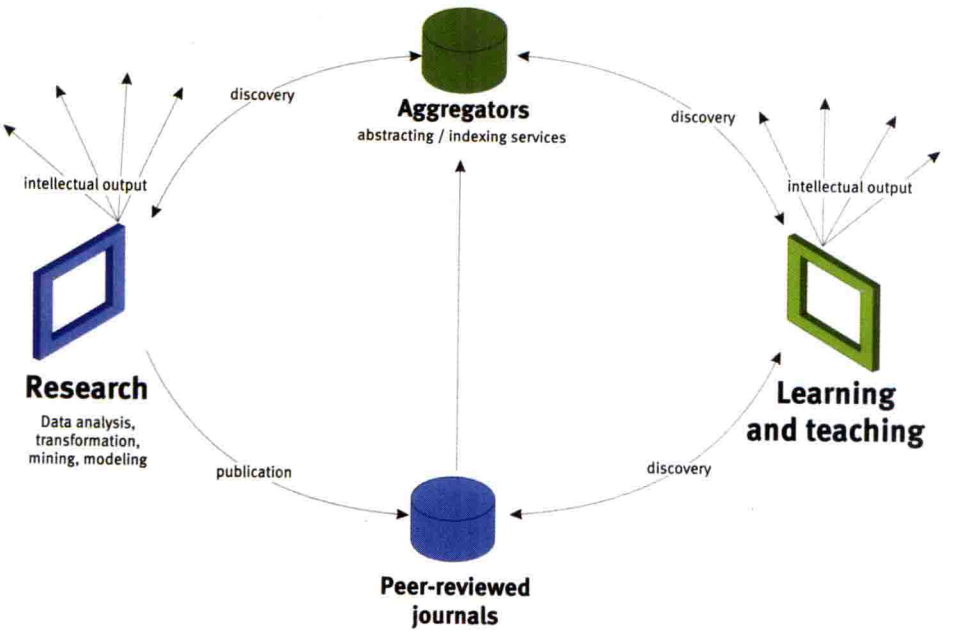
彩图 24



Learning object life cycle diagram[9]

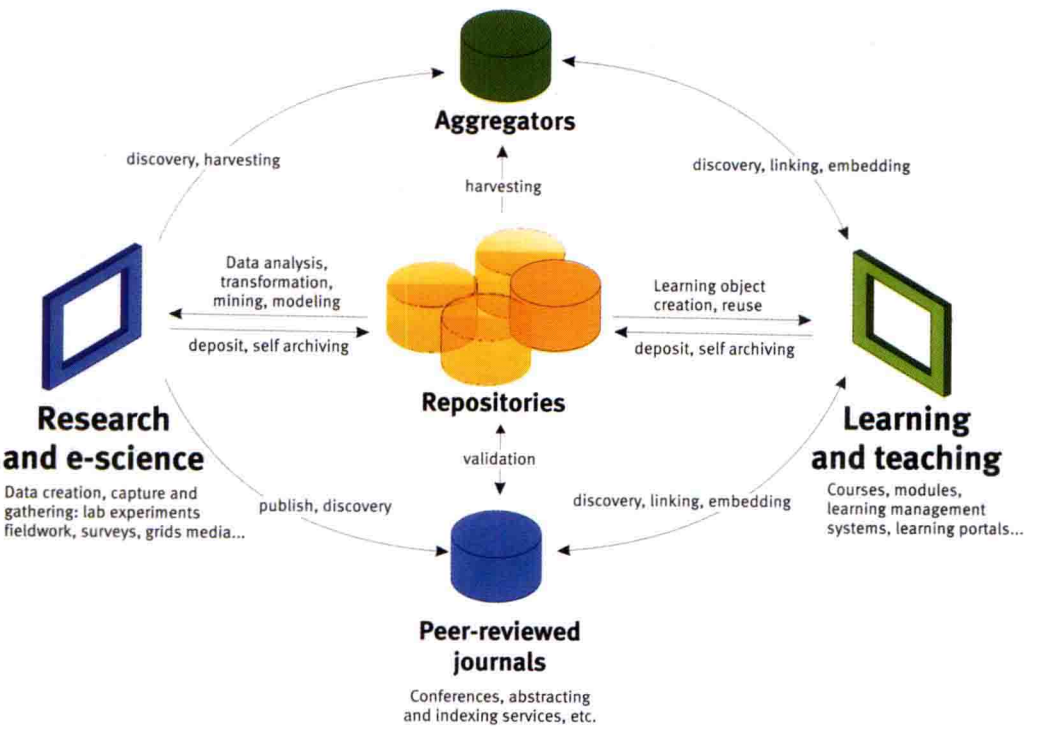
彩图 25

彩图 26



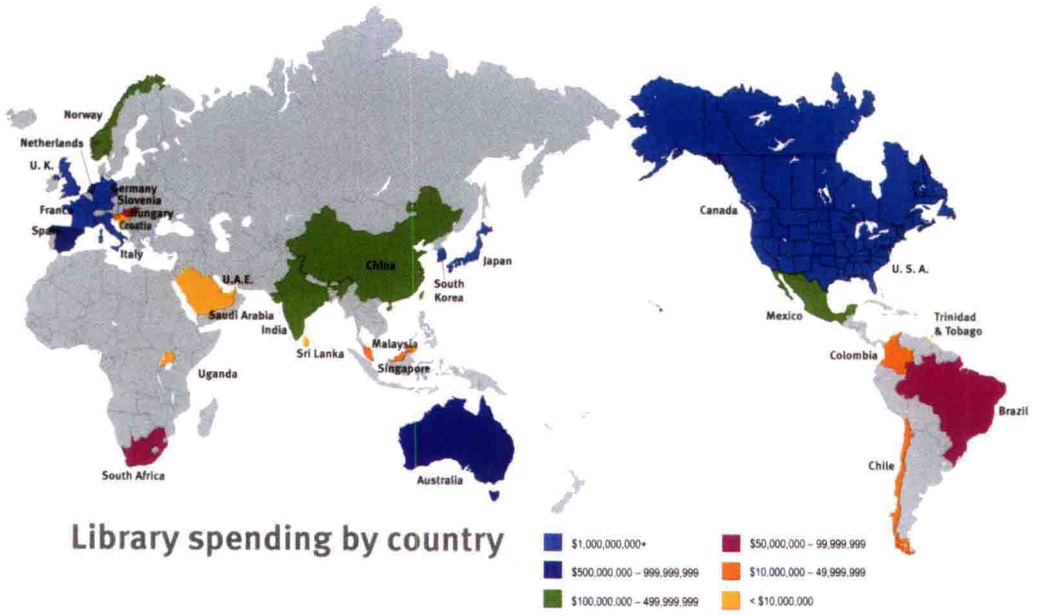
Scholarly information flow—Then

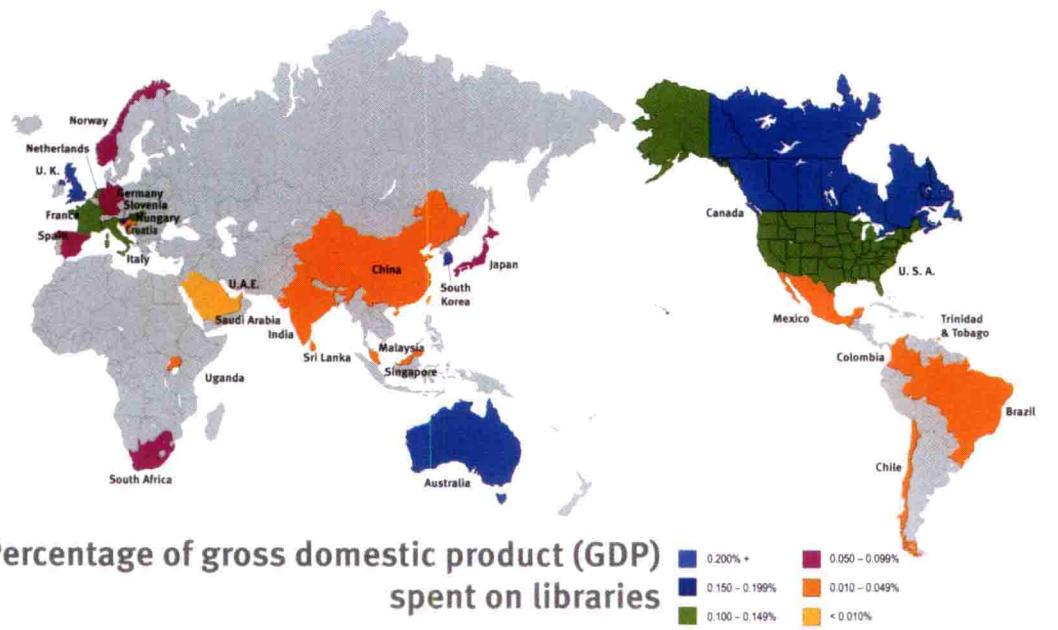
彩图 27



Scholarly information flow—Now

彩图 28

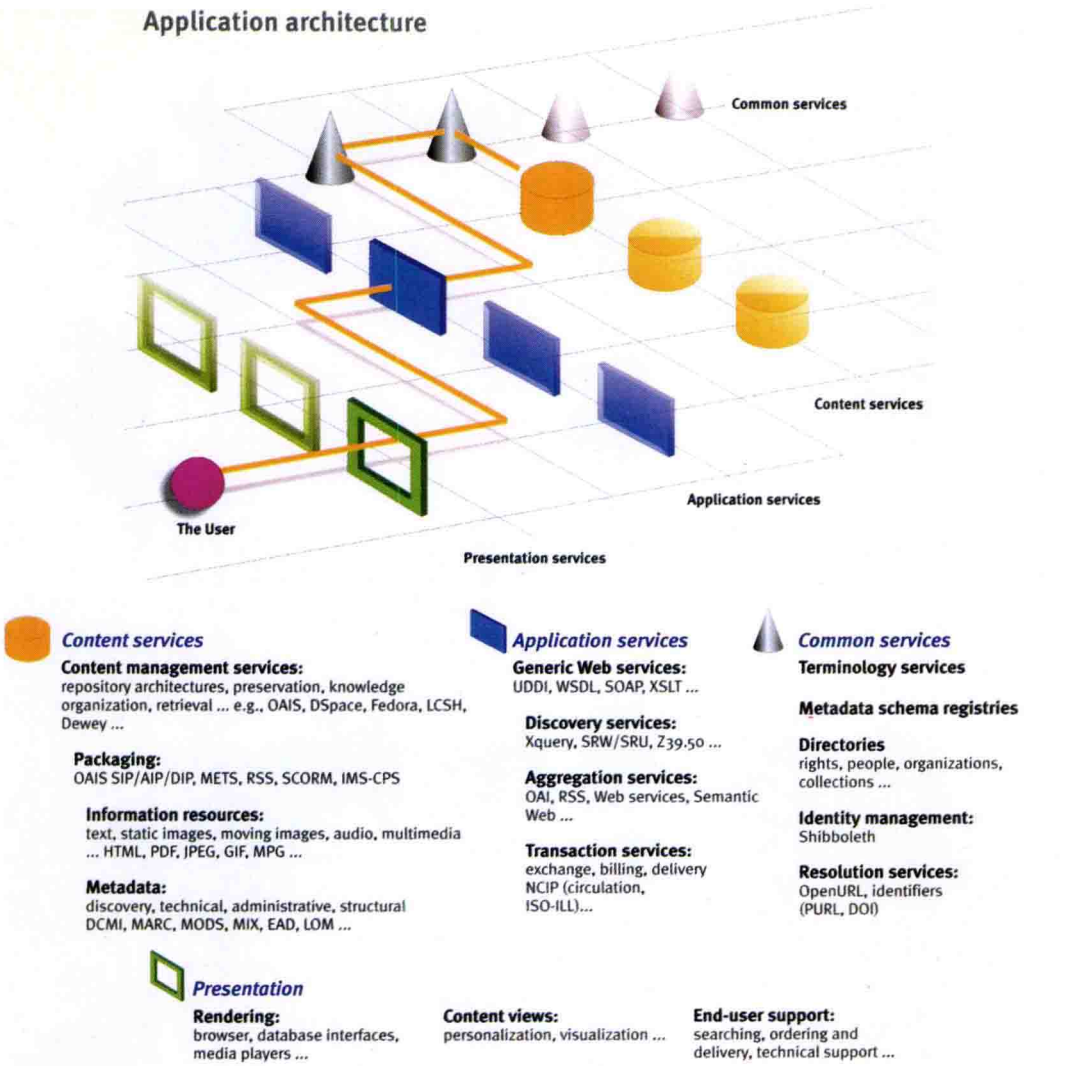




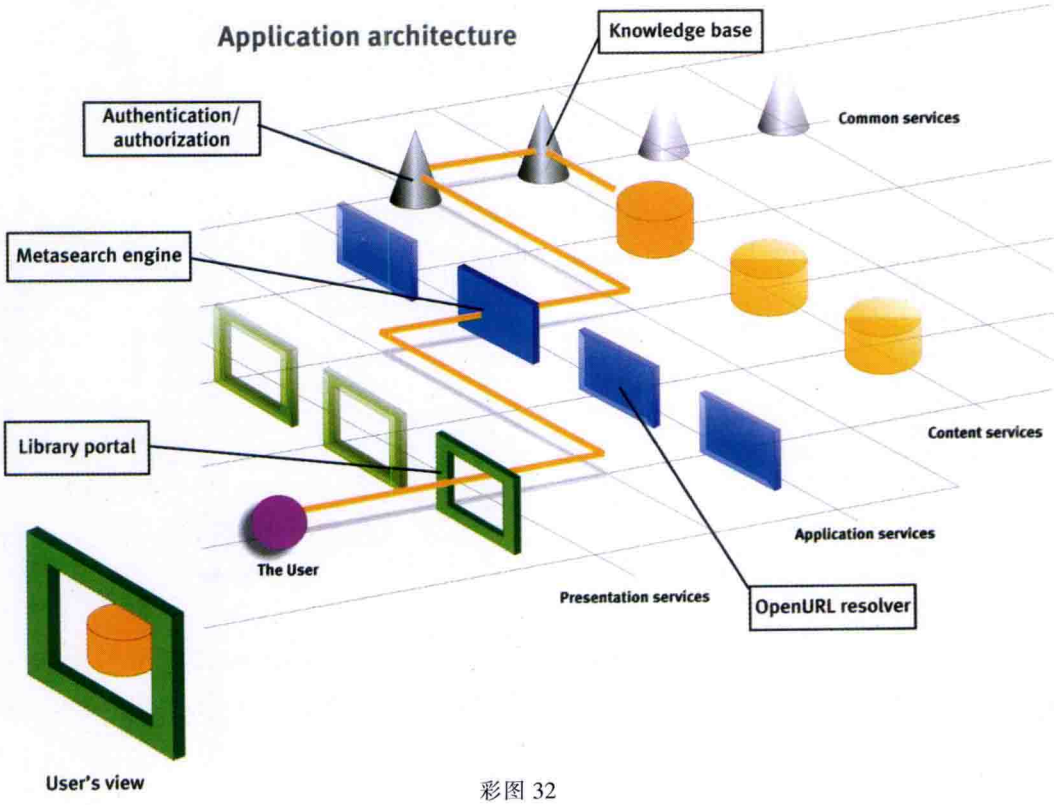
Country library spending

Country	Library Spending (Millions)	% GDP on Libraries	Country	Library Spending (Millions)	%GDP on Libraries	Country	Library Spending (Millions)	% GDP on Libraries
United States	$ 11,951	0.11%	Spain	$ 531	0.08%	Malaysia	$ 28	0.03%
Japan	$ 3,247	0.08%	China	$ 218	0.02%	Colombia	$ 16	0.02%
United Kingdom	$ 3,221	0.21%	Norway	$ 179	0.09%	Chile	$ 13	0.02%
Italy	$ 1,599	0.14%	Mexico	$ 104	0.02%	Croatia	$ 8	0.04%
France	$ 1,591	0.11%	India	$ 103	0.02%	Saudi Arabia	$ 7	0.00%
South Korea	$ 1,507	0.32%	Brazil	$ 90	0.02%	Sri Lanka	$ 3	0.02%
Canada	$ 1,447	0.20%	Singapore	$ 70	0.08%	Trinidad & Tobago	$ 3	0.03%
Germany	$ 1,353	0.07%	South Africa	$ 68	0.06%	U.A.E.	$ 3	0.00%
Australia	$ 834	0.20%	Hungary	$ 64	0.10%	Uganda	$ 1	0.01%
Netherlands	$ 536	0.13%	Slovenia	$ 35	0.17%			

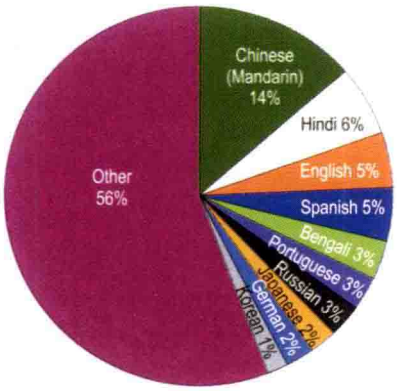
Source: Various including LibEcon, UNESCO, *World Encyclopedia of Library and Information Services* and estimates for certain countries.


Application architecture
Common services
Content services
Application services
The User
Presentation services
Content services
Content management services:
repository architectures, preservation, knowledge organization, retrieval ... e.g., OAIS, DSpace, Fedora, LCSH, Dewey ...
Packaging:
OAIS SIP/AIP/DIP, METS, RSS, SCORM, IMS-CPS
Information resources:
text, static images, moving images, audio, multimedia ... HTML, PDF, JPEG, GIF, MPG ...
Metadata:
discovery, technical, administrative, structural DCMI, MARC, MODS, MIX, EAD, LOM ...
Application services
Generic Web services:
UDDI, WSDL, SOAP, XSLT ...
Discovery services:
Xquery, SRW/SRU, Z39.50 ...
Aggregation services:
OAI, RSS, Web services, Semantic Web ...
Transaction services:
exchange, billing, delivery NCIP (circulation, ISO-ILL)...
Common services
Terminology services
Metadata schema registries
Directories
rights, people, organizations, collections ...
Identity management:
Shibboleth
Resolution services:
OpenURL, identifiers (PURL, DOI)
Presentation
Rendering:
browser, database interfaces, media players ...
Content views:
personalization, visualization ...
End-user support:
searching, ordering and delivery, technical support ...

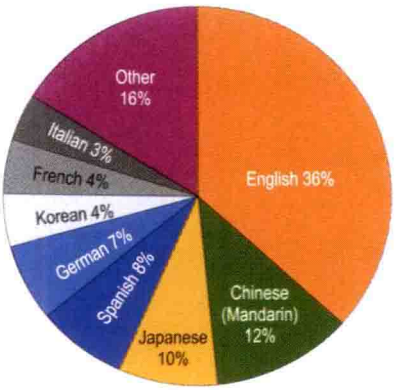
彩图 31


Application architecture
Knowledge base
Authentication/ authorization
Common services
Metasearch engine
Library portal
Content services
Application services
The User
Presentation services
OpenURL resolver
User's view

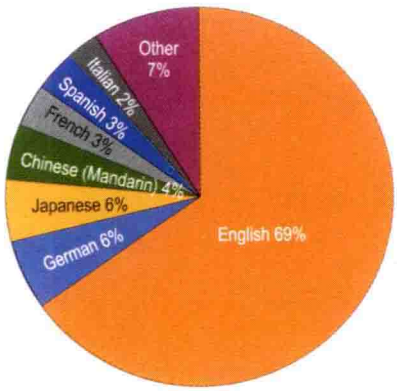
彩图 32



Top ten spoken languages [8]

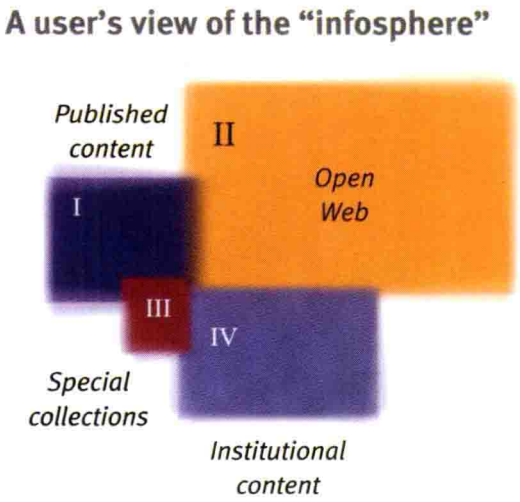


Online language populations [8]

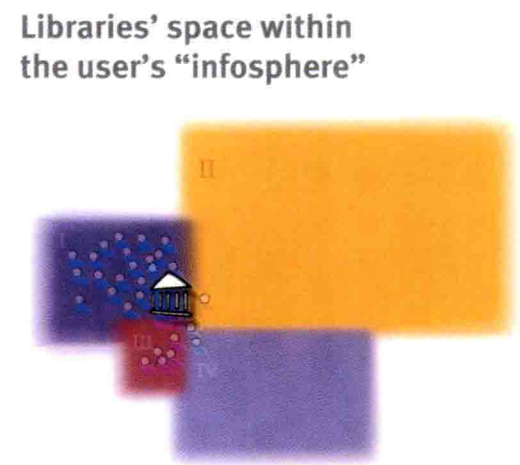


Languages of Web content [8]

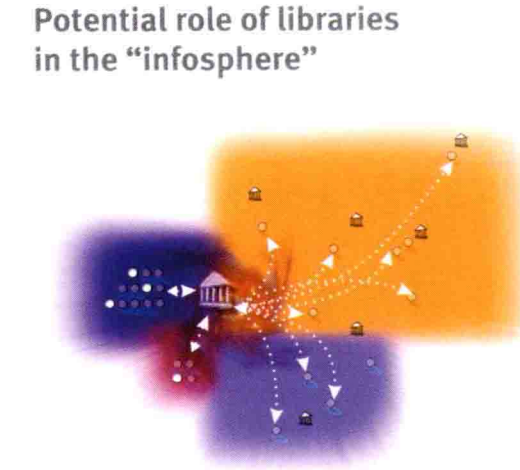
彩图 30



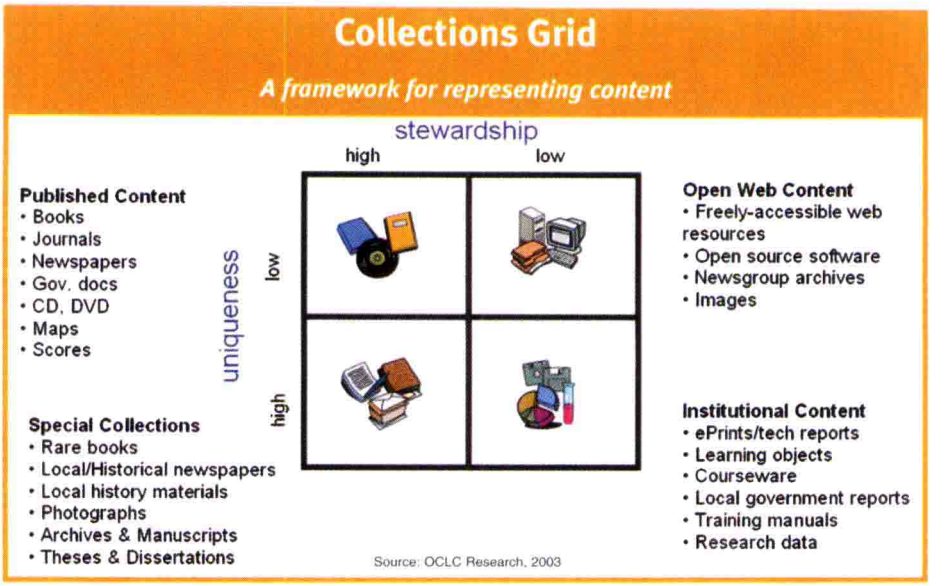
彩图 33



彩图 34



彩图 35



彩图 36

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