



INFORMATION SEEKING IN ELECTRONIC ENVIRONMENTS: REFLECTION OF BALTIC DEVELOPMENT IN ELECTRONIC DATABASES

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Since the early days the world has been getting smaller and smaller with each new accomplishment. From horseback travel to ships to planes. The Internet is bringing everyone closer than ever before in our history. The Earth is becoming a true village, where people from everywhere can communicate with everyone else as if they were meeting in the town center.

Village Earth <http://www.vlgrth.com/library.html>

The main objective of this paper is answer to a question: "What does this picture look like what our "co-villager from Earth" gets surfing in Internet and searching information about Baltic libraries?"

1. History.

The first overview about Baltic libraries in new environment was made by Margit Kurm in 1994. The project "Using Internet in the Baltic States" was supported by IREX¹. The contents of the survey was: 1) international projects; 2) information servers, mailing lists and databases; 3) Baltic related electronic resources; 4) Baltic related lists and listservs; 5) Using Internet in Estonian, Latvian and Lithuanian libraries. The project carried out by Maire Bundza from Latvian Academic Library in 1995 is also supported by IREX². A site "Libraries of Baltic states" was opened where brief descriptions of libraries, addresses, stocks, use of technical and electronic facilities etc. are presented. A good overview about Lithuanian resources on the Information Superhighway was created by Thomas Baltis in 1995³.

2. Present situation.

Six libraries have their WWW sites: National Library of Estonia⁴, Tartu University Library⁵, Latvian Academic Library⁶, Latvian University Library⁷, National Library of Lithuania⁸ and Vilnius University Library⁹.

Four of them have electronic catalogues: **Tartu University Library**¹⁰ (since November,

1994), **Latvian Academic Library**¹¹(Since August, 1993 all incoming books are handled in Library's integrated automation system LIBER. Old books and manuscripts are handled in automation system CODEX. Both LIBER and Codex were designed in France, Relais Informatique International), **Latvian University Library**¹²(Since 1993 the electronic catalogue has been announced to be accessible for literature searching. It is part of the original bibliographic system ALISE (Advanced Library Information Service) which has been created in the Library.); **Vilnius University Library** (Since January, 1993). The union catalogue of Tartu student organisations libraries is reflected in Estonian Educational Network WWW-site.¹³

| Information available in the Baltic Libraries WWW-s | | | | | |
|---|----------|-------------|-------------|---------------|------------|
| Subject | Tartu UL | Estonian NL | Latvian AcL | Lithuanian NL | Vilnius UL |
| Address | x | x | x | x | x |
| Services | x | x | x | x | x |
| Catalogues, files, databases | x | x | x | x | x |
| Collections | x | x | x | x | x |
| Separate departments with their own home pages | 4 | 1 | | | |
| Staff | x | x | x | | |
| History | x | x | x | x | x |
| Annual Reports | x | x | | x | |
| Papers, activities, cultural events | x | | x | x | |
| Images | | | x | | |

3. Reflection of the Baltic libraries in World WWW-s .

From 151 various homepages 89 belonged to educational institutions (universities, libraries), 21 to various organisations and 41 to commercial institutions. Among 293 various sites, 204 were links to Baltic libraries; 79 gave various information (membership in international organisations, participation in conferences , book-donations, co-operation in various projects etc.); 10 sites were full texts (papers, articles, project reports.)¹⁴

| Reflection of the Baltic libraries in World WWW-s (July-September, 1996) | | | | | | |
|--|------------|----------|-------------|------------|-------------|------------|
| Country | EstonianNL | Tartu UL | Latvian AcL | Latvian UL | Lithuan. NL | Vilnius UL |
| Argentina ¹⁵ | 1 | | 1 | 1 | | 1 |
| Austria ¹⁶ | | 1 | | | | |
| Australia ¹⁷ | 3 | 2 | 3 | 1 | | 4 |
| Belgium ¹⁸ | 1 | 1 | 1 | 1 | 3 | |
| Canada ¹⁹ | 4 | 3 | | | 3 | 1 |
| Chile ²⁰ | | 1 | | | | |

| | | | | | | |
|---------------------------|----|----|----|----|----|----|
| China ²¹ | | 1 | | | | |
| Czech ²² | 1 | | | | | 1 |
| Denmark ²³ | 1 | | 1 | | | |
| Finland ²⁴ | 5 | 1 | | | 1 | |
| France ²⁵ | 1 | 1 | 1 | 1 | | 2 |
| Germany ²⁶ | 1 | 5 | | 1 | | 1 |
| Hungary ²⁷ | 3 | 1 | 2 | 1 | 1 | 1 |
| Israel ²⁸ | 1 | | | | | |
| Italy ²⁹ | 2 | 3 | 2 | 1 | 1 | 2 |
| Japan ³⁰ | 1 | 3 | | | | 1 |
| Greece ³¹ | | 1 | | | | |
| Korea ³² | | 2 | 1 | | | |
| Netherlands ³³ | 1 | | | | | |
| New-Zealand ³⁴ | | 1 | | | | |
| Norway ³⁵ | 1 | 1 | | 1 | 1 | |
| Poland ³⁶ | 2 | 2 | 2 | 1 | | 2 |
| Romania ³⁷ | 1 | 1 | 1 | | | |
| Russia ³⁸ | 3 | 4 | 2 | 1 | | 1 |
| Spain ³⁹ | | 4 | | | | |
| Sweden ⁴⁰ | 2 | 3 | 2 | 2 | | 2 |
| S-Africa ⁴¹ | 1 | | 1 | | | 1 |
| Turkey ⁴² | | 1 | | | | 1 |
| Taiwan ⁴³ | | | 1 | 1 | | |
| Ukraine ⁴⁴ | 2 | 2 | | | 1 | 1 |
| UK ⁴⁵ | 2 | 4 | 2 | 1 | 2 | 2 |
| USA ⁴⁶ | 26 | 31 | 23 | 14 | 9 | 21 |
| TOTAL: 32 countries | 66 | 80 | 46 | 28 | 22 | 45 |

4. Future objectives:

The creation of library network started in Lithuania ⁴⁷ and Estonia ⁴⁸ at the same time - the Consortium of Lithuanian research libraries and the Consortium of Estonian research libraries started in 1994. In spring 1995 the representatives of Latvian, Lithuanian and Estonian librarians came together in Tallinn and signed an agreement to use common standards and principles. 5. In conclusion. We can not to forget that libraries form a part of national network system which success is directly influenced by the whole network development and growth.

| Internet density in Baltic countries ⁴⁹ | | | | |
|--|-------|------------------------|------------------|-------------------------|
| (August 31, 1996) | | | | |
| Country | Hosts | Population in millions | Population/Hosts | Hosts/10.000 Population |
| Estonia | 6836 | 1,459 | 213 | 47 |
| Latvia | 3101 | 2,469 | 796 | 13 |
| Lithuania | 1391 | 3,646 | 2621 | 4 |

¹ Margit Kurm. Using Internet in the Baltic States. June

1994. <http://mercury.nlib.ee/~teatsaal/margit/IBS/IBS0.html> 10. September 1996.

² Maira Bundza. Libraries of Baltic states. June 1995. http://www.acadlib.lv/e/database/balt_bib/

³ Thomas Baltis. Lithuanian Resources on the Information Superhighway.- Bridges Journal:Lithuanian- American News Journal, Vol. 19, NR. 4, May 1995. http://www.mcs.com/~thomas/www/articles/bridges_1.html 15.

August 1996

⁴ <http://www.nlib.ee/> 14. September 1996

⁵ <http://www.utlib.ee/> 13. September 1996

⁶ <http://www.acadlib.lv/> 13. September 1996

⁷ <http://iko.telekom.lv:8080/alise/> From June, 23 till September, 13 1996 this site was not accessible. A brief description of Library's collections, opening hours etc. is open: http://www.lanet.lv/members/LU/o_libr.html

⁸ <http://www.lnb.lrs.lt/> 13. September 1996

⁹ <http://www.vu.lt/university/library.html> 13. September 1996

¹⁰ <http://www.utlib.ee/ingrid/> 14. September 1996

¹¹ <http://www.acadlib.lv/e/katalogs/> 13. September 1996

¹² <http://iko.telekom.lv:8080/alise/> Not accessible 14. September 1996

¹³ <http://www.EENet.ee/bib/> 14. September 1996

¹⁴ **I. Eenmaa.** The National Library of Estonia in Tallinn and the University Library in Tartu". Report in the Conference "The post-modern Library: between functionality and aesthetics. Paris 22-26 January, 1996. http://qwd19.qwdq.de/~sub/ebene_1/liber96/liber.htm 6. August 1996

T. Lidman. Baltic library management project. <http://bib10.sub.su.se/henrik/baltswe.htm> 12. September 1996

M. Halbert. Tartu University Library Automation Plan 1995-1997.

<http://is.rice.edu/~halbert/Internat/plan.html> 15. August 1996

N. J. Hervey. Iowa College librarian finds Eastern European, Russian libraries poised from change. CLS Newsletter Issued by the College Library Section of the Association of College&Research Libraries, Vol. 90, NR. 1, Fall 1994. <http://nemesi.willamette.edu/publications/cls/fall94> 11. September 1996

INTERMEDIA Project. User education. (Creation of the Centre of the Internet Training and Information which is mainly directed towards libraries). <http://www.ciesin.ee/INTERMEDIA/imeng.html> 14. September 1996

M. Segbert. The Evolving Library Scene in Latvia. <http://www2.echo.lu/libraries/en/caee/latvia.html> 14. September 1996

¹⁵ <http://www.pccp.com.ar/1-bmu.html>

¹⁶ <http://www.tcs.co.at/tt/infop/byloc.htm>

¹⁷ <http://www.utas.edu.au/docs/comlaw/bookmarks5.html> Tasmania Un-ty

<http://www.maths.monash.edu.au/~kiq/ruscom/general/CISlinks.html> Monash Un-ty Math. Dep.

http://artworks.apona.org.au/hypertext/Data_Sources/WWW/ee.html Melbourne Art Works

<http://broncho.ct.monash.edu.au/~jhu/libraries.html> Monash Un-ty Australian Inst.

<http://smbwww.ballarat.edu.au/ots/europe.htm> School of Mines&Industry Ballarat ACN

<http://www.nla.gov.au/gov/eu.html> National Library of Australia

¹⁸ <http://www.ulq.ac.be/~libnet/bib07.htm> Li,ge Un-ty

<http://www.ua.ac.be/WGLIB/VVBAD/rtmlasi.html> Antwerpen Un-ty

<http://mx500i.kbr.be/elaq/adres.htm> Royal Lib-ry Albert I

¹⁹ <http://www.sirc.ca/iasinew4.html> Sport Information Resource Centre

http://intranet.on.ca/www_LIST.html Intranet Technology

http://www.csi.uottawa.ca/~delannoy/CUI_kw_librar.html Ottawa Un-ty Dep. Computer Sc.

²⁰ <http://quintu.bib.udec.cl/dewey/370.html> Biblioteca Central Univ. de Concepci n

- ²¹ <http://www.xmu.edu.cn/library.html> Xiamen Un-ty
- ²² <http://iupiter.felk.cvut.cz/html/hot-line/9501801.html>
<http://www.psp.cz/cgi-bin/gpcl2/fenrir.psp.cz:70/00/eurovoc/czech/ucast95> Parliament of Czech Republic
- ²³ <http://www.kb.dk/quests/intl/cerl/dansk/manage.htm> Copenhagen Royal Lib-ry
- ²⁴ <http://renki.helsinki.fi/gabriel> National Library
http://muhu.cs.helsinki.fi/Starting_points/Eesti_serverid.html
<http://joynws1.joensuu.fi/library/kannat/kstot.htm> Joensuu Un-ty Libr.
<http://www.lahti.fi/cool/schoo.htm> City of Lahti
<http://www.jyu.fi/~library/linkkeja/kirjasto.html> Jyväskylä Un-ty Libr.
- ²⁵ <http://www.serv.isen.fr/www/listsite>
<http://www.sosi.cnrs.fr/~lmb/Article/Art1995/Edito61.html> Centre National de la Recherche Scientifique
- ²⁶ <http://planck.uni-muenster.de:8080/w3world/geographical.html> Inst. of Theoret.Phys.
<http://www.informatik.uni-oldenburg.de/extern/servers.europe.html> Oldenburg Un-ty
<http://www.uni-trier.de> Trier Un-ty
<http://tkz-220.tkz.fh-rpl.de/server/welt.html> Telekom Zent. der Fachhochschule Rheinland-Pfalz
<http://theorie2.physik.uni-erlangen.de/misc/servers.html> Nürberg Friedrich-Alexander Un-ty Inst. of Theoret. Phys.
- <http://www.jura.uni-sb.de/~serko/history/gistory.html> Juristische Internetprojekt Saarbrücken
http://qwdq19.qwdq.de/~sub/ebene_1/liber96/liber.htm
- ²⁷ http://frev.inf.bme.hu/esatt_indis/esatt/d3/infoprov Regional Inf. Centr. Tech. Un-ty of Budapest. Dep. for Computer Sc. and Inf. Tech.
<http://www.vein.hu/library/library-europe.html> Veszpr,m Un-ty
<http://www.bibl.u-szeged.hu/bibl/vir-library> Jcsef Attila Un-ty Libr.
- ²⁸ <http://www.weizmann.ac.il/jenc6/tracs.html> Weizmann Inst. of Sc.
- ²⁹ <http://www.alice.it/library/net.lib/bibeuro.htm>
<http://www.informest.iunet.it/i/url/> Centro di Servizi e documentazione per la cooper economica internazionale
http://www.telemar.it/mol16/marostica/biblio_mondo.htm
<http://www.rcs.re.it/bib/europa.htm> Polo Univ. di Reggio Emilio
- ³⁰ <http://www.notredame.ac.jp/Other/Servers/www-servers.html> Notre Dame Womens College, Kyoto
<http://www.tulips.tsukuba.ac.jp/other/> Tsukuba Un-ty Libr.
<http://www.tooyo1.u-tokyo.ac.jp/kmatsum.html> Kozuto Matsumura home page
<http://www.takilab.k.dendai.ac.jp/~tei/hotter/Europe> Takizawa Lab.
- ³¹ <http://www.softlab.ntua.gr/www/lists/Geographical.html> Athens Nat. Tech. Un-ty
- ³² <http://jschem.korea.ac.kr/~bbs/boards/KCS/r0005.html> Korea Un-ty Dep. of Chemistry
<http://troll.yonsei.ac.kr/~johnyl/bin/Europe1.html> Yonsei Un-ty A.I. Lab.
<http://eros.dwt.co.kr/www/Europe1.html>
- ³³ <http://www.terena.nl/projects/insight/caching/> Trans. Eur. Rd&Educ. Networking Association
- ³⁴ <http://www.cs.auckland.ac.nz/Doc/ManyServers.html>
- ³⁵ <http://www.bibsys.no/elag95/elag95par.html> Norway Library System
<http://www.ub.uio.no/issn/est.html> Oslo Un-ty Libr.
- ³⁶ <http://mvax.ci.pwr.wroc.pl:70/1> gopher_root%3a/ Wroclaw Polytech.
<http://www.ibspan.waw.pl/html/esatt/d3/usegroups/>
<http://www.dij.krakow.pl/bb/b2.htm> Krakow DIJ
- ³⁷ <http://indis.ici.ro/mirror/html/esatt/d3/infoprov>
- ³⁸ <http://www.quorus.ru/Internet/geographical.html> Quorus ACS
<http://indis.msu.ru/map-esatt/rdt> Regional Inf. Centre
<http://www.fe.msk.ru/~slobin/exsu/sitelist.html> Inst. for Commercial Engineering
<http://www.chance.spb.su/other.inf/libweb.html#eur> Chance Co LTd
<http://www.perm.su/road-to-i/snq-www.html> Region of Perm
<http://alice.ibpm.serpukhov.su/oldfriends/ccsi/emaildir.html>
- ³⁹ <http://www.fib.upc.es/Curs/Geographical.html>
<http://www.sc.ehu.es/servers/Geographical.html>
<http://delta.ft.uam.es/servicios-internet/geografia.html> Madrid Un-ty Dep. of Theor. Physics
<http://fces.udq.es/serma/servers.html> Giroma Un-ty
- ⁴⁰ http://www.ub2.lu.se/resbyloc/Nordic_lib_95html Lund Un-ty Libr.
<http://vest.qu.se/world/Europe.html>

<http://www.bi.hik.se/worldbib.html> Kalmar High School Libr.
<http://educate.lib.chalmers.se/IATUL/4-94.html>
<http://bib10.sub.su.se/henrik/baltswe.htm> Stockholm Un-ty Libr.
⁴¹ <http://logos.hbc.ac.za/outside/servers/Europe.html> Helderberg College
⁴² <http://www.bilkent.edu.tr/netlink/net/telnet/Telnet> Bilkent Un-ty
<http://www.itu.edu.tr> Istanbul Tech. Un-ty
⁴³ <http://www.nitk.edu.tw/libh5.html#eur> Kaohsiung Nat. Inst. Techn.
⁴⁴ <http://www.gu.kiew.ua> Global Ukraine
http://www.aladon.donetsk.ua/x_ussr
⁴⁵ <http://www.tecc.co.uk/public/ewan/docs/servers.html>
<http://www.sas.ac.uk/Warburg/DIRECTOR.HTM> Warburg Inst.
<http://www.chelt.ac.uk/servers/europe.htm> Cheltenham&Gloucester College of Higher Education
<http://www.ssees.ac.uk/latvia.htm> London Un-ty School of Slavonic & East European Studies
<http://www.solent.ac.uk/library/l1400.html>
<http://portico.bl.uk/gabriel/en/sources.html> British Libr. Online Inf. Server
<http://www.teleserv.co.uk/Country>
⁴⁶ <http://www.loc.gov/global/library/library.html> Libr-ry of Congress
<http://lcweb.loc.gov/ndl/sep-95.html>
<http://muslib.lib.ohio-state.edu/rilm/national.html> OSU Music Library
<http://reenic.utexas.edu/reenic/Countries/> Internat Network Inf. Cent.
<http://solar.rtd.utk.edu/~ccsi/emaildir.html> Office of Acad&Research Services
<http://polypro.me.uiuc.edu/~alex/xSU.html> Illinois Un-ty Alex Bakharev home page
<http://pubweb.acns.nwu.edu/~pib/libeurop.htm> Nothwest Public Web
<http://www.lib.berkeley.edu/Collections/Slavic/database.html> Berkeley Un-ty Libr.
<http://sunsite.berkeley.edu/Libweb/europe.html> Berkeley Digital Library
<http://www.lib.washington.edu/~tdowling/libweb-orig.htm#eur> Washington Un-ty Libr.
<http://www.simmons.edu/~griffin/eurlibs.htm> Boston Simmons College
<http://www.uwlax.edu/SAH/BioMicrobio/NSFMoBio/library.html> Wisconsin Un-ty
http://www.law.missouri.edu/vianne/arc_coll.htm
http://www.law.missouri.edu/vianne/lib_intl.htm Missouri Un-ty
<http://is.rice.edu/~halbert/Internat/plan.html> Rice Un-ty
http://www.mcl.ucsb.edu/www_servers California Un-ty Santa Barbara Off Campus WWW
<http://falcon.eku.edu/server/Servers.html> East-Kentucky Univ-ty Dep. of Math&Computer Sc.
<http://www.py.iup.edu/colleqe/shop/www-wservers> Indiana Un-ty of Pennsylvania College of Nat. Sci&Math.
<http://nemesis.willamette.edu/publications/cls/fall94> Willamette Un-ty Mark O. Hatfield Libr.
<http://www.history.rochester.edu> Rochester Un-ty Dep. of History
<http://palimpsest.stanford.edu/cpa/newsletter/cpan173.html>
http://palimpsest.stanford.edu/byorg/qbw_news/qbw97/qbw9709.html Conservation Online
<http://honor.uc.wlu.edu:1020/ze/cl%20-sq%20-ln23-1908> Washington Lee Un-ty
<http://info.irex.org:70/00/comp.comms/whitepages/baltarc.addresses> IREX
<http://info.irex.org/libarnt.htm>
<http://www.issn.org> ISSN Centre
<http://siqcat.org/assist.htm>
<http://www.un.org/MoreInfo/Deplib/> United Nations
<http://civnet.org/coe/human/human.htm> Council of Europe
<http://www.undp.org/sdnp/b94annx7.htm>
<http://fid.conicyt.cl:8000/b96may.htm>
<http://library.nyam.org/library/preserve/links.html> NY Acad. of Med. preserv&Conservation
<http://www.institute.ieee.org/INST/dec95/europe.html>
<http://galaxy.tradewave.com/galaxy/Reference/Libraries.html>
<http://www.mcs.com/~jer/insite.html>
<http://www.mainstreetearth.com/lib.html>
<http://www.yweb.com/020303es.html>
<http://www.seniorsnet.com/allibry.htm>
<http://www.bookwire.com/index/Euro-and-Latin-Libraries.html>
<http://www.massoc.com>
<http://www.conway.com/ssedit.htm>

<http://www.maximov.com/Resources/internet.html>
http://www.scioptics.com/~quanta/paques/soc_bc/library.html
<http://www.memo.com/jcc/jgsr/new.html>
<http://www-external.hal.com/~goldschm/docs.html>
<http://www.alkhemy.com/latv/10.htm>
<http://smartdocs.com/~migre.v/russian/FSU.servers.html>
<http://www.stdio.co/~maney/misc/gographical.html>
<http://www.commerce.com/net2/internet/wwwservers.html>
<http://www.ahandyguide.com/cat1/l/1162.htm>
<http://www.3wnet.com/webdex/referencelibrarie/universi.html>
<http://www.infohiway.com/~jk/webt/t/t1.html#tartu>
<http://www.vtls.com/newsltr/newsltr1.html>
<http://www.std.com/sabre/SAP/partners.html>
<http://www.vlqrth.com/library.html>
<http://www.albany.net/~ms0669/cra/libs/>
<http://andromeda.einet.net/galaxy/Reference/Libraries.html>
<http://www.cyberenet.net/~tetherin/bookmark.html>
http://access.mvc.net/~ramis/europe_library.html
<http://www.li.net/~drd/libseuro.html>
<http://nsl.sccoast.net/umc-one/missions/m-001.html>

⁴⁷ Lithuanian Integrated Library Information System (LIBIS) http://jeqa.ktu.lt/local/libis/call_el1.htm#references 12. September 1996

⁴⁸ Ingrid Saare. Consortium of Estonian Libraries Network. International Conference on Library Automation in Central and Eastern Europe. April 11-13, 1996. Budapest, Hungary. <http://www.utlib.ee/Library/Eesti/elnet.html> 14. September 1996

⁴⁹ <http://www.ciesin.ee/ESTONIA/europe.html> 14. September 1996