WEBSITE APPLICATIONS IN URBANISM AND ARCHITECTURE

Danilo S. Furundzic

In the context of rapid technology development, followed by Internet spreading worldwide, the amount of information related to urbanism and architecture has remarkably increased. This paper lists a website selection with the aim to present the state of Internet based information sources on urbanism and architecture. The idea is to help colleagues cope with numerous available on-line contents. The websites are, according to their contents, classified into following categories: associations and institutions, international documents, urban planning and design, information and communication technologies in urbanism, on-line available magazines and books, civic networks, architectural design, famous architects and best examples.

INTRODUCTION

The search of cyberspace, in order to find the best websites dealing with urbanism and architecture, seems to be a never-ending job. The problem is not only finding necessary information, but recognizing the right one as well. This difficulty is even more emphasized in subjects that cannot be easily systematically listed, and where data basis regarding the content, effectiveness of presentation and design, are not strictly specified [5].

The subject of urbanism and architecture is just like that. Therefore, organizing a list of high quality sites found on the web has to be done in accord with the desirable goal. This paper’s aim is to make a list that will serve as a starting point for further search, a starting point for professionals and non-professionals who are interested in contemporary applications of Internet based sources on urbanism and architecture. While using these listed sites, colleagues can easily analyse current trends or get some practical training in finding necessary organizations, people and theory examples.

The listed sites demonstrate a practical way for valid expertise and experience in finding information on urbanism and architecture issues. They can also be used as a basic learning tool to help search the web for common technological, social, environmental, economic and specialized problems in the architectural profession.

PROBLEMS OF WEBSITE SELECTION

Internet Information Sources

For being professionally competent, it is necessary to be constantly informed and supplied with new knowledge. With the intention of finding new information knowledge about ideas, facts, assumptions and technical solutions, experts explore all the existing sources.

Today, the existing information sources on every topic might be distinguished into:

• Classical sources
• Internet based sources

Classical information sources

Classical information sources are usually considered to be published papers (bibliographies, books and magazines) and scholarly works (educational systems, advocacy planning, public debates). For these sources, synchronized participants’ presence and time of activity are the prerequisite. Time is lost in organizing classical learning activities, and these arrangements always cost money. Classical information materials also demand a certain amount of professional vocabulary and therefore cannot be understood easily by non-professionals. Consequently, classical information sources are accessible just to a selected group of experts, for a short period of time. Also, by the time the experts get information, they are out of date. The present definition of a community as a united informa-
tion source, makes the classical methods of acquiring knowledge on urbanism, old fashioned.

**Internet based information sources**

Today, the fact that every kind of information is on-line helps Internet sources overcome this problem and surpass the classical method of learning. This is more emphasized because Internet sources enable efficient processing by use of visual presentation, which is accepted in urbanism. Furthermore, with the Internet direct contact among participants looking for knowledge is successfully achieved. Thus, it gives new information not existent in classical sources.

**Problems of Choice**

The influence of the Internet on life and work is considerably complex. The changes are manifested in different activities (education, transactions etc.) enabling cultural diversity on one side and global governing on the other. In all mentioned areas, the Internet serves more as a supplement than a complete substitution of the existing medias. The use of the Internet is first adapted to the present patterns, and then introduced to urge innovations and changes [4].

The basic problem of all researches has always been the access to information. The problem of Internet based search is of a different nature. The access to information is very easily and creatively kept up. Today the challenging task is not the access, but the choice of quickly changing and increasing information multitude. This constant selection is integrated in our search as well. At the beginning of every data search, researchers face two problems:

- How to recognize information?
- What is the necessary relevant knowledge for this recognition?

The solution of these problems is the same as in the classical research methods. The recognition of data must be performed by relevant sources selection. This selection is usually done by a choice of authors (persons and institutions), content, proper area of research, or by the researcher's impulse. The novelty of the Internet is that there is the possibility of key words search. This search can easily organize the huge available information basis. The difficulty of the key words search approach is that considerable previous knowledge is needed. Only when data content is acquired, can the sources be recognized and the information identified. Therefore, the quality of the Internet search depends mainly on the researcher's knowledge and skill.

**Definition of the Source Selection**

The selection of the websites is difficult in every Internet search. The problem is to recognize valuable resources and then present them. This paper focuses on providing urban planning and architectural design practice site list that can serve as a background for further research. The problem of such a list, as everything concerning the Internet is, that the list must be constantly updated and can never cover all specified sources.

Because huge Internet information on urbanism and architecture contents is available, the selection must be strictly specified. The presented information survey is listed in categories aimed at giving a comprehensive overlook of the subjects found on Internet. So the list can help planners and architects develop search skills and encourage them to try out new technologies. Experts who support and intensify Internet usage may implement the acquired experience afterwards.

4) **Information and Communication Technologies in Urbanism**

Information and communication technologies sites are separated from strict urbanism sites because the topic of ITC is considered to be especially important for further urban planning systems development. The ITC sites are usually restricted just to the Internet and therefore are a category of their own. The listed sites explain changes directly provoked by ITC in the city, and give information about different Internet based communication techniques. These sites also contain topics on computer application in urban planning and design (Civic Networks, Simulations, Virtual reality, Modelling).

5) **On-Line Available Magazines and Books**

This group of sites lists selected on-line available published texts (bibliographies, books and magazines) on contemporary urban development and architectural design. They are recognized as the most significant theory examples and can be downloaded from the Internet as a whole.

6) **Civic Networks**

The best examples of Civic Networks (CN), as a particular application of the Internet in city governing, are represented in this selection. The sites are parts of an organized system that provides information collecting and exchange, which enables cooperation of city residents. They are the only fully adapted Internet planning applications and are especially important examples of Internet based urbanism [2].

7) **Architectural Design**

This site selection contains information on different architectural issues. The included sites are considered to be the most regarded and innovative Internet architectural sources. They bring architecture history archives, previews of contemporary architecture, research reviews in architectural theory and appliance of new technologies. Some of the selected directories provide categorized works of famous architects and links to other resources.

8) **Famous Architects**

This selected list of sites collects official homepages of well-known, influential and innovative architects. The websites give a preview on the designs, biographies, chron-
logical dates, texts and essays of famous architects. The main characteristic of the listed websites is the superb web and graphic design that presents the author's work and thought appropriately.

9) Best Examples (on urbanism and architecture)

This site selection is especially important, because it shows various Internet usage experiences on urbanism and architecture from different parts of the world. The listed sites also enable insight into practical use as to different contexts. This practice is even more stressed since contemporary urbanism urges global unification. The listed sites present an array of particular examples that show best implementation results. The intention is also to demonstrate the increasing number of Internet urbanism and architecture applications and their successful practice in various social and economic environments.

SELECTION OF INTERNET BASED INFORMATION SOURCES

The list of the most significant websites is presented according to the previously explained categories. This information can serve as a search database for urban planners and architects. These websites are the essence of urbanism and architect Internet based information and are best examples of site implementation.

The website's address (Url) and the author's name are given before the site's basic description. The www. prefix in the Url extension was deliberately skipped, so in case of using the list as reference site source please notify the mentioned prefix before Internet search.

Please, review the list and send your comments about the sites you like best.

1) Associations and institutions

Un-Habitat

Url: un-habitat.org
Author: United Nations Human Program
This website shows the contribution of the UN in implementing sustainable ideas in urbanization. The site contains different publications, catalogues and declarations. It serves global urban monitoring and is useful for getting practical information, policies and programs concerning world-wide human settlements.

The Europe Union - Community Research and Development Information Service

Url: cordis.lu/en/home.html
This is the main website of the Europe Union that lists all actions of the Union. The site gives access to information databases (documents, declarations, published papers) of all new projects and researches concerned with European development. The site is useful for defining general strategies in urban planning.

Activities Of European Union

Url: europa.eu.int/pol/ener/index_en.htm
The website lists all programs of the European Union that indicate sustainable development being a key factor of Europe's competitiveness and economic development. This site is useful for planners because it contains the legal framework and set of laws. It also introduces issues of trans-European energy networks that influence Third World countries relations.

2) International documents Agenda 21

Url: un.org/esa/sustdev/agenda21.htm
Author: United Nations
This website contains the whole Agenda 21 declaration of the United Nations Conference on Environment and Development (UNCED) held in Rio de Janeiro, 1992. This document is a comprehensive plan of actions on global, national and local levels. The declaration is essential for planning and has already been adopted by more than 178 governments.

The Habitat Agenda

Url: unhcr.org/english/hagenda/index.htm
Author: United Nations
The website contains the program draft papers from the Istanbul Declaration on Human Settlements Conference. These papers explain commitments and strategies for human settlements development implementation that are interesting for planners. Topics concerning sustainable development, adequate settlement shelter and healthy productive environments are also listed. This website is a good example of a global document offering help to people living in poverty or belonging to vulnerable and disadvantaged groups. The site can be listed in French, Spanish and English.

Guide For Governments And Committees For The Implementation of the Habitat Agenda

Url: nchn.org/unchurch/english/hagenda/natcons.htm
This committee for the implementation of the Habitat Agenda website can assist partner groups to establish guidelines for national and local monitoring and evaluate the Habitat Agenda implementation.

The site explains how to mobilize and balance resources of support and find financing partners for the realization of national strategies at local plan level. The site also lists different authorities, associations and civil society organizations that offer help in planning and governing strategies to implement the Habitat Agenda.

Johannesburg Summit 2002: Planning and Governing Problem

Url: johannesburgsummit.org
Author: World Summit of Sustainable Development
The United Nations website presents declarations of the Johannesburg Summit. The main issues are difficult planning challenges including improving people's life quality and conserving natural resources in a world of growing population and demands. The site can be used to download all the important documents, highlight actions, programs and news of implementing sustainability.

Urban 21

Url: urban21.de
Author: A. Meller, G. Stellmann
The website contains a final declaration of topics and goals, which were discussed at the Global Conference of the Urban Future. This site can help experts to become fully aware of the present worldwide city problems. It lists problems, new trends, principles, priorities and actions of the future governing that supports the improvement of life quality and environmental conditions in urban areas.

Partnership for Central Europe

Url: changenet.sk
This website serves Eastern countries in view of international environmental protection and sustainable development partnerships. The site contains useful strategic planning information and regional programs in order to provide fast, effective and non-bureaucratic financial and technical support for local environmental action. It also lists topics such as landscape stewardship, sustainable rural development, energy alternatives, advocacy, greenways for central Europe and cross-border programs.

Urban Planning and DesignCyurburbia

Url: cyurburbia.org/index.html
Author: D. Tasman
Cyurburbia (formerly called PAIRC - The Planning and Architecture Internet Resource Center) contains comprehensive directories of Internet resources relevant to planning, architecture and urbanism.

This website focuses on cities, their metropolitan areas, with impact on government
policies, private sector actions and national
trends in building safe environments. The site
also contains related mailing lists, newsgroups
and several interactive message areas. It is
considered to be an interactive information
presentation for professional architects, urban
planners, public authorities, journalists and
planning companies.

Planetizen
Utt: planetizen.com

This website is the best source of urban
planning news, job opportunities, commentary
and events. The site provides links to
professional associations, publications and
data on urbanism. It exchanges information for
interested public, developing a planning
information base.

Yahoo Directory of Urban Studies About
Planning
Utt: dir.yahoo.com/UrbanPlanningandDesign

A core directory service of the web's search
engine that searches the Internet for websites
related to urbanism. This is a very important
searching site that contains straightforward
information about the most popular planning
and design sites. This directory might serve as
a starting point for attaining non-professional
information, and therefore is often used by
laypersons interested in the subject of urban
planning and governing.

Rudi- Recourse Urbanism Design
Information
Utt: rudi.netnews.nlm

This on-line library offers high quality text
content, reference sources and directory
information about good practice in urban
design. The website contains full text
documents and valuable expert contacts,
related to urban design. This site includes
significant and unique items and information
that are difficult to locate, and can fill gaps
about urban design practice. Although the site
provides strictly professional information, it
should serve the interested public as well.

Planum
Utt: planum.net/webcompass/menu.html

A literature search website that lists new topics
in urbanism, planning and governing. The
search is based on finding archives, journals,
news and associations on the web. The worth
of this site is that it contains planning related
publications with plans, projects, policies,
laws, lists of public bodies and planning firms.
The website can be listed in German, and is
very useful for gathering literature information.

Planners Network
Utt: plannersnetwork.org/index.html
Author: C. Hartman, T. Angold

The site contains all the latest issues on urban
planning. It lists magazines, case studies and
working papers. The website illustrates urban
management as the component part of the
international task of creating large-scale
governments that control rapid urban growth.
This site is useful for planners because it
shows a short course of specialized training
programs, consultancy and research on urban
management.

Community Planning Website
Utt: compplaning.net/index.htm
Author: H. Jorgon

This is a planning website that guides city
governing. The site helps residents get involved
with professionals in shaping their local
environment. This website provides easily
accessible practice information of international
examples of governing supervision. The site
gives an overview of new community planning
methods. It is aimed to ensure that communi-
ties become safer, stronger, wealthier and
more sustainable.

About Planning
Utt: plannonline.homestead.com/
NewPlanning/-Meridian.html

A catalogue website that contains general
information about different urbanism sources:
publications, essays and news. It lists some 3
million websites, and some especially
interesting sites about land use planning,
growth management, comprehensive planning,
smart growth and new urbanism theory.

New Urbanism - Professional and
Research Links
Utt: netsense.net/~jerry/newurban.htm
Author: J. Terry

This website contains helpful information about
classical and on-line publications in urbanism.
It has over 150 links to projects, people,
articles, book reviews, organizations and other
resources concerning planning. The site is
interesting because it has a strong design
dependent with direct references to New
Urbanism issues such as urban sprawl,
sustainability, growth management, downtown
revitalization and transportation.

Royal Town Planning Institute
Utt: rpa.org.uk Author: Royal Town Planning Institute

The website promotes public participation in
planning through environmental education,
award schemes, publications and aid schemes.
This site lists advice, publications and polices. It
is useful for planners and people
engaged in community planning. It brings
together professional town planning associa-
tions and institutes, and presents the new
English planning vision.

Programs in Urban Management
Utt: cals.census.harvard.edu/UCourses.htm
Author: Center For Developing Cities

The website contains various materials
concerning global contemporary politics with
impact on the city. This site is especially
important for planners because it displays
designs with explanations. It can serve as a
short course and special training program on
urban management as part of the major
international task of urban growth in the
developing World.

3) Information and Communication
Technologies in Urbanism

Casa
Utt: casa.ucl.ac.uk/casa.htm
Author: University College London, S. Doyle

Center for Advanced Spatial Analysis website
(CASA) is a search centre for advanced spatial
analysis. In other words it is a review of 3D city
modelling.

The website contains information about
developing computer technologies and discip-
lines, which deal with space design. It is about
the integration of two apparently diverse fields,
architectural history and computing. The site
has different interesting directories such as
Town Centres, Geographic Information Sys-
tems, Based Modelling, Spatial Decision and
Planning Support Systems and Internet
research on the planning system.

Online Planning
Utt: casa.ucl.ac.uk/online.htm

A website covering different issues relevant for
developing a planning system on the internet,
and this system's impact on urbanism.

This website aspires to cover various examples
of Internet based technology, which have a
wide range of implications on urban planning
and design. The site is a best place to get
information about all kinds of traditional and
new web formats used in urban design and
modelling. Because of the detailed analyses of
different data exchange techniques, this site is
useful for architects and planners in terms of
practical application.

The World Foundation for Smart
Communities
Utt: smartcommunities.org

The site lists contemporary ideas and theory
problems concerning the Internet pheno-
menon, developed by present network communities. The illustrated reports consider whether smart networked communities are the future of the cities.

Collaborative Spatial Decision-Making
Url: faculty.washington.edu/nyerges/csdm.html
Author: T. Nyerges
An on-line paper that describes future Internet based decision-making development in urbanism. It contains information related to the emerging research field the so called Collaborative Spatial Decision-making computer technologies, which involves group based problem structuring, and applications of digital spatial information facilitating urban planning.

This website is a central information point, linked to different cities. It contains topcal areas like geographic information systems (GIS), spatial decision support systems (SDSS) and spatial decision support systems for groups (SDSS-G), multi criteria decision modelling (MCDM), group support systems (GSS), decision support systems (DSS), computer-supported cooperative work (CSCW) and human-computer interaction (HCI).

Barry Wellman Homepage
Url: chass.utoronto.ca/%Ewellman/main.html
Author: B. Wellman
The website studies Information Communication Technologies and their impact on community, communication, computer technology and society. It is a survey of researches and lists many tutorials about these topics. The site is very useful for societal strategies planning in cities and regions.

UrbanSim
Url: urbansim.org
Author: Metropolitan Planning Organizations
The website presents information about the simulation game called Sim-city. Urban Sim is a software-based simulation model for integrated planning and analysis and is very useful for planners. Experts can “test out” urban development strategies, and learn more about corporations and interaction of market land use, transportation, development and public policy.

This website contains information, description, papers, and what is most important, downloads of different test policy issues. It also contains alternative governmental plans and policies interesting for the planning process.

4) On-Line Available Magazines and Books

Cltheory
Url: cltheory.com
Author: M. Krakr
This on-line magazine has a list of articles related to new contemporary theories of understanding the web. Among these articles, some new issues related to Internet urbanism applications and methods of global implementations are included. These fragments of new topics can be very interesting for on-line urban planning theory.

Urbanistica
Url: planum.net/journals/uns-uni.html
An online magazine that promotes, regulates and diffuses the planning study in Italy. This magazine assembles significant autonomous texts suggesting guidelines to overcome the planning crisis. It shows the differences of particular solutions and illustrates how to deal with urban problems in the future. This magazine is also valuable because it reflects the metropolitan and regional planning roots and demonstrates a good theory and practice.

A City is Not A Tree
Url: rubi.net/books/shelf/classics/city/alexander/alexander1.shtml
Author: C. Alexander
A book website concerning new planning theories and future planning problems. This book presents a new developed conflicts that emerged after introducing global interactive planning concepts. The site is important for the public especially interested in complex theoretical questions and continuous exchange of information between different professions.

City of Bits
Url: mitpress.mit.edu/books/City_of_Bits/index.html
Author: W. Mitchell
The website contains an international anthology of urban planning. This key book explains early ideas about possible influence of the computer information revolution on planning structures. The book was the first paper to introduce basic concepts of communication technologies, from which many are still used today. The significance of this site is that it describes the development of interactive urbanism, which is today supported by the Internet.

Decision Support and Urban Planning
Url: geog.ucl.ac.uk/~pen.desham/SDSS/1_paper.html
Author: M. Batty, P. Dearden
This on-line paper describes new developments of on-line decentralized decision-making software, showing all what is now possible in planning. The issue of importance is the effective use of the emerging graphic, processing and network communicational software in practical urbanism.

This site can be used for learning spatial decision support systems (SDSS), planning support systems (PSS) and geographic information systems (GIS) program applications.

The Environmental Documents
Url: changenet.skleepec/docs.htm
The site contains download texts from books: "A Decade of Nurturing the Grassroots" and "Caring for the Land". These books research history and changes concerning the new idea of the Environmental Partnership in Eastern Europe. The text lists problems of rural development, community revitalization and development of a vital civil society in post Communists societies. This site is useful for planners because it provides an informal look at some impressive issues of the East European region.

An International Anthology of Articles, Conference Papers and Reports
Url: library.cornell.edu/Reps/DLOC/sHomee.htm
Author: J. Reps
An outstanding online bibliography of materials documenting the history and development of urban planning. The collected work in this site is equivalent to a 600-page book, containing journals, conference reports, books, official documents and other written sources used in urban planning. This site was originally established to serve educational purposes, but now it serves academics and professionals to read historic planning papers.

Urban Design Compendium
Url: rubi.net/lefrak/onadesigns/udt/udc04.shtml
Author: English Partnerships, L. Davies
A website that contains a guide book on urban design, that serves the idea of stimulating and making neighbourhoods active places in which residents feel comfortable and safe. This site aims to provide accessible advice to developers, funding agencies and partners on the achievement and assessment of the quality of urban design for the development and regeneration of urban areas. The website is written to provide a source of best practice to all those involved in the regeneration and development industries.

A-matter
Url: a-matter.com/eng/index.asp
Author: a-matter
This website is an architecture on-line magazine that provides analyses of projects, articles and essays on architecture theory with well selected examples. A-matter is largely focused on appliance of new technologies in architecture and presentation of new forms. This site also contains resources and news about education. It covers all major events about architecture in Europe. The website is a fine example not only of collectible data, but a linked base source where certain architectural issues are presented in a practical standard way.
Domus
Url: edidomus.it/domus/annio.com
This is a web site of the famous Italian magazine Domus that has texts about new events and notable people in the world of architecture. The site can be viewed in Italian and English, and features exclusive interviews with architects, projects and past issues of the magazine. Worthy of note is every issue's cover page that is being designed by prestigious architects and designers.

5) Civic networks

Civic Networks
Author: Epileto Network
Url: euronet.org/epleto/urbanas.htm
The website introduces basic concepts of Urban Civic Networks. It lists best examples of implementations and texts that explain how to create Civic Networks. This site has interactive mailing applications and is available in Italian, English and Spanish.

Amsterdam
Url: amsterdam.nl
Author: City Government
Amsterdam city government was the first to recognize the possibility of Internet decision-making, so this site is a well-checked implementation of a Civic Network site. The website is a very useful not only for residents' use, but for other interested parties. The site presents Amsterdam from various aspects, and allows residents participation in governing.

Singapore
Url: urstra.gov.sg
Author: Urban Development Authority of Singapore
This website contains information about developing plans and programs of Singapore. It is a useful example of how a city planning program can have all activities converted into computer media on the Civic Network. This site gives insight into the counting information mechanisms and transparency of Internet public planning.

Bologna
Url: comune.bologna.it
Author: La Reale Civici di Bologna
This website is the best example of a Civic Network that informs residents about different urban development problems in their city. Not only that this site gives access to information, it also offers possibilities of citizens cooperation and government. Additionally, the website lists various illustrative subjects for planners.

6) Architectural Design

Architect
Url: archinet.com
This website is a well-known resource on matters of architecture, design, commentary and events. The site provides categorized links to other web resources. It has a large number of articles that are linked to other Internet sources that cover the same subject of architectural design.

Great Buildings Online
Url: building.com/gbc.html
Author: Archive, Inc.
This web site is one of the largest online sources that offer information about well-known architects, with a large library of their work, timescales, photographs of buildings and well-reproduced 3D model of all-important houses in the history of architecture. The buildings and periods are historically classified. This website is also a great starting place for detailed research on different works of architecture. It contains all important links to architectural homepages.

Archinorm
Url: archinorm.nl
This website is an architecture directory that presents over 10,000 projects. The site contains a database organized by searchable locations of buildings and authors. This site also reviews published sources and subjects related to architecture, and offers advanced search and keyword references. It is a very useful means for a fast gathering of quality information.

Library of Royal Institute of British Architects
Url: rifle-library.com
This site library is the largest and most comprehensive resource in the United Kingdom for research and information on all aspects of architecture. The website contains latest news from the world, collections of on-line books, publications, drawings, photographs, manuscripts and reports from exhibitions. It lists a video selection offering on-line screening of videos about all fields of architecture.

Architectural Record
Url: archrecord.construction.com/Default.asp
Author: The McGraw-Hill Companies, Inc.
This site is often updated and is organized like a magazine that offers interesting articles and sections on different aspects of architecture, design and interior design, which are supported with fine examples and analyses. This site also presents news and interviews of famous living architects. The archive and architects profiles, listings of architecture firms, forums and opinions make this website not only an information gathering source, but a useful point on the Internet for contacting and exchanging different views.

Archinet
Url: archinet.co.uk
The website provides architectural news, building reviews and links to famous architects and designers. This site is a fairly practical source with up to date news and exclusive articles, with competitions and listing of job offers, community members and forums. Because of the interactive application it is especially recommended to students of architecture.

7) Famous Architects

Foundation Le Corbusier
Url: foundationlecorbusier.asso.fr
The homepage of Foundation Le Corbusier lists all relevant information and material about Le Corbusier, his work, projects, ideas in urbanism, foundation itself, etc. The site has a large collection of blueprints, plans, elevations, urban plans, furniture and paintings designed by this famous and influential architect. A detailed biography is provided with texts and articles. The foundation's programs are presented, offering various consultations.

Norman Foster
Url: fosterandpartners.com
This is a homepage of one of the most influential architects of our days, Norman Foster, who along with his colleagues from his design studio is presenting his work in the field of architecture and interior design. Previews of some designed commodities can be reviewed, services that this studio offers, and online consultancy. The website has classic design and contains plans, elevations and photographs of great quality.

Santiago Calatrava
Url: calatrava.com/indexflash.html
This site presents the work of the famous Spanish architect and constructor Santiago Calatrava. The site is superbly designed, with perfect presentations of buildings, bridges, railway stations, etc. It can be a great experience for people wanting to discover architectural and structural design as well.

Frank O'Gehry
Url: frank-gehry.com
On this website one can pay a visit to Gehry's buildings from 1960s until today. The designs are interestingly listed via the Frank Gehry's World Map, sorting out the buildings into different countries, including a more detailed map for the US States, especially focusing on the Los Angeles area and California. The site also contains interesting information about the personal life of the architect.
Eric Owen Moss
Urt: ericowenmoss.co
A homepage of the well-known architect, supporter of the deconstructive concept presents the timeline of his projects along with photographs both from the realization period and the aftermath. The publication regarding his work can be found on this site. It is the best place to have an insight on the problems of using deconstructive design.

Degree Zero
Urt: degrezero.com/020office_NS6.html
The website of the modern trend architecture group with new approaches to design, but also innovative solutions in the theory field. Offered works are very successfully presented with computer models, various projections and photographs. This site with its out of the ordinary ideas of an inspiring architecture is worthwhile visiting.

Electronic Shadow
Urt: electronicshadow.com
This is a website of the French architecture and design group inclined to the new media and technology appliance in architecture. The site itself is a great design work of this team. Projects presented on this site are all released, however not all as buildings, but also as parts of new interior, information networks, and installation sculptures but always in correlation to architectural concepts. In some parts, the site is dedicated to the research of virtual reality and holograms. This site gives an insight into future architecture.

8) Best Examples on urbanism

Best Practices
Urt: bestpractices.org
It is a magnificent database of different solutions for social, economic and environmental problems of the urbanizing world. Analysing current trends, this website lists best-implemented examples of contemporary theories. It demonstrates the practical ways in which public, private and civil society sectors are working together to improve governance that supports economic development, and safeguards the environment. This website is the best place for finding information on current human settlement issues and other case study facts.

Public Space
Urt: ccc.org/espurb/index.htm
Author: Centre de Cultura de Barcelona
The website tries to provide the information resource and debate platform for those interested in regeneration of urban public spa-

ces in European cities. Thus, this site serves as an Internet archive on urban design. Nations, cities and public spaces types have been organized within the database. Every file has maps, descriptions and pictures of the designs. This site is interactive, so urban experts can chat and debate about city’s public spaces. It can be listed in Spanish as well.

Barcelona Economic and Social Strategic Plan
Urt: bcn2000.es
Author: Barcelona planning institute
The site contains the strategic metropolitan plan of Barcelona, with all the authors, ideas and work. This site serves to promote Barcelona as a dynamic European metropolis, and is an example for other Spanish and Mediterranean cities. What is more important, are the sites' downloads of all the attended papers such as agendas, bulletins, inscriptions, surveys of governing bodies, documents and plans.

Your Town Planning and Design Studies Handbook
Urt: bau.edubweb/CSP/resources.htm
Author: J. Segedy
The website is a guide for the community based planning approach that can solve problems, and help plan future. It illustrates techniques such as land analysis, issue identification, needs assessment, strategic planning, consensus building and communication network enhancement. The site explains how to use the theory-planning supplements on different themes within an educational University setting.

Cheshire County Council
Urt: cheshire.gov.uk/cheshire/planners21/home.htm
Author: City Council
This website represents Cheshire's introduction of Agenda 21 and the making of the Community Strategy programs as related projects. The site has chapters that serve central government, local government, business and non-government groups. It is a useful example of establishing local strategic partnership in the community, with further links to different organizations.

City Council of Winchester
Urt: winchester.gov.uk/h21/sustainablewinch.htm
Author: City Council
The website is the best example of how to implement Agenda 21 at the local level. Since this site aims to educate citizens of Winchester, it can be used as a guide that explains sustainability to non-professionals. For planners it is a tested implementation example of the new theory of sustainable city planning. The site is also an interactive information network with services, plans, documents, governing information and city guides.

Agenda 21 for the Baltic Sea Region
Urt: eia/dbk21
Author: Governmental in the Baltic Sea Region
The website illustrates sustainable development in the Baltic Sea Region, encompassing economic, social and environmental programs. This site provides general and detailed introductory information of cooperation in this field. It is important for planners because the Baltic Sea Region is the first region in the world to adopt common goals for sustainable development, and so is the best website. This site covers different goals and an action program for sustainable development in various sector fields.

Professional and Research Links
Urt: umn.edu/col/Architectures/Architecture/Architecture/Pro/ Pages/students/2112123-124.html
Author: University of Minnesota
This website's intention is encouraging students to professional experience and extending the practice involvement during planning education. It provides students with links for planning studies and further urbanism careers. It is the best place for finding contacts to professional planning organizations, governments, development agencies, on line libraries and indexes. This website also lists directed studies, internships, mentors and interaction with professionals.

9) Best Examples on architecture

Architecturemag
Urt: architecturamag.com/architecture/index.jsp
This website is an online source that provides information about new designs and trends in architecture, containing business updates from this field. The site also covers all major architectural conferences and events, and gives an overview of new products. It is very useful for professionals in view of getting all the latest information related to architecture in a business manner.

Vitrivio
Urt: vtrivio.ch
Vitrivio is web resource guide to architecture, which includes links to major sites in history, theory, design and famous architects. The site also presents cad, dwf and vrm1 models of many different projects. The links section is not only classified by web sites, but according to the subject matter of articles, so research is more efficient. This website is one of the most useful architecture Internet places with content that bring much more than a quality design help tool.
Daniel Libeskind

Url: daniel-libeskind.com

This site contains projects and photographs from the architect that is best known for his project of the Jewish Museum in Berlin. Moreover, the site itself is considered to be a great theory instruction because the website contains extensive stories on buildings designed by this famous architect. The texts are leading in theory of architecture deconstruction in and interior design.

Amphibian Arc

Url: amphibianarc.com

This is a simple but effective site in Flash presenting this architecture group in the best light. The projects are lined in ribbon design and feature the fields of interior design, residential housing, administrative building, as well as some unreleased projects of skyscrapers. The group is dedicated to non-orthogonal fluid architecture for the new millennium. It is the best example of contemporary futuristic architectural design.

Morphosys

Url: morphosis.net/morph.html

Author: Gordon Digal

This great website has interesting design downloads and a free site structure with a creative approach to presenting data. Information presenting Morposys’ work is of great quality and useful for professionals. The website features a few interesting movies from construction places, that show the process of building. This group of architects from California is often presented in many contemporary and respected architecture magazines and publications so the site has many direct links. Therefore, it is considered to be very useful in practice.

CONCLUSION

This paper raises a series of questions about the fundamental significance of on-line Internet information, not only in terms of a professional urbanism and architecture information base, but also as an essential application tool in the contemporary practice.

Essentially, the Internet enables new communication techniques and new aspects of increasing knowledge about different professional issues. It gives an insight to different ways of understanding various subjects, and in that way, contributes to finding more accurate solutions. If applied to urban planning and architectural design, the Internet can improve professional practice. But because the large quantity of information, which is provided by the Internet, certain information overload occurs [6].

More direct and accurate listing tools that point directly to the wanted information can surpass this. The presented list is hopefully such a support. However, the experience indicates that the use of Internet is not accepted broadly and with too much joy. There are still large parts of population who are nervous about using the Internet or have no access to it. The Internet participation in urbanism and architecture will be considerably affirmed by the next generation of professionals.

The experience of searching the Internet for different websites on urbanism and architecture shows that there are communication improvements considering the number of computer returned information. But the evaluation and experience of the present application show that Internet based site information sources will not replace classical information forms of sources in future. They should be primarily improved and not strictly replaced by Internet on-site applications. Generally, the Internet usage will be globally recognized, and extended as a media tool application.

To conclude with, the presented report of different websites facilitates gaining new experience, to be easily implemented in practice. Furthermore, the presented website selection offers great opportunities for urban planning and architectural design professionals to update their knowledge. The listed information within the site sources represents not only a data base but also a variety of new information forms. Different progress levels and Internet material values are easily recognized, and can therefore, urge Web design experts to define necessary Internet development strategies.

However, the Internet information application in urbanism and architecture must be supplemented by an extra professional component in future. Doing so, the greater effectiveness of future applications will encourage the next generation of experts to develop new usages of the Internet as a managing tool, which will take an active part in their profession. Some of the presented facts and ideas may help urban planners and architects to recognize the quality and importance of websites as Internet based information sources. Regarding such a role of the Internet, this paper may stimulate further research in that direction.

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REFERENCES

1. B. Wellman, 'Computer Networks As Social Networks,' Science vol 293, scienmag.org, 2001
4. V. Moere, 'Virtual library in 'Bits and Spaces: Architecture and Computing for Physical, Virtual, Hybrid Realms,' Engeli M.