

**Всероссийская конференция
«Инфокоммуникационные технологии
в научных исследованиях»
14-16 ноября 2012 года, Таруса**

Особенности использования открытых данных в современных научных исследованиях и образовании

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Что такое открытые данные?



Open Knowledge
Foundation



Открытые данные — это концепция, заключающаяся в том, что данные должны быть **свободно доступны** для всех пользователей и пригодны для **повторного использования без ограничений** авторского права, патентов и других механизмов контроля.

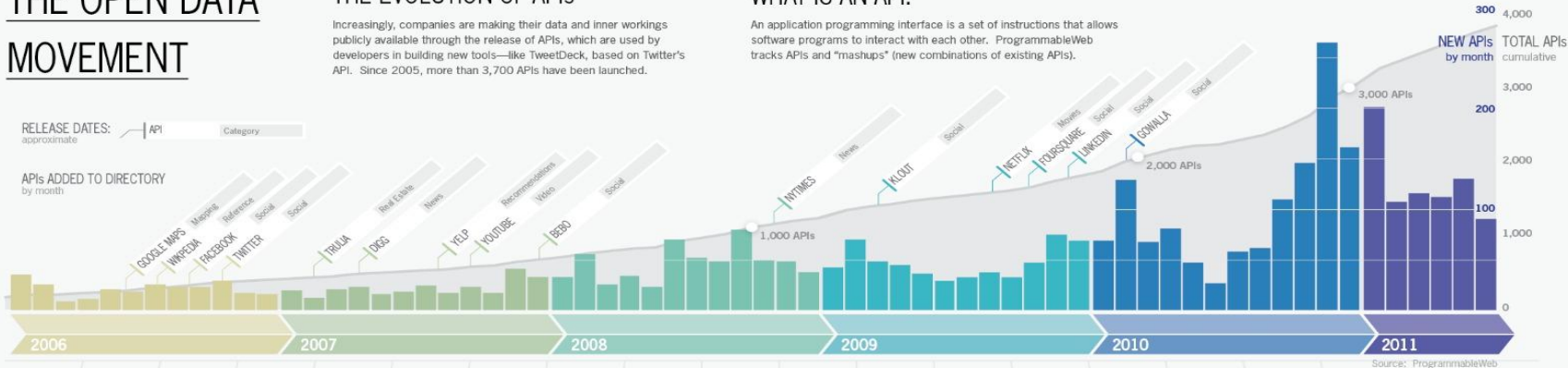


Открытые данные во временной перспективе

THE OPEN DATA MOVEMENT

RELEASE DATES: approximate

APIs ADDED TO DIRECTORY by month



THE EVOLUTION OF APIs

Increasingly, companies are making their data and inner workings publicly available through the release of APIs, which are used by developers in building new tools—like TweetDeck, based on Twitter's API. Since 2005, more than 3,700 APIs have been launched.

WHAT IS AN API?

An application programming interface is a set of instructions that allows software programs to interact with each other. ProgrammableWeb tracks APIs and "mashups" (new combinations of existing APIs).

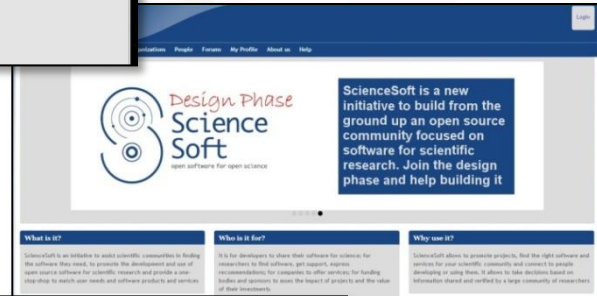
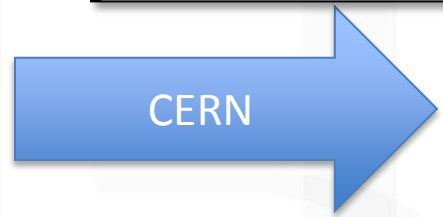
PUBLIC DATA AROUND THE WORLD

From education to energy, health to poverty, and finance to demographics, governments and NGOs are opening up their data troves so that anyone can look for patterns and create informed solutions to global challenges.



Источник: <http://visual.ly/open-data-movement>

Открытые наборы научных данных



GANGA V3: DATASET SELECTION USING AMI

ATLAS METADATA INTERFACE (AMI)

Datasets for processing in an Athena job can be selected via the Atlas Metadata Interface (AMI). Detailed information about this interface is available from the AMI web portal, and in particular in the AMI User Guide. Basic instructions for using AMI from Ganga are given below.

DATASET SELECTION FROM GANGA

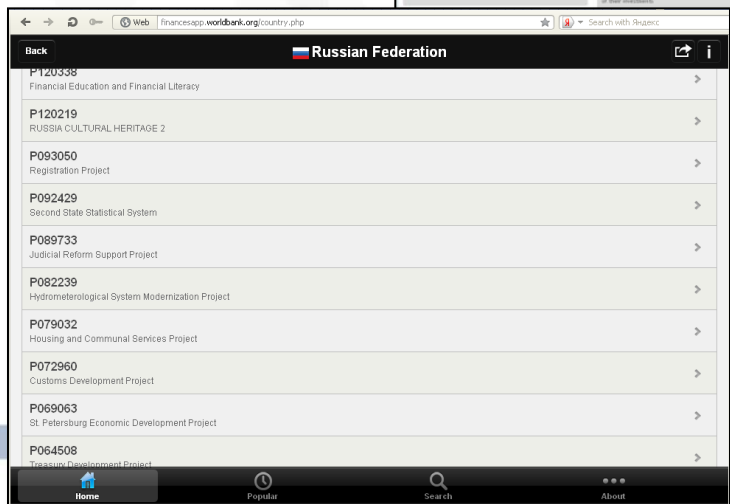
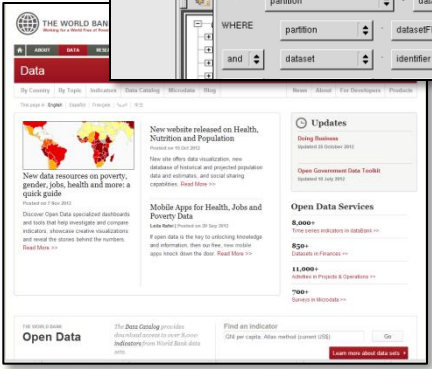
To use AMI from Ganga, do as follows:

1. Click on **Data Management**, and from the drop-down menu select **AMI query**. A **Login** window should appear.
2. In the **Login** window, enter the usual username and password for **Atlas** insiders, and click on the **Login** button. An **AMI** window should be opened, and subsequent operations are performed here.
3. Select the **AMI Project and Process**, for example **DC1** and **simulation**.
4. Enter an **SQL**-type query to be submitted to **AMI**. A query will typically access **partition** and/or **dataset** tables to extract **Logical File Names (LFNs)**. The following is an example query for **DC1** and **simulation**.

```

SELECT partition, LFN
FROM partition, dataset
WHERE partition . datasetFK = dataset.identifier
and dataset . identifier = 493
    
```

5. Submit the query to **AMI** by clicking on the **Search** button. The result table should be displayed as in the example below.



Пример использования открытых геоданных

Graph Builder

All Crime Incidents San Francisco
Traffic Incident

Crime

Fast Find
Type below to search map locations

Find

Map Style
Select your preferred map view

- Standard Map
- Terrain Map
- Aerial Map
- Hybrid Map
- Night Map
- Live Traffic
- YouTube
- Photography
- Wikipedia
- Webcams

http://nearby.webatx.us/

John Glen Way, Austin, TX 78741, USA

Map Satellite

enter an address here

Map data ©2012 Google - Terms of Use

Map Style

- Standard Map
- Terrain Map
- Aerial Map
- Hybrid Map
- StreetView
- Live Traffic
- YouTube
- Photography
- Wikipedia
- Webcams

Information

- Clusters of hotels. Click on these icons to zoom closer and see individual hotels.
- Individual hotels. Click on these icons for detailed information services about that hotel.

Use the upper search box to browse hotel listings. Use the lower Map Search to navigate to places or to search Google for businesses and services within the current map view.

Find places and businesses Поиск

Данные карты ©2012 Google - Условия использования

Открытые государственные данные за рубежом

Цель: повысить **открытость, доступность** данных для граждан,
способствовать распространению государственных данных

в США:

<http://www.data.gov/>
<http://www.utah.gov/data/>
<http://data.octo.dc.gov/>
<https://nycopendata.socrata.com/>
<http://www.govtrack.us/>
<http://openstates.org/>

в Австралии:

<http://data.gov.au/>

во Франции:

<http://www.data.gouv.fr/>

в Великобритании:

<http://data.gov.uk/>
<http://data.london.gov.uk/>

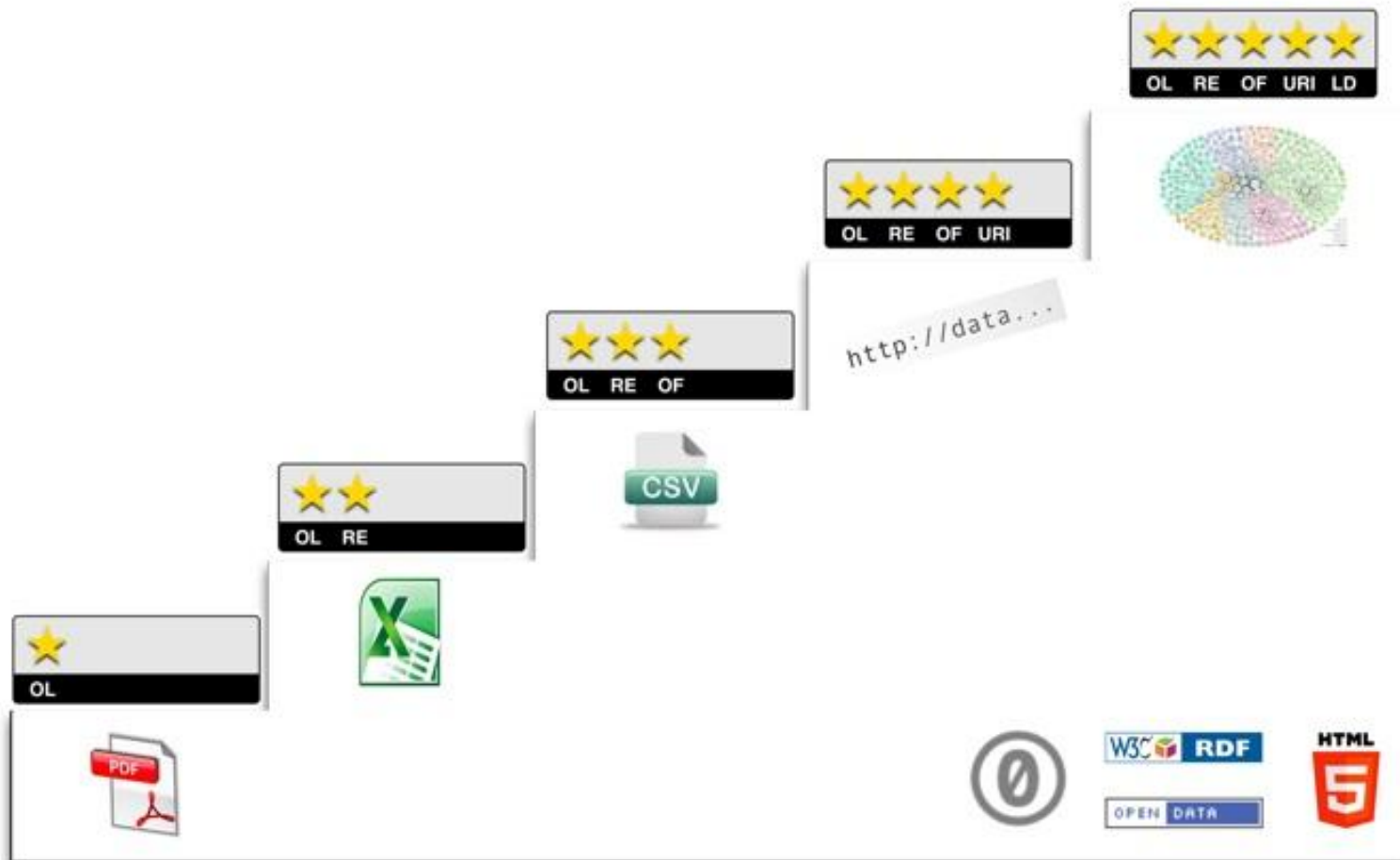
в Канаде:

<http://www.toronto.ca/open/>
<https://data.edmonton.ca/>
<http://data.nanaimo.ca/>
<http://data.vancouver.ca/>

в Швеции:


<http://www.opengov.se/data/>


Пятизвездочная модель открытых данных по Тиму Бернерсу-Ли





Источники: <http://5stardata.info/>, <http://www.w3.org/DesignIssues/LinkedData.html>


Пятизвездочная модель открытых данных по Тиму Бернерсу-Ли

 Данные доступны в Вебе (в любом формате), но подпадают под лицензию Открытых Данных (Open Data) — <http://www.nationalarchives.gov.uk/doc/open-government-licence/>.

 Данные доступны в качестве машинообрабатываемых структурированных данных (например, в виде Excel-таблицы вместо отсканированного изображения таблицы).

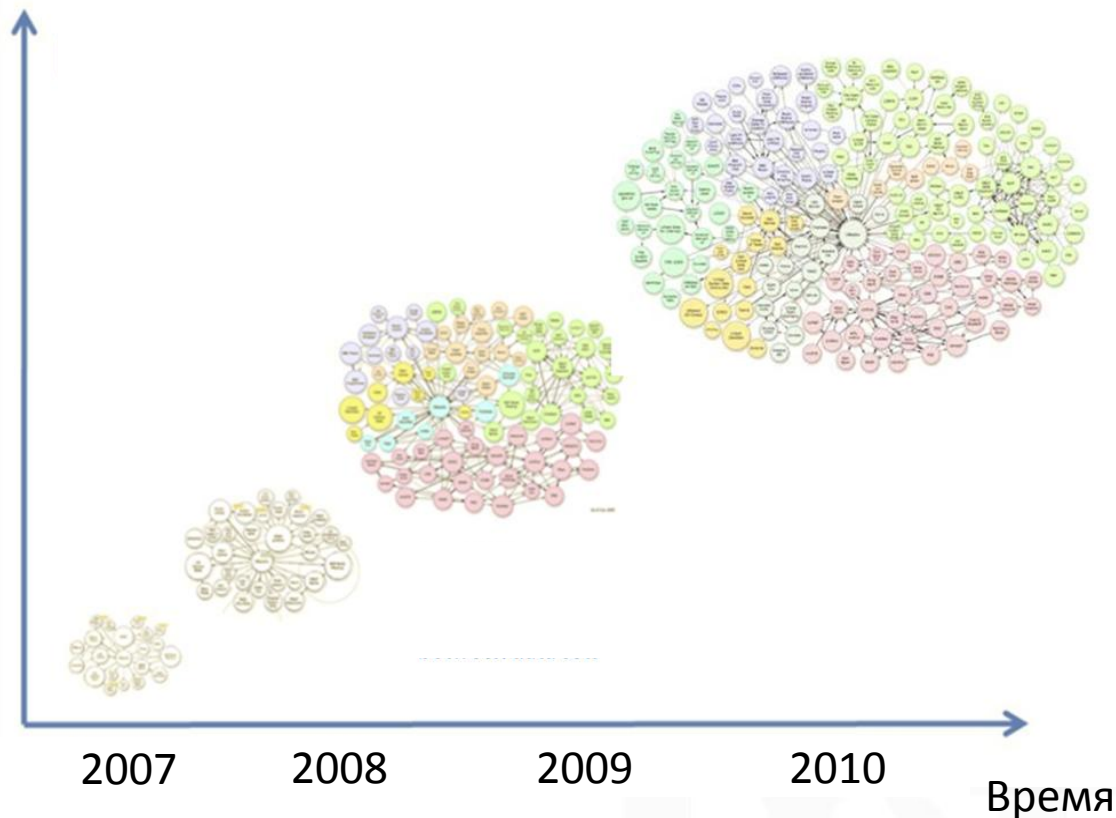
 Данные соответствуют двум звездам, плюс представлены в непроприетарном формате (например, в формате CSV вместо Excel-формата).

 Данные соответствуют трем звездам, плюс представлены в открытых стандартах консорциума W3C (RDF и SPARQL), предназначенных для идентификации данных.

 Данные соответствуют четырем звездам, плюс они связаны с другими данными с учетом контекста их использования.

Темпы нарастания объемов фактов

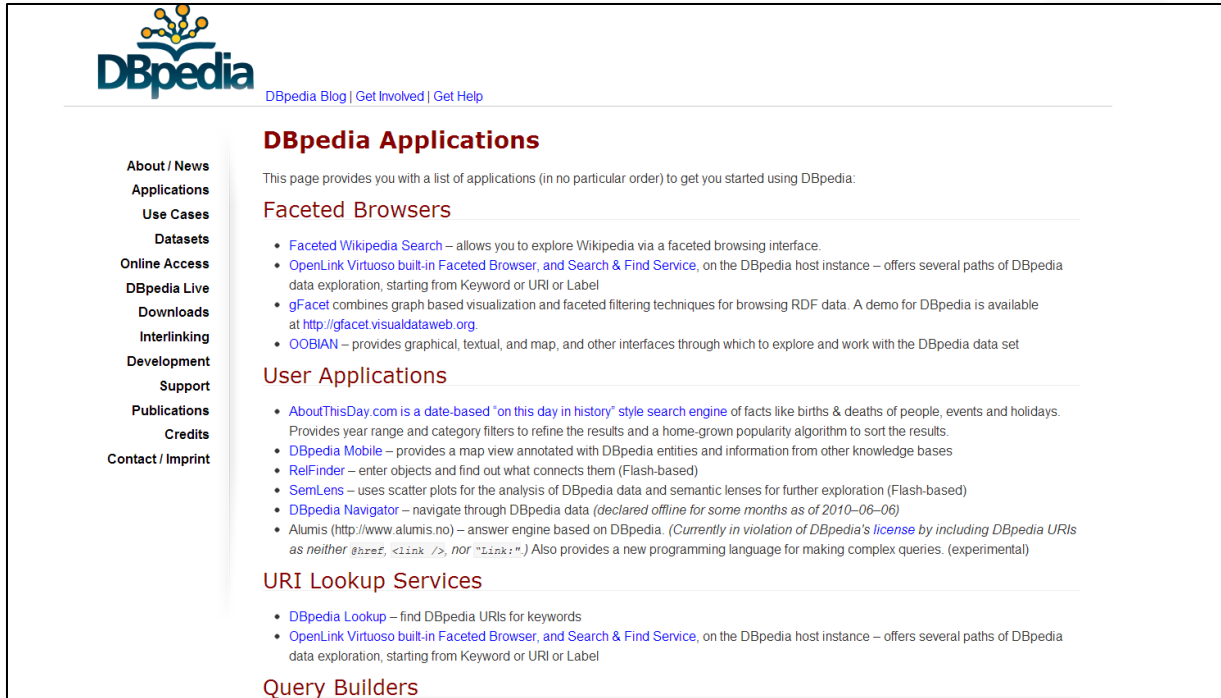
Количество наборов LOD



Источник: <http://www.w3.org/wiki/SweoIG/TaskForces/CommunityProjects/LinkingOpenData>

Пример использования LOD: проект DBpedia

Проект **DBpedia** послужил главным толчком к развитию **Linked Open Data**.



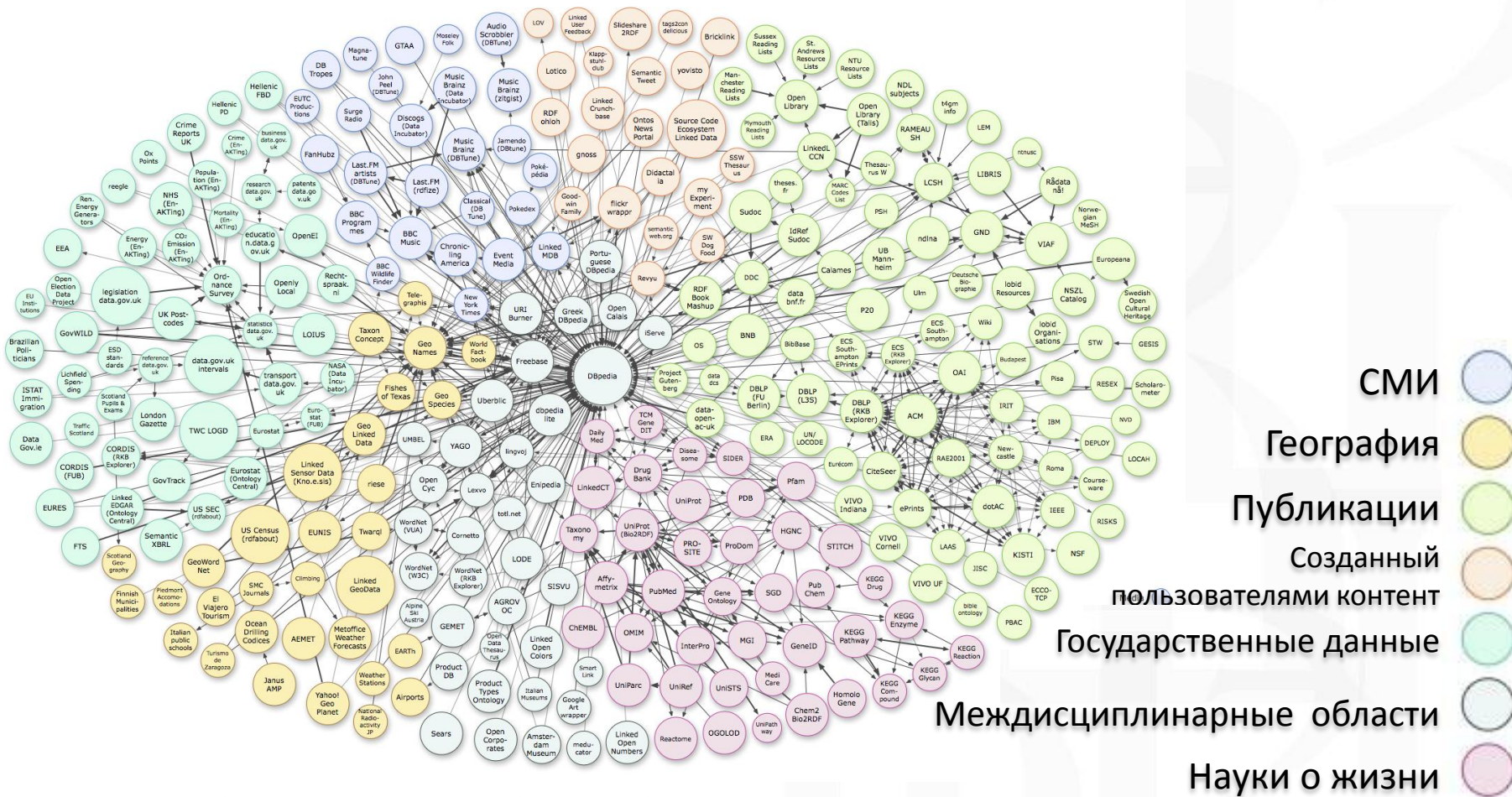
The screenshot shows the DBpedia website interface. At the top left is the DBpedia logo. Below it is a navigation menu with links for 'About / News', 'Applications', 'Use Cases', 'Datasets', 'Online Access', 'DBpedia Live', 'Downloads', 'Interlinking', 'Development', 'Support', 'Publications', 'Credits', and 'Contact / Imprint'. The main content area is titled 'DBpedia Applications' and includes a sub-section 'Faceted Browsers' with a list of tools like 'Faceted Wikipedia Search', 'OpenLink Virtuoso built-in Faceted Browser, and Search & Find Service', 'gFacet', and 'OOBIAN'. Below that is 'User Applications' with links to 'AboutThisDay.com', 'DBpedia Mobile', 'RelFinder', 'SemLens', 'DBpedia Navigator', and 'Alumis'. At the bottom are 'URI Lookup Services' and 'Query Builders'.

DBpedia — проект, направленный на извлечение структурированной информации из данных, собранных в рамках проекта **Wikipedia**.

Источник: <http://dbpedia.org/About>, <http://wiki.dbpedia.org/Applications>

Области использования Linked Open Data

Облако наборов LOD охватывает около 30 миллиардов триплетов и 500 миллионов связей



Источник: <http://www.w3.org/wiki/SweoIG/TaskForces/CommunityProjects/LinkingOpenData>

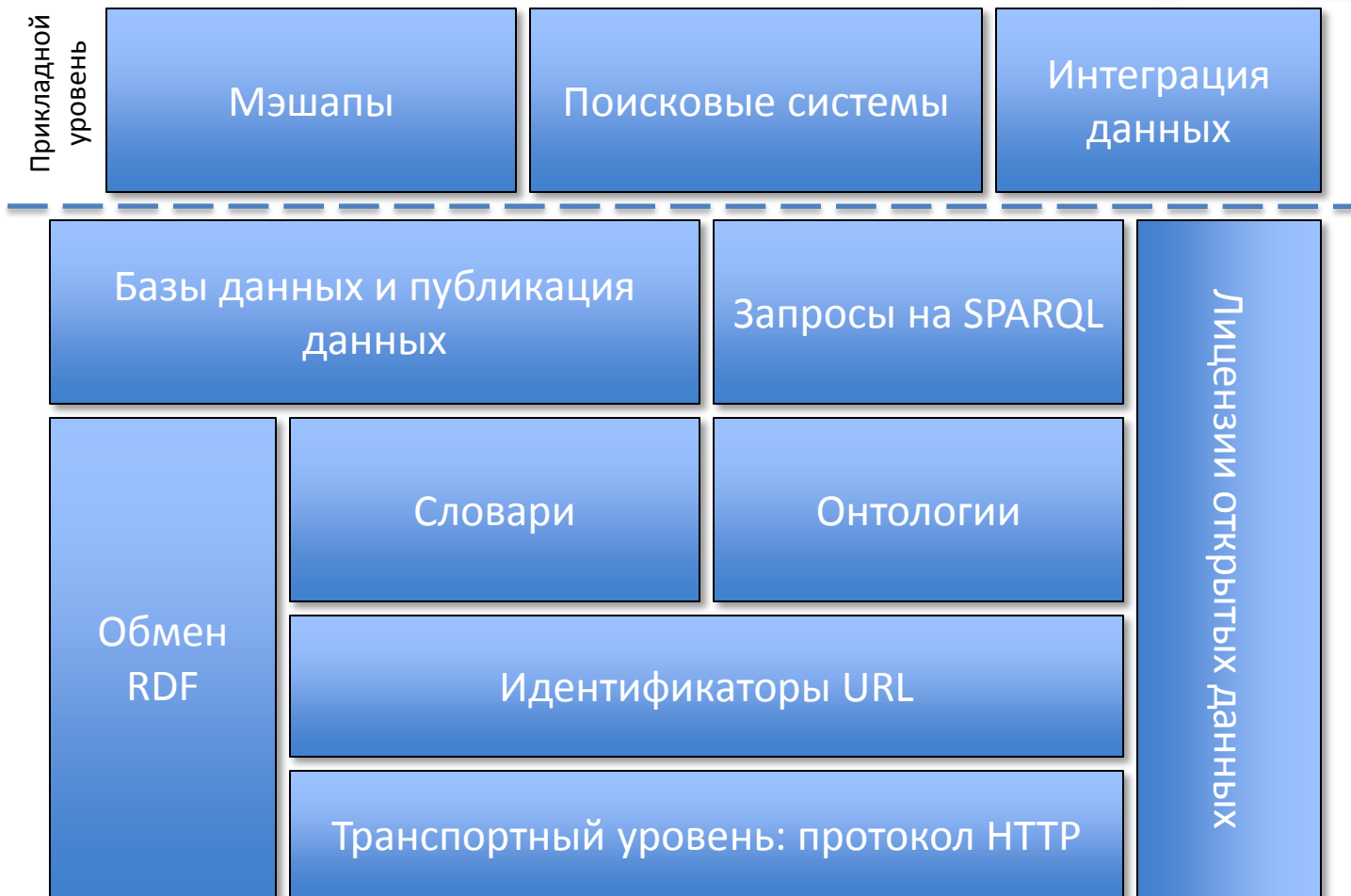
Преимущества использования Linked Open Data

Связанность данных

Доступность данных

Машиночитаемость данных

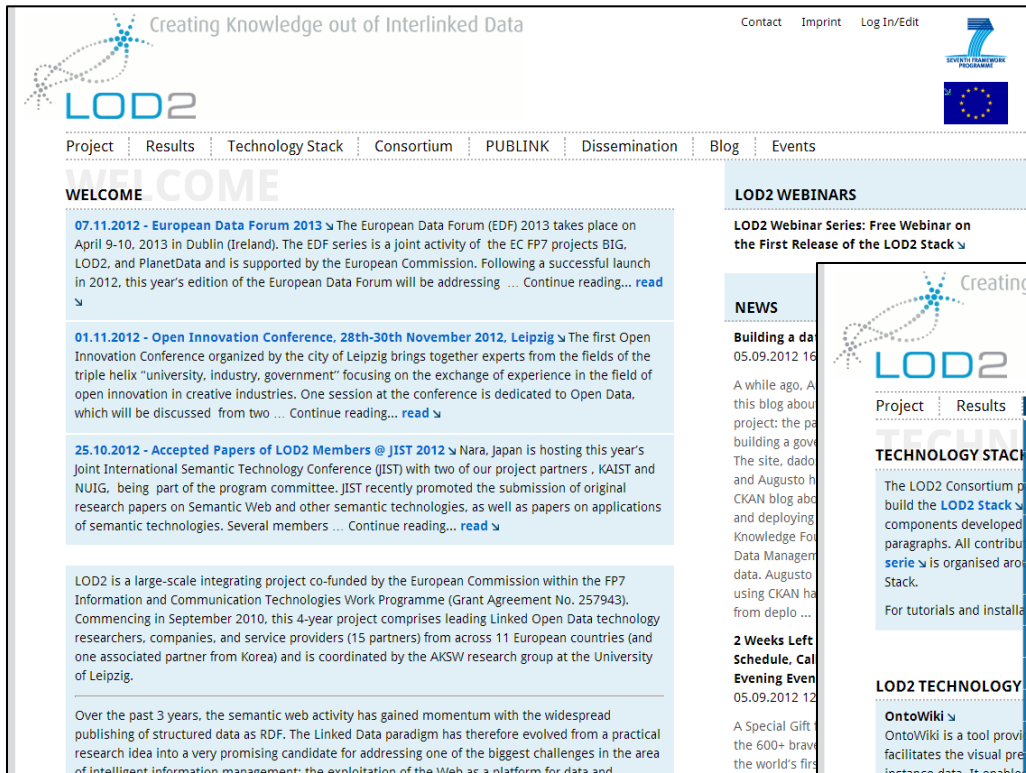
Стек Linked Open Data



Элементы стека данных LOD – 2 мая 2011, лицензия CC BY-CA-NC
Автор Тим Дэвис

Источник: <http://iradche.livejournal.com/9036.html>

Следующий шаг: проект LOD2



Creating Knowledge out of Interlinked Data

Contact Imprint Log In/Edit

SEVENTH FRAMEWORK PROGRAMME

Project Results Technology Stack Consortium PUBLINK Dissemination Blog Events

WELCOME

07.11.2012 - European Data Forum 2013 The European Data Forum (EDF) 2013 takes place on April 9-10, 2013 in Dublin (Ireland). The EDF series is a joint activity of the EC FP7 projects BIG, LOD2, and PlanetData and is supported by the European Commission. Following a successful launch in 2012, this year's edition of the European Data Forum will be addressing ... Continue reading... [read](#)

01.11.2012 - Open Innovation Conference, 28th-30th November 2012, Leipzig The first Open Innovation Conference organized by the city of Leipzig brings together experts from the fields of the triple helix "university, industry, government" focusing on the exchange of experience in the field of open innovation in creative industries. One session at the conference is dedicated to Open Data, which will be discussed from two ... Continue reading... [read](#)

25.10.2012 - Accepted Papers of LOD2 Members @ JIST 2012 Nara, Japan is hosting this year's Joint International Semantic Technology Conference (JIST) with two of our project partners, KAIST and NUIJG, being part of the program committee. JIST recently promoted the submission of original research papers on Semantic Web and other semantic technologies, as well as papers on applications of semantic technologies. Several members ... Continue reading... [read](#)

LOD2 is a large-scale integrating project co-funded by the European Commission within the FP7 Information and Communication Technologies Work Programme (Grant Agreement No. 257943). Commencing in September 2010, this 4-year project comprises leading Linked Open Data technology researchers, companies, and service providers (15 partners) from across 11 European countries (and one associated partner from Korea) and is coordinated by the AKSW research group at the University of Leipzig.

Over the past 3 years, the semantic web activity has gained momentum with the widespread publishing of structured data as RDF. The Linked Data paradigm has therefore evolved from a practical research idea into a very promising candidate for addressing one of the biggest challenges in the area of intelligent information management: the exploitation of the Web as a platform for data and

NEWS

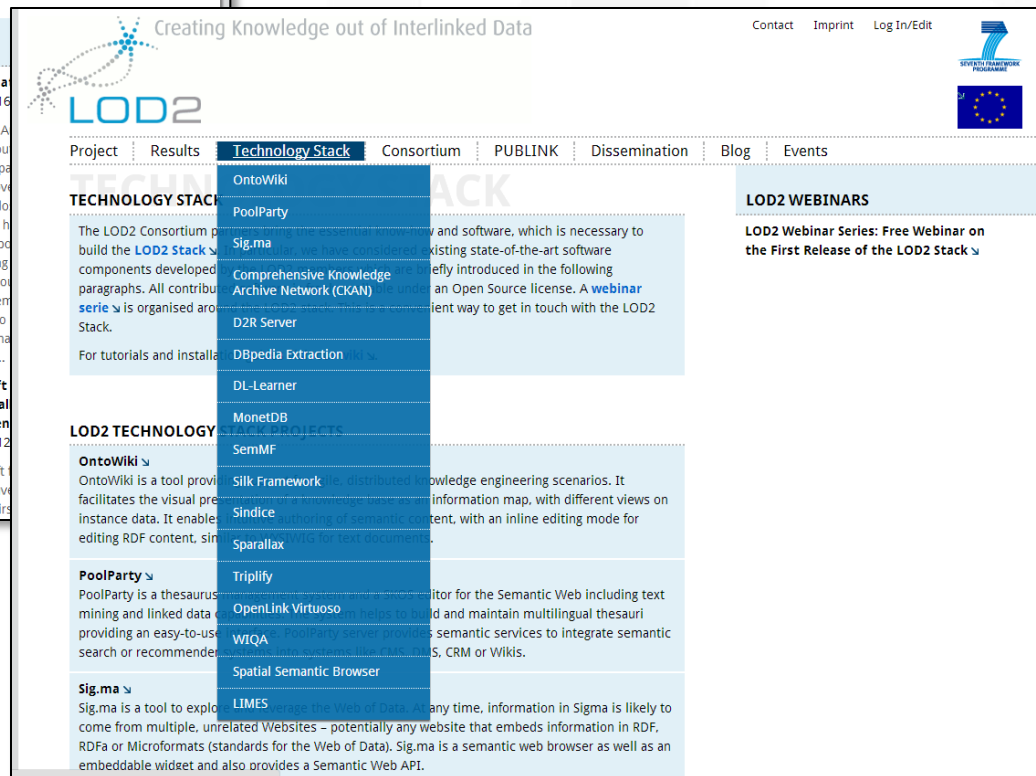
Building a data
05.09.2012 16

A while ago, A this blog about project: the pa building a gov The site, dado and Augusto h CKAN blog abo and deploying Knowledge For Data Managem data. Augusto using CKAN ha from deplo ...

2 Weeks Left Schedule, Call Evening Event
05.09.2012 12

A Special Gift the 600+ brav the world's fir

Развитие проекта LOD2 при поддержке 7 рамочной программы Европейского союза



Creating Knowledge out of Interlinked Data

Contact Imprint Log In/Edit

SEVENTH FRAMEWORK PROGRAMME

Project Results **Technology Stack** Consortium PUBLINK Dissemination Blog Events

TECHNOLOGY STACK

The LOD2 Consortium p build the **LOD2 Stack** components developed paragraphs. All contribu **serie** is organised a Stack.

For tutorials and installa

- OntoWiki
- PoolParty
- Sig.ma
- Comprehensive Knowledge Archive Network (CKAN)
- D2R Server
- DBpedia Extraction
- DL-Learner
- MonetDB
- SemMF
- Silk Framework
- Sindice
- Sparallax
- Triplify
- OpenLink Virtuoso
- WQA
- Spatial Semantic Browser
- LIMES

LOD2 TECHNOLOGY PROJECTS

OntoWiki OntoWiki is a tool provi facilitates the visual pre instance data. It enable editing RDF content, sin

PoolParty PoolParty is a thesauru mining and linked data providing an easy-to-use search or recommende

Sig.ma Sig.ma is a tool to explo

LOD2 WEBINARS

LOD2 Webinar Series: Free Webinar on the First Release of the LOD2 Stack

Источник: <http://lod2.eu/>

Стек разработок проекта LOD2

OntoWiki – инструментарий для работы с моделью данных **RDF**

PoolParty – система управления тезаурусом и редактирования контента в рамках концепции **Semantic Web** (включая **Text Mining** и связанные данные).

Sig.ma – инструментарий для разработки Веба Данных: **RDF**, **RDFa** или микроформатов (стандарт Веба Данных).
Sig.ma – браузер **Semantic Web**

Comprehensive Knowledge Archive Network (CKAN) – каталог для наборов открытых данных

D2R Server – инструментарий для опубликования реляционных баз данных в **Semantic Web**

Dbpedia Extraction – получает структурированную информацию из **Wikipedia** и делает ее машиночитаемой и связанной

DL-Learner – инструментарий для мониторинга машинного обучения в **OWL**

MonetDB – система управления базами данных, поддерживающая реляционные базы данных, **XML** и **RDF**-данные

SemMF – инструментарий для расчета схожести объектов, подвергающихся связыванию.
Представляет связанные объекты в виде **RDF**-графа

Стек разработок проекта LOD2

Silk Framework поддерживает публикацию **RDF**-данных из разнородных информационных источников. Использует декларативный язык **Silk - Link Specification Language (Silk-LSL)**

Sindice – инструментарий для объединения огромных массивов связанных данных в единое информационное пространство связанных данных

Sparallax – интерфейс для реализации **SPARQL**-запросов, основанных на **Freebase Parallax**

Triplify обеспечивает перевод данных в **RDF**-формат

OpenLink Virtuoso – база знаний и платформа виртуализации, интегрирующая данные, сервисы и бизнес-процессы в рамках предприятия

The Web Information Quality Assessment Framework (WIQA) – инструментарий для аналитической обработки и фильтрации данных, представляемых в рамках концепции **Semantic Web**

Spatial Semantic Browsers – приложение для просмотра геоданных в формате **RDF**

LIMES – инструментарий для связывания данных в рамках концепции **Semantic Web**

Основные направления инициатив, направленных на открытие науки

Открытие массивов научных данных

Создание электронных научных хранилищ
и профильных поисковых сервисов

Разработка инструментов
для совместной работы

Создание специализированных
научных социальных сетей

Примеры использования наборов открытых данных в науке



genome commons

Resources for personal genome interpretation

Following are some resources for interpretation of human genome variation. A more comprehensive list is compiled by Rania Horowitz and available on the Human Genome Variation Society (HGVS) website.

dbSNP
<http://www.ncbi.nlm.nih.gov/SNP/>
 Maintained by the National Center for Biotechnology Information (NCBI), this is a central repository for short nucleotide substitution, deletion, and insertion polymorphisms. The database has very little phenotypic information, but it has some links to OMIM, and NCBI is planning to add the ability to permit users to submit annotations.
 There are no restrictions on use of dbSNP.
 Sherry ST, Ward MH, Kholodov M, Baker J, Phan L, Smolinski EM, Stchieh K. 2001 dbSNP: the NCBI database of genetic variation. *Nucleic Acids Res.* 29:3095-101. doi:10.1093/nar/29.17.3095

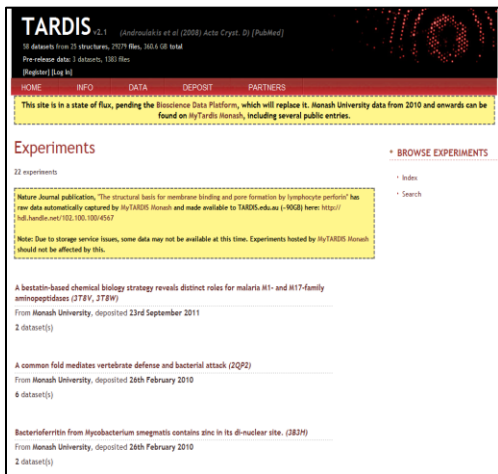
OMIM Online Mendelian Inheritance in Man
<http://www.ncbi.nlm.nih.gov/omim/>
 This catalog of human genes and genetic disorders is authored and edited by Victor McKusick and colleagues. Its 18,000 entries are short essays summarizing the literature related to the disease or gene. Mutations and phenotypes are often textually described.
 OMIM cannot be used commercially or redistributed without a license.
 Online Mendelian Inheritance in Man. OMIM (TM). McKusick Institutes of Genetic Medicine, Johns Hopkins University, Baltimore, MD and National Center for Biotechnology Information, National Library of Medicine, Bethesda, MD. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

dbGaP
<http://www.ncbi.nlm.nih.gov/sites/entrez?db=gap>
 The NCBI database of genotype and phenotype provides results from genome-wide association studies and other analyses. dbGaP provides two levels of access, open and controlled. Often this allows everyone to see the overall associations, while authorization is needed for access to personal health information. The European Bioinformatics Institute (EBI) is constructing a similar resource, known as the European Genome Archive.
 The open data in dbGaP are freely available and no data are protected by patents, while controlled data are restricted in use for privacy reasons.

SNPedia
<http://www.snpedia.com>
 This is a fledgling wikipedia-style encyclopedic effort to describe the functional consequences of SNPs. Open to anyone to provide information, it now has 1,713 described SNPs. Pages have Google ads, though these are not expected to cover costs.
 SNPedia will use a Creative Commons Attribution-Share Alike 3.0 Unported License

Genome Commons (<http://genomecommons.org/>)

Хранилище связанных наборов данных из различных источников: dbSNP, dbGaP, PharmGKB, GeneTests, OMIM, MutationView и сотни специализированных баз данных.



TARDIS Androulakis et al (2008) *Acta Cryst. D* (Published)

14 datasets from 28 structures, 7079 files, 363.6 GB total
 Precursor data: 3 datasets, 130 files
 (Register) (Log in)

HOME INFO DATA DEPOSIT PARTNERS

This site is in a state of flux, pending the Bioscience Data Platform, which will replace it. Monash University data from 2010 and onwards can be found on MyTardis Monash, including several public entries.

Experiments * BROWSE EXPERIMENTS

22 experiments * Index
* Search

Nature Journal publication. The structural basis for membrane binding and pore formation by lymphocyte perforin? has raw data automatically captured by MyTARDIS Monash and made available to TARDIS.edu.au (1-900) here: <http://uk.tardis.edu/102.100.100/6247>

Note: Due to storage server issues, some data may not be available at this time. Experiments hosted by MyTARDIS Monash should not be affected by this.

A beta-lactam chemical biology strategy reveals distinct roles for malarial H1- and H17-family aminopeptidases (JTBV, JTBW)
 From Monash University, deposited 23rd September 2011
 2 datasets(s)

A common fold mediates vertebrate defense and bacterial attack (JQP2)
 From Monash University, deposited 26th February 2010
 6 datasets(s)

Bacterioferritin from *Mycobacterium smegmatis* contains zinc in its α -nuclear site. (JZJH)
 From Monash University, deposited 26th February 2010
 2 datasets(s)

TARDIS, The Australian Repositories for Diffraction ImageS (<http://www.tardis.edu.au/>)

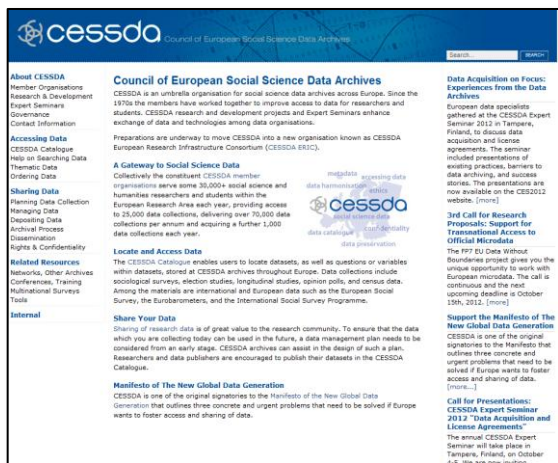
Хранилище наборов данных по кристаллографии и молекулярной биологии.

Примеры использования наборов открытых данных в науке



Australian Social Science Data Archive (<http://www.assda.edu.au/>)

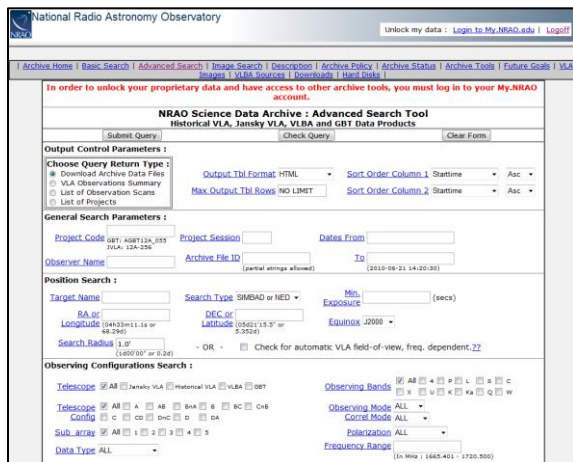
Архив данных социальных наук Австралии.



Council of European Social Science Data Archives (<http://www.cessda.org/>)

Архивы данных социальных наук
Европейского совета.

Примеры использования наборов открытых данных в науке



National Radio Astronomy Observatory

Unlock my data : [Login to My.NRAO.edu](#) | [Logout](#)

[Archive Home](#) | [Basic Search](#) | [Advanced Search](#) | [Image Search](#) | [Description](#) | [Archive Policy](#) | [Archive Status](#) | [Archive Tools](#) | [Future Goals](#) | [VLA](#)

In order to unlock your proprietary data and have access to other archive tools, you must log in to your My.NRAO account.

NRAO Science Data Archive : Advanced Search Tool
Historical VLA, Jansky VLA, VLBA andGBT Data Products

Output Control Parameters :

Choose Query Return Type :
 Download Archive Data Files
 VLA Observations Summary
 List of Observation Scans
 List of Projects

Output_Tbl.Format: HTML Sort_Order.Column.1: Starttime Asc
 Max_Output_Tbl.Rows: NO LIMIT Sort_Order.Column.2: Starttime Asc

General Search Parameters :

Project Code: 087_409713K_055 Project Session: Dates From: To: (special strings allowed)
 Observer Name: JLA_234 Archive File ID: (2010-06-21 14:00:00)

Position Search :

Target Name: Search Type: SIMBAD or NED Min. Exposure: (secs)
 RA or Longitude: 04h33m11.11s or 66.295 DEC or Latitude: 05d21'13.5" or 3.350 Equinox: J2000
 Search Radius: 1.0" - OR - Check for automatic VLA field-of-view, freq. dependent.22

Observing Configurations Search :

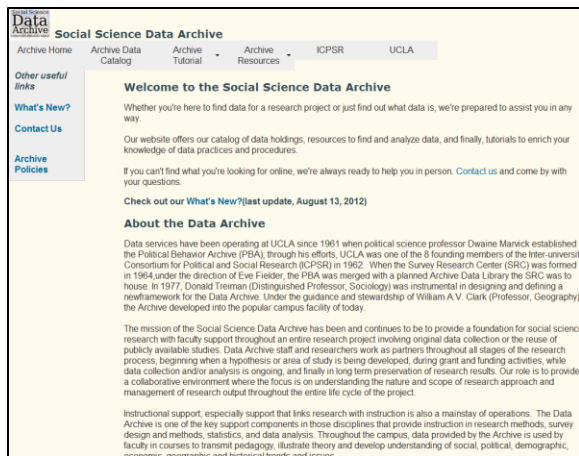
Telescope: All Jansky VLA Historical VLA VLBA GBT Observing Bands: All + - L S C
 X K Ka Q W

Telescope: A AB B BA BC CnB Observing Mode: ALL
 Config: c ca dnc d DA Control Mode: ALL
 Sub_array: All 1 2 3 4 5 Polarization: ALL
 Data Type: ALL Frequency Range: (in MHz) 1445-401 - 1720-900



National Radio Astronomy Observatory
(<https://archive.nrao.edu/archive/>)

Архив данных национальной
радиоастрономической обсерватории (США).



Data Archive
Social Science Data Archive

[Archive Home](#) | [Archive Data Catalog](#) | [Archive Tutorial](#) | [Archive Resources](#) | [ICPSR](#) | [UCLA](#)

Other useful links

What's New?

Contact Us

Archive Policies

Welcome to the Social Science Data Archive

Whether you're here to find data for a research project or just find out what data is, we're prepared to assist you in any way.

Our website offers our catalog of data holdings, resources to find and analyze data, and finally, tutorials to enrich your knowledge of data practices and procedures.

If you can't find what you're looking for online, we're always ready to help you in person. [Contact us](#) and come by with your questions.

Check out our [What's New?](#) (last update, August 13, 2012)

About the Data Archive

Data services have been operating at UCLA since 1961 when political science professor Dwaine Manvick established the Political Behavior Archive (PBA); through his efforts, UCLA was one of the 8 founding members of the Inter-university Consortium for Political and Social Research (ICPSR) in 1962. When the Survey Research Center (SRC) was formed in 1964 under the direction of Eve Fisher, the PBA was merged with a planned Archive Data Library the SRC was to house. In 1977, Donald Treiman (Distinguished Professor, Sociology) was instrumental in designing and defining a new framework for the Data Archive. Under the guidance and stewardship of William A.V. Clark (Professor, Geography) the Archive developed into the popular campus facility of today.

The mission of the Social Science Data Archive has been and continues to be to provide a foundation for social science research with faculty support throughout an entire research project (making original data collection or the reuse of publicly available studies). Data Archive staff and researchers work as partners throughout all stages of the research process, beginning when a hypothesis or area of study is being developed, during grant and funding activities, while data collection and/or analysis is ongoing, and finally in long term preservation of research results. Our role is to provide a collaborative environment where the focus is on understanding the nature and scope of research approach and management of research output throughout the entire life cycle of the project.

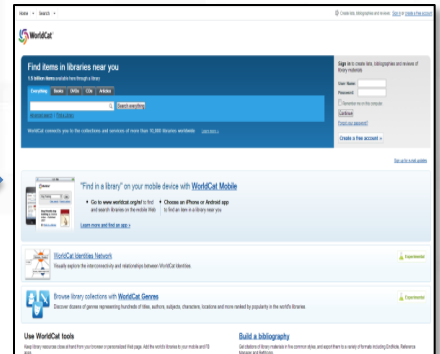
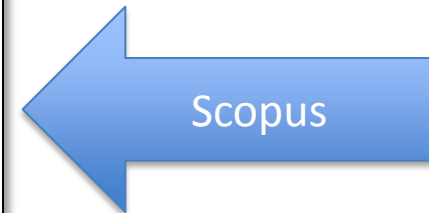
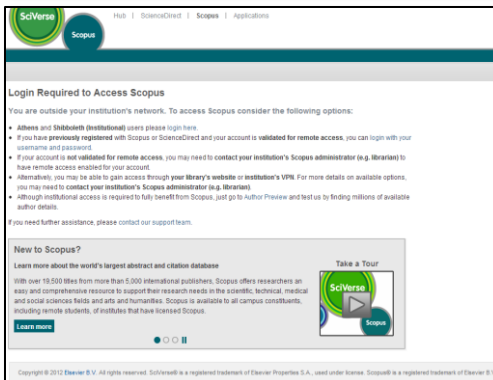
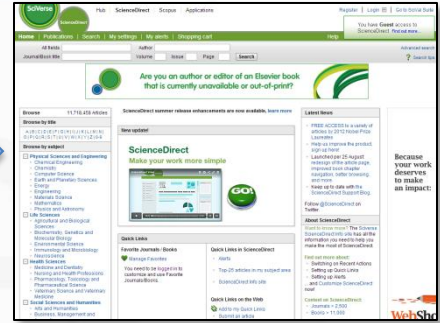
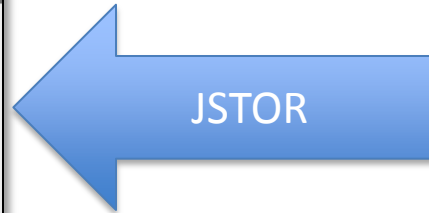
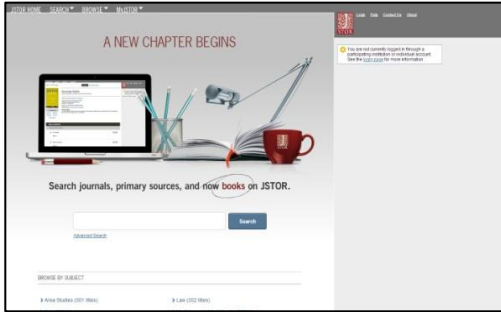
Instructional support, especially support that links research with instruction is also a mainstay of operations. The Data Archive is one of the key support components in those disciplines that provide instruction in research methods, survey design and methods, statistics, and data analysis. Throughout the campus, data provided by the Archive is used by faculty in courses to transmit pedagogy, illustrate theory and develop understanding of social, political, demographic, economic, geographic and historical trends and issues.



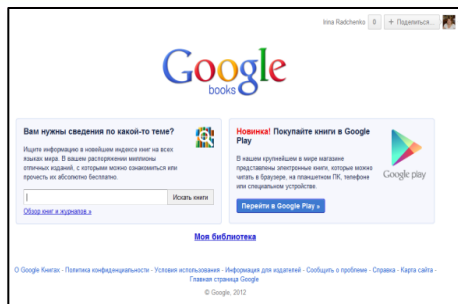
Social Science Data Archive
(<http://dataarchives.ss.ucla.edu/>)

Архив данных социальных наук (США).

Электронные научные хранилища и профильные поисковые сервисы за рубежом

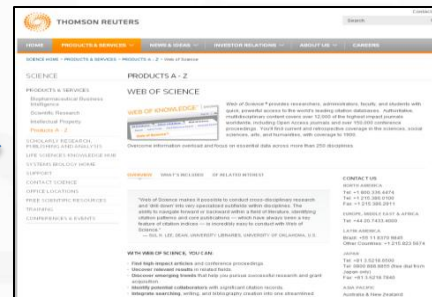


Электронные научные хранилища и профильные поисковые сервисы за рубежом



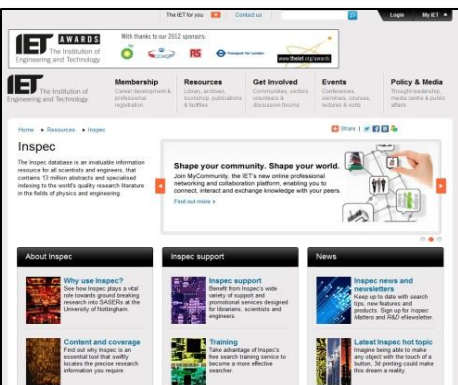
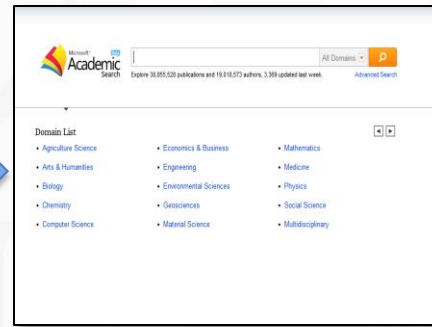
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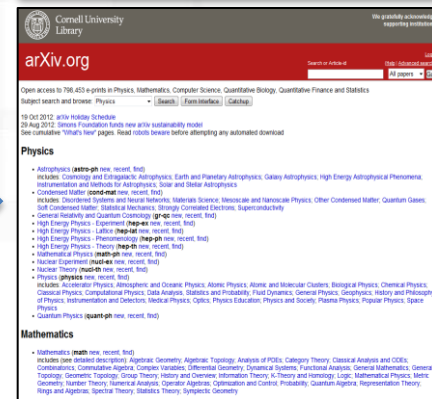
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MS Academic Search →



← Inspec

arXiv →



Электронные научные хранилища и профильные поисковые сервисы в России



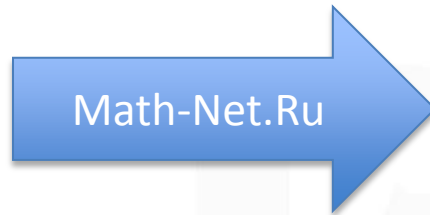
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ОСНОВНЫЕ ПРЕИМУЩЕСТВА

- 1. Широкий охват библиографических данных
- 2. Высокая скорость поиска
- 3. Удобный интерфейс
- 4. Широкий охват библиографических данных

ПОИСКОВЫЕ ВОЗМОЖНОСТИ

- 1. Поиск по ключевым словам
- 2. Поиск по автору
- 3. Поиск по названию
- 4. Поиск по дате публикации




Math-Net.Ru
Общероссийский математический портал

Общероссийский математический портал Math-Net.Ru — это современная информационная система, предоставляющая российским и зарубежным математикам различные возможности в поиске информации о математической науке в России.

Журналы

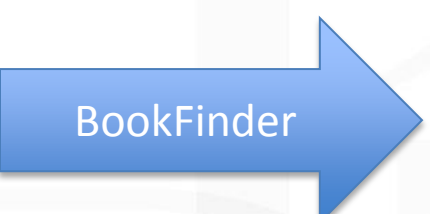
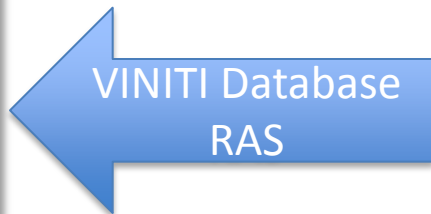
- Российские академические журналы
- Диссертационные журналы
- Журналы высшейшей математики и математической физики
- Известия Российской академии наук. Серия математическая
- Математический сборник
- Математическое моделирование
- Труды семинара по математической физике
- Труды семинара по теории вероятностей и ее приложениям
- Труды семинара по функциональному анализу и его приложениям



ВНИИТИ
научно-информационный центр РАН

ВНИИТИ сегодня — это: главный информационный центр России

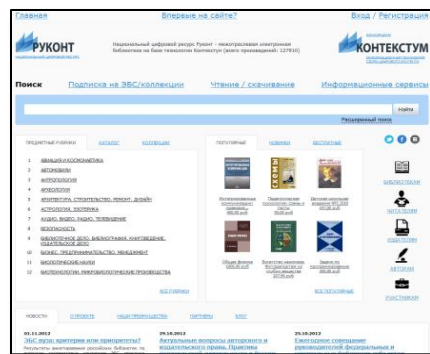
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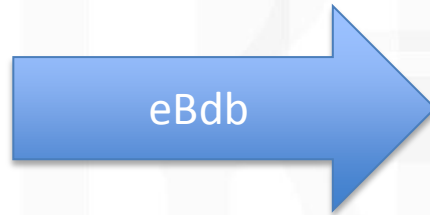
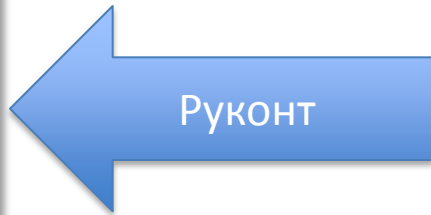
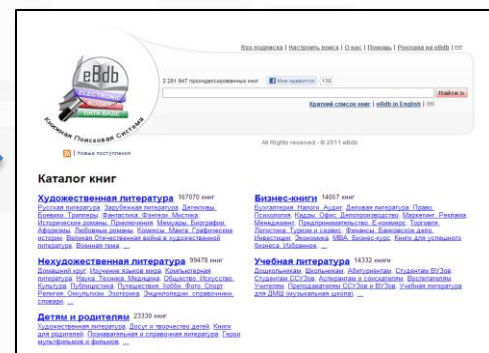


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Поиск:

Популярные книги

- 1. История России
- 2. История культуры
- 3. История искусства
- 4. История философии
- 5. История литературы
- 6. История науки
- 7. История техники
- 8. История искусства
- 9. История философии
- 10. История литературы
- 11. История науки
- 12. История техники

eBdb
Электронная библиотека

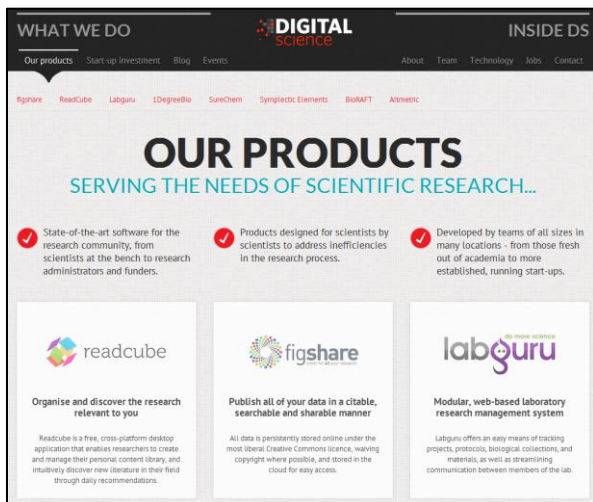
Поиск:

Вход / Регистрация

Каталог книг

- Художественная литература** 167070 книг
- Нехудожественная литература** 19476 книг
- Дети и родители** 23730 книг
- Бизнес-книги** 14057 книг
- Учебная литература** 14332 книг

Разработка инструментов для совместной работы исследователей



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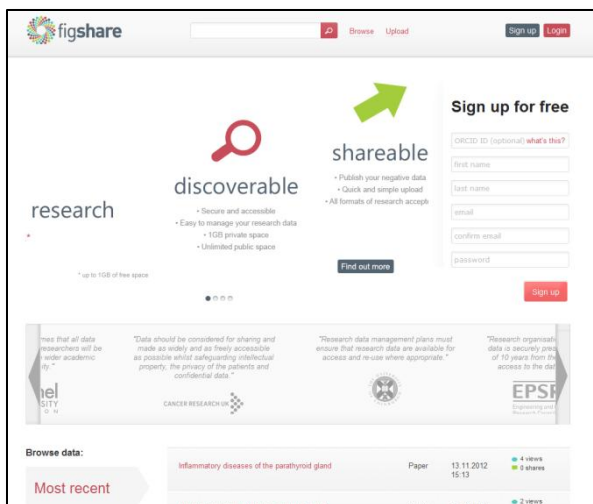
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"Data should be considered for sharing and made as widely and as freely accessible as possible whilst safeguarding intellectual property, the privacy of the patients and confidential data."

"Research data management plans must ensure that research data are available for access and re-use where appropriate."

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Figshare (<http://figshare.com/>) предоставляет исследователям следующие возможности:

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- **совместное использование** результатов заинтересованными исследователями.



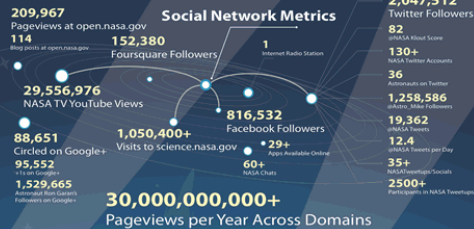
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Разработка инструментов для совместной работы исследователей

TOOLS FOR THE CITIZEN SCIENTIST

The NASA Open Government Plan provides a strong multi-dimensional framework of technology, policy and culture, creating platforms for transparency, participation, and collaboration to better support the Agency's mission to pioneer the future. NASA's original Plan, released April 7, 2010, defined 147 goals across 22 organizations related to integrating Open Government into the Agency's programs and projects. We set high goals, and we are proud of how far we have come in the first two years. All of these goals are fluid; you'll see growth and movement as we work to determine the best path toward openness. This infographic conveys the progress NASA made toward the original goals in Open Government - our latest efforts in working together with you to enable us all to reach new heights and reveal the unknown.

We hope this will clearly communicate our progress and keep you informed of new and exciting things within NASA. If you have any questions or comments, we encourage you to visit our NASA Open Government website at <http://www.nasa.gov/open/> and share your ideas.



FOIA Requests in FY 2011

35 Outstanding from previous year

Data Sets Released Publicly

21 Tools on data.gov

512 Collections

3 Directories For Educators on data.gov

3 Collections

In FY 2011

406 New Space Act Agreements

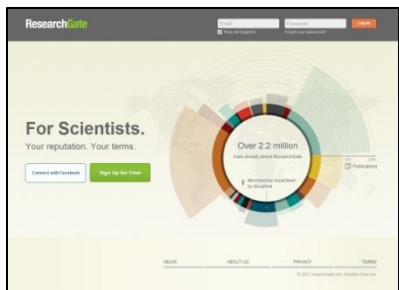
647 Agreements



Tools for the Citizen Scientist (NASA)

Предоставляет программные продукты для совместных научно-исследовательских работ.

Создание специализированных научных социальных сетей



Research Gate (<http://www.researchgate.net/>)

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Research Gate (<https://secure.quantiamd.com/>)

Социальная сеть для врачей.



Sermo (<http://www.sermo.com/>)

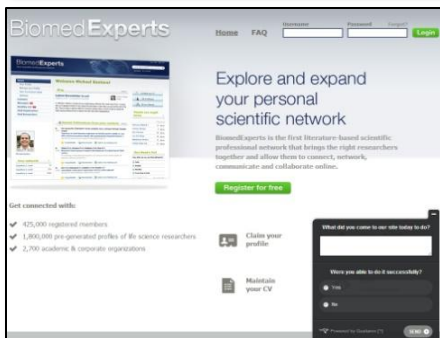
Социальная сеть для врачей.

Создание специализированных научных социальных сетей



MitCogNet (<https://cognet.mit.edu/>)

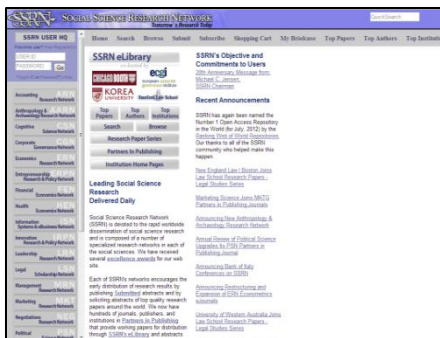
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BiomedExperts

BioMedExpert (<http://www.biomedexperts.com/>)

Социальная сеть для исследователей в области биомедицины.



Social Science Research Network (<http://www.ssrn.com/>)

Социальная сеть для исследователей в области социальных наук.



НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ
УНИВЕРСИТЕТ

Спасибо
за внимание!