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**Joint ICTP-IAEA School of Nuclear Knowledge Management**

*1 - 5 September 2008*

**General Requirements for Nuclear Knowledge Management Portal**

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AUSTRIA*

# **General Requirements for Nuclear Knowledge Management Portals**

**A.Pryakhin, IAEA**

School of Nuclear Knowledge Management,  
1-5 September 2008,  
ICTP, Trieste, Italy



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New tools for supporting NKM have been developed or initiated, including an IAEA-wide document **management** system and a web-based **Nuclear Knowledge Portal**. ... [www.iaea.org/inisnkm/nkm/documents/NKM\\_Guidance.pdf](http://www.iaea.org/inisnkm/nkm/documents/NKM_Guidance.pdf) - Similar pages

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IAEA-CN-153/2/P/25. **NUCLEAR KNOWLEDGE PORTAL: INFORMATION MANAGEMENT. MAKING POSSIBLE THE KNOWLEDGE MANAGEMENT.** F. Braga, N. Orosco, E. Galvão, L. Sayão ...  
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International Conference on **Nuclear Knowledge Management**: Strategies, ... The ACM  
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[portal.acm.org/citation.cfm?id=1275918.1275923&coll=GUIDE&dl=ACM&CFID=15151515&CFTOKEN=61...](https://portal.acm.org/citation.cfm?id=1275918.1275923&coll=GUIDE&dl=ACM&CFID=15151515&CFTOKEN=61...) - Similar pages

**Portal** for aiding and streamlining the Licensing and Management activities of the CNEN.  
Keywords: **knowledge management; knowledge; nuclear knowledge.** ...  
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He is writing a dissertation about **Nuclear Knowledge Management ..... Management, Organisation Handbook, Library and more. A second portal has been set up ...**  
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Efforts in improvement of **nuclear knowledge** and information **management** in Croatia ... pp  
237-243; **Nuclear Knowledge Portal** for Supporting Licensing and ...  
[www.wonuc.org/hrm/issue-03.htm](http://www.wonuc.org/hrm/issue-03.htm) - 4k - **Cached** - **Similar pages**

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News from the INIS and Nuclear Knowledge Management Section ..... The purpose of the Nuclear Knowledge Portal is to offer professionals in the nuclear field ...  
[www-pub.iaea.org/MTCD/publications/PDF/Newsletters/NI&K-NL-01.pdf](http://www-pub.iaea.org/MTCD/publications/PDF/Newsletters/NI&K-NL-01.pdf) - Similar pages

Therefore, the objective of this paper is to present the construction of a **Nuclear Knowledge Portal** for aiding and streamlining the Licensing and Management ...

Done

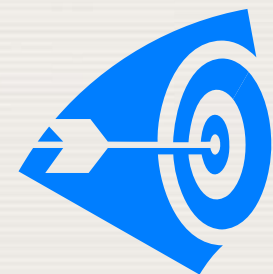
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Free KM Research

New model showing system approaches  
& detailing benefits of Dynamic KM  
[www.imaginatik.com/](http://www.imaginatik.com/)

# Objectives

- **Provide and discuss a concept of Knowledge Portal (K-Portal)**
- **Describe approaches to build K-Portals**
- **Provide examples of K-Portals**



# Why do we need a K-Portal?

To provide access to everything what is

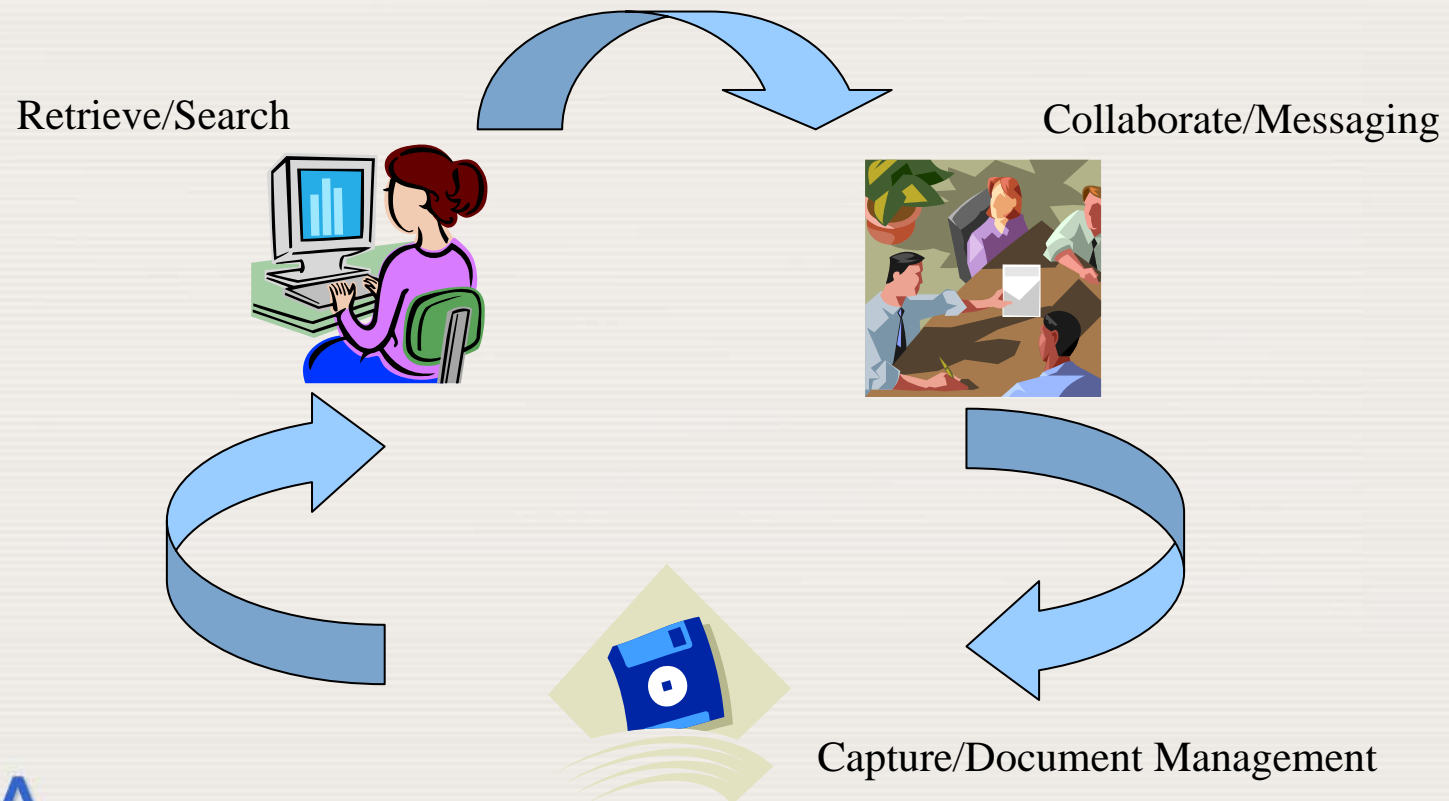
- 1) implicitly exists (capturing to explicit knowledge, collaboration) and
- 2) explicitly published

within the organization



# From KM Process to KM Technology

- Map technologies onto functionality required to support KM process



# Knowledge Portal - Definition

- **Knowledge Portal (K-Portal)** – A comprehensive access structure to the resources which are suitable to support fundamental activities of knowledge management in a given domain in order to communicate, study and do research
- (structured map of knowledge sources)



# Key issues of K-Portal building

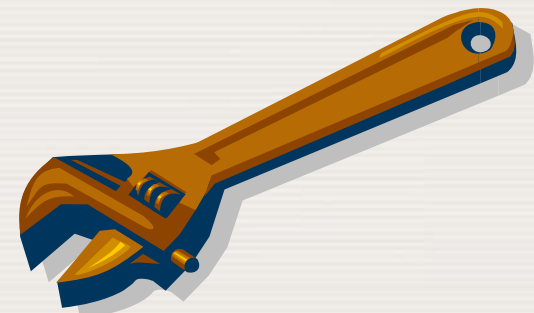
- Analysis of Business Needs
  - Driven by day-to-day needs
  - Reflects real business and business processes
- Design and Development
  - Pragmatic (not scientific) approach
  - Requires long-term maintenance, projection, etc.
  - Resources
- Implementation
  - KM: Map – how to organize explicit knowledge in electronic form
- Organizational
  - Project Management
  - Management commitment
  - Involvement of all staff of the organization
  - Qualified both KM and ITC staff
  - Continues improvement





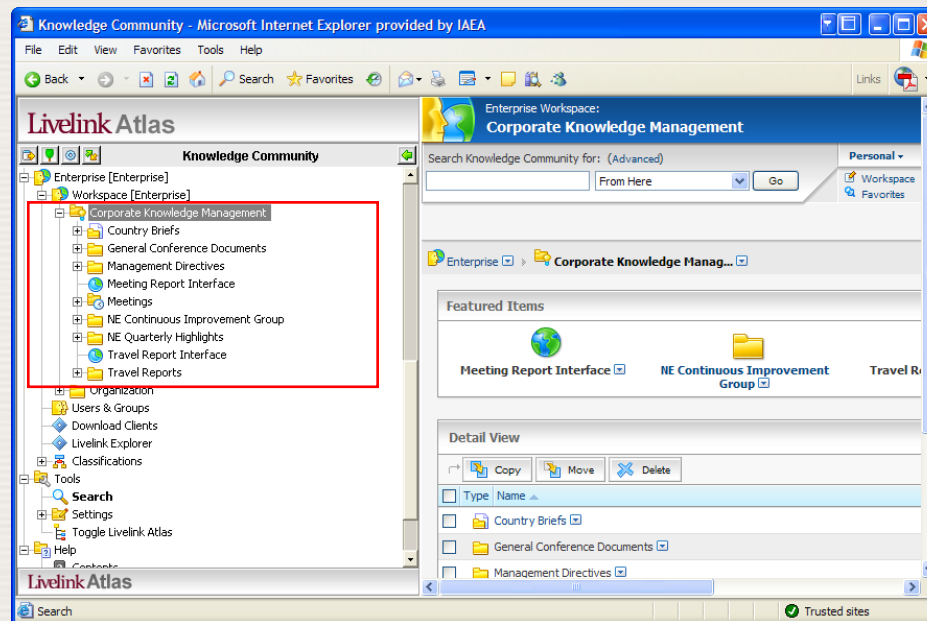
# K-Portal building basics

- Directories / Catalogues
- Search
- Collaboration / Find an expert



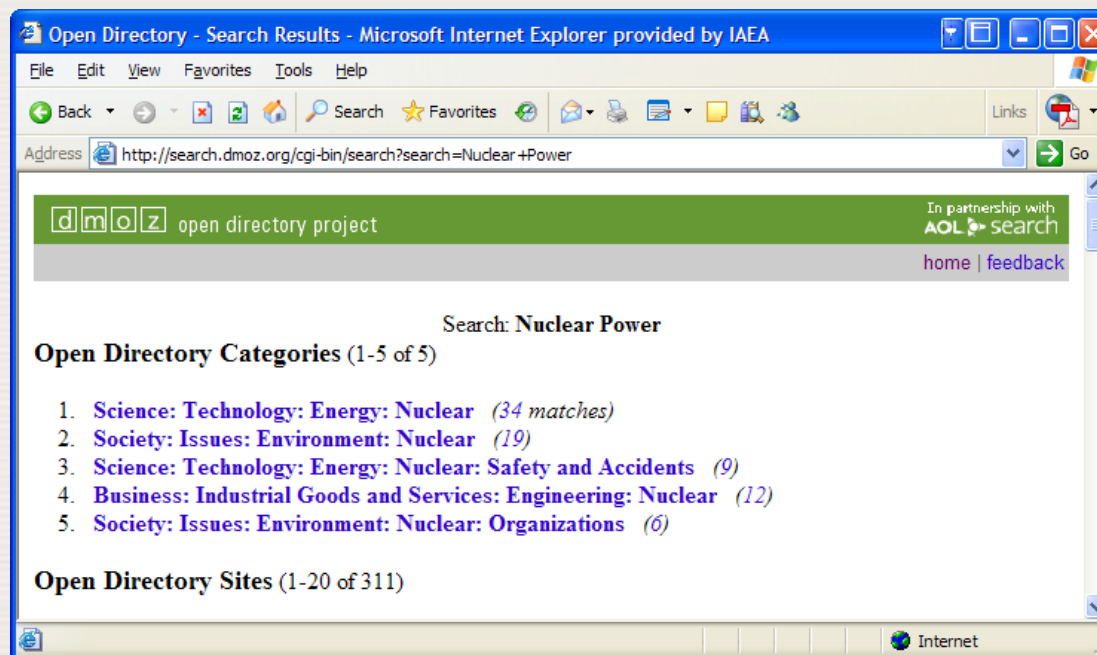
# How to achieve a target?

- Directories – design phase
  - easier to organize, more difficult to find



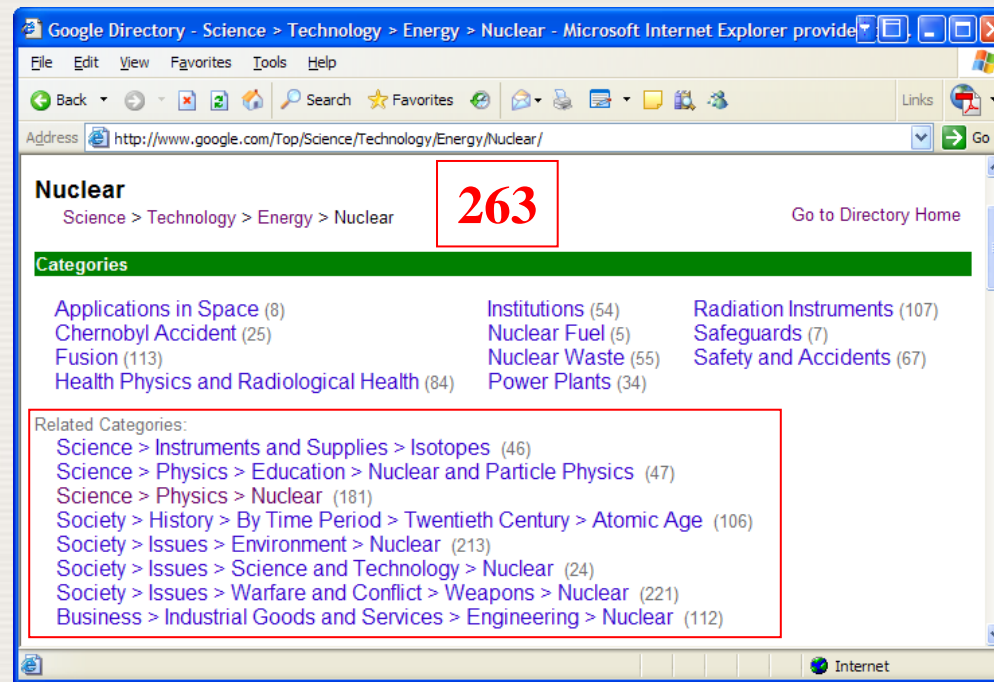
# How to achieve a target?

- Directories
  - anticipate the context of your search



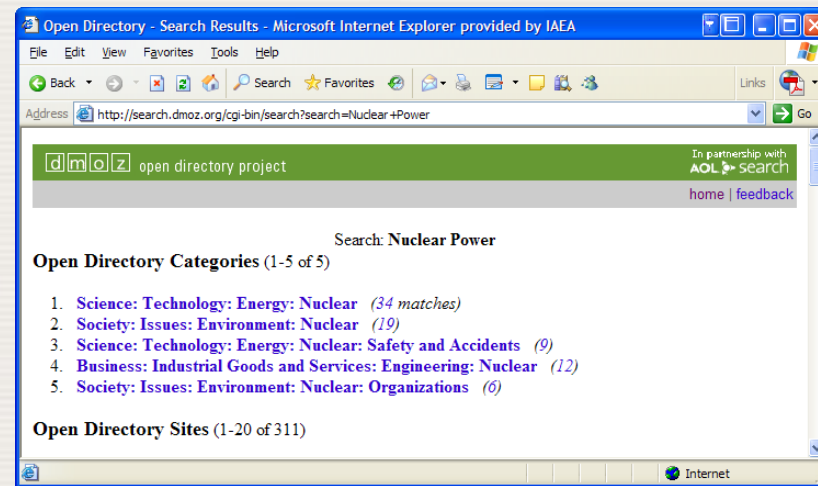
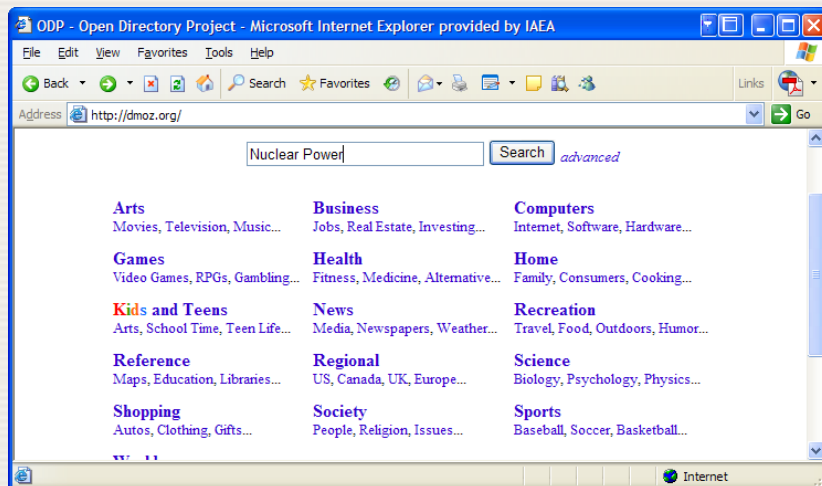
# How to achieve a target?

- Directories
  - prompt context dependent areas (similarity in other sub-trees)



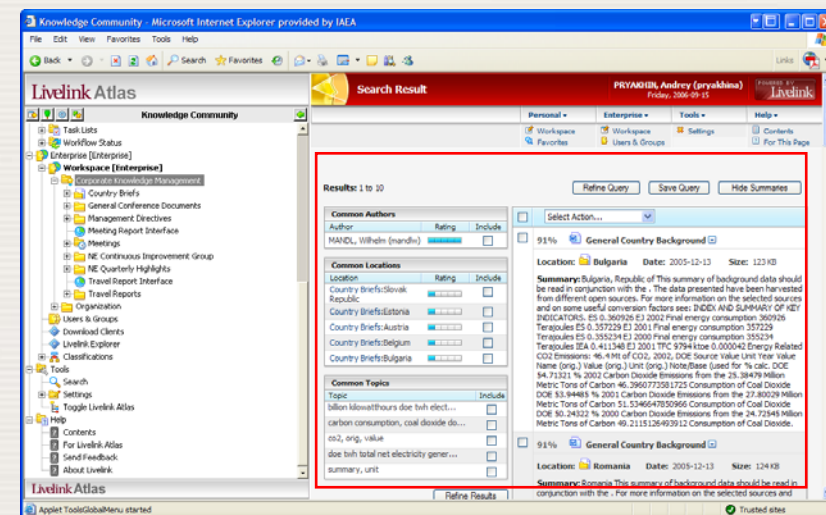
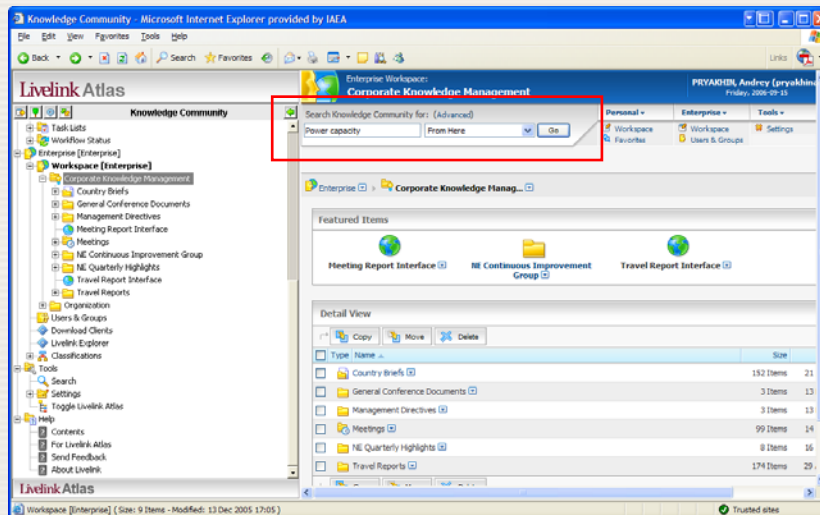
# How to achieve a target?

- Search engines – run-time phase
  - the same terms are used in different areas/talks



# How to achieve a target?

- Search engines – run-time phase
  - less reliable in time
  - requires more accurate queries




# Yellow pages

- Collaboration
  - Experts profiles
  - Yellow pages (find the right person and prevent the wheel from being reinvented)

# Yellow pages (continued)?

NUCLEUS - Find an Expert - Microsoft Internet Explorer provided by IAEA

Address: [http://nucleus.iaea.org/NUCLEUS/nucleus/Content/Knowledge\\_Base/Find\\_an\\_Expert/index.jsp](http://nucleus.iaea.org/NUCLEUS/nucleus/Content/Knowledge_Base/Find_an_Expert/index.jsp)

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The query will return the names and affiliations of experts together with the titles of recent publications.

A) select a domain:  
ANY SUBJECT

B) select a sub category:  
-- any --

C) enter up to five suitable keywords or phrases (one per line):


- 1 - knowledge management
- 2 - nuclear knowledge
- 3 -
- 4 -
- 5 -

D) connect keywords using Boolean ☒ AND ☐ OR operators

E)

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### Find an Expert - Search Results

50 different authors who have recently published in the specified field have been identified:

Result Page: 1 2 3 4 ... End

1. Daud, A.H.
  - o [2004] *A structured approach to introduce knowledge management practice in a national nuclear research institution in Malaysia*  
Daud, A.H. (Malaysian Institute for Nuclear Technology Research (MINT) (Malaysia)). E-mail: ainul@mint.gov
  - o [2004] *Knowledge management initiatives of the Regional Cooperative Agreement (RCA) undertaken by the Electronic Networking and Outreach (ENO) project*  
Musa, A. (Malaysian Institute for Nuclear Technology Research (Malaysia)). E-mail: alawiah@mint.gov.my; D A.H.; Sulaiman, M.S. (Malaysian Institute for Nuclear Technology Research (MY))
2. Grover, R.B.
  - o [2004] *Technology and knowledge management in and by the Department of Atomic Energy, India*  
Grover, R.B. (Strategic Planning Group, Department of Atomic Energy, Mumbai (India)). E-mail: rbgrover@dae.gov.in
3. Torgerson, D.F.
  - o [2004] *Nuclear knowledge management strategies in Canada*  
Torgerson, D.F.; Aly, A.M.M.; Shalaby, B. (Atomic Energy of Canada Limited (AECL), Mississauga (Canada), mail: torgersond@aecl.ca
4. Aly, A.M.M.
  - o [2004] *Nuclear knowledge management strategies in Canada*  
Torgerson, D.F.; Aly, A.M.M.; Shalaby, B. (Atomic Energy of Canada Limited (AECL), Mississauga (Canada), mail: torgersond@aecl.ca



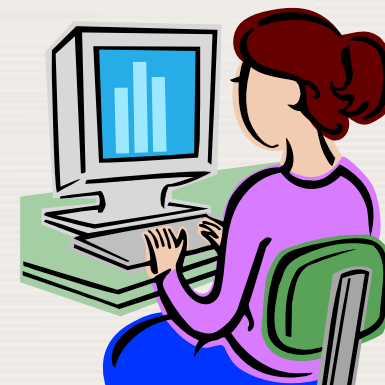


# Tools to build K-Portals

- OpenText
  - Web Content Management System
  - LiveLink (Document Management System)
- Filenet Content Management System
- Mediawiki / Wikipedia

# Examples of K-Portals – public domain

- Google -  
<http://google.com>
- Yahoo!  
<http://yahoo.com>
- LinkPageBuilder (Generate Link Pages from Link Tables in Microsoft Access) -  
<http://www.romankoch.ch/capslock/lpb.htm>



# Examples of K-Portals – IAEA domain

- ***Nucleus*** –  
<http://nucleus.iaea.org>
- International Nuclear Information System –  
<http://www.iaea.org/inisnkm/inis/aboutinis/overview.htm>  
<http://inisdb.iaea.org/inis/php/index.php>
- Power Reactor Information System (PRIS)  
<http://www.iaea.or.at/programmes/a2/>
- Nuclear Energy Knowledge Portal –  
<http://www.iaea.org/inis/aws/index.html>
- Electronic Nuclear Training Catalogue (ENTRAC) –  
<http://entrac.iaea.org>

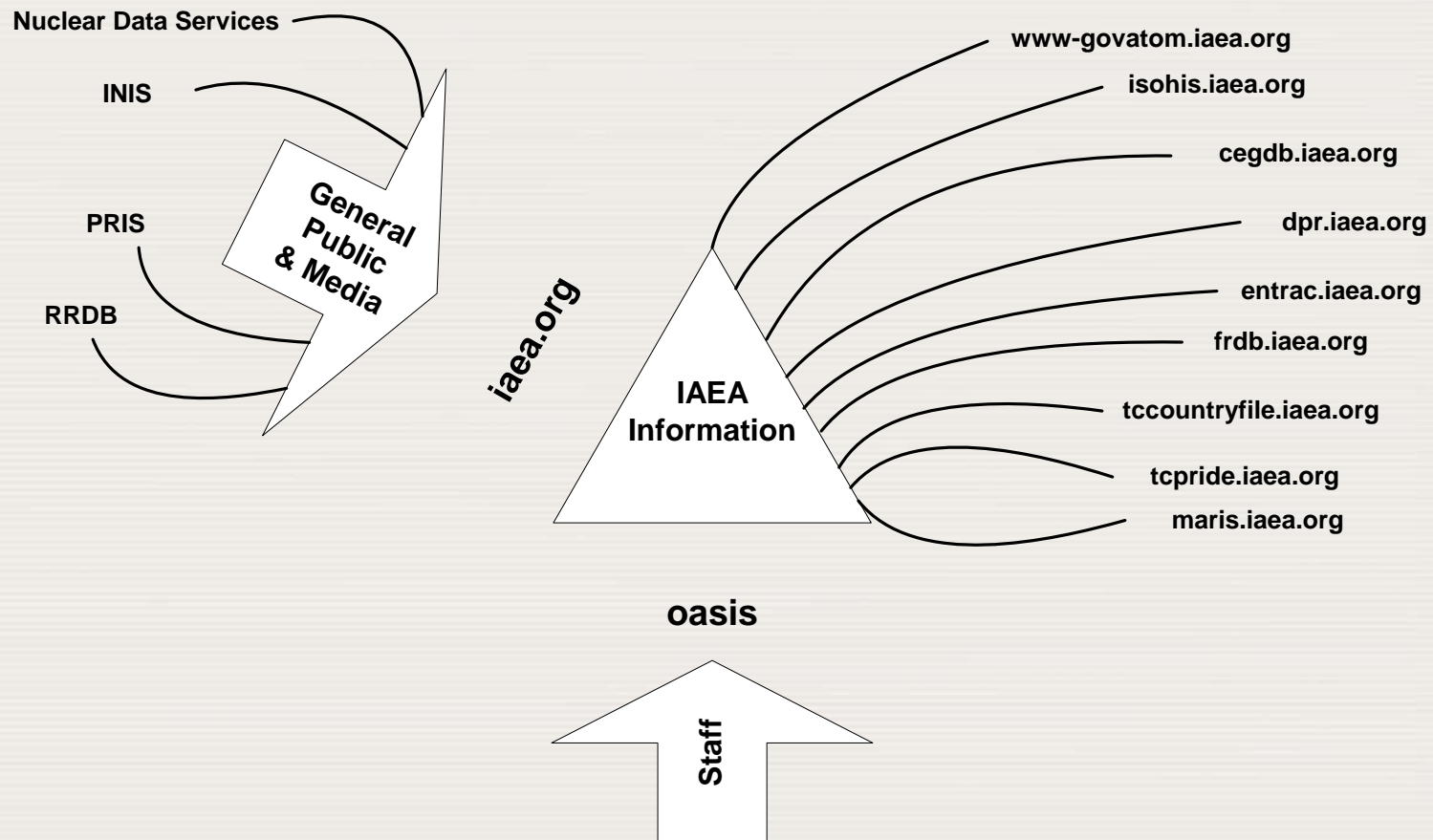


# Nucleus – IAEA Nuclear Knowledge Portal

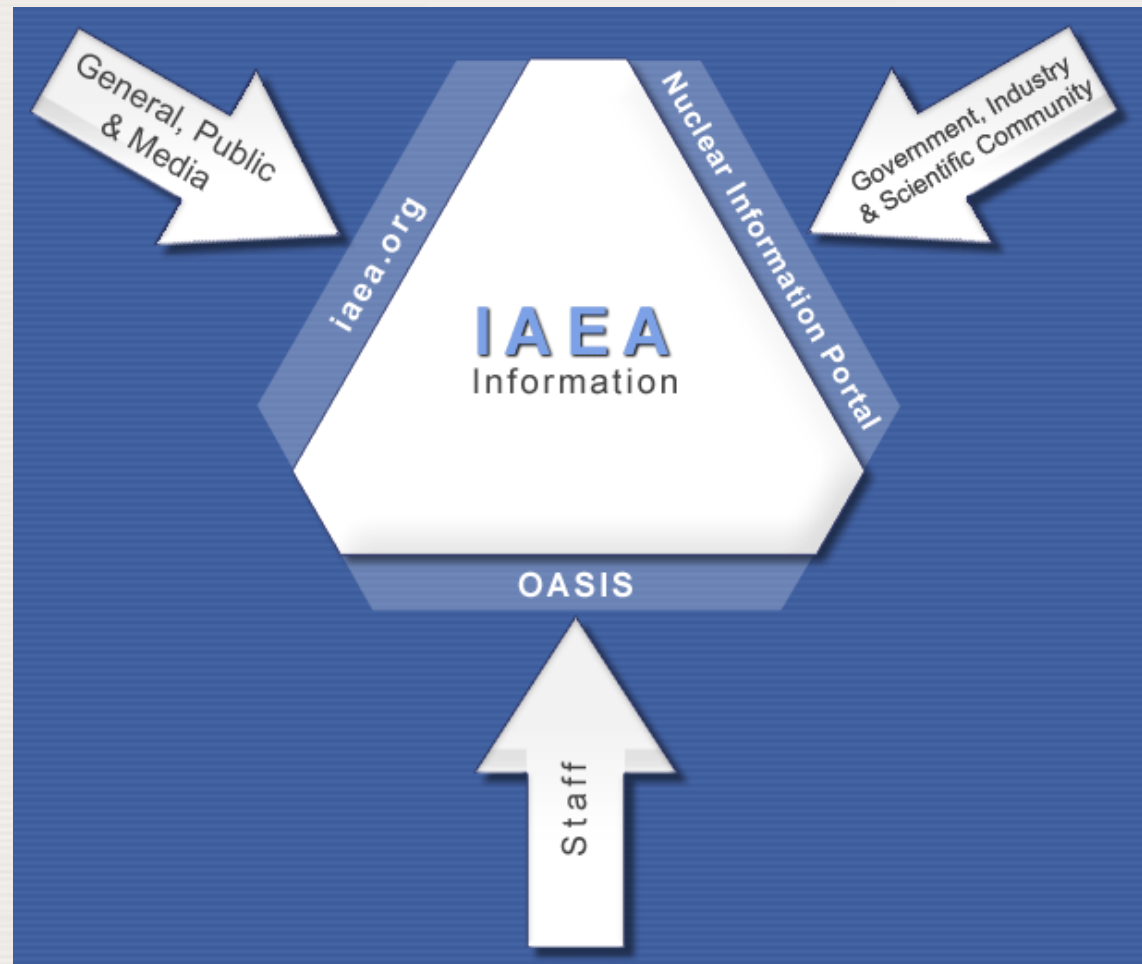
- ***Nucleus*** entry point:  
  
<http://nucleus.iaea.org>
- Demo



# Nucleus – needs in



# Nucleus – needs in



# Nucleus – needs in

Challenge	Portal Solution
Different Look & Feel	IAEA Visual Identity
Many registration procedures	Single registration procedure
Many Userids and Passwords	One IAEA userid and password
Primitive search	Search across documents and databases

- Personalization
- Decentralized content management



# Nucleus – IAEA Nuclear Knowledge Portal

- Project endorsed by DG (October 2004)
- Single entry point for 1) Scientific, 2) Technical and 3) Regulatory Information
- 4 main objectives
  - IAEA Visual Identity
  - Single sign-on and registration procedure
  - Search across websites and databases
  - Personalization & Customization





# Nucleus – September 2007

- Single Sign-on infrastructure fully implemented
- Search implemented
- >100 complex and restricted information resources added (from NA, NE and NS)
- Initial Taxonomy implemented
- Find an Expert



# Nucleus

- Sample screens



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## Services

### IAEA Library Catalogue

The IAEA Library Catalogue provides bibliographic information on the location and availability of the Library's collection of books, journals, films and videos, selected technical reports and documents, as well as electronic resources. The catalogue contains more than 90,250 records.

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### Publications

The IAEA is a leading publisher in the nuclear field. Its scientific and technical publications include proceedings of major international conferences, as well as international guides, codes, and standards. The Publications Search facilitates easy access to these publications.

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## What's New?

### Food Irradiation Clearances Database



This resource has had a make-over and in the process has been integrated more tightly into Nucleus. It is a database on country approvals of irradiated foods for human consumption. The information includes country name, class of food, specific food product, objective of irradiation, date of approval and recommended dose limit. It is maintained by the Food and Environmental Subprogramme of the Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture. [More »](#)

### International Nuclear Information System (INIS)



Leading worldwide information source of scientific literature on the peaceful applications of nuclear science and technology, dating back to 1970. Over 2.8 million scientific and technical bibliographic references have been indexed & abstracted in English according to agreed rules and standards. [More »](#)

### New Catalogue Browser

The new browser for the Nucleus catalogue of information resources enables users to search either by subject, source or type of data, as well as by a combination of these three categories. This functionality will enable the integration of a large number additional information resources in the future, as well as making these resources easily accessible to the users. [More »](#)

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Engineering

Environmental Sciences

General and Miscellaneous

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Management of Radioactive Wastes, and Non-Radioactive Wastes from Nuclear Facilities

Nuclear Fuel Cycle and Fuel Materials

Nuclear Physics and Radiation Physics

Specific Nuclear Reactors and Associated Plants

Search Result

Accelerator Driven Systems Database (ADSDB)

Accelerators, research and development of accelerator driven systems, particularly applications in the partitioning and transmutation of nuclear waste.  
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ADS Nuclear Data Library (ADS-Lib)

Application Library for Accelerator Driven Systems. Application test library in ACE and MATXS format for ADS neutronics design  
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The initial efforts of AQCS focused on the preparation of environmental RMs containing anthropogenic radionuclides for use by those laboratories employing nuclear analytical

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- NAAL - Agency's Laboratories
- NAFA - Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture
- NAHU - Division of Human Health
- NAML - IAEA Marine Environment Laboratories, Monaco
- NAPC - Division of Physical and Chemical Sciences
- NE - Department of Nuclear Energy
- NE/INIS - International Nuclear Information System
- NE/PESS - Planning and Economic Studies Section
- NEFW - Division of Nuclear Fuel Cycle and Waste Technology
- NENP - Division of Nuclear Power
- NS - Department of Nuclear Safety and Security
- NSRW - Division of Radiation, Transport and Waste Safety
- TCPC - Division of Programme Support and Coordination

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### ADS Nuclear Data Library (ADS-Lib)

Application Library for Accelerator Driven Systems. Application test library in ACE and MATXS format for ADS neutronics design

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... causes; (b) The identification of management practices, technologies and policies that ... the case study draws upon the knowledge, innovations and practices of ...  
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### NEWMDB WEBSITE

... to make NEWMDB the premier international nuclear waste knowledge base. ... Atomic Energy Agency's (IAEA) Net Enabled Waste Management Database (NEWMDB) contains: ...  
<http://www-newmdb.iaea.org/start.asp> - 11k

### NUCLEUS - Project Objectives

... across multiple knowledge and information resources; Improve user experience via customization and personalization features. Content management responsibility ...  
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### Radiation protection in Nuclear Medicine

... be appointed by the hospital's senior management and should be composed of clinical ... and persons who have special knowledge of the hazards of radiation and ...  
[http://rpop.iaea.org/RPoP/RPoP/Content/Documents/TrainingNuclearMedicine/Notes/RPNM\\_Part13\\_organization.doc](http://rpop.iaea.org/RPoP/RPoP/Content/Documents/TrainingNuclearMedicine/Notes/RPNM_Part13_organization.doc) -

### Radiation protection in Nuclear Medicine

... radiation have up-to-date knowledge. In some places special training ... ORGANIZATION FOR STANDARDIZATION. Quality management and quality assurance standards ...  
[http://rpop.iaea.org/RPoP/RPoP/Content/Documents/TrainingNuclearMedicine/Notes/RPNM\\_Part09\\_QA.doc](http://rpop.iaea.org/RPoP/RPoP/Content/Documents/TrainingNuclearMedicine/Notes/RPNM_Part09_QA.doc) -

### IAEA Training Material on Radiation Protection in Radiotherapy

... BSS: Education is part of Management Requirements: Qualified radiation safety experts: ... shall include appropriate academic knowledge and professional experience. ...  
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# Nuclear Knowledge Portals

- Conclusions
- Questions and answers
- Good bye

