



*The Abdus Salam
International Centre for Theoretical Physics*



1962-10

Joint ICTP-IAEA School of Nuclear Knowledge Management

1 - 5 September 2008

KM Objectives and Policies

Y. YANEV

*IAEA, INIS & Knowledge Management Section
P.O. Box 100, A-1400 Vienna
Austria*

Managing Nuclear Information

Yanko Yanev

Nuclear Knowledge Management Unit

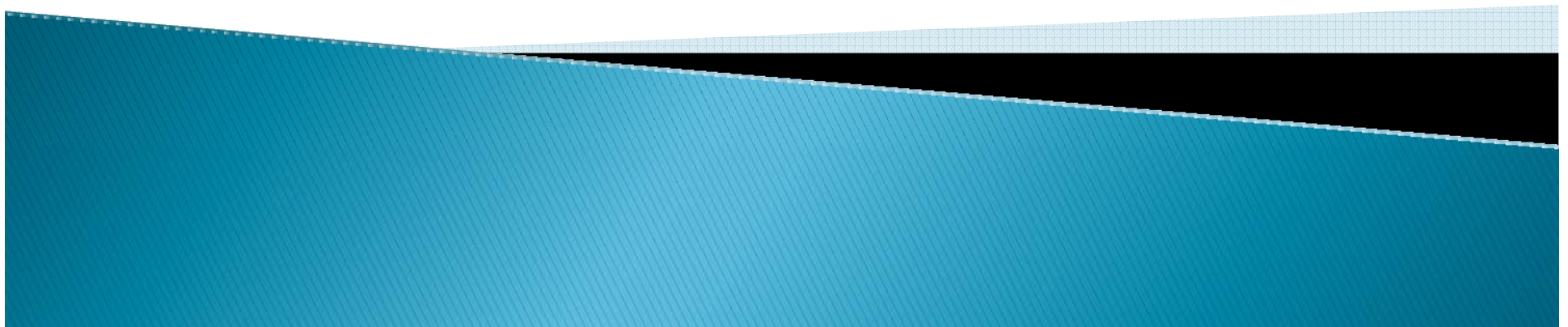
Topics

- Historical aspects
- INIS
- IAEA Nuclear Information Resources
- The Internet
- Future outlook



Nuclear Information Management (before INIS)

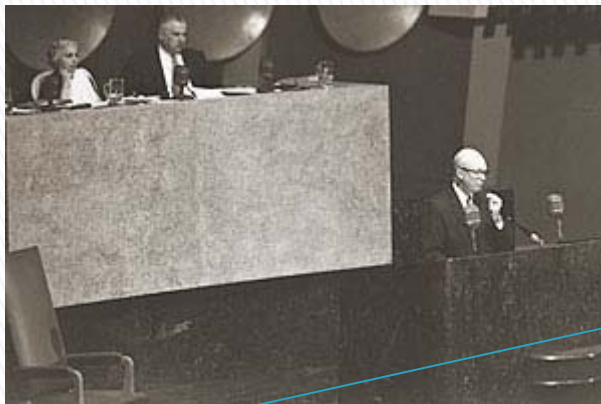
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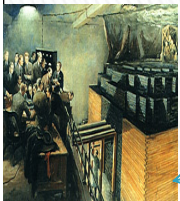
The Early days



Enrico Fermi



Chicago pile 1942



1945

1955

1965

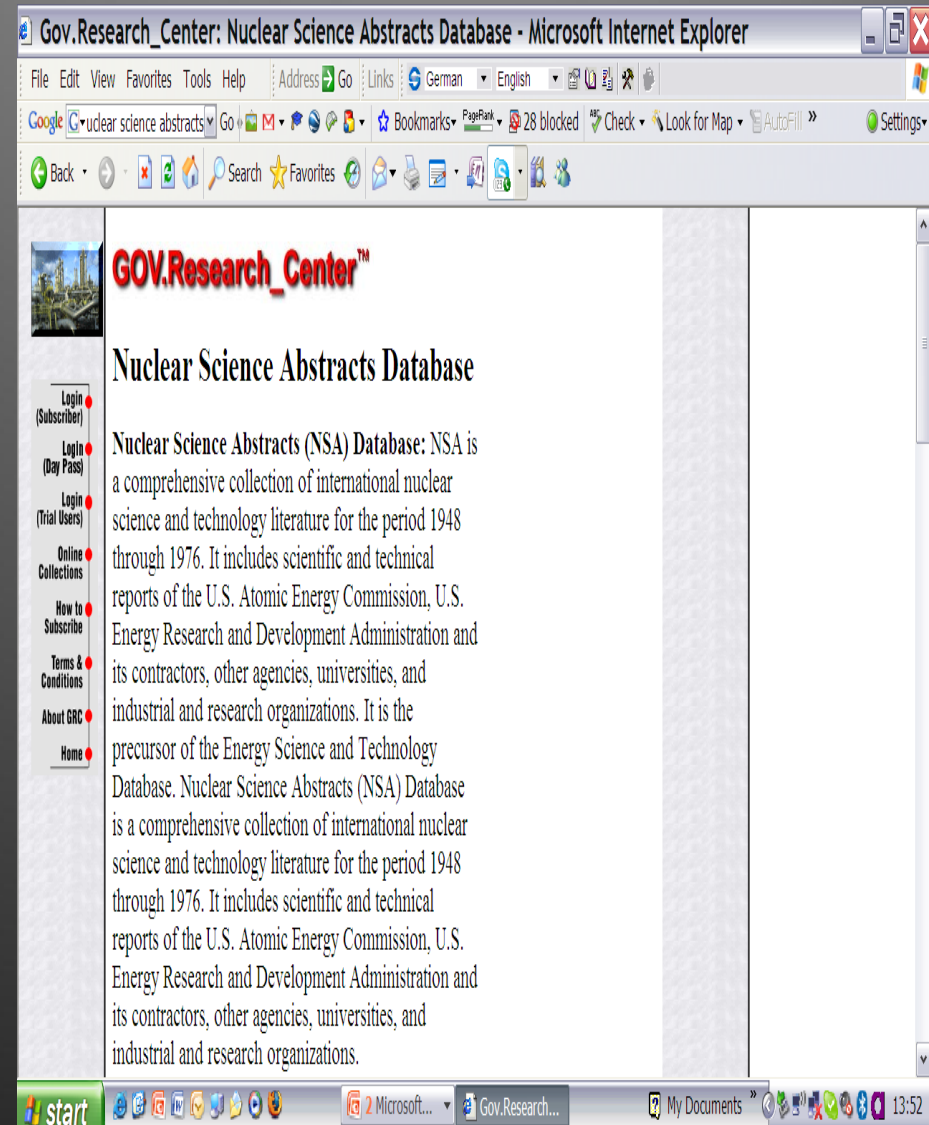
1975

1985

2005

The Nuclear Science Abstracts

- ▶ NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976. It includes scientific and technical reports of the U.S. Atomic Energy Commission, U.S. Energy Research and Development Administration and its contractors, other agencies, universities, and industrial and research organizations.



Реферативный журнал

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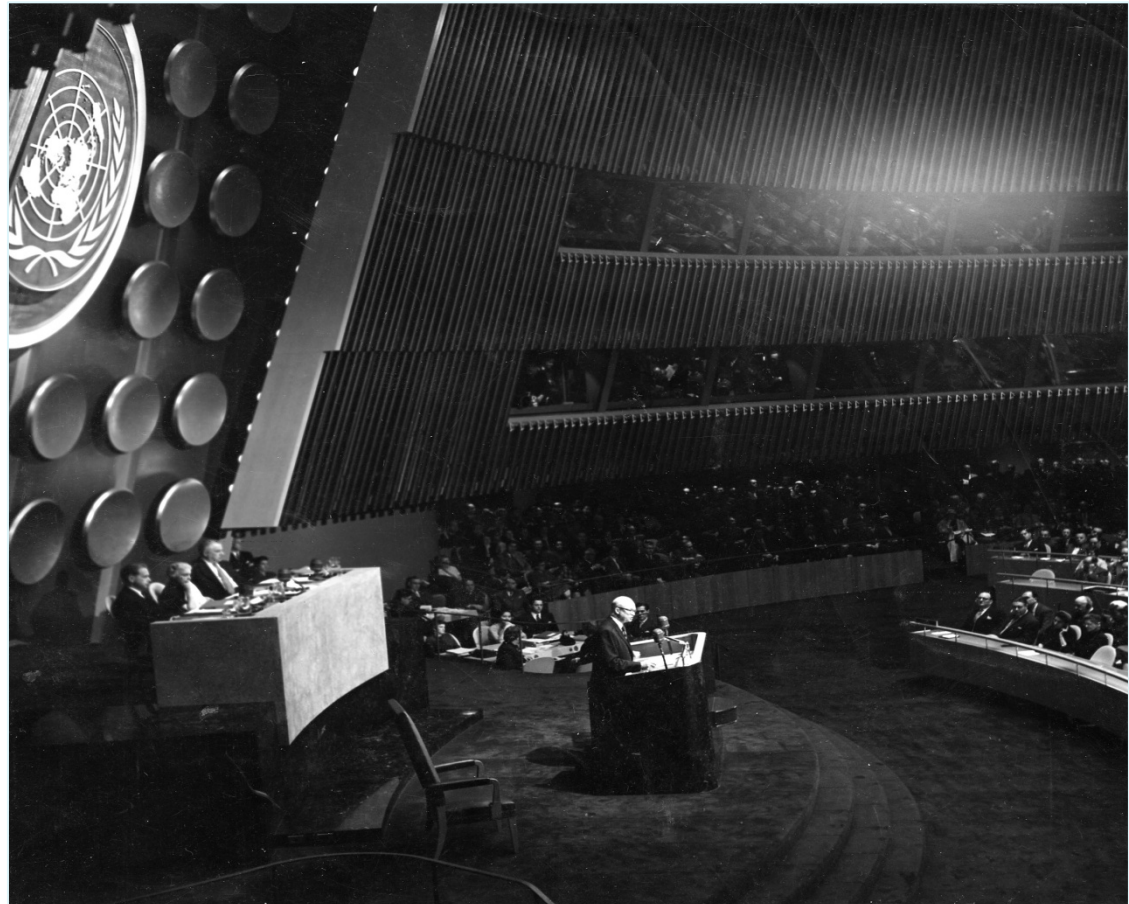
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IAEA was created with the Division of Scientific and Technical Information



1945

1965

1975

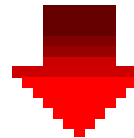
1985

1995

2005



- The IAEA was mandated the statutory obligation to foster the exchange of nuclear information amongst its Members
- The main owners of nuclear information in the 60's – the national nuclear authorities decided to create

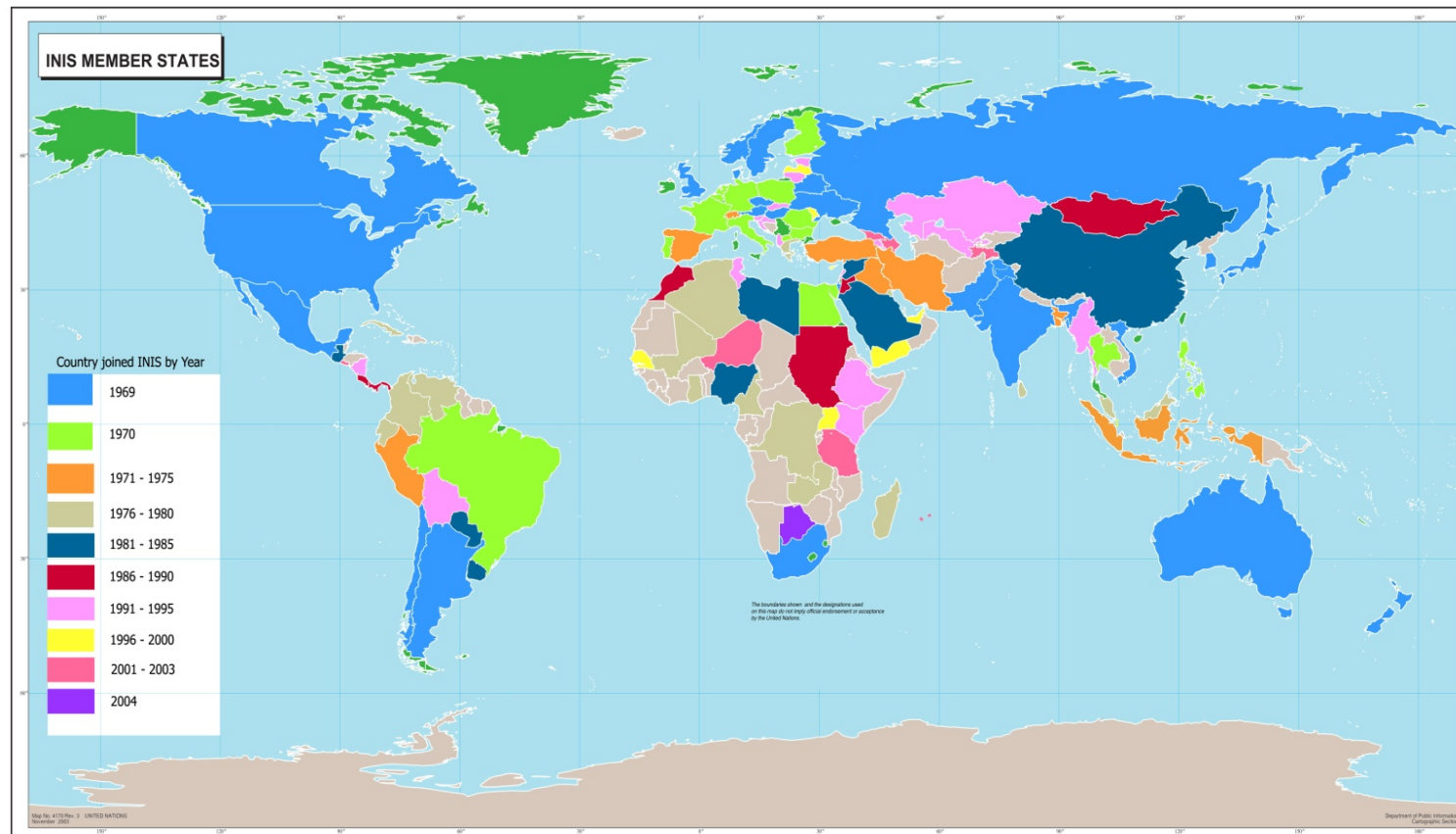


International Nuclear Information System

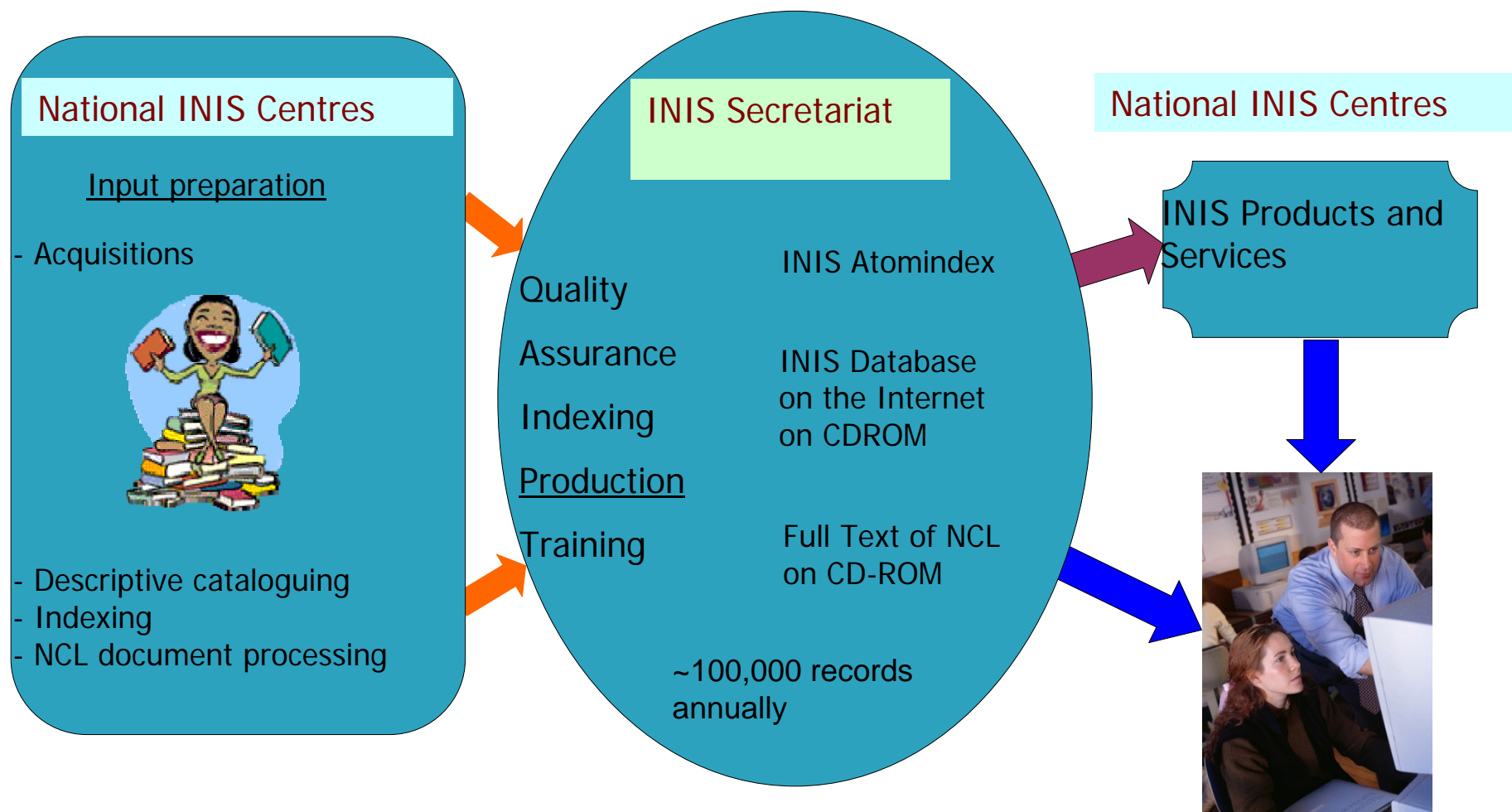
INIS Membership:

117 Member States

23 International Organizations



How INIS Operates



Two Main INIS Products:

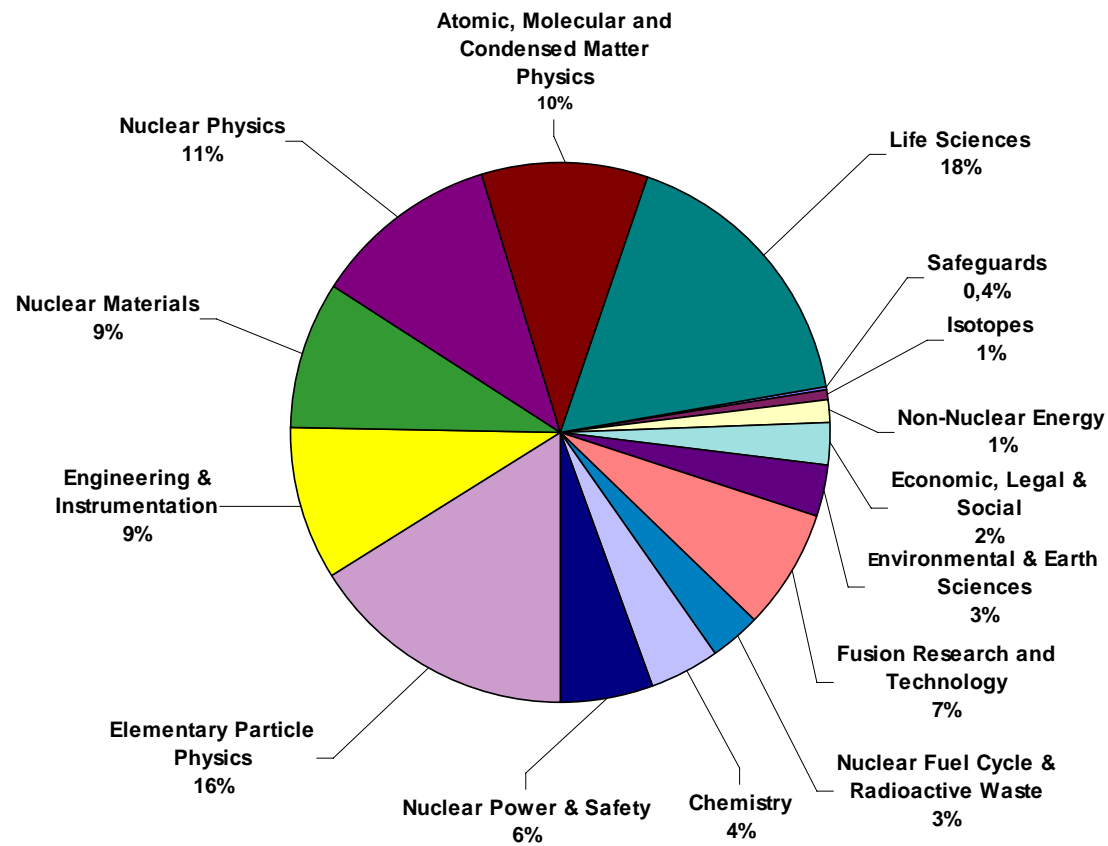
1. INIS Bibliographic Database

(Over 2.8 million indexed references)

2. INIS Full-Text Collection

(Over 700,000 documents on 63 languages,
many of them can't be found anywhere else)

Subject Scope



What does INIS contain?

Bibliographic references of:

- Journal articles – 49%
- Technical reports (full text) – 17%
- Conference papers (full text) – 11%
- Books – 12%
- Patents (full text) – 2%
- Laws, regulations, dissertations and other published material (full text) – 9%

INIS Bibliographic Database

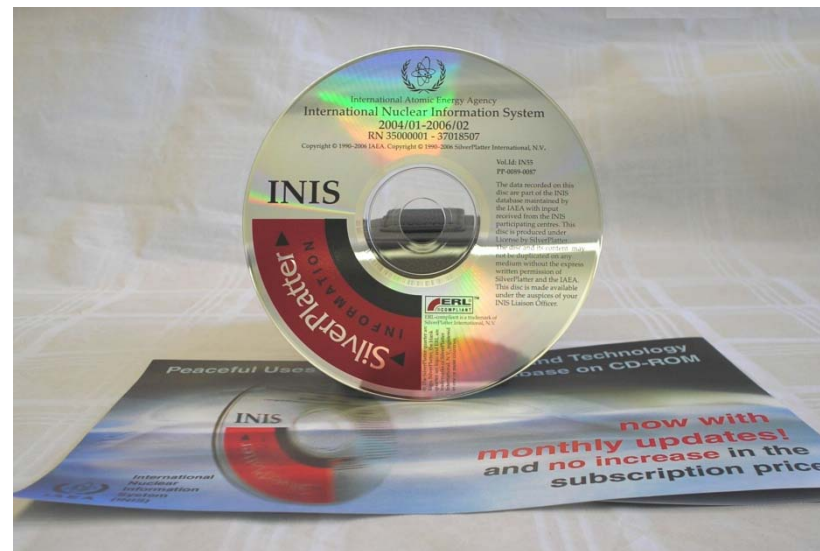
- From 1944 to the present
- Over 2.8 million indexed references
- English abstract
- "Direct links" to full-text documents

Available

on CD-ROM

and

on the Internet



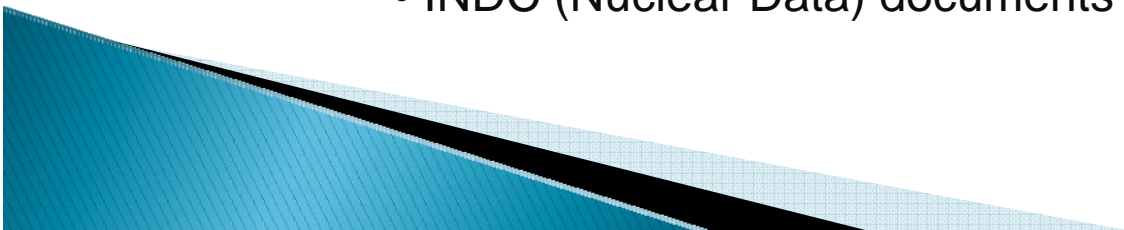
INIS NCL full-text collection

Contains over 700 000 documents
on microfiche and in electronic form (~40%)



Knowledge Preservation Initiatives:

- Digitization of the INIS NCL Microfiche Archive
- Digitization of the French CEA-R Microfiche Archive
- Production of topical subsets (Chernobyl, Fast Reactors, ...)
- Digitization of older IAEA publications and NCL documents that are not in INIS scope:
 - Documents of the IAEA Board of Governors (1957 – 1996)
 - IAEA Technical Reports Series
 - IAEA Bulletin
 - IAEA Conference Proceedings
 - INDC (Nuclear Data) documents



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For Nuclear Knowledge and Information

The Data Centre is Now in Nucleus

Nucleus is the one common access point to the IAEA's nuclear knowledge and information resources, including associated legal and official documentation. It includes scientific and technical documents, websites and databases. [Visit Nucleus »](#)

Looking for information from the old DataCentre?

All the resources in the former Data Centre are accessible via Nucleus. The first logical stop is the Nucleus Catalogue. This information resource catalogue currently contains over 100 of the IAEA's nuclear information resources. [Go there now »](#)

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Nucleus Portal to Scientific, Technical & Regulatory Information

The IAEA.org website is moving to expand access to the world of nuclear information. A nuclear portal -- named Nucleus -- is now available that incorporates, and facilitates access to more than 130 IAEA information resources, including all those now in the Data Centre.

Nucleus is being developed as the common access point to the IAEA's scientific, technical and regulatory information resources -- including documents, websites and databases. It includes features for users to customize the portal to their personal information needs and interests, and for contacting experts and specialized information sources on a wide range of subjects. View the [site](#), and send any feedback to nucleus@iaea.org.

Statistics & Forecasts

The raw numbers, as reported by IAEA Member States, help track national, regional, and global status and trends in nuclear energy's development and feed the IAEA's analysis and reports. [View the list](#)

IAEA Databases

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Technical Databases & Information Services

Scientists, teachers, students, and researchers worldwide turn to the IAEA for technical data, references, and bibliographies including the world's biggest digital nuclear reference centers in multiple fields of nuclear science and technology.

Nuclear Bibliographies & Data

International Nuclear Information System (INIS)
The world's biggest nuclear literature source. [View database >](#)

Nuclear Data Services
Comprehensive center for atomic, molecular and other technical data for nuclear physicists, engineers, and other specialists. [View database >](#)

Power Reactor Information System (PRIS)
General, design, and operating information on the world's nuclear power plants. [View database >](#)

Research Reactor Database (RRDB)
Administrative, technical and utilization information on the world's research reactors, training reactors, test reactors, prototype reactors and critical assemblies. [View database >](#)

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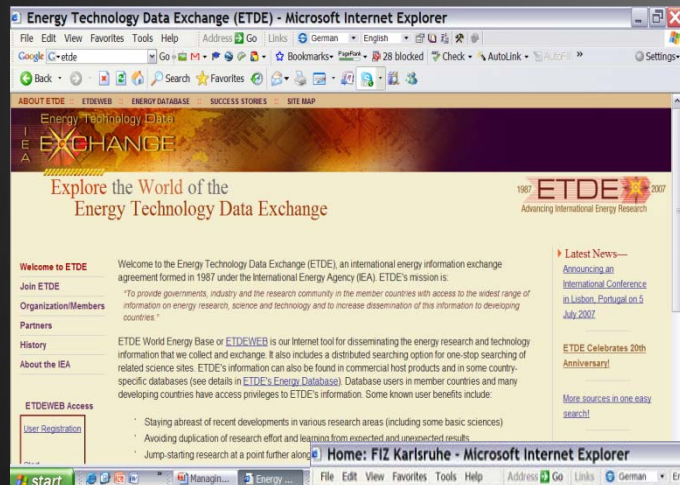
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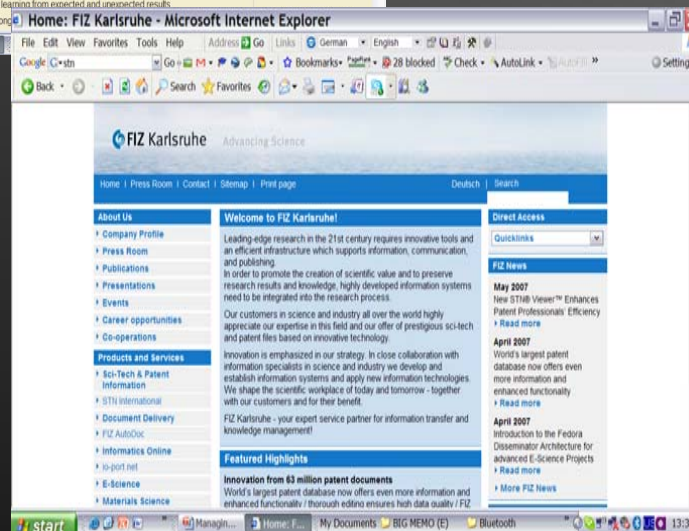
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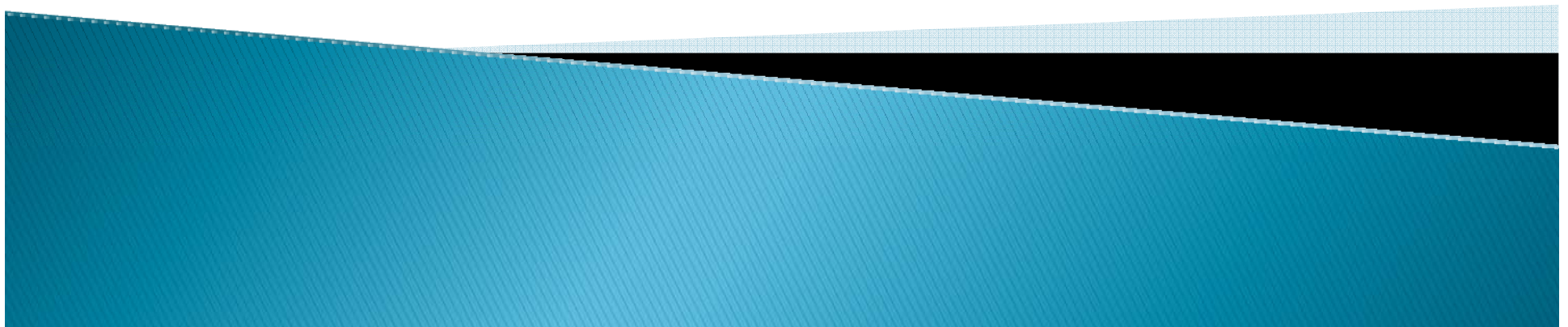
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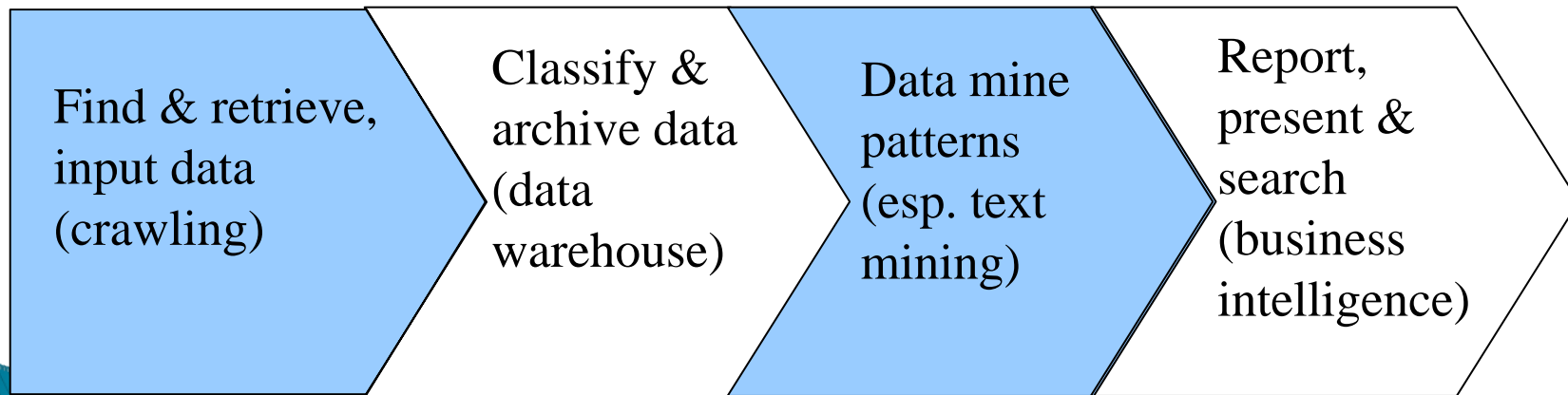


The World of Nuclear Information after INIS



Current Nuclear Information Management Systems & Life-Cycle

- ▶ Find & retrieve, input data (crawling)
- ▶ Classify & archive data (data warehouse)
- ▶ Data mine patterns (esp. text mining)
- ▶ Report, present & search (business intelligence)



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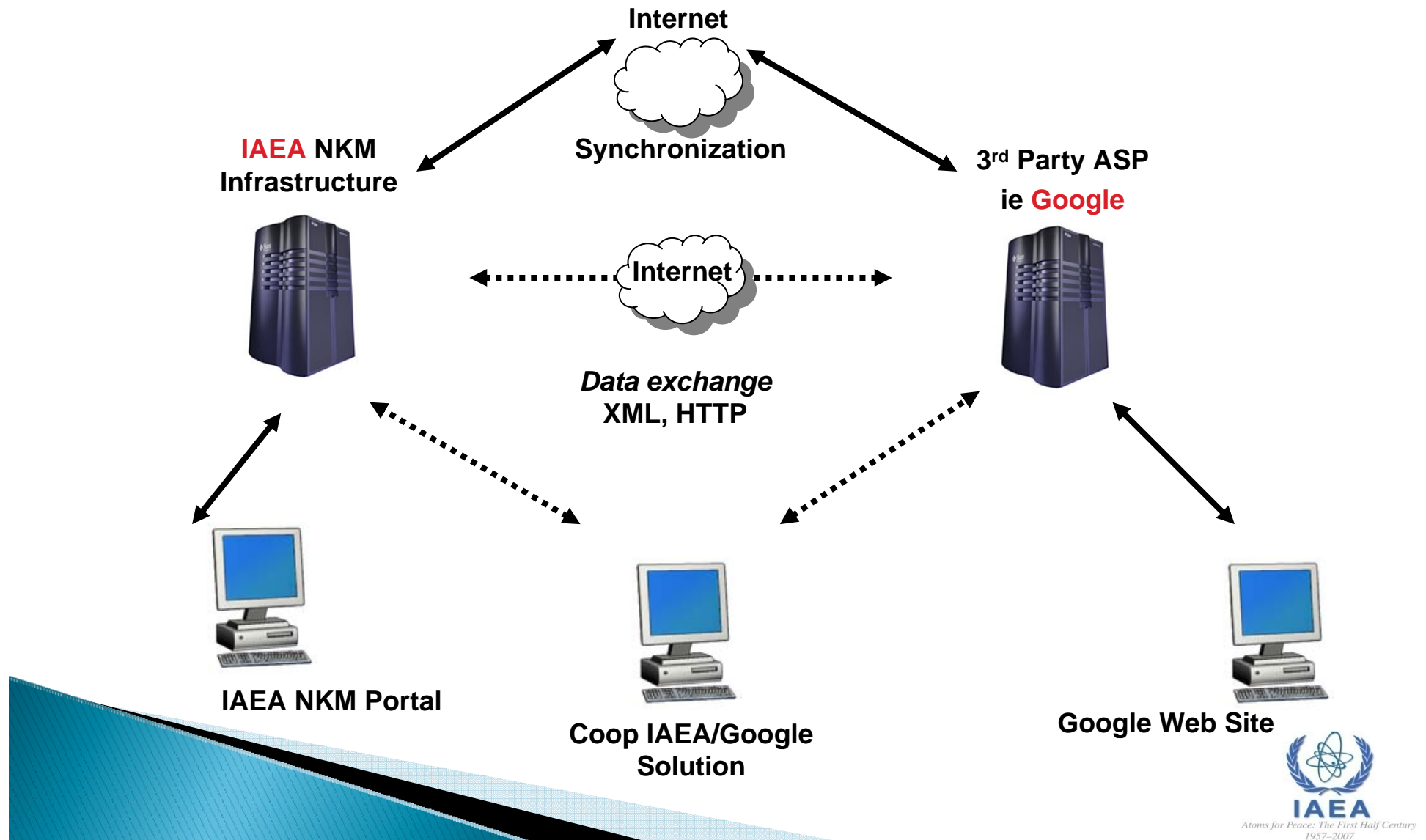
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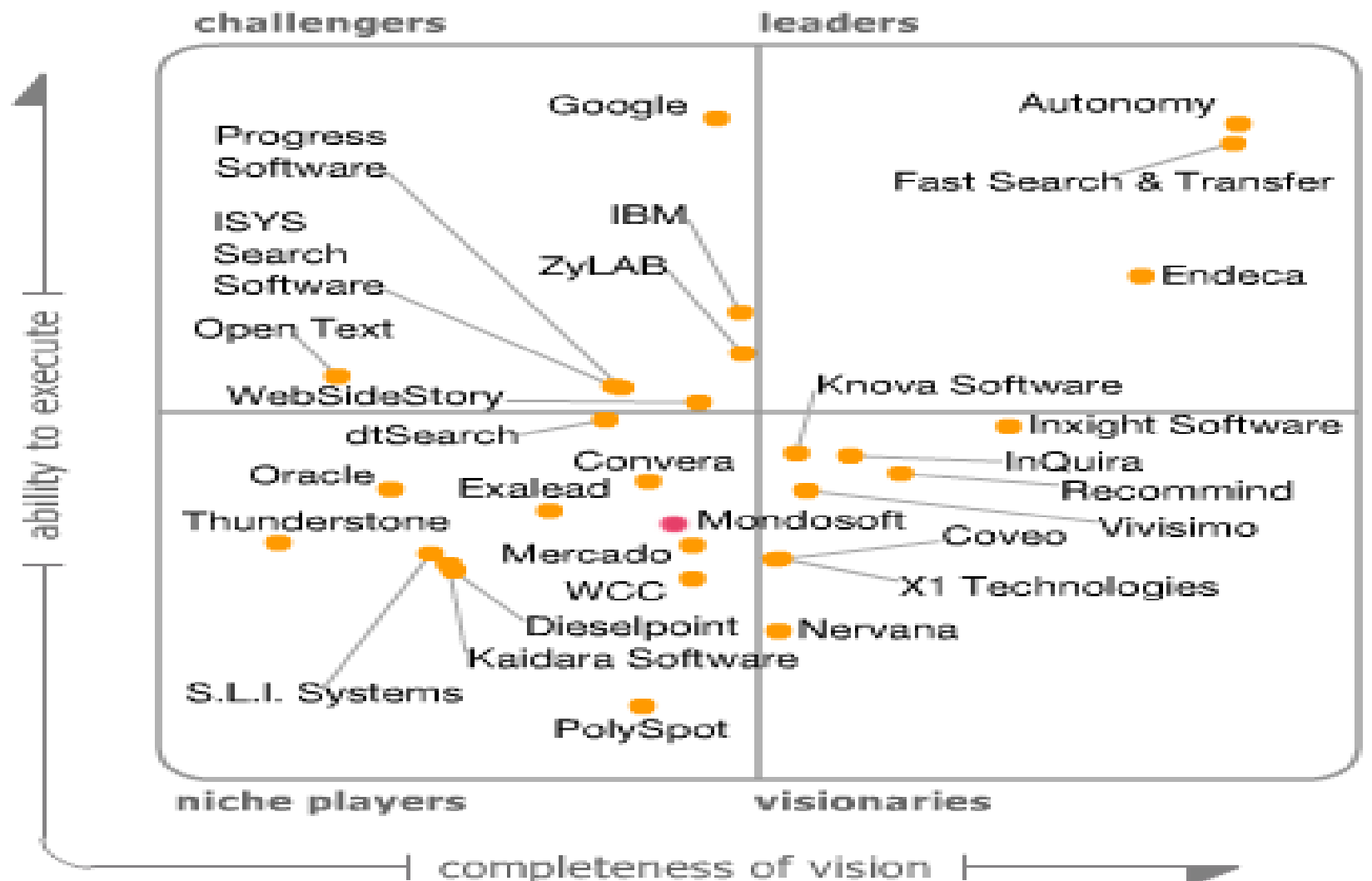
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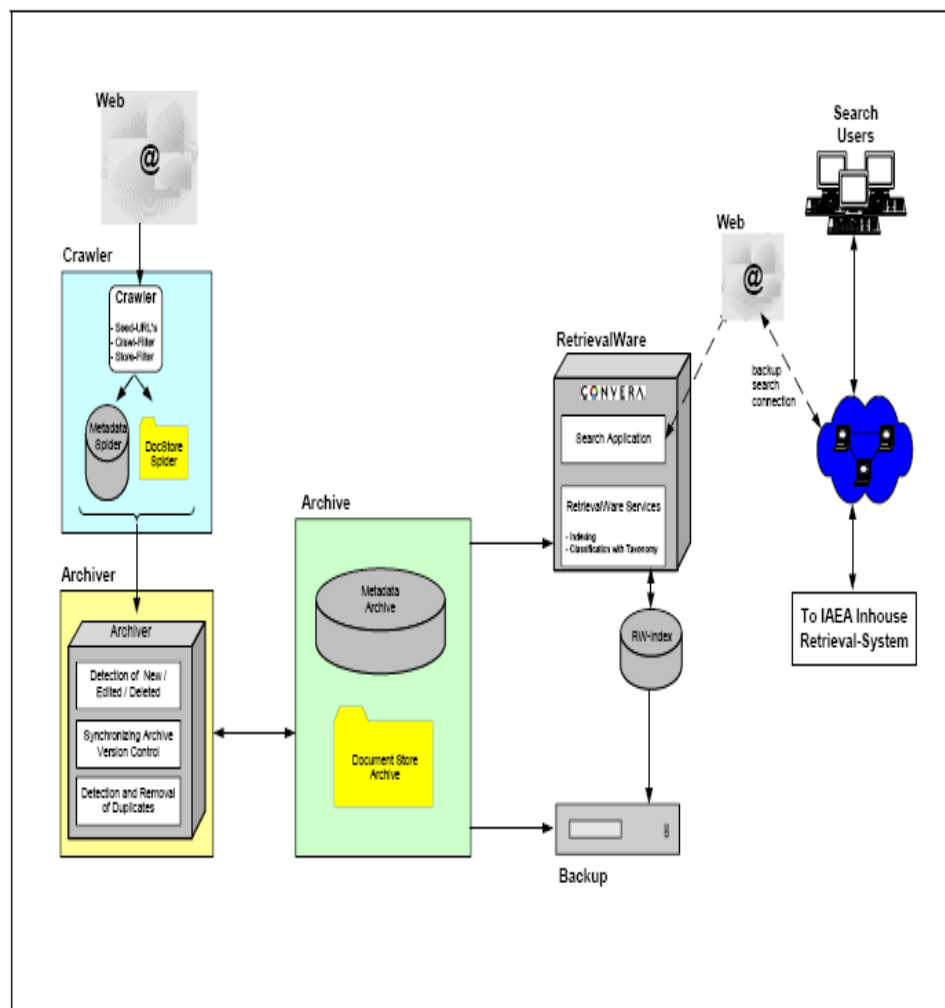


Search engines landscape



As of 1 August 2006

The “NuArch” project



NuArch basics

1. A web crawler will identify and download (harvest) nuclear information resources from the Internet.
2. The harvested materials will be automatically indexed and stored in a high-volume archive with version control.
3. A customised version of an advanced search engine will index all contents and make them accessible to the user.
4. Specialised analysis tools will be developed.

Thank you

