

15 Years of the European Nuclear Education Network (ENEN)

Academic Session

Knowledge Management and Networking Activities of IAEA

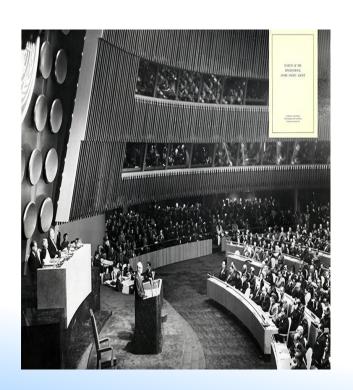
Huang Wei
Director, NEPIK, IAEA
March 1. 2018, Brussels

A Glimpse of IAEA



Inter-governmental
Organization within UN system,
established in 1957 by "Atom
For Peace".

New motto of "Atom For Peace and Development" since 2016



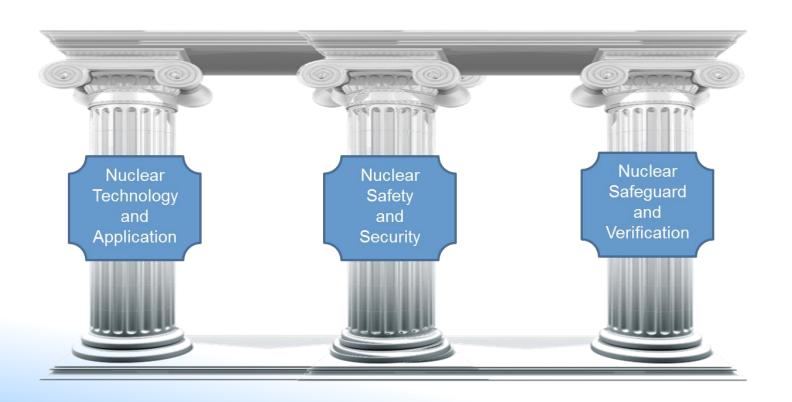


Headquarters in VIC,1979-present

Mandate



"The Agency shall seek to accelerate and enlarge the contribution of atomic energy to peace, health and prosperity throughout the world. It shall ensure, so far as it is able, that assistance provided by it or at its request or under its supervision or control is not used in such a way as to further any military purpose"



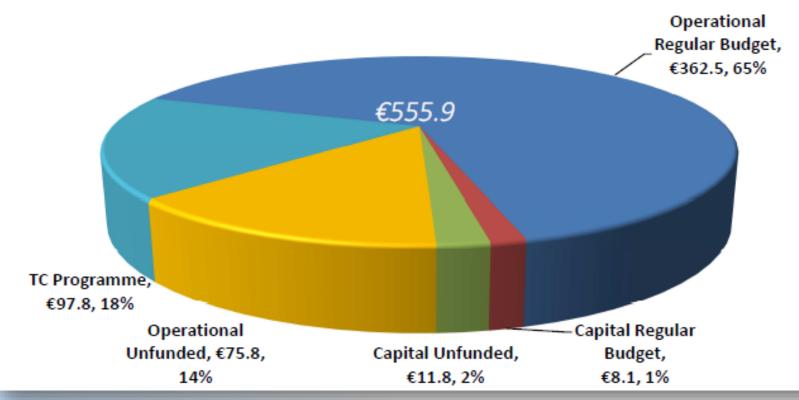
Budget at Glance



2018–2019 Programme and Budget at a Glance

2018 Total Resources at a Glance

(in million euros at 2018 prices)¹



Senior Management







DDG NE MP-1



DDG NA MP-2



DDG NS MP-3



DDG SG MP-4



DDG MT MP-5



DDG TC MP-6

Major Program-1





Section Head

Objectives:

- Provide scientific and technical support to Member States through provision of service, guidance and advice; facilitating discussion; and dissemination of data, information, and knowledge;
- Design and deliver training and help interested Member States to build capacity and to develop infrastructure necessary for managing a nuclear power and fuel cycle programme in a safe, secured and sustainable manner..

NEPIK, MP 1.3 with 4 sub-programs; Operational in March, 2016 after GC(58) resolution; Capacity building and knowledge management;

NKM Programmes



- Increased awareness and understanding of risks and challenges of KM in nuclear sector around 2000;
- ➤ Initiated by GC(44) resolution in 2000 and endorsed by GC(46) resolution in 2002;
- New sub-program added in 2002-2003 cycle(Maintenance of Knowledge in Nuclear Science and Technology);
- Cross-cutting nature recognized and embedded components in all major program;
- Activities focusing on guidance, education and training, and preservation of nuclear knowledge.

Nuclear Knowledge Management

"Knowledge is experience. Everything else is just information." (~Albert Einstein)

Priority of NKM



Six priority areas are recommended for immediate attention by the Agency:

- a. Integrating existing nuclear data and information bases (including those in Member States) in the form of an easily accessible "Nuclear Knowledge Portal".
- b. Promoting networking of institutions for nuclear education and training in Member States in co-ordination with existing activities.
- c. Developing guidance documents on the preservation of nuclear knowledge.
- d. Implementing targeted preservation of knowledge projects.
- e. Designing and implementing outreach activities to improve the general knowledge in society of the benefits of nuclear science, technology and applications.
- f. Facilitating the development of curricula for internationally accepted higher university degrees on "nuclear technology", e.g. by networking universities.



NKM Activities













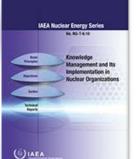




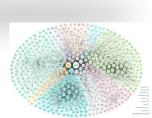








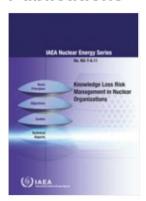




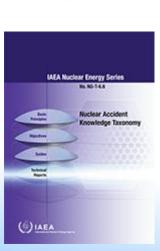
NKM Publication



Publications



Knowledge Loss Risk Management in Nuclear Organizations



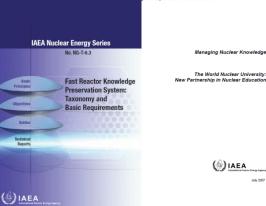


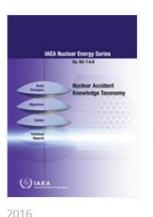
Development of
Knowledge Portals for
Nuclear Power Plants



Knowledge
Management for
Nuclear Research and
Development
Organizations

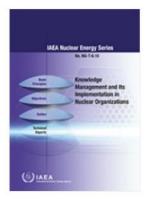
2016



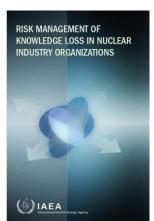


Nuclear Accident Knowledge Taxonomy





2016
Knowledge
Management and Its
Implementation in
Nuclear Organizations





2013
The Impact of
Knowledge
Management Practices
on NPP Organizational
Performance — Results





ABOUT

RESOURCES



Cyber Learning Platform for Network Education and Training (CLP4NET) is an online platform that allows users to find educational resources easily and contains a learning environment to support instructor-led courses and disseminate e-learning self-study resources to a wider audience. The use of the IAEA's platform is provided as a cost-free service to all of the IAEA and its cooperation partners.

Self-directed Learning Management System Instructor-led Learning Management System Integrated Database on Education and Training



Making self-learning materials available online to a wider audience



To support and enhance instructor-led training courses for closed groups of participants



Finding educational resources and opportunities easily, using an advanced search

Click the logos below to visit the websites of Nuclear Education Networks











http://clp4net.iaea.org

Cyber Learning Platform For Network Education and Training (CLP4NET)

Utilizing e-learning technologies and methods to make nuclear knowledge more broadly available in a modern, effective and efficient manner

as of January 2018



Education and Training



- > Deliver and assist in educational programmes
 - Nuclear Energy Management School, 2-week program targeted at junior and mid-career professional in nuclear sector for future leadership;
 - Nuclear Knowledge Management School, one week certified course on specialized training in development and implementation of KM program in nuclear organization;
 - INMA International Nuclear Management Academy, IAEAfacilitated masters programme in Nuclear Technology Management).

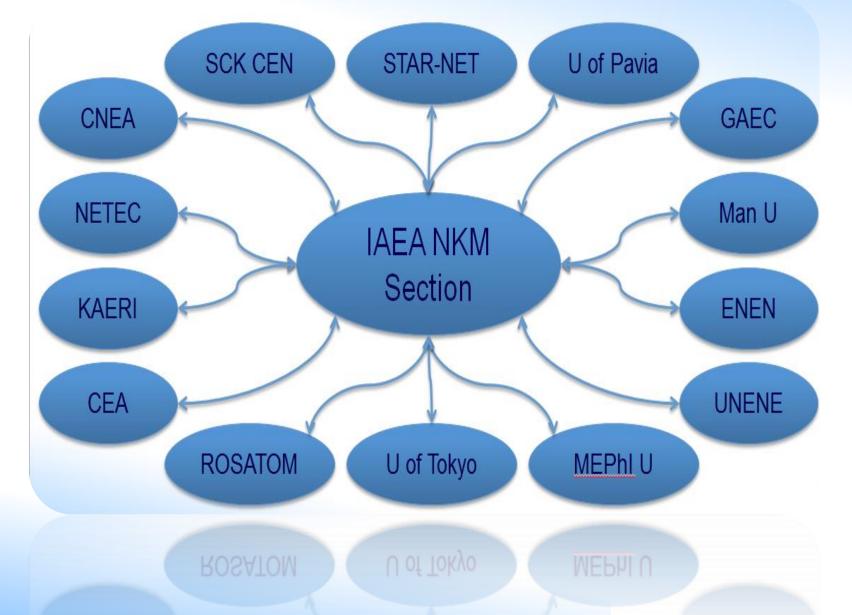




INMA: 2 member; 6 peer review, 10 assist visit.

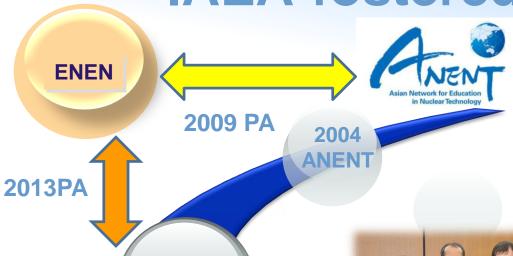
Partnership





IAEA-fostered Networking









2010 LANENT



LANENT

2013 **First** Collaboration **Agreement**



and Training in Nuclear Technology

2015 **STAR-NET**

2017 Renewed Collaboration **Agreement**













2009 PA

ENEN and IAEA



94 2009

PRACTICAL ARRANGEMENTS BETWEEN
THE INTERNATIONAL ATOMIC ENERGY AGENCY AND

THE EUROPEAN NUCLEAR EDUCATION NETWORK ASSOCIATION TO SUPPORT THE ASIAN NETWORK FOR EDUCATION IN NUCLEAR TECHNOLOGY (ANENT)

These Practical Arrangements are made between the International Atomic Energy Agency (nevionabler referred to as the "IABA") and the European Nuclear Education Network Association (nevinabler the "ENIN"), hereinafter referred to individually as "the Party" or collectively as "the Parties".

The Asian Network for Education is Nuclear Tectonology (Institution Ferrica of a site "NNNTY) is a regularly hardwarfs for copyration in capacity backling and human resource development, including obsession and trainfails in some control of the copyration of the c

The ENEN is a non profit international organisation under French Law, aiming at the preservation and the further development of expertise in the nuclear field by higher education and training.

- In order to enhance the bilisteral cooperation between the ENEN and the IABA to support the ANENT in the field of research, education and training in nuclear science and technology (hercialler, "the Field"), the Parties have reached an understanding on the following modalities of cooperation:

- to promote and to eminately suspect activities in the Field; to help prevent diminishing capacities in teaching and retain knowledge in the Field; the catablest trans-actional cooperation among universities and institutions in the Field, so as to achieve high quality education and training up to international standards.

- The specific means of cooperation may include the following:

 shuring of information on any relevent activities in the Field among the Parties;
 identifying specific fields of common informat;
 ontabilishing a platificant to promote, discuss and coordinate activities and the results them.
 - unavot; organizing joint meetings, symposia, workshops, summer schools and/or internships;

 - internships; developing joint publications and materials; promoting scatternic and scientific research; salverthing Parties' activities among their members and partners including Parties'









PRACTICAL ARRANGEMENTS

between

THE INTERNATIONAL ATOMIC ENERGY AGENCY

EUROPEAN NUCLEAR EDUCATION NETWORK ASSOCIATION

COOPERATION IN THE AREA OF REGIONAL NETWORKING

RESEARCH, EDUCATION, TRAINING, AND OUTREACH

NUCLEAR SCIENCE AND TECHNOLOGY

2013 PA, Renewal in 2016

Forward Looking



- Knowledge manage is a key to ensure safe, secured and sustainable development of peaceful uses of nuclear energy;
- NKM issues and challenges are observed and should be addressed in a collective manner globally, including networking;
- ➤ More cooperative opportunities between IAEA and ENEN are foreseen and can be reflected in the process of PA renewal.

Nuclear Knowledge Management

"Knowledge is experience.

Everything else is just information."

(~Albert Einstein)



Thank you!

