

ANSN

ASIAN NUCLEAR SAFETY NETWORK

“Pool, Analyze and Share Nuclear Knowledge”

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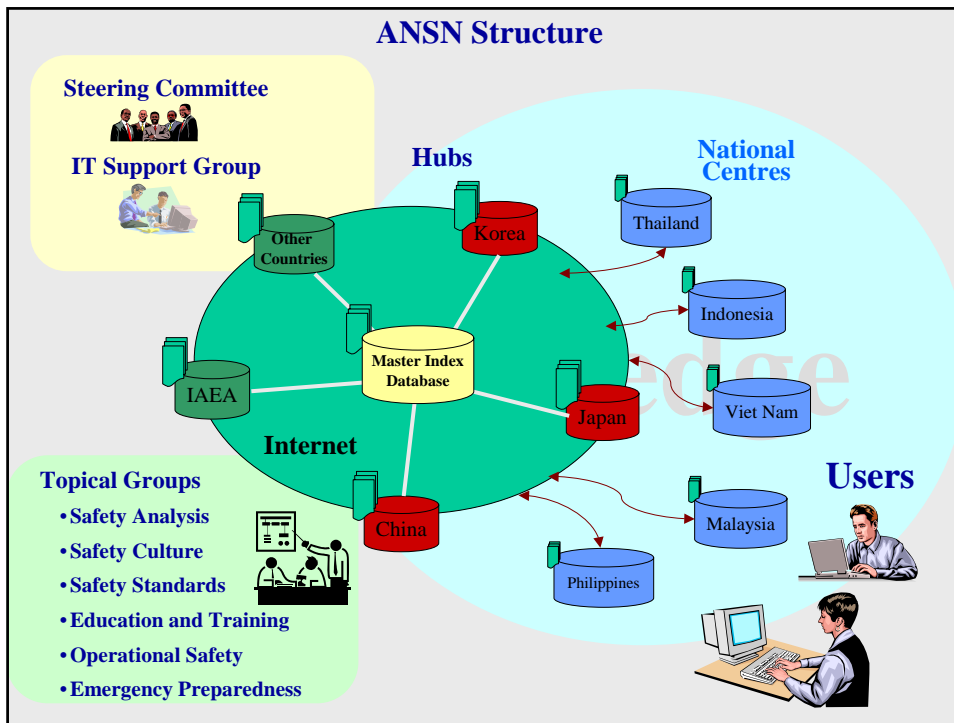
IAEA
International Atomic Energy Agency

Objectives

“The objective of the ANSN is to pool and share existing and new technical knowledge and practical experience to further improve the safety of nuclear installations in Asia. The model could be further used for other regional nuclear safety networks and, eventually, for a global network “



IAEA



Implementation Phases

Phase I

2002: Planning & Analysis

Phase II

2003: Pilot Project Implementation

Phase III

2004 and beyond: Full Implementation

Phase I

2002 Planning and Analysis:

- Identify scope, requirements, required resources
- Draft Taxonomy, Metadata, Document Structure
- Develop Prototypes



Phase II

2003: Develop Pilot Project

- Focus on Education & Training
- Form Project Teams
- Agree on Database Design, Taxonomy, Metadata, Communication and Information Sharing
- Design Data Base (common for all Hubs)
- Develop Web Sites



Phase III

Full Implementation:

- Develop Automatic Data Exchange
- Develop Single Sign-On
- Add data from All Hubs
- Evaluation, Lessons Learned
- Implementation of National Centers
- Further automation and improvements
- Development of Topical Groups
- Other Similar Networks (Ibero American)



Topical Groups

Active Topical Groups

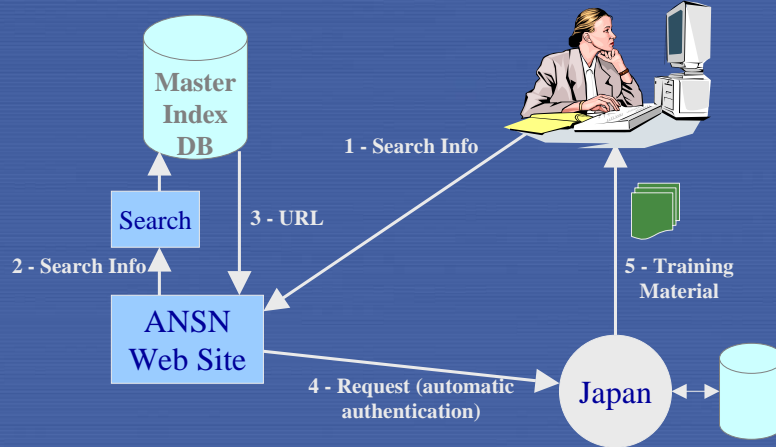
- Education and Training
- Safety Analysis
- Operational Safety
- IT Implementation

Planned

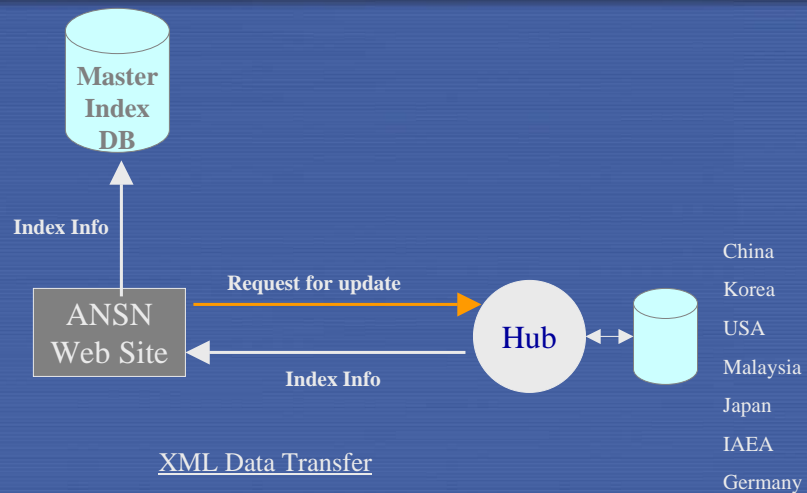
- Safety management for Research Reactors
- Emergency Preparedness
- Safety Standards



Concept (Information Search and Retrieval)



Concept (Index Synchronization between MI and Hubs)



Taxonomy Definition

“Taxonomy (from Greek *taxis* meaning arrangement or division and *nomos* meaning law) is the science of classification according to a pre-determined system, with the resulting catalog used to provide a conceptual framework for discussion, analysis, or information retrieval.”



Taxonomy Groups

3 Groups:

- Activity Areas
- Technical Areas
- Facility Types



Activity Areas

1. Legal Framework for Safety
2. Regulatory Processes and Practices
3. Quality Assurance & Management
4. Emergency Preparedness
5. Physical Protection & Security
6. Personnel Qualification
7. Research & Development
8. International Co-operation
9. Safety Culture
10. Public Communication
11. Safety Documentation
12. Others



Technical Areas

1. Basic Nuclear Technology & Engineering
2. Materials Technology
3. Nuclear Facility Planning & Design
4. Safety Analysis & Assessment
5. Facility Construction & Commissioning
6. Facility Operation & Maintenance
7. Fuel Technology
8. Spent Fuel & Radioactive Waste Management
9. Safe Shutdown & Decommissioning
10. Others

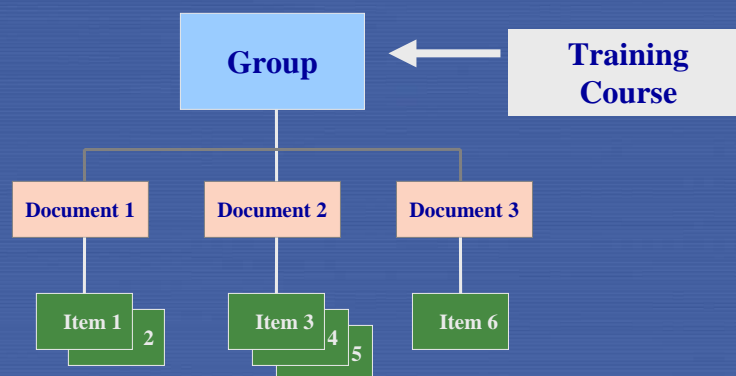


Facility Types

1. Power Reactors
2. Nuclear Fuel Cycle Facilities
3. Research Reactors
4. Other Nuclear Facilities



Structure of Index Database



Group Information (Meta Data)

- Course Title
- Description
- Organization
- Technical Area
- Activity Area
- Facility type
- Date
- Node (location)

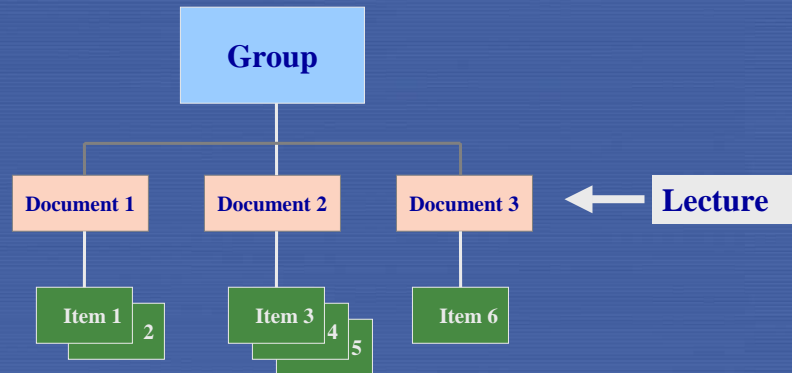


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Structure of Index Database

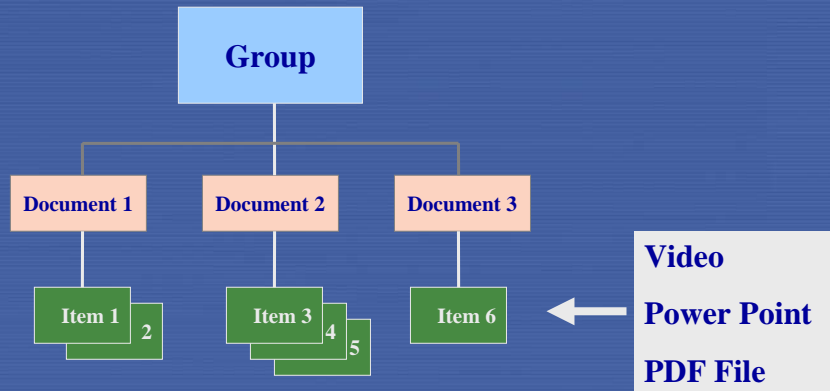


Document Information (Metadata)

- Title
 - Abstract
 - Keywords
 - Technical Area
 - Activity Area
 - Facility type
 - Organization
 - Author
 - Last Update
 - Node
- } Taxonomy



Structure of Index Database



Item Information (Metadata)

- Language
- Format
- Location (URL to file)
- Size (KB)
- Remarks
- Last Update



Current Status (sites)

- ANSN Web sites in
 - Korea
 - Japan
 - China
 - USA
 - IAEA
 - Germany
 - Indonesia
 - Malaysia
 - Philippines
 - Thailand



Current Status (features)

- Web Site & Database
- Simple & Advanced Search
- Single Sign-On
- Automatic Data Exchange
- 22 Training Courses
- 339 Lectures



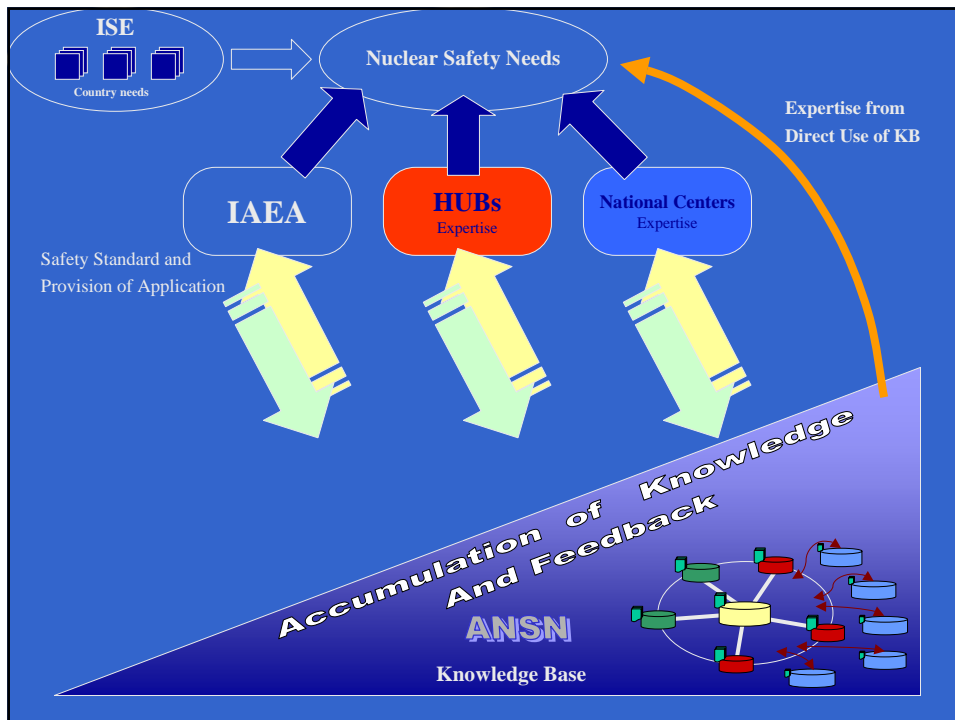
Other Related Projects

- **Ibero American Network**

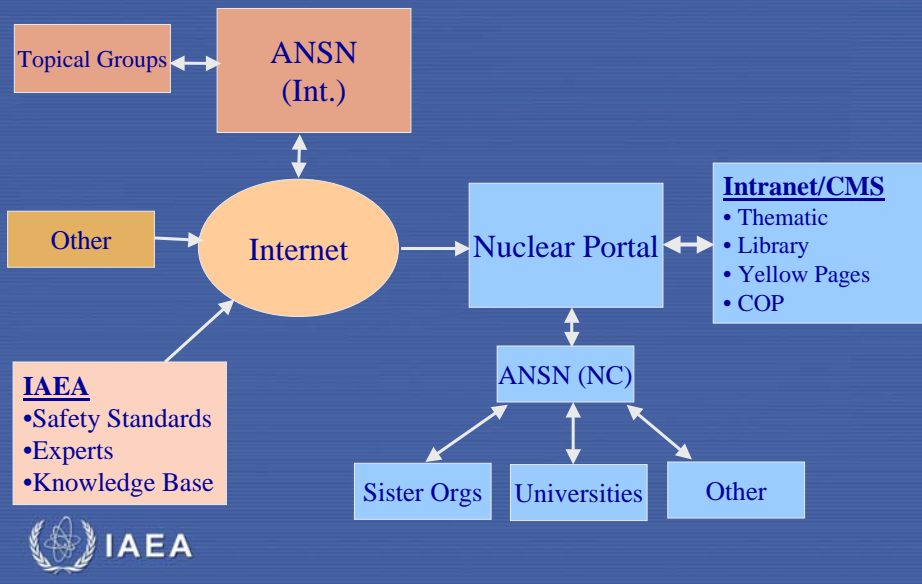
Knowledge sharing in the area of Radiation Protection in the Latin American region

- **APMD (EBP Asia DB)**

Task Management system for projects under the IAEA Extra Budgetary Programme



Consolidated System



DEMO

Of Asian Nuclear Safety Network

