**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.”
Knowledge

Users

Steering Committee
IT Support Group

Topical Groups
• Safety Analysis
• Safety Culture
• Safety Standards
• Education and Training
• Operational Safety
• Emergency Preparedness

National Centres

Internet

Hubs

Master Index Database

Other Countries

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ANSN Structure

Implementation Phases

Phase I
2002: Planning & Analysis

Phase II
2003: Pilot Project Implementation

Phase III
2004 and beyond: Full Implementation

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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 Database (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)

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Topical Groups

**Active Topical Groups**
- Education and Training
- Safety Analysis
- Operational Safety
- IT Implementation

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

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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.”

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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

- Document 1
  - Item 1
  - Item 2

- Document 2
  - Item 3
  - Item 4

- Document 3
  - Item 5
  - Item 6

Training Course
Group Information (Meta Data)

- Course Title
- Description
- Organization
- Technical Area
- Activity Area
- Facility type
- Date
- Node (location)
Structure of Index Database

Document Information (Metadata)

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

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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