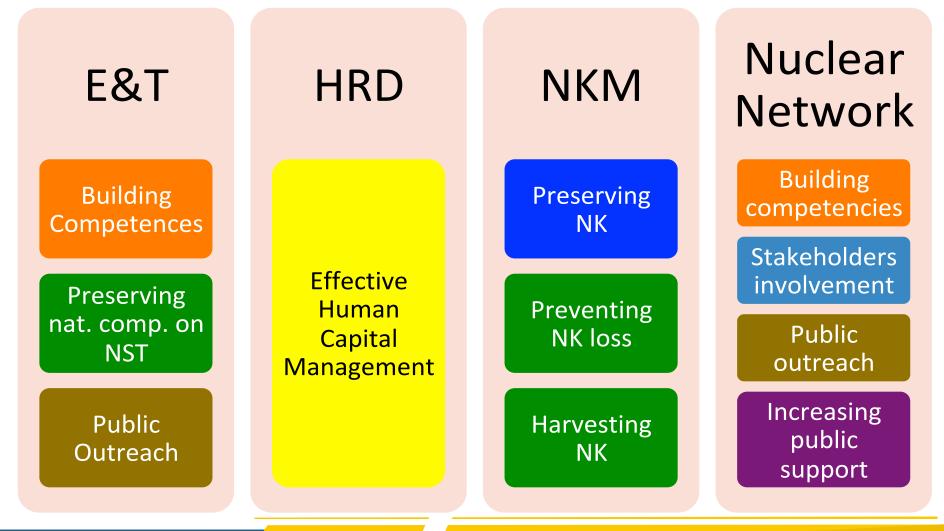
# INPLEMENTATION OF NUCLEAR KNOWLEDGE MANAGEMENT IN BATAN

Sudi Ariyanto ANSN ETTG Meeting Jakarta, June 2018 batan MENGABDI UNTUK NEGERI

# WHY WE IMPLEMENT NKM?



www.batan.go.id

Based on the IAEA concept on capacity building





We realize....

A prerequisite for continuous sustainability of nuclear science and technology

Future nuclear technologies, research, development, and applications depend on knowledge management and transfer

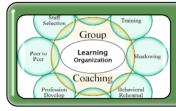


# WHAT ARE OUR OBJECTIVES?

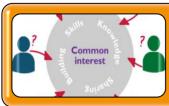




Increasing the capability in managing intellectual assets (Knowledge and Experience)



Attaining a strong and superior nuclear knowledge- based learning organization;



Making the nuclear knowledge and "knowhow" visible and interchangeable



Transfering nuclear knowledge and knowhow between current and future generations

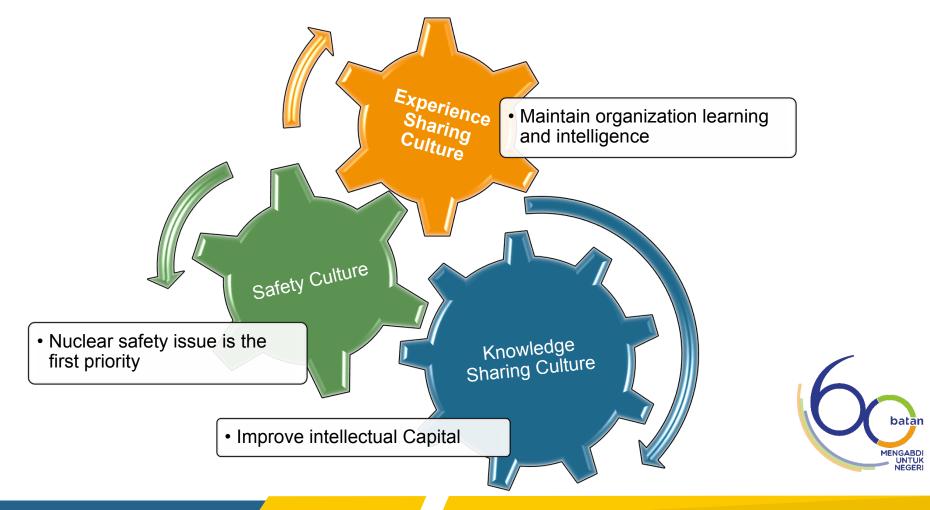


Stimullating young generation interests









WHAT INFRASTRUCTURES WE HAVE?





# Center for Education and Training



### **Research Centers**



#### **Exhibition Center**



### Website: BATAN & Centers







### INTERNAL CHALLENGES

#### Extensive Attrition

Ageing of Workforce

#### **Brain Drain**

#### Knowledge gap

#### STRATEGIES

Maintaining and preserving the existing nuclear knowledge

Encouraging nuclear knowledge sharing

Developing effective and innovative training program

Accelerating the learning of the junior staffs

UNTU





#### EXTERNAL CHALLENGES

declining interest in the wide scale use of nuclear energy.

decreasing of young generation interest in nuclear technology

decreasing of potential application of nuclear techniques in Industry, medicine, agriculture etc

### STRATEGIES

Dissemination of Information

NST Competition for Students

On the Job Training for Students

Special course on Nuclear Technology & Application

# WHAT WE HAVE DONE?



batar



## **Signing Written NKM Implementation Policy**

OManagement Commitment and Support

# WHAT WE HAVE DONE?



### Establishing BATAN NKM Team

- Developing guidance for NKM implementation
- Conducting competence mapping
- Identifying critical knowledge
- Developing Nuclear Knowledge portal

### Establishing Center's NKM Team

- Developing NKM Program in their center
- Coordinating center's NKM activities







### **Competence Mapping**

• Mapping on defined 6 areas of BATAN Competence

Identification of Critical Knowledge within each competence Domain

• 132 Critical Knowledge were Identified

Identification of Potential Loss Critical Knowledge

• Currently in progress





# **KNOWLEDGE DOCUMENTATION**



**BATAN** Digital Library

http://digilib.batan.go.id/

**BATAN E-Repository :** 

http://repo-nkm.batan.go.id/



**BATAN e-Journal** 

http://jurnal.batan.go.id/



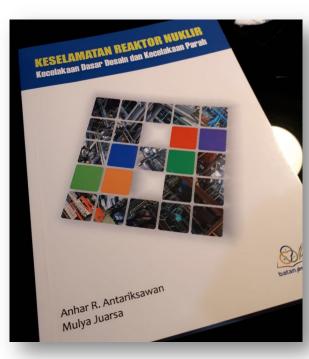
Pusdiklat Learning Management System http://layanan.batan.go.id/elearning/moodle/







# KNOWLEDGE CAPTURE (for critical knowledge)



Storytelling

Structured Interview

**Experience Report** 

**Knowledge Publication** 







### **KNOWLEDGE SHARING**

# Regularly Scheduled in all Centers

Mandatory for Staff after attending a training or education

Encourage a thematic knowledge sharing for certain subject

### **SUCCESSION PLANNING**

#### BATAN TALENT MANAGEMENT



- Identify those with the potential to assume greater responsibility
- Engage the leadership in supporting the development of high-potential leader
- Build a database to make better staffing decision







# **COMMUNITY OF PRACTICE**



COP is encouraged to be formed within a center or within a community

- COP of NKM
- COP of Safety culture
- COP of Experimental Power Reactor
  - COP of Advanced NDT



# KNOWLEDGE TRANSFER METHODS



# Transfer of *explicit knowledge*

Formal Education Program

**Training Program** 

Seminars, workshops etc,

# Transfer of tacit knowledge

Coaching and Mentoring

Shadowing

on the-job-training, etc.



# **COOPERATION PROGRAM**





### Conducting Joint Training Course with Foreign as well as domestic institutions



### Scientists Exchange Program (JAEA, Malaysia, France, etc)

