

# A Coordinated Approach to Nuclear Knowledge Transfer



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- 02 Elements of NKM
- 03 NKM Assessment
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- 05 UAE Coordination
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ENEC  
Corporate  
Staff

Nuclear  
Operator  
Plant  
Staff

Regulator  
Staff

Education  
Staff

# The Challenge

*Building a competent human  
resource through efficient  
Nuclear Education and Training  
is the critical element of any  
future nuclear development  
strategy*

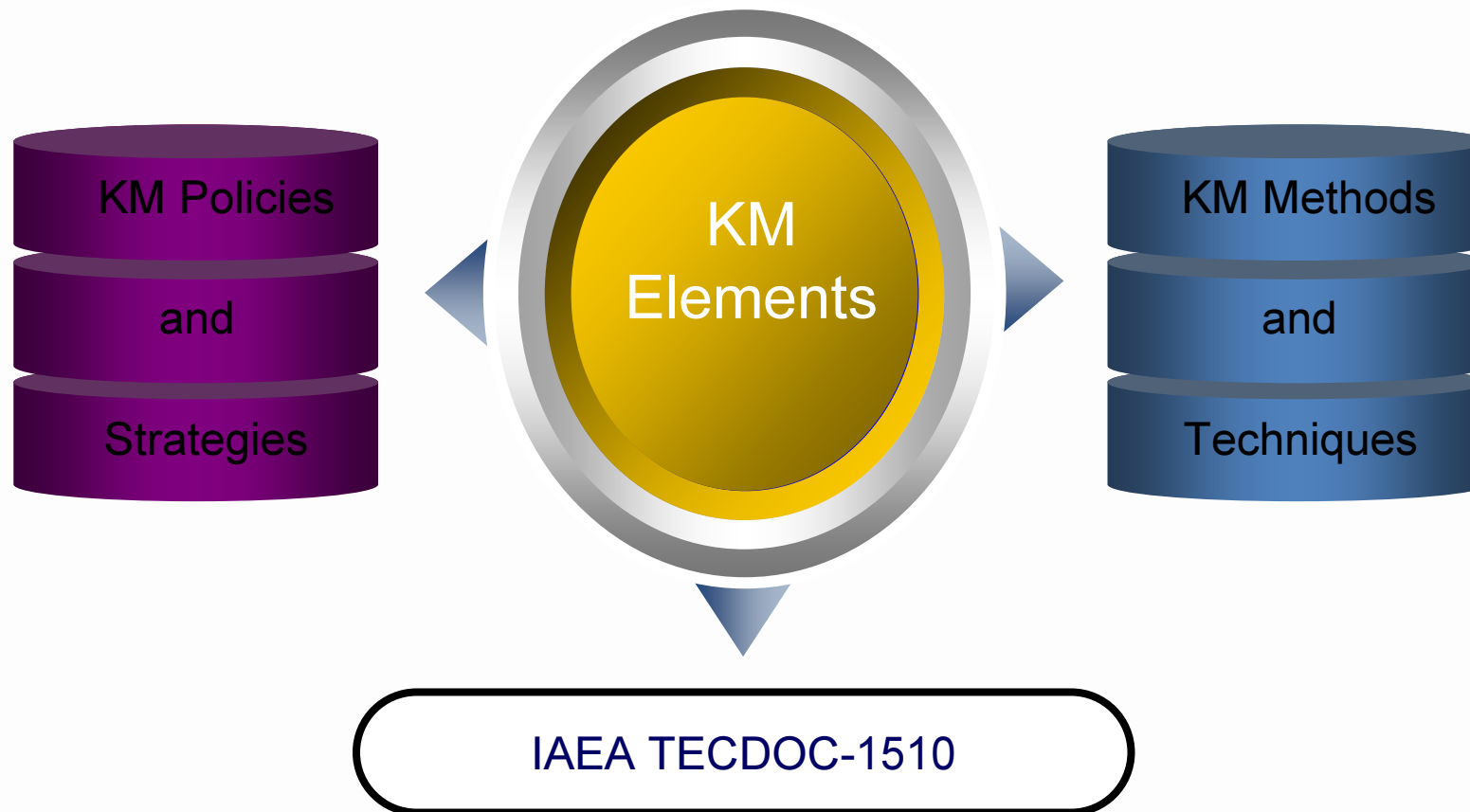
*"Yanko Yanev, IAEA"*

2008

2020

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# Knowledge Management Elements



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# IAEA KM Assessment for Nuclear Organizations

Policy/Strategy

Human Resource (HR)  
Planning and HR  
Processes

Methods, Procedures  
& Documentation  
Processes

Technical (IT)  
Solutions

Approaches to Capturing  
Tacit Knowledge

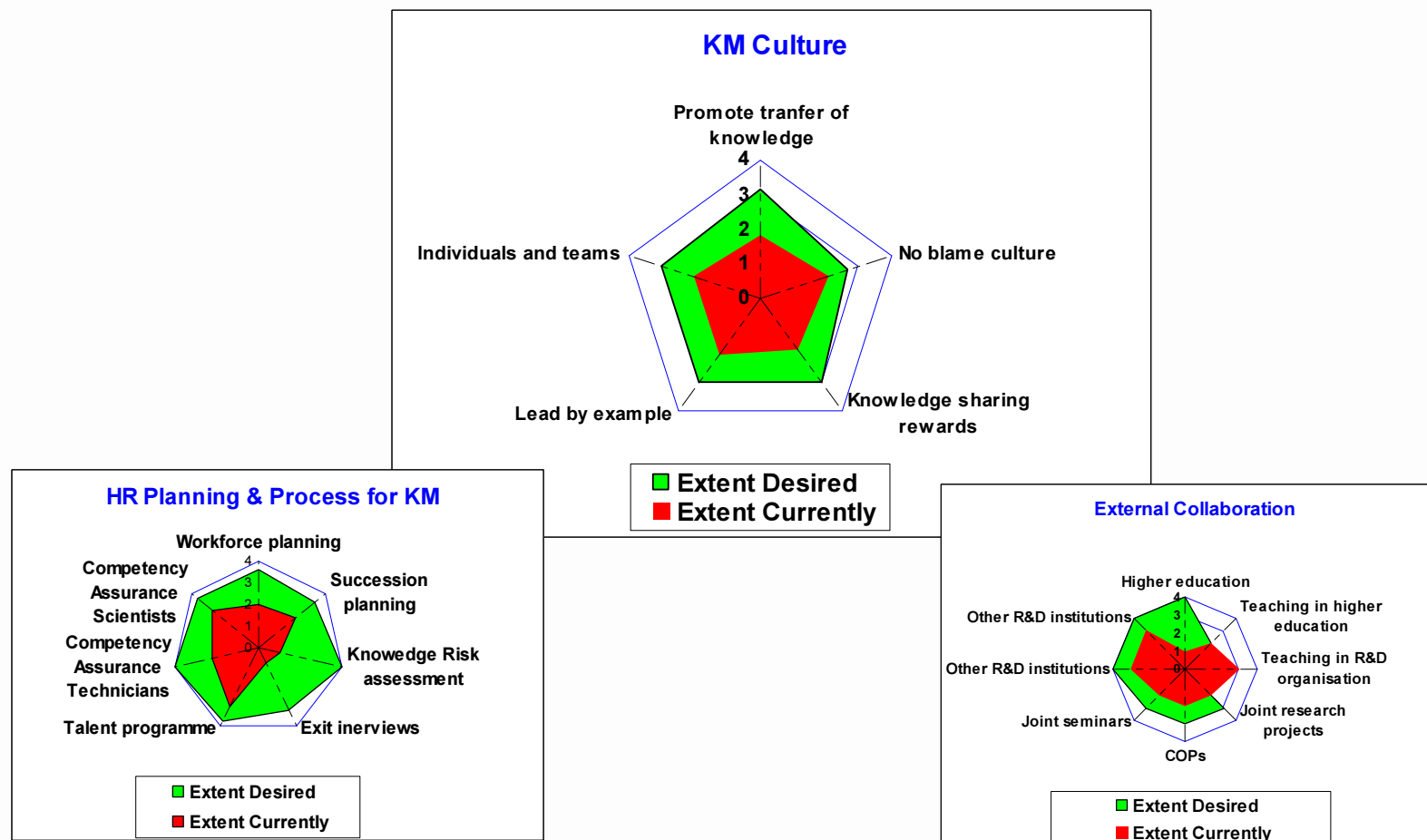
KM Culture/Workforce  
Culture

Competence  
Development

External  
Collaboration

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# Knowledge Management Elements



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# An Integrated Approach to Capacity Building

## Create a Talent Pool for Emiratization of the Nuclear Industry



## Fill the Talent Pipeline with Technically Qualified Local Expertise

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# Staffing – The Knowledge Transfer Challenge

Strategy Creates Talent Pool for Emiratization of the Nuclear Industry

Requirements

ENEC  
Corporate  
Staff

Nuclear  
Operator  
Plant  
Staff

FANR  
Staff

Education  
Staff

UAE  
Nuclear  
Industry

Staffing  
Ranges\*

200  
to  
400

1100  
to  
1300

135  
to  
165

30  
to  
40

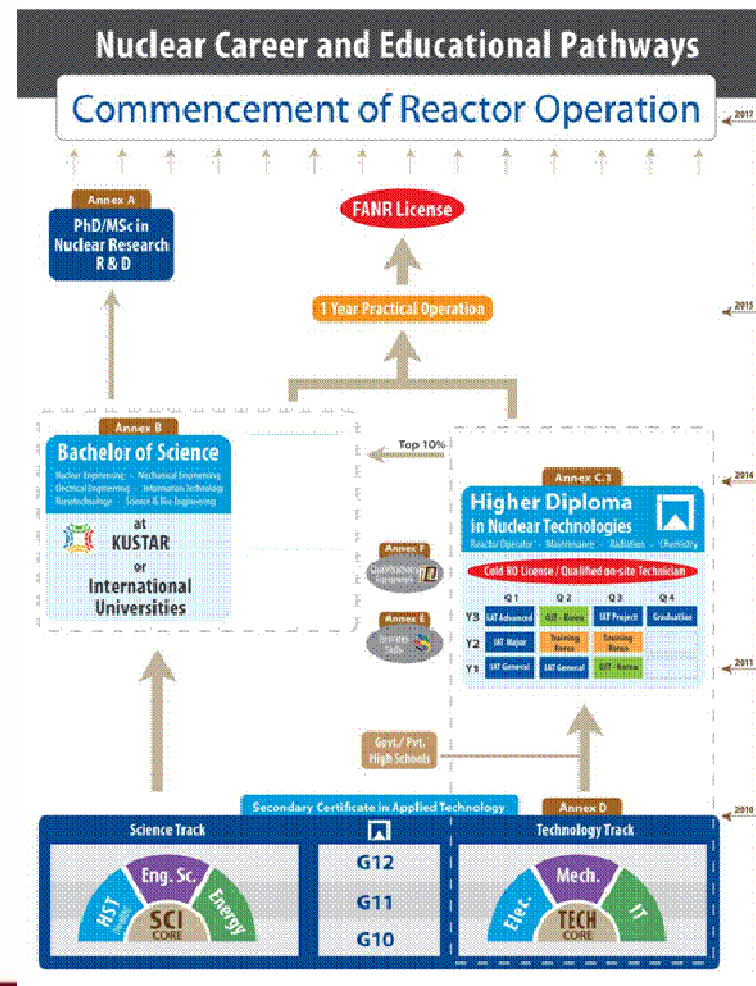
To Be  
Determined

An Initial Opportunity Estimate of 2100 to 2300 Staff by 2020

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# The Skills Roadmap



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# The UAE Nuclear Energy Scholarships

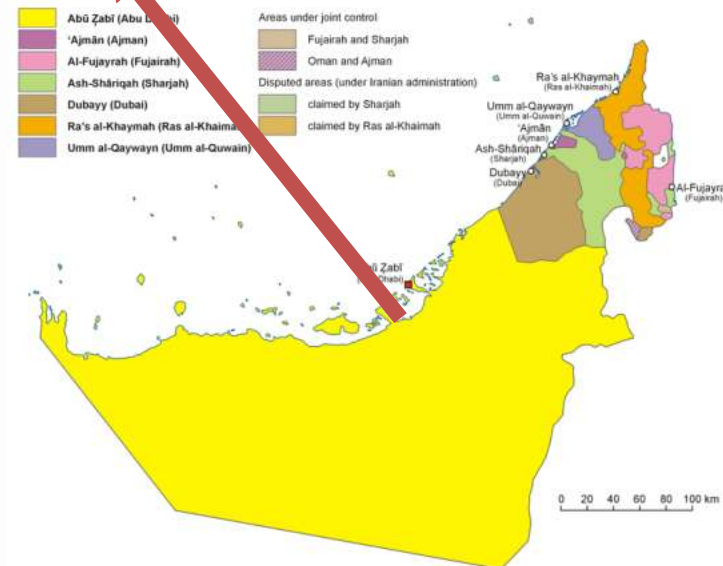
## Capacity Building Scholarships

Central to UAE Capacity Building effort

- Applies to both Bachelors and Masters degrees
- Students receive full tuition and benefits
- Expectation of working in FANR/ENEC/KUSTAR upon graduation



National and International



# Korean Dimension

## Programs

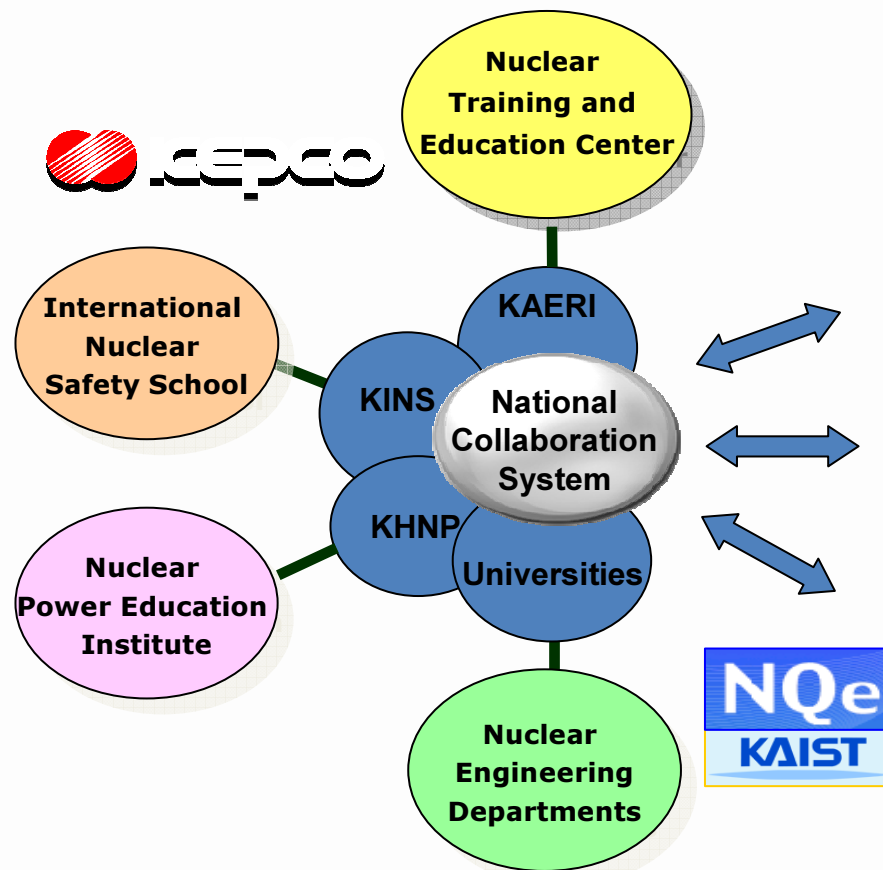
- Nuclear Power Tech.
- Nuclear Fuel Cycle
- Research Reactor
- Radiation Tech.

- Safety Assessment
- Licensing
- Inspection

- Project Management
- Operation
- Maintenance

- Programs for BS, MS and PhD Degree

## National Collaboration



## UAE Collaborations

ENEC

FANR

KUSTAR

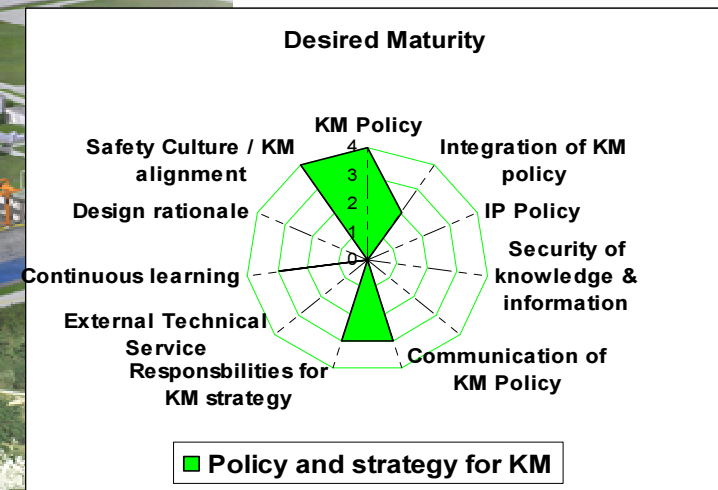


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# Knowledge Management Elements

## Are we there yet?



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Thank you

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