



Origin of Capacity Building and the Umbrella Approach Concept, Definition and Methodology for Self-Assessment

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Shahid Mallick, Director

**Office of Nuclear Safety and Security Coordination
Department of Nuclear Safety & Security
International Atomic Energy Agency**

Capacity Building

- **Member States with NPPs and those embarking** to strengthen, develop, maintain and implement their capacity building programmes
 - Programme uses **existing capacity** building infrastructures
 - Expected outcome is to continuously ensure **sufficient** and **competent** human resources necessary to assume their responsibility
- **IAEA to assist as requested**

What is Capacity Building?

- The term capacity building emerged in the lexicon of international development during the 1990s.
- Today, “capacity building” is included in the programs of most international organizations.
- Wide usage of the term has resulted in controversy over its true meaning.
- Need to define capacity building within the context of each organization.





GOVERNMENT

REGULATORS



Operators

TSOs

**EDUCATIONAL
INSTITUTIONS**



Capacity building



Capacity Building: Definition

A systematic and integrated approach to develop and continuously improve governmental, organizational and individual competences and capabilities necessary for achieving safe, secure and sustainable nuclear power programme.

Approach for the Self-Assessment of National Capacity Building

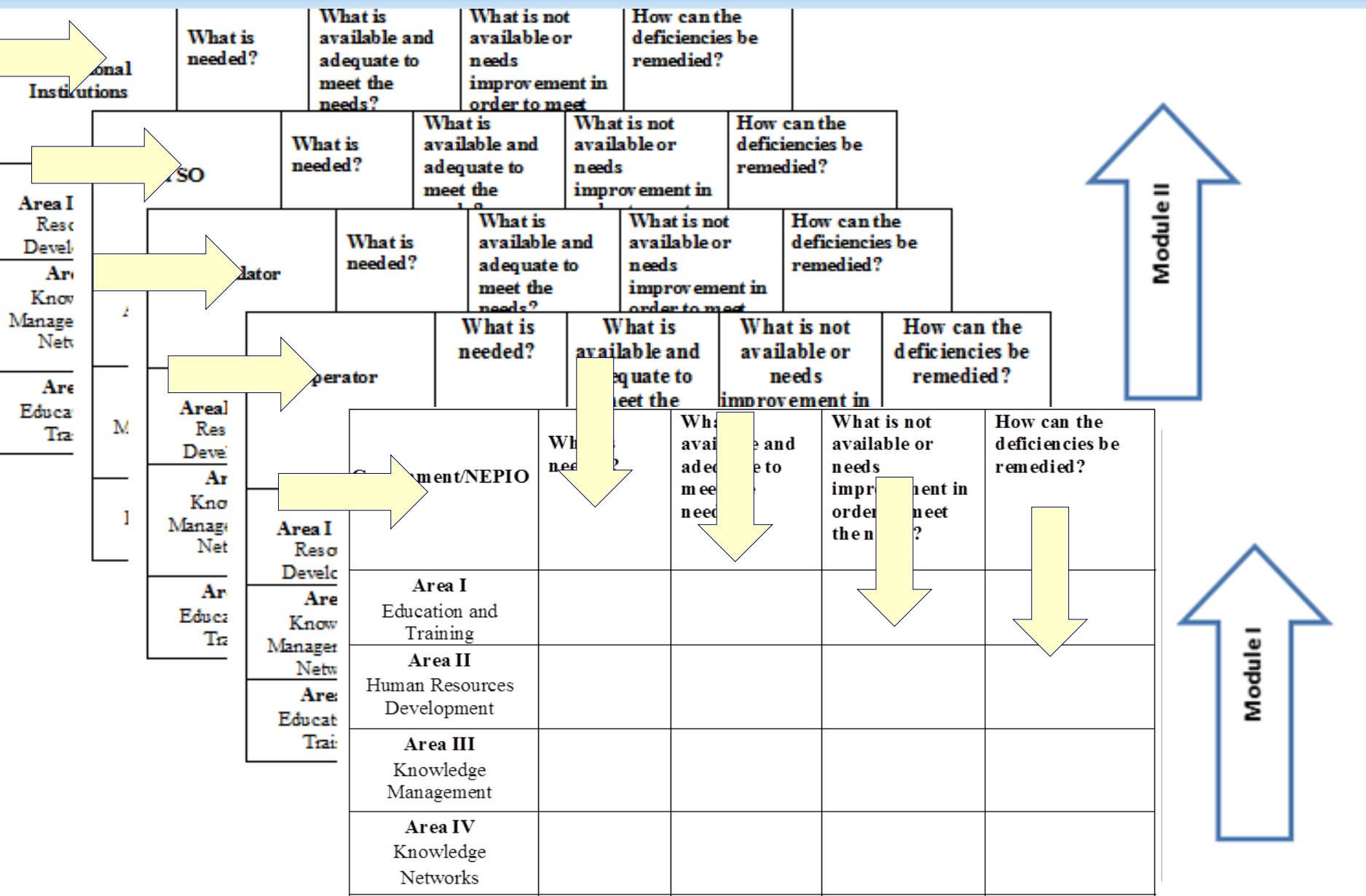
- 1.-What is needed?
- 2.- What is available and adequate to meet the needs?
- 3.- What is not available or needs improvement in order to meet the needs?
- 4.- How can the deficiencies be remedied?

LEVEL 1
Role of Government
and Role of
Organizations

INDIVIDUAL

Area I Education and Training
Area II Human Resources Development
Area III Knowledge Management
Area IV Knowledge Networks
.....





Methodology for self Assessment CB

Guidance and Methodology for Assessment of Capacity Building in Member States with Nuclear Power Programmes and those Planning to Embark on such a Programme

[Pick the date]

Rev9

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The methodology proposed in this document is a self-assessment process which Member States with a nuclear power programme and those planning to embark on such a programme may use to assess their

<http://nucleus.iaea.org/sites/safer-nuclear-power/NSAPDocuments/Forms/DispForm.aspx?ID=164>

Past Experiences of National CB self Assessment: Finland

- **Parliament ratified DIP on July 2010 (OK. 4 and Fenn. 1) Ministry of Employment and Economy decided that there shall be a self-evaluation on capacity building (Government driven)**
- **Wide range of experts (150 persons) gathered to evaluate present status and future needs in nuclear personnel and infrastructure.**
- **Vast survey to almost 300 Finnish organizations, divided in 4 groups**
- **No of Personnel (Present/Future) 2010, 2015, 2020 and 2025**
- **21 different areas - 3 education level**
- **Cost 200 K Euro + in kind**
- **Benefit: The most important result was the process itself**
- **http://www.tem.fi/files/33099/TEMjul_14_2012_web.pdf**

Past Experiences of National CB self Assessment: Spain

- **CIEDEN is a coordination framework of R&D needs and efforts in the field of nuclear technology in Spain**
- **CEIDEN gathers together representatives from the government, the regulator, operators, educational institutions and the industry**
- **Objective of the CB assessment: to study capabilities of Spanish Nuclear Industry for a New Nuclear Project and making catalogue of nuclear energy and technology training capacities.**
- **All the national capabilities were analysed including capacity of the industry, supplies and educational capacities**
- **A report including the questionnaires and analysis of results is available at:**
- **<http://ceiden.com/wp-content/uploads/2012/09/PROY.-CAPACIDADES-vers.-Ingles.pdf>**

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Capacity Building



The concept of Capacity Building is an 'umbrella' process consisting of the following four essential elements:

Education & training

The establishment of sustainable education and training (E&T) infrastructures and processes is fundamental to the capacity building strategy of Member States. Education and training programmes provide a structured knowledge base for individuals involved in the utilization or control of nuclear technologies to develop their individual capacity, which by implication also means improving national capacity. During training, students and participants also develop personal networks among themselves and with the experts who provide the learning — a fundamental part of knowledge networking. E&T provides the basis for life-long human resource development.

Human resource development

This element deals with the development of an effective workforce at both the national as well as organizational level, by providing a structured approach to enable Member States to estimate the human resources needs for their programme, assess their existing capability, identify competences gaps and plan and implement activities to fill these gaps according to the nature and scope of their nuclear power programme

Knowledge management

Resources

Essential Publications

Methology for self-assessment of Capacity Building

Global Nuclear Safety & Security Network

Meetings

Posted on May 4 2013



4th meeting

Technical meeting 22nd July 2012

Upcoming

CS Meeting 18th April 2013

CS Meeting 11th June 2013

Page links

The Concept

Challenges

- **Encouraging MS to do self-assessment.**
- **Harmonizing Agency capacity building activities.**
- **Mapping all Agency capacity building activities**
- **Ensuring quality of all Agency capacity building activities**

...Thank you for your attention

