

**CENTERS OF EXCELLENCE
AND THE PROMOTION OF
NUCLEAR SECURITY
SUSTAINABILITY AFTER
2016**

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Objectives

- Discuss role of CoEs in sustaining nuclear security excellence
- Practical roles for CoEs
- Ideas for the 2016 Nuclear Security Summit

What do we mean by nuclear security “sustainability”?

- **Systemic:** Ability of the nuclear security framework to continually strengthen the weakest links
- **National/regional:** Ability to keep legal and regulatory machines operating smoothly
- **Local/facility:** Ability to regenerate critical resources: people (knowledge, training, skills), funding, equipment

Why is sustainability an issue?

- No mechanisms in the current “regime” for standards, review, or strengthening
- Unless the 2016 Summit devises an integrated system, the sustainability of nuclear security progress is unclear
- COEs can play a variety of roles: technology development, training, policy

Role of CoEs in this kind of sustainability

- **Systemic:** “Rising tide lifts all boats” – CoEs can lift the level of nuclear security implementation – AND help defray some costs borne previously by IAEA
- **National/regional:** CoEs can help inform legal and regulatory requirements
- **Local/facility:** Better trained staff and more efficient systems reduce costs

Why should Asian CoEs take lead in promoting sustainability?

- As three advanced nuclear states, China, Japan & ROK are role models for others in the region (particularly Vietnam, Malaysia, Indonesia, Thailand, Singapore).
- High stakes in best possible implementation of standards across nuclear safety, security, and safeguards

Practical Steps

- Training/Technical Collaboration: Peer Review Process for CoEs?
 - Already sharing of course information
 - Helpful to establish a feedback loop
- Guidelines for Information Sharing
 - CoE trainers have “hands on” knowledge of what information is sensitive & what can be shared
 - CoEs should be involved in broader policy discussions on this
- Developing common criteria for performance testing
 - Can we move toward certification of individuals and accreditation of CoEs and other training? IAEA will not do on its own
 - In conjunction with WINS?

Specific ideas for 2016 Nuclear Security Summit

- Gift basket offered by Asian CoEs but open to all CoEs for 2016 summit
 - Best way to “cement” a workplan?
- Outreach plan by Asian CoEs for Southeast Asia
 - E.g. Incorporate into or add to ASEAN Regional Forum workshops (CBRN Risk Mitigation, Nonpro & Disarmament, Nuclear Forensics)
- Regional table-top exercises (a la 2014 NSS)

2012 Gift Basket on CoEs

- Intention to collaborate with International Network of Nuclear Security Support Centers
- IAEA supports this network
- These NSSCs enhance nuclear security at the state level, promote elements of the 2010 Work Plan and the 2012 Communique, supporting human resource development, education & training, enhancing nuclear security culture.

2014 Gift Basket on CoEs

- Reaffirm importance of International Network of Nuclear Security Support Centers and IAEA further development
- *Support activities to provide for exchange of information and best practices*
- *Encourage regional cooperation initiatives and facilitation of greater information sharing on and harmonization of capabilities of individual centers*

A Strawman 2016 Gift Basket

- Commitment to establish a process and/or milestones for collaboration
 - Under IAEA International Network or other venue (e.g., joint working groups)
 - Annual meetings? Points of contact?
- Identify activities for post-summit collaboration
 - Guidelines on information security; guidelines on information exchange (systemic)
 - Regional Peer Reviews?
 - Common performance criteria?
 - *Nuclear security progress reports (systemic)*
 - *Dialogue on impact of fuel cycle choices on regional nuclear security (systemic)*

Beyond 2016 and the Nuclear Security Summit Process

- Current approach is to use existing mechanisms to glue nuclear security regime together
- CoEs can help promote and measure progress in nuclear security through
 - Critiquing standards
 - Shaping (and sharing) guidelines on information that needs to be withheld or that should be shared
 - Helping set standards for accreditation for CoEs
 - Helping set standards for certification of individual training requirements

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