

## Background and Goal of the present work

- Nuclear security is fundamental in the management of nuclear technology and in applications where nuclear material or other radioactive material is used or transported.
- Every state's regime comprises of a set of policy and technical nuclear security measures. It is essential to have well educated and qualified people capable of implementing these measures to ensure that the national nuclear security regime is effective and efficient.
- The goal of this paper is to highlight the elements of sustainability with regard to nuclear security education and training

## Nuclear Security Education



- Build the next generation of nuclear security experts
- Promote nuclear security culture in universities, educational institutions and research laboratories
- Educate young professionals from national authorities
- Develop research in nuclear security to find solutions to address current and emerging threats
- Effective tool to sustain nuclear security regime

## Important Elements to ensure sustainability of nuclear security regimes

- Development of nuclear security educational and training programmes based on needs analysis
- Conduct needs analysis before to develop any program
- Apply SAT approach
- Knowledge management
- Train educators and trainers to be up to date on nuclear security development
- Need for cooperation between universities, training centres and national stakeholders
- Join and work with the IAEA INSEN and NSSC networks
- Seek collaboration with international organizations and universities
- Establish an organizational policy and structure that encourage cooperation between universities and Nuclear Security Support Centres (NSSC) in home country or in the region
- Intervention of nuclear security professional in the educational courses to transfer practical knowledge and experiences to young generation



- Conduct workshops and invite students to engage in the discussion with nuclear security professionals
- Develop programmes based on know why and know how are key for sustainability

## Opportunities to develop and sustain nuclear security regimes

- Many international organizations and institutions offer technical and policy support to develop nuclear security regimes
- IAEA: Division of Nuclear Security, Nuclear Security Series Publications, INSSP, ....
- International Nuclear Security Education Network (INSEN)
- Nuclear Security Support Centres (NSSC)
- EU CBRN Centres of Excellence
- US(DoE)
- US(DoS) PNTR
- International cooperation & assistance
- Availability of Educational and Training programs in nuclear security

## Challenges facing the development of nuclear security regimes

- Nuclear security is not considered a high priority
- Lack of government engagement
- Lack of nuclear legislation and regulations
- Lack of qualified people to develop nuclear security regime
- Lack of educational and training programs in place
- Lack of financial and technical resources
- Lack of institutions, policy and procedures
- Lack of cooperation among national authorities
- Lack of communication and coordination among stakeholders