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## **The Contribution of International Initiatives on Non Proliferation to the Enhancement of the Nuclear Forensics as a Fundamental Component of the International Nuclear Architecture**

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During the last decade, several international initiatives in the field of Nuclear Security have emerged in the context of the G8 meetings, which represented an opportunity to announce the establishment of voluntary coalitions, in light of 11 September 2001 terrorist attacks on the United States.

These 'plurilateral' initiatives are intended to strengthen international cooperation and devise, inter alia, a number forensics guidance documents and outreach materials, in order to fill gaps left out by operational deficiencies in International nuclear instruments. Such initiatives include, namely, the Nuclear Forensics International Technical Working Group (ITWG), the Global Initiative to Combat Nuclear Terrorism (GICNT), the Nuclear Security Summits process (NSS)

This array of initiatives identified by States to contribute to the enhancement of nuclear forensics are functionally interdependent and complement one another in terms of providing various forms of assistance, including enhancement of awareness, guidance and training in the field of nuclear forensics.

In this regard, needless to remind that these contributions recognizes explicitly the role of nuclear forensics as a real support tool in the field of response and mitigation to nuclear and radiological malicious act.

The present research paper will attempt to provide answers to the following questions:

- To what extent theses international initiatives have been successful so far in contributing to enhancing nuclear forensics and reducing the threat of Nuclear Terrorism?
- What kind of new strategic orientation should these international initiatives follow to efficiently meet countries' expectations in terms of implementing relevant IAEA's nuclear forensics recommendations by undertaking more action- oriented activities?
- To what extent does the implementation of the upcoming IAEA Nuclear security 2014-2017 action plan and the nuclear forensics GICNT Working group (NFWG) guidance document could contribute to strengthen the international nuclear security regime?

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