

International Partnership for Nuclear Disarmament Verification

U.N. First Committee
October 6, 2017



Initial Focus



- When launching the IPNDV, the Partners agreed that we should assess monitoring and verification issues **across the nuclear weapons lifecycle**.
- **Phase I** (2015-2017) has focused on monitoring and verification activities associated with **the dismantlement of nuclear weapons** – one of the most important and complex issues related to future arms control reductions.
- The Terms of Reference for the Working Groups defined a set of deliverables to be presented at the end of Phase I.

Working Groups



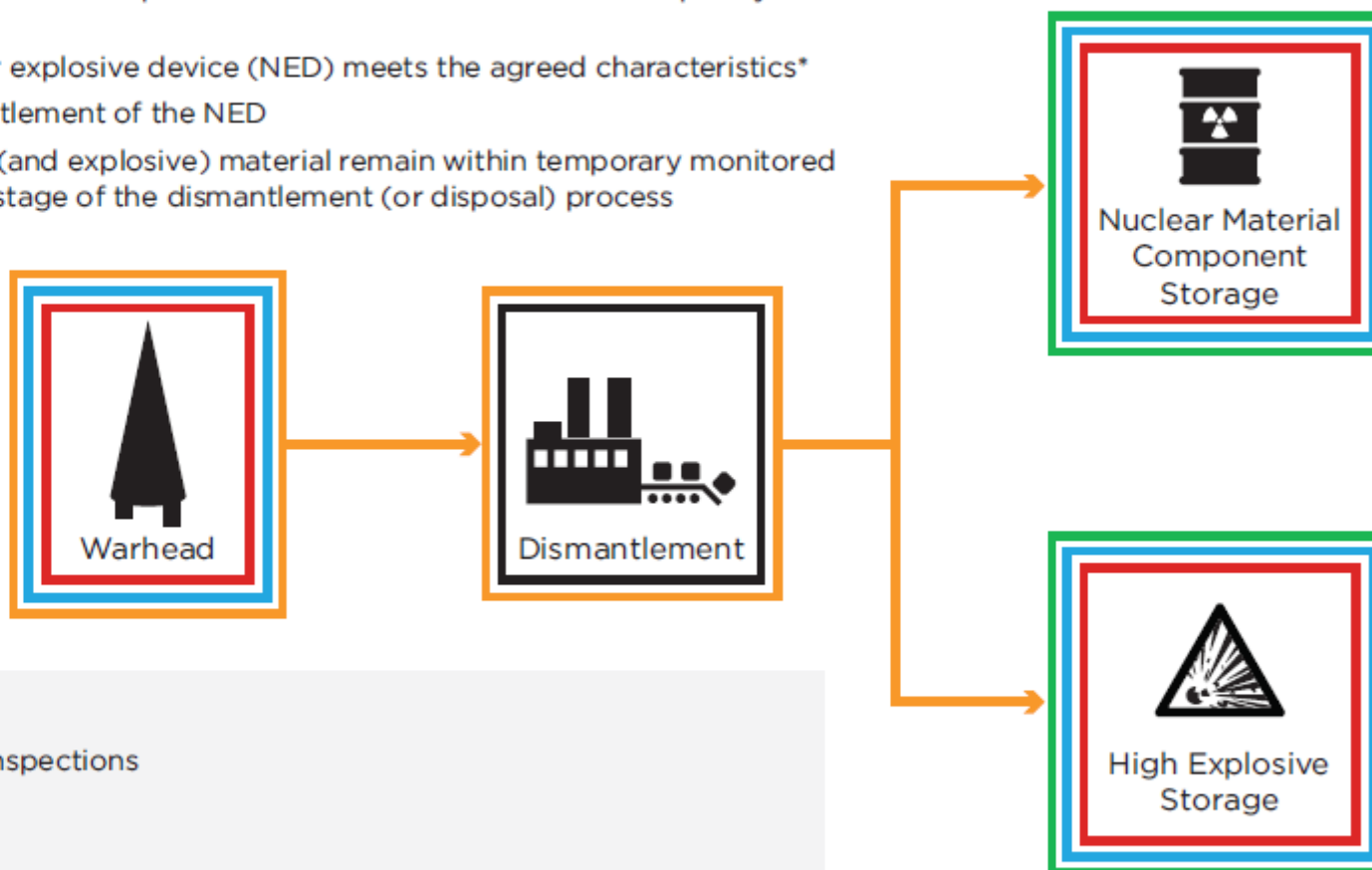
The Working Groups are focused on:

- 1. Monitoring and Verification Objectives,** co-chaired by The Netherlands and the United Kingdom;
- 2. On-Site Inspections,** co-chaired by Australia and Poland; and
- 3. Technical Challenges and Solutions,** co-chaired by Sweden and the United States.

IPNDV BASIC DISMANTLEMENT SCENARIO

Key Objectives:

- (1) Ensure chain of custody of the nuclear warhead (from the agreed point prior to dismantlement) until both the explosive and nuclear material are in temporary monitored storage
- (2) To confirm the nuclear explosive device (NED) meets the agreed characteristics*
- (3) To confirm the dismantlement of the NED
- (4) To ensure the nuclear (and explosive) material remain within temporary monitored storage until the next stage of the dismantlement (or disposal) process



Monitoring Options

- Declarations and Inspections
- Measurements*
- Chain of Custody
- Temporary Monitored Storage (Until Next Stage of Dismantlement Disposal)

*This could include:

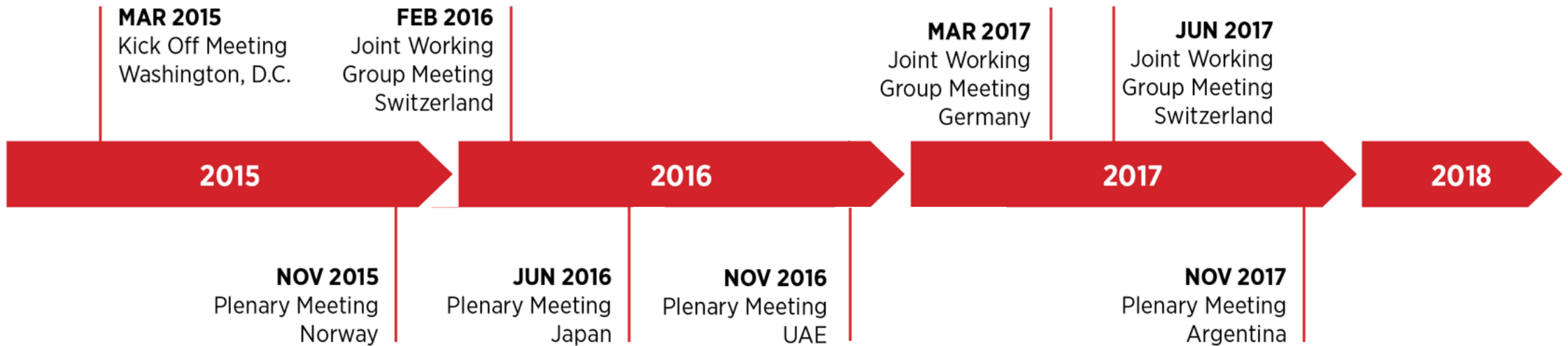
- Presence of Pu/HEU/Explosives
- Absence of Nuclear or Explosive Material
- Isotopic Composition
- Minimum Mass

Progress Report



PHASE 1

PHASE 2



Concluding Phase I



The following documents will be released at the Buenos Aires Plenary in November:

- The deliverables produced by the three Working Groups;
- Technology data sheets that supported the work of Working Group 3;
- A report highlighting the IPNDV Walkthrough Exercise that took place in June 2017;

Concluding Phase I



- A report summarizing the work accomplished by the Partnership during Phase I. The report will provide more information on:
 - The history and scope of work of Phase I
 - How the Partnership is addressing the challenges and identifying solutions associated with the verification of nuclear disarmament
 - The Working Groups' key findings
 - Recommendations for a Work Program for Phase II

Concluding Phase I



In addition NTI, with a financial contribution from Canada, will be releasing:

- A new standalone IPNDV website; and
- An informative infographic representing the basic dismantlement scenario of Phase I.

Launching Phase II

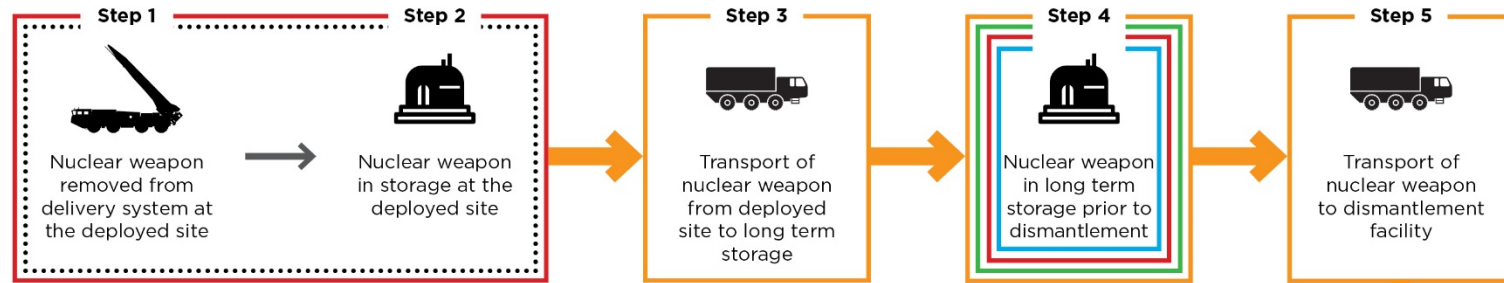


Phase II of the IPNDV will be launched at the Buenos Aires Plenary in November 2017.

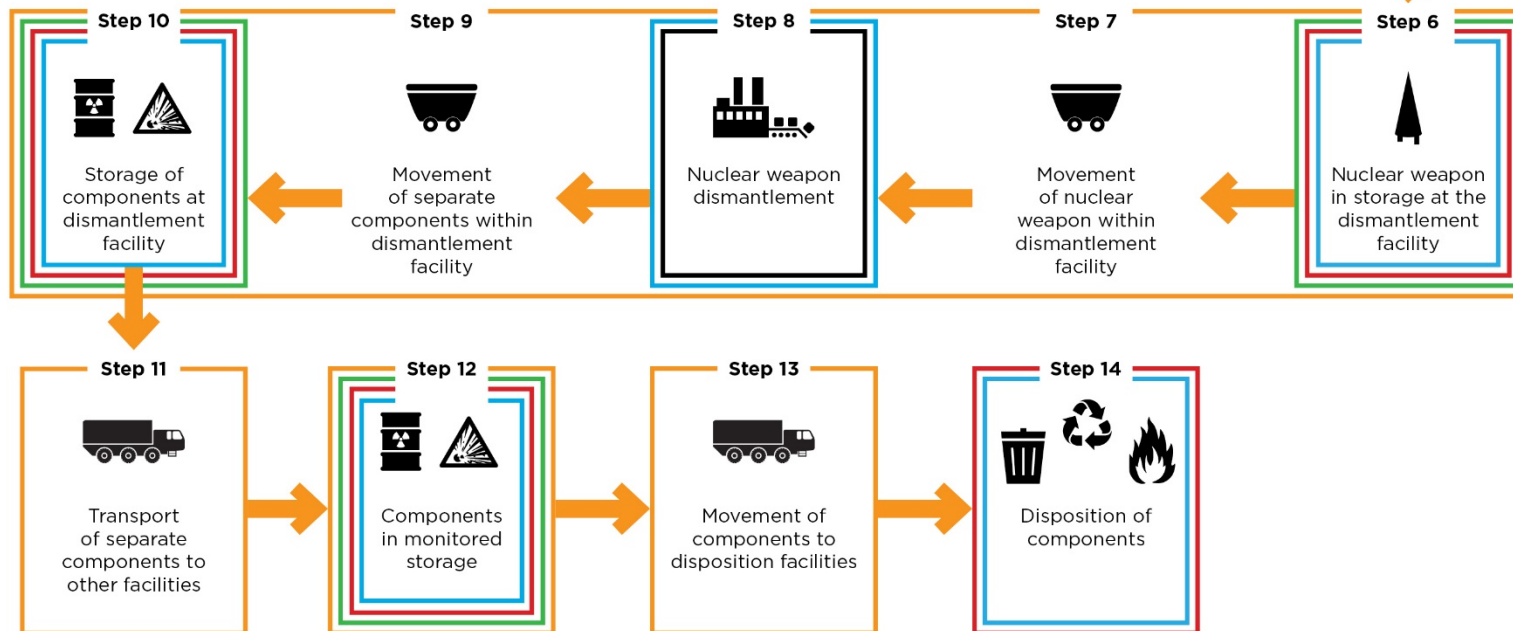
- It will assess in greater detail, and explore, some of the nuclear weapon dismantlement monitoring and verification technologies and procedures identified in Phase I.
- Phase II will also extend its focus beyond the dismantlement of nuclear weapons and address verification issues across the wider nuclear disarmament process.

MONITORING AND VERIFICATION ACTIVITIES, AS IDENTIFIED BY THE IPNDV, FOR KEY STEPS IN THE PROCESS OF DISMANTLING NUCLEAR WEAPONS

Nuclear Weapon Staging Area



IPNDV Basic Dismantlement Scenario



Monitoring Options



*We make the assumption that there will be declarations at each step in the process.

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Learn more at:

www.nti.org/about/projects/international-partnership-nuclear-disarmament-verification/