



Russian-German Cooperation To Improve Security of Nuclear Arsenals

Gen. Evgeny Maslin,

**Executive Director, Aspect-Conversion;
Col. Gen. (Ret.), Chief of the 12th Main Directorate
of the Russian Ministry of Defense in 1992-1997**

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Increasing Nuclear Security by Reducing Nuclear Arsenals

- Since 1991 Russia has reduced its nuclear arsenals more than in 5 times, and the number of its nuclear storages - in 4 times.
- All non-strategic nuclear weapons has been replaced to the central storages of the Russian Ministry of Defense.
- These efforts allowed to focus and concentrate funds on securing Russian nuclear storages.

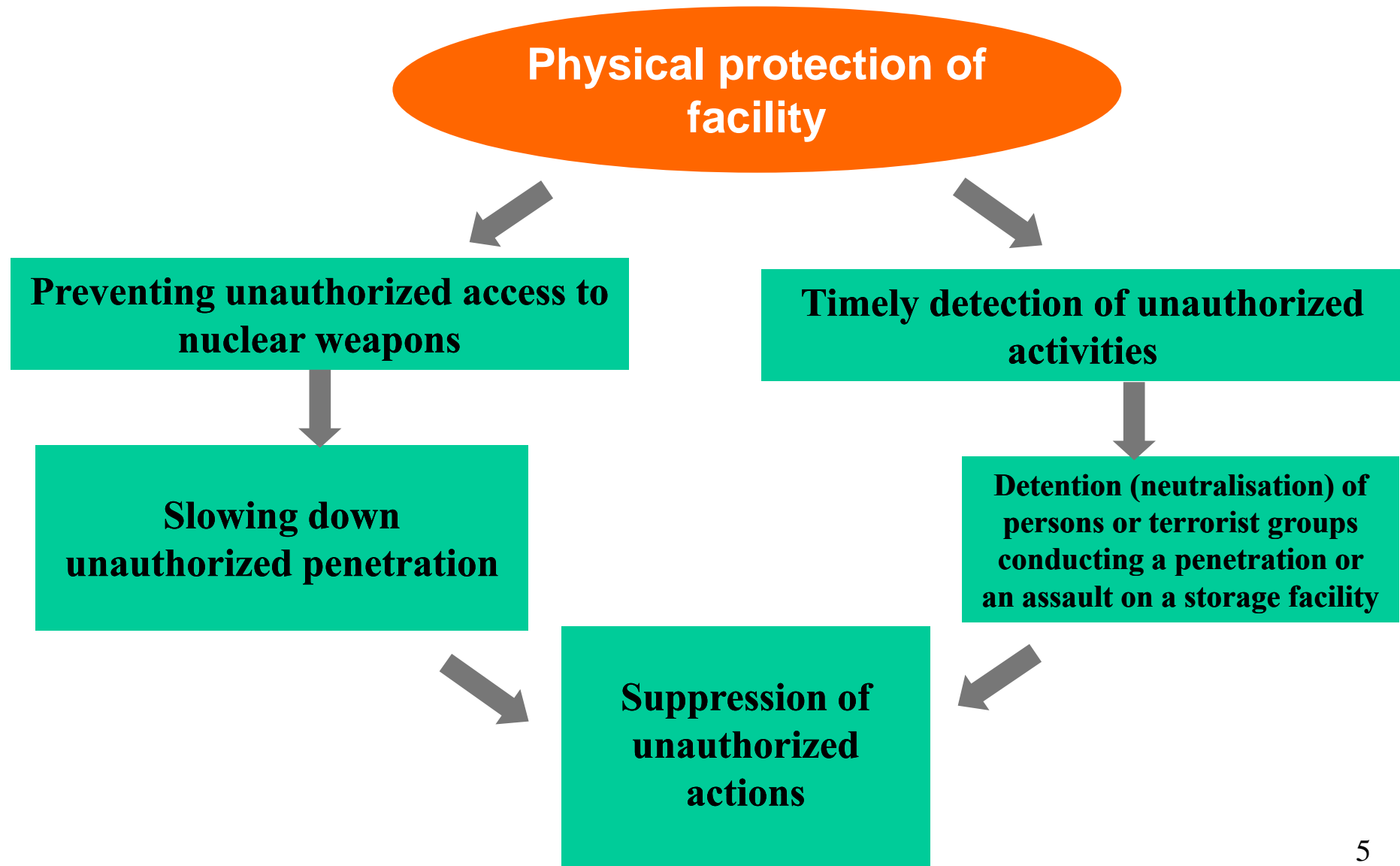
Potential Threats to the Safety and Security of Nuclear Weapons

- Technical threats, intrinsic to nuclear weapons, as the most technically and technologically advanced systems, ever created by mankind
- Potential external threats to nuclear arsenals security, connected with non-intentional and aggressive influence of the human factor on nuclear weapons

International Cooperation Programs

- Program aimed at increasing the security of nuclear weapons (including during transportation and storage)
- Program aimed at improving the physical protection of nuclear arsenals
- Program for improving the emergency teams at nuclear arsenals
- Program for creation of an automated accounting and control system for nuclear weapons slated for dismantlement
- Personnel reliability program
- Program for training guard forces

Tasks of Storage Facilities Physical Protection



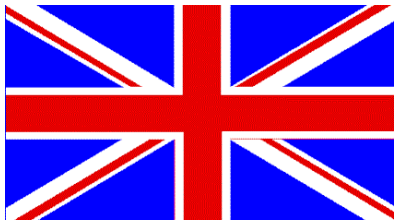
Legal Framework for Cooperation

- **December 16, 1992** - Agreement between the Government of the Federal Republic of Germany and the Government of the Russian Federation on the support for the elimination of the nuclear and chemical weapons, Moscow, Russia
- **June 26-27, 2002** – Launch of ‘The G8 Global Partnership Against the Spread of Weapons and Materials of Mass Destruction’ Program, Kananaskis, Canada
- **October 6, 2003** – Agreement between the Russian Ministry of Defense and the Federal Ministry of Foreign Affairs of Germany on cooperation in the area of ensuring the physical protection of nuclear materials and nuclear weapons, slated for dismantlement

International Cooperation of the 12th Main Directorate of the Russian MoD in the early 1990s



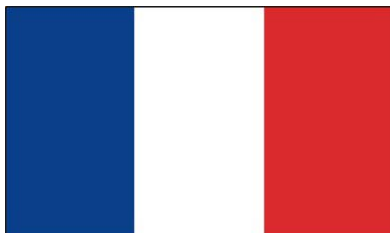
- **Germany supplied radiation control equipment**



- **The United Kingdom supplied super containers**



- **Italy supplied radiation control equipment**



- **France supplied super containers**

Uniqueness of Russian-German Cooperation

- **Germany was the first non-nuclear weapons state assisted Russia to improve physical protection of nuclear arsenals, which are subject for further elimination**
- **Before Germany –the U.S. only was providing assistance to Russia in this field**
- **After Germany – Canada established cooperation with Russia to improve the physical protection of nuclear arsenals**

Scope of Russian-German Cooperation

- **Modernization of physical protection systems of 3 MOD of Russia storages of nuclear weapons, which are subject to further elimination**
- **Program financed jointly by the MFA of Germany and MOD of Russia**
- **Total cost of the program – 75 mln. euro**

Modernization of physical protection systems includes building or reconstruction of:

- **Perimeter fence detection system of unauthorized access**
- **Buildings for:**
 - **check points**
 - **guards and physical protection control units**
 - **special storages (shelters) and buildings for interim storages**
 - **quick reaction force and security guards**
 - **armored watchtowers**
 - **railway loading ramps**

Modernization of physical protection systems includes building or reconstruction of:

- **Engineering life support systems (energy, heat, water supply and sewerage system)**
- **Railway base of facility, including its perimeter, checkpoint building with physical protection control unit, and perimeter of special wagons park**

Buildings for Guards and Physical Protection Control Unit



System for Detection of Unauthorized Access, Alarm and Detention



Equipment for Preventing Unauthorized Passage of Vehicles



System for Detection of Unauthorized Access, Alarm and Detention



Quick Reaction Force Building: before and after



Perimeter Fence Detection System: before and after



Summary of the Program

- **Total cost – 75M Euro**
- **Work to be finished in 2010 г.**
- **About 20 companies from Germany and other EU countries take part in the program**
- **More than 65% of equipment for the program is produced in Germany**
- **Among others the following companies provide equipment for the program: Geutebruck (image capture and transmission systems); Salzer, Sommer (bullet proof windows and doors), Salzer (anti-ram vehicle barriers); Teskon (special gates); Adronit (fencing); diesel electric generators Geko ; equipment for gas boilers Viessmann; Saebu (modular buildings).**



Examples of German-produced equipment for the program



Distinctive Features of Russian-German Cooperation

- Facilities, modernized with financial support of the German Government, are uniquely equipped and have unique level of security among other facilities of the MOD of Russia, which are part of the Global Partnership Program**
- Physical protection systems designed within the program, provides high level of security of nuclear weapons, which are subject to further elimination**
- Program expenditures are subject for control by the German side. Three facility visits are specified in the bilateral agreement**

Access to the Facilities



