



Remote Elemental Intelligence

A PLATFORM FOR SHALLOW SUBSURFACE CHEMICAL MAPPING

Mines, Explosives and Beyond

May 2026

Proprietary



Core Technology:

Detect and map
chemical/explosives
signatures by analysing
Neutron/ Gamma
response from shallow
subsurface targets
(Patent Pending)



Never Mine Technology

FATHER



MOTHER



Never Mine Technology

FNAA (Fast Neutron Activation Analysis)

- Mature technology
- Used in labs and drills



FAST NEUTRON ACTIVATION ANALYSIS (FNAA) – SCHEMATIC DIAGRAM WITH D-T NEUTRON GENERATOR

1 NEUTRON SOURCE D-T NEUTRON GENERATOR

Reaction:



Fast neutrons are produced via the fusion of deuterium and tritium.

2 NEUTRON IRRADIATION

Fast neutrons are directed onto the sample.

3 NUCLEAR REACTIONS

Fast neutrons interact with nuclei, producing radioactive (activated) isotopes.

4 DECAY OF RADIONUCLIDES

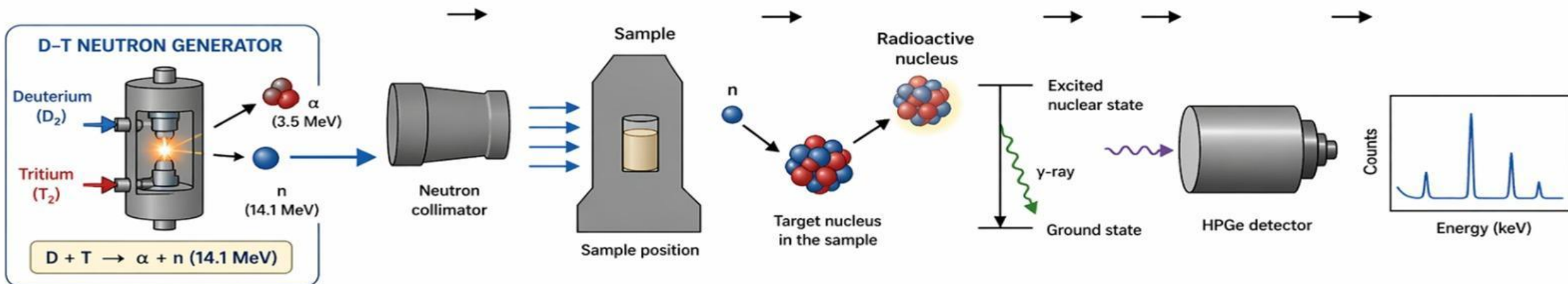
The activated nuclei decay, emitting characteristic gamma rays.

5 GAMMA-RAY MEASUREMENT

Gamma rays are measured using a high-purity germanium (HPGe) detector.

6 DATA ANALYSIS

Gamma-ray energies and intensities are used to identify and quantify elements in the sample.



SUMMARY OF THE METHOD

High Penetration



Fast neutrons penetrate deeply, allowing bulk sample analysis.

Multi-element Capability



Many elements can be determined simultaneously.

Non-destructive



The sample remains intact after analysis.

Sensitive and Accurate



High sensitivity and good accuracy for a wide range of elements.

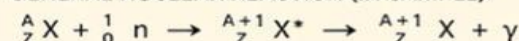
Typical Applications



Geology, environmental studies, archaeology, materials science, forensics, and more.

D-T FUSION REACTION (NEUTRON SOURCE): $D + T \rightarrow \alpha \text{ (3.5 MeV)} + n \text{ (14.1 MeV)}$

GENERAL NUCLEAR REACTION (IN SAMPLE):



n – fast neutron; ${}_Z^AX$ – target nucleus; ${}_Z^{A+1}X^*$ – excited nucleus;
 ${}_Z^{A+1}X$ – radioactive nucleus; γ – gamma ray; α – alpha particle

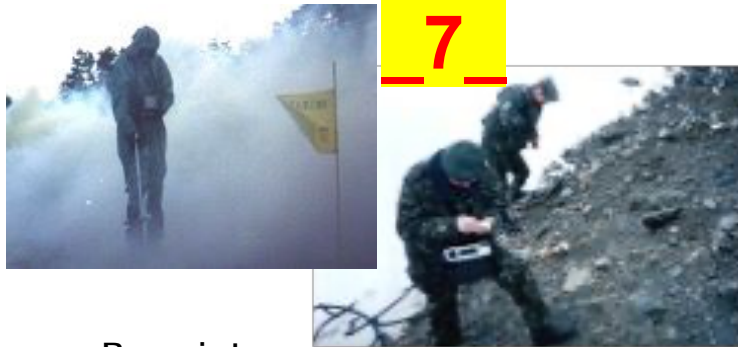
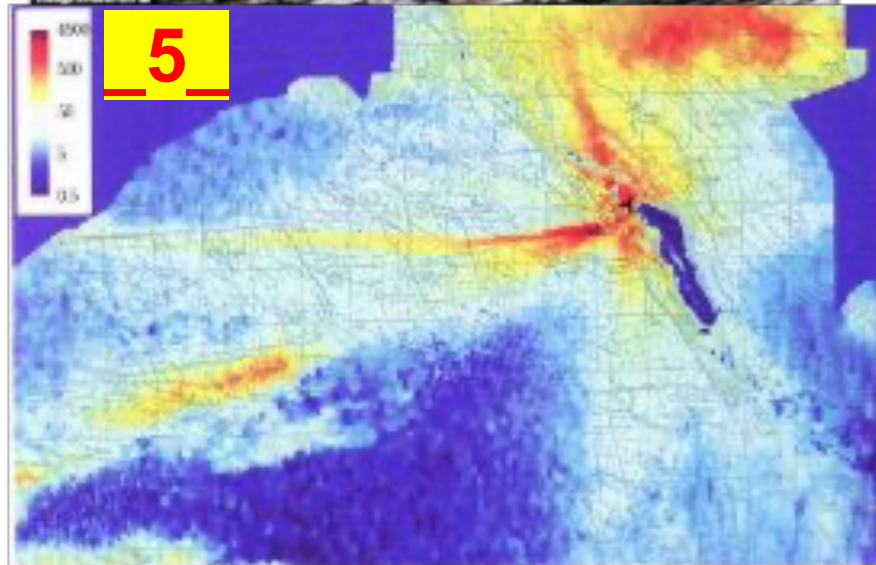
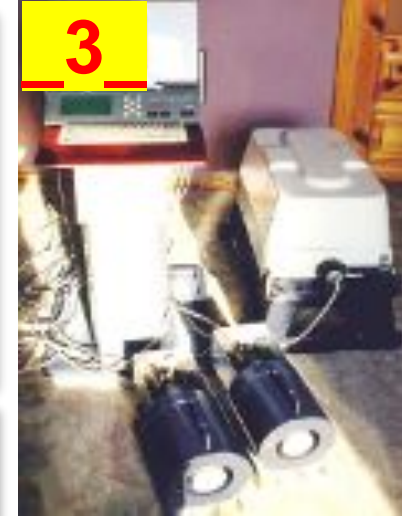
Chernobyl - Proprietary Algorithms and Sensors



Developed over 40 years
following the Chernobyl
Incident

Radiation devices and systems (1986-2025)

Unique Gamma Analysis based on Customized Sensors and Proprietary Algorithms

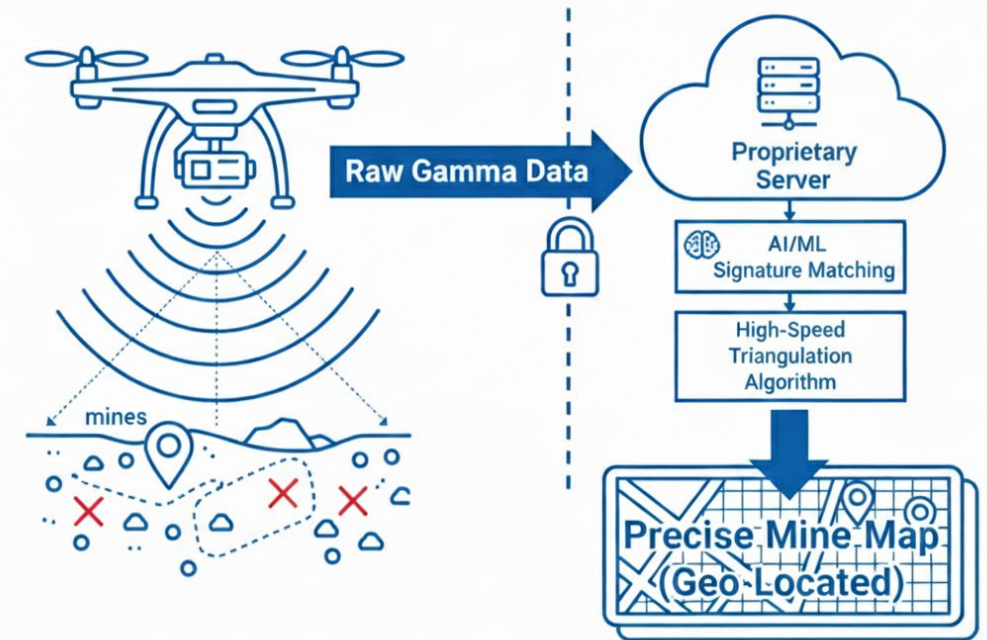
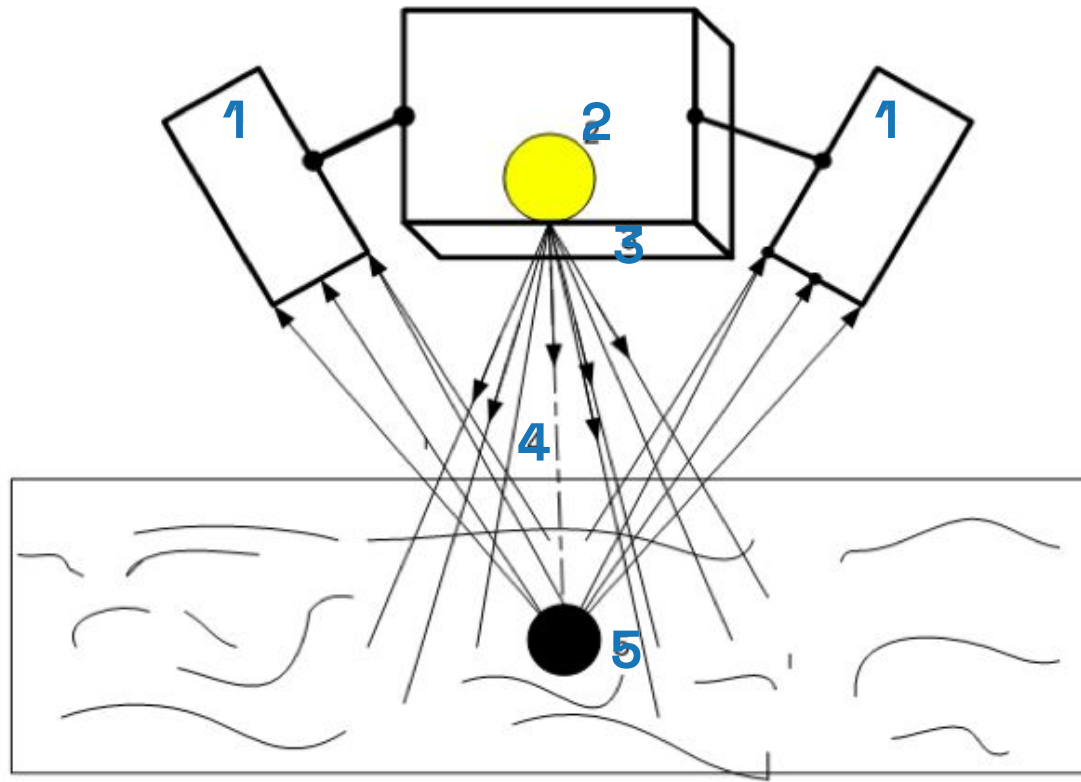


Never Mine Technology

NeverMine
Technologies



NeverMine Combines FNAA with Unique Gamma Analysis based on Customized Sensors and Proprietary Algorithms



1 Detectors

2 Neutron source

3 Collimator

4 Neutrons + Gammas

5 Mine



Leading Israeli Demining
and Explosives
Ordinance

**Strategic
Partner and
Investor**

POC Report

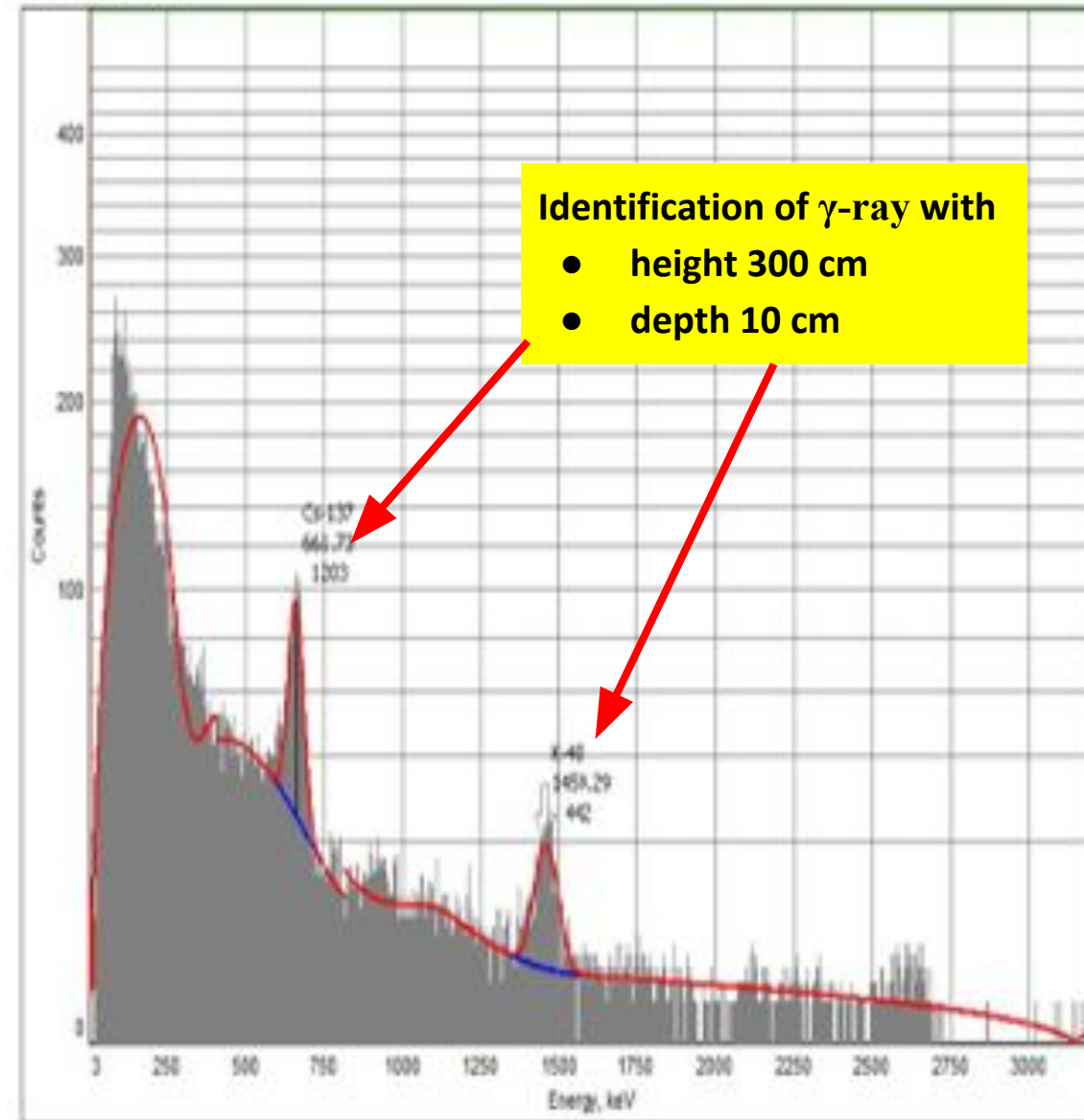
Channel	Energy, keV	FWHM, keV	Area	Area uncert	Nuclides	Activity, Bq
465,921	1459,292	78,659	442	53	K-40	41
211,373	661,731	51,310	1203	107	Cs-137	14

CONCLUSIONS

1. A detection system was developed and tested in the laboratory, demonstrating high efficiency in identifying gamma radiation sources, including concealed ones
2. Software for real-time detection of gamma radiation sources was tested
3. The results obtained indicate a 99.5% probability of detecting BB even in conditions of a interfering man-made background.

Proprietary

Channels: 1 - 1024



How can the ITG Community help

- Partners (Demining Projects & Companies)
- Financing (We are in a financing round)



Thank You!

For additional information, collaboration opportunities, or follow-up discussions, please contact:

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