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# Adapting the Technologies of Lethality to HLD/HLS

## NDIA Firepower Symposium

June 15, 2005

**Timothy N. Teen**  
Chief Executive Officer  
InSitech, Inc.



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# Adapting the Technologies of Lethality to HLD/HLS – Transferring DoD Technology into the GWOT

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# Transferring DoD Tech into the GWOT

## Agency Requirements (example):

- Identified through initiatives and communicated via BAA
- Solutions race begins – researchers & private sector
  - Government funding can augment R&D
  - Compelling tech can starve for resources
  - Bootstrap proof of concept
- Priorities change & conflict
- Repeat the entire process

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# Transferring DoD Tech into the GWOT

## Leverage commerce:

- A role for venture capital
  - Invests in early stage high risk/high reward
  - Provides money, strategy, and contacts
- Venture backed innovation is developed 3-4x faster
- Venture capital firms invest ~\$25 Billion/year
  - Compare to DHS investment in R&D
    - \$1 Billion for R&D/deployment of technologies
    - \$3.5 Billion for R&D of 1<sup>st</sup> responder capabilities



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# Transferring DoD Tech into the GWOT

## ATC @ ARDEC:

- Spin In
- Spin Out
- Investment catalyst
  - \$100 million venture fund
  - Define Dual-Use

**InSitech**  
Incorporated

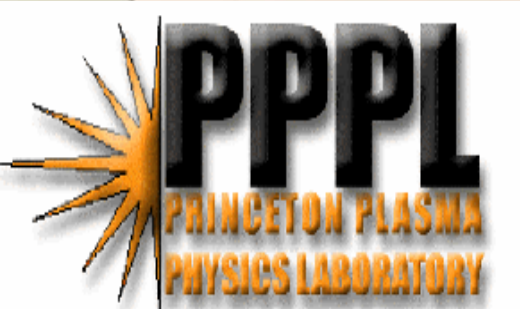


**Domestic Nuclear Detection Office**

**Transferring DoD Tech into the GWOT**

**MINDS**

**Miniature Integrated Nuclear Detection System**

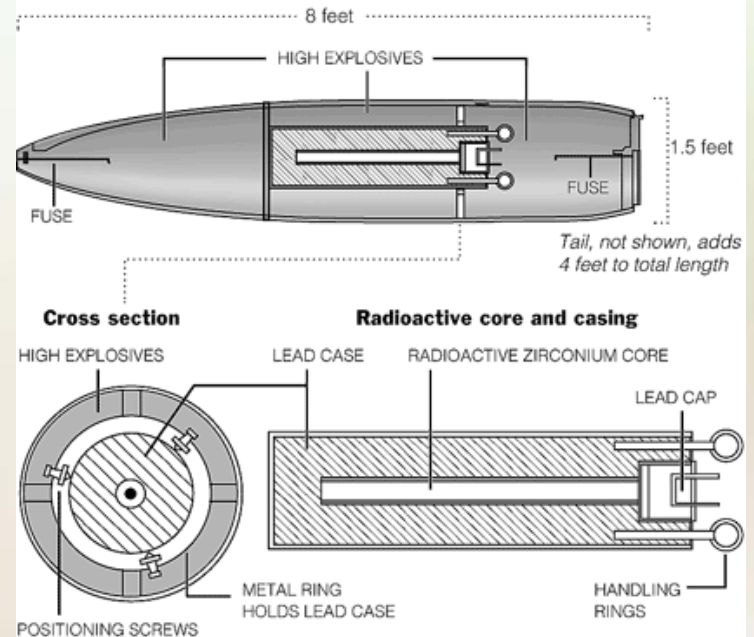


Instantly identifies  
**One-Billioneth**  
of the radionuclide material  
required for a dirty bomb

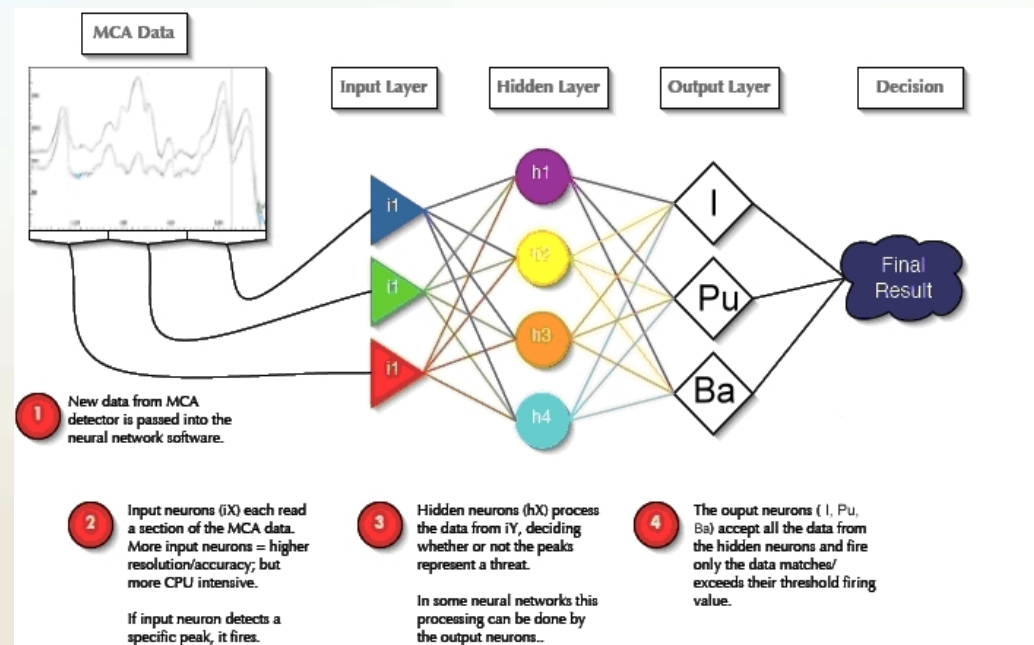
### A CLOSER LOOK

#### Saddam's 'Dirty' Bomb

Iraq in 1987 developed and tested a radiological bomb that used conventional explosives to scatter radioactive material. The effects on people can range from radiation sickness to agonizing slow death.



Uses advanced peak fitting and neural networking software to **identify,** not just detect





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# Transfer of DoD Tech into the GWOT

## Conclusion:

- The DoD wants to be in the HLS/HLD sector
- The need exists to leverage DoD technology
- The use of private money mitigates the risk
- Tech transfer and commercialization creates value
- This process can speed tech to the Warfighter