



Advanced Products Division

Integrated Stand Off Detection System (ISOD)

(US and International Patents Pending - All rights assigned)

Elements of National Security

- Domestic Security
- Military Security
- Illicit Drugs Trade
- Countering the National Security Threat
 - NextGen’s revolutionary product is a **safe, simple, and scalable** product that **WILL** play a significant role in protecting our us.
 - It is a clean slate technology; not an incremental improvement of existing technologies.

Third Street Tunnel Washington, DC



For Release to Authorized Clients
NextGen, Inc. An 8(a) SDB Entity



Third street tunnel, Wash. DC

Fumes from police vehicles, freezing temperatures, shivering would-be-spectators





Who is protecting those standing at the ticket counters?



Outline

1. About NextGen
2. What is this Revolutionary Invention?
3. Timeline to Delivery

About NextGen

- Established in 1997
- An 8(a) SDB Entity
- Information Technology / Optical Networks, Detection Devices (Explosives, Narcotics)
- Clients:
 - US Army
 - US Department of State
 - ATT and Sprint
- Contracts:
 - GSA 8(a) STARS, Naval Surface Warfare Center
- DoD Clearances (Cage Code 1LKS1)

The Invention

- **Integrated Stand Off Detection (ISOD)**
- Detects at Terahertz (THz), Microwave, and Neutron Rates
- The Source: Integrated Multi Application Radiation Source (iMars)
 - THz, Microwave, Fast Neutron
- **Integrated** and **Stand Off**
 - Integrated: iMars > Generates Microwave, Terahertz, and Fast Neutron (polarity switch) > One Device for Narcotics and Explosives Detection
 - Stand off: 30 to 100 Meters Away from Threat
- Imaging and Identification Through Barriers
 - Substance Differentiation
- **Safe – Simple to Deploy—Scalable**

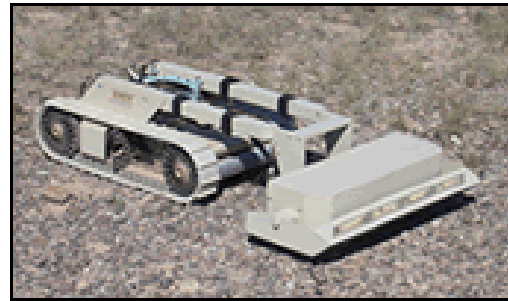
The Invention

- Relatively Inexpensive: < \$100,000
- Compact
 - iMars is About 8” Long and No More Than 2” in Diameter
 - Total Backpack version <5 lbs
- Tunable
 - Variable Distance and Penetration
- Battery operated
 - 8 Hours of Continuous Operation

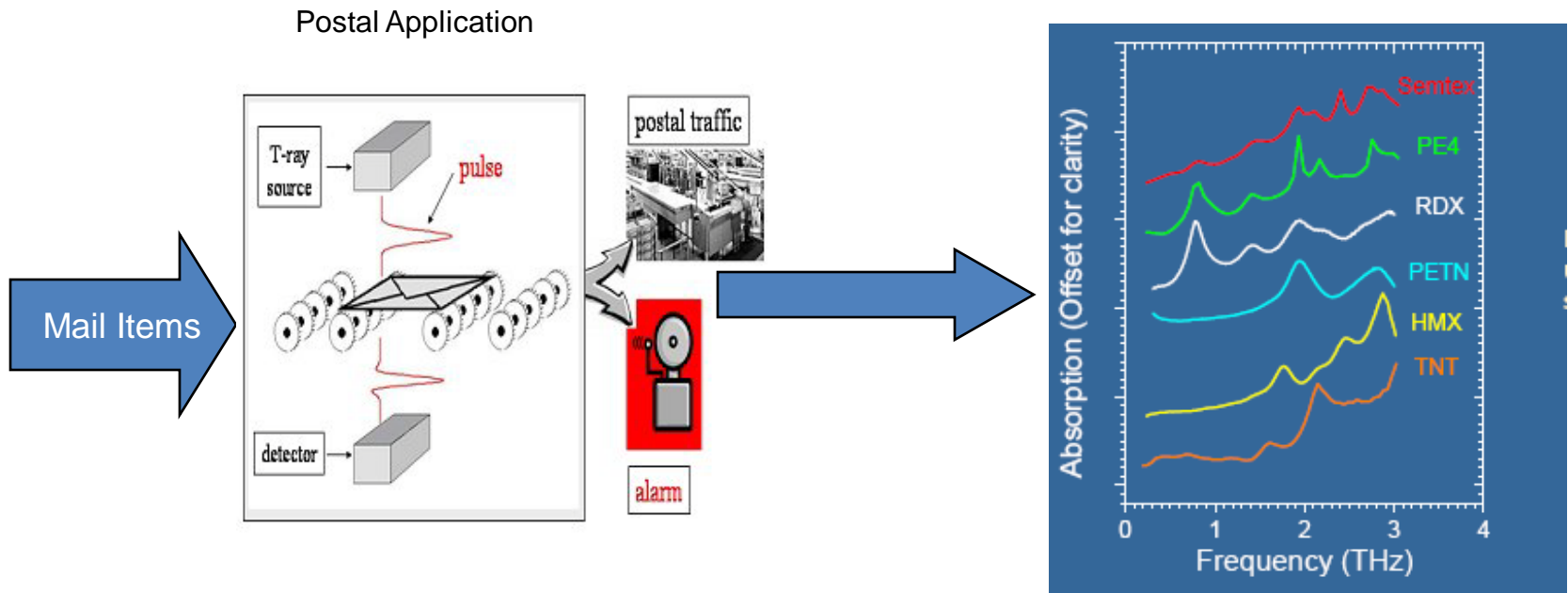
Issues with Existing Products

1. Pose Serious Health Risks
2. Limited Range and Power
3. No Substance Differentiation
4. Non-Integrated
5. Slow Throughput

Existing Products!



ISOD Application



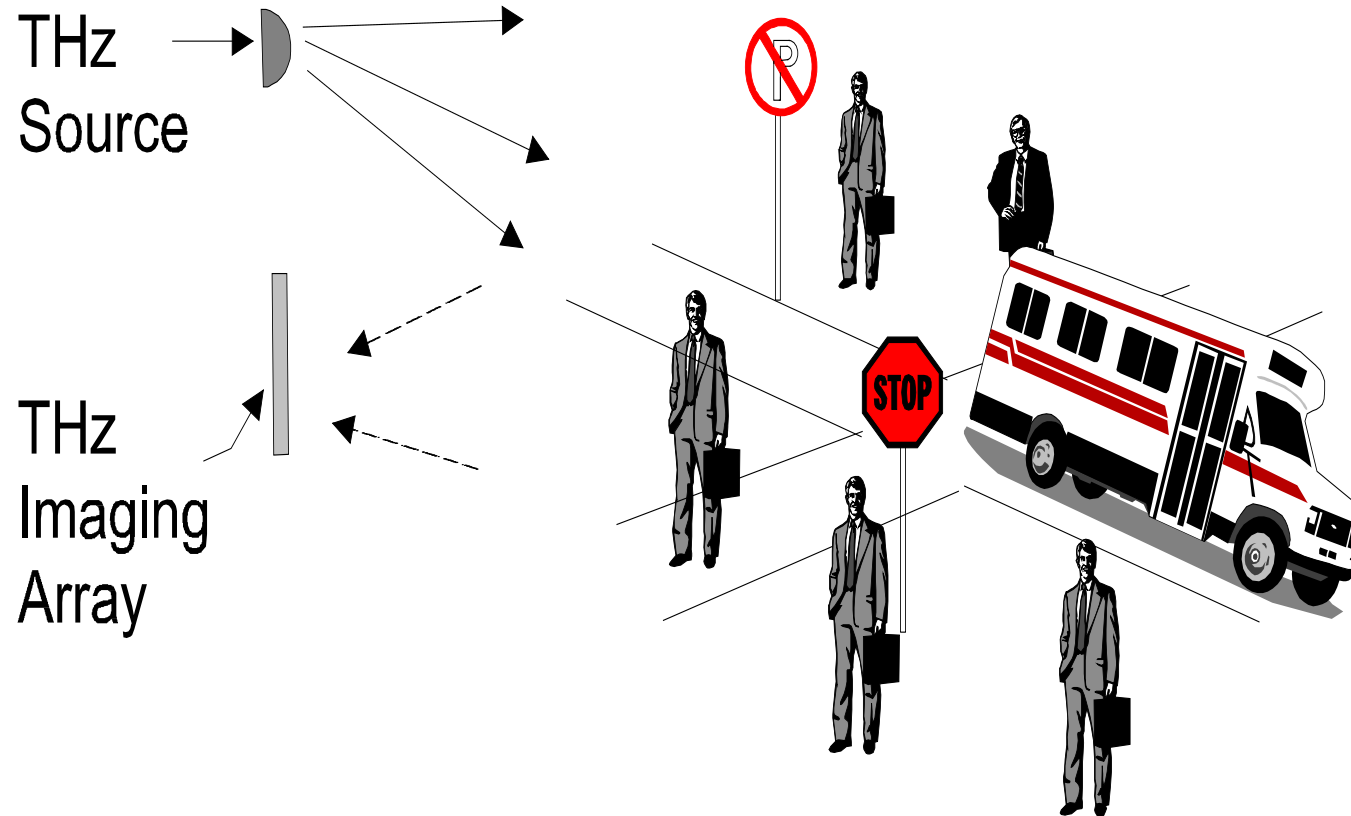
How ISOD Works?

1. Populate Memory
2. Scan
3. Identify

Where Can ISOD be Deployed?

- Airports
- Government and Commercial Buildings
- Border Crossings
- Seaports
- Battlefields

Constant Scan



Key Considerations

- **Safety**
 - Masers (Microwave Amplification by Stimulation of Radiation)
 - NOT Lasers or X-Rays, or Gamma Rays!
- **Simplicity**
 - Heart of Product is a Device Called iMars
 - Simple LCD Screen
 - Software for Differentiation of Various Target Objects
- **Scalability - When size matters...**
 - Transportable (vehicle, plane)
 - Portable (back pack)
 - Handheld
 - Eventually Fit into a Cell Phone! or Two-way Radio
 - The law enforcement Sends Data to a Centralized Location (FBI HQ or DHS) for Analysis

Typical iMars Terahertz Source (about 8 inches)



Phase I - Lab Version





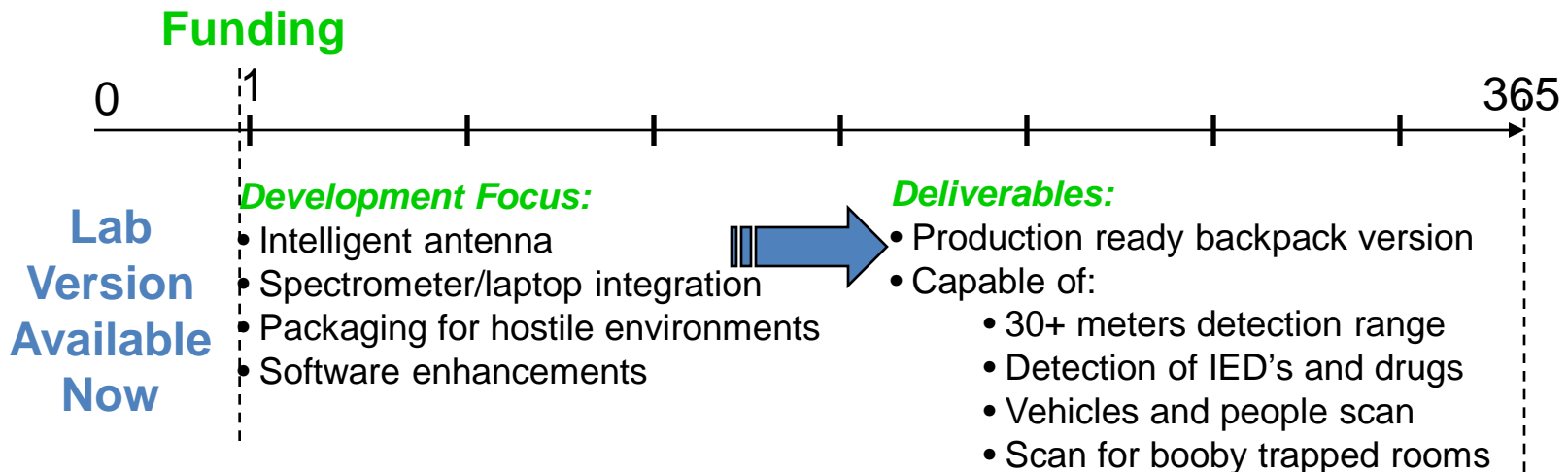
Phase II – Backpack Version

- Seed Funding ~ \$5000,000
- \$\$ + 365 days - Production Ready Backpack Version
 - Design Focus upon funding:

Antenna - Smaller / Intelligent	In House - 90 days
Imaging Unit - Laptop + Spectrometer Integration (Ghz/Thz)	Outsource – 90 days
Hostile Environments – Package Source (iMars) for	Outsource – 60 days
Battery	Mil spec. Available
Image Processing Software Enhancement	In House – 90 days

Backpack Version Delivery

- Today - Demo Proof of Concept - Detection of RDX, Other Explosives, Drugs
- \$\$ + 1 year Production Ready Backpack Version



Conclusions

- NextGen's ISOD is a safe, scalable, and simple-to-deploy device that will revolutionize how we approach our National Security and law enforcement concerns.
- So **REVOLUTIONARY** that it will have the same impact on our national security the microwave has had in our kitchens!
- Next steps: Demos, investment funds, production



Ross Shariati - President

rs@picknextgen.com

866.690.2940

www.picknextgen.com