

# Domestic Nuclear Detection Office

## *Emerging Technologies for Large Event Monitoring*

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U.S. DEPARTMENT OF  
HOMELAND SECURITY  
**Homeland  
Security**

# ***DNDO Background***

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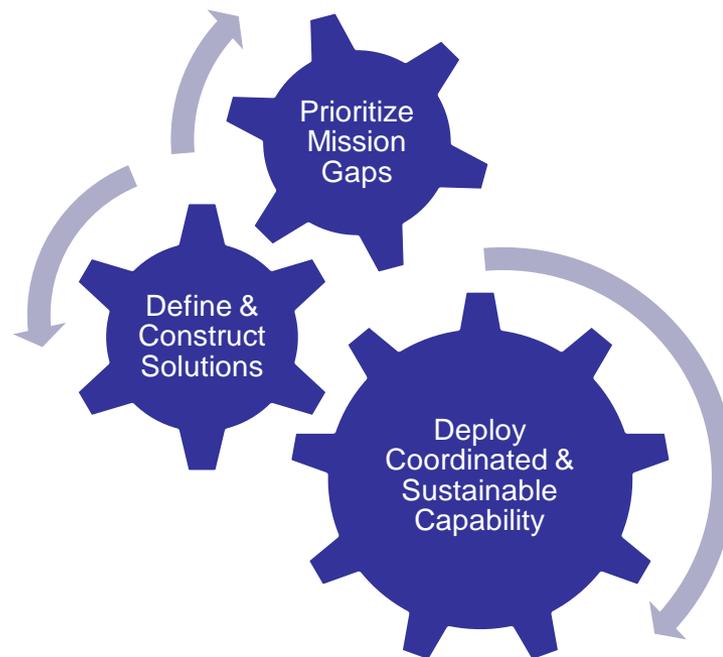
## **Mission**

Prevent nuclear terrorism by continuously improving capabilities to deter, detect, respond to, and attribute attacks, in coordination with domestic and international partners.



Domestic Nuclear Detection Office (2005)

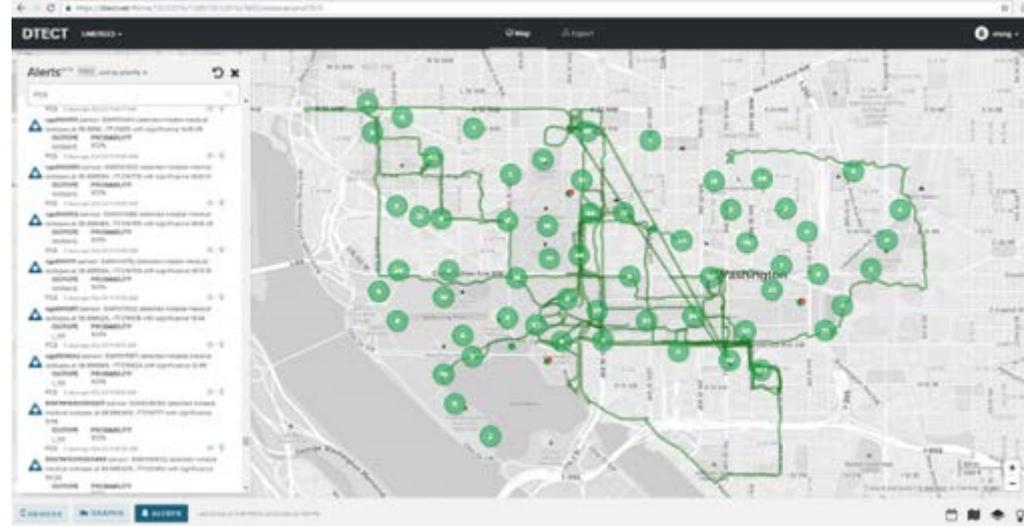
*“To improve the Nation’s capability to detect and report unauthorized attempts to import, possess, store, develop, or transport nuclear or radiological material for use against the Nation, and to further enhance this capability over time.”*



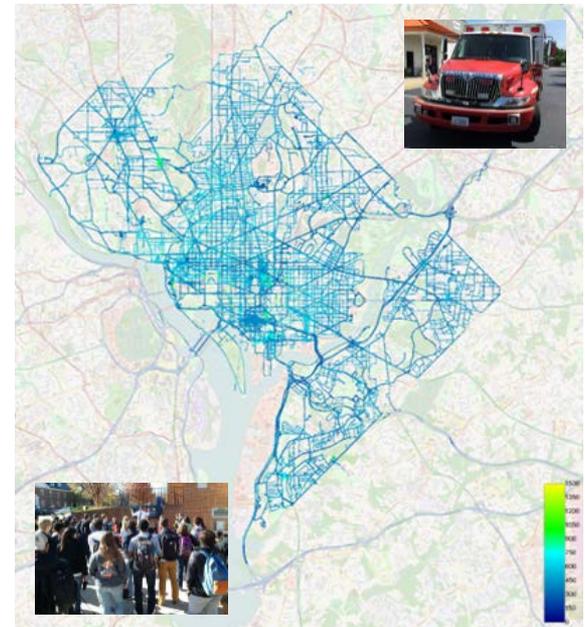
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Systems presented for illustration, and do not constitute an express or implied Government endorsement.

# SIGMA Program



Massive deployment of inexpensive but effective mobile and static networked detectors to provide continuous monitoring.

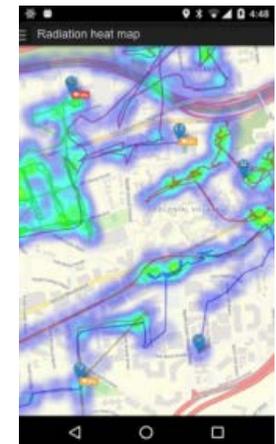
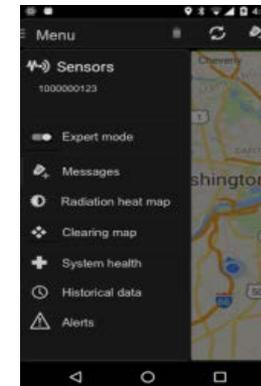


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# Wearable Intelligent Nuclear Detection (WIND)

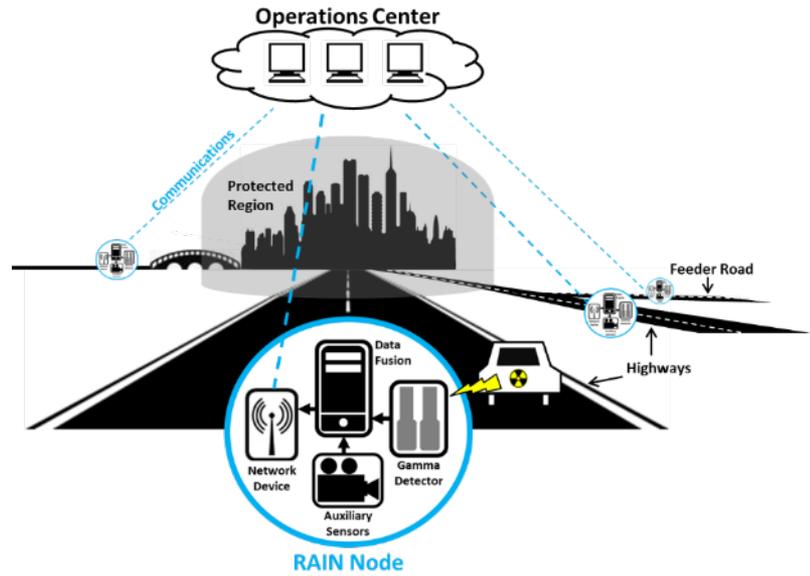


Open system architecture and ergonomically designed backpack and vest device that enables identification and localization while seamlessly integrating operationally deployed detection networks.



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# Radiation Awareness and Interdiction Network (RAIN)

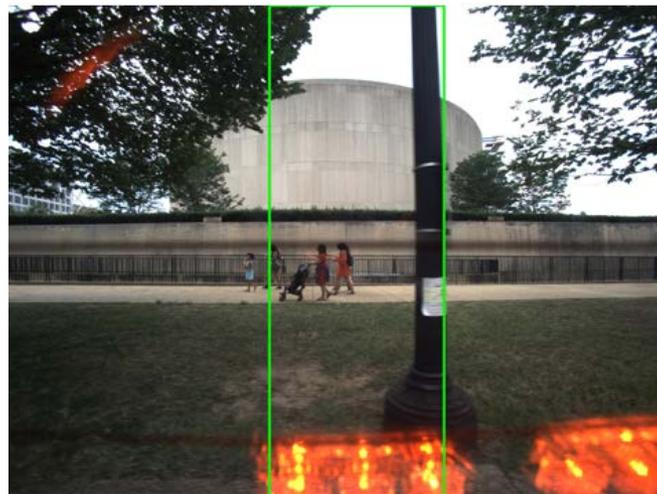
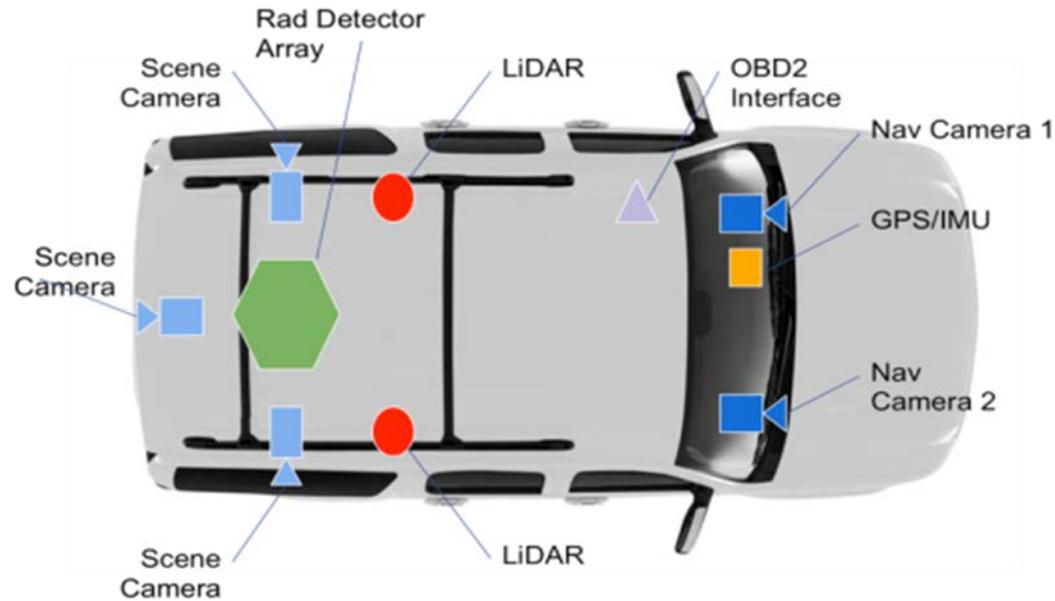


Vehicle scanning at highway speeds to provide actionable information to law enforcement – fused radiation detectors, cameras, and license plate readers.

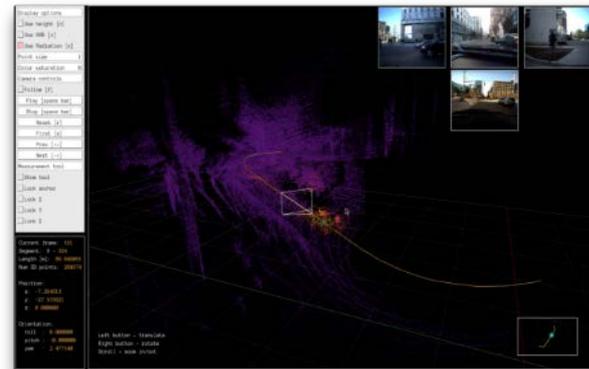


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# Mobile Urban Radiation Search (MURS)



Fusion of radiation detectors with other sensors (LIDAR and cameras) enhances awareness and usability for searching urban areas.



# *Questions?*

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