

**NDIA**

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2008 HOMELAND SECURITY

## S&T STAKEHOLDERS CONFERENCE WEST

PUTTING FIRST RESPONDERS FIRST

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SCIENCE AND TECHNOLOGY



LOS ANGELES CONVENTION CENTER • LOS ANGELES, CA

JANUARY 14-17, 2008  
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EVENT # 0800

## TechSolutions Solutions for First Responders

**Greg Price**

**Director, TechSolutions**

**First Responder Technologies**

**Science and Technology Directorate**

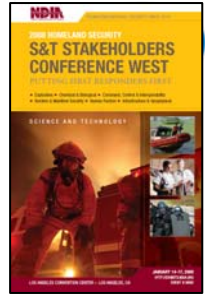
**Department of Homeland Security**

***“Putting First Responders First”***



**Homeland  
Security**  
Science & Technology

# What is TechSolutions?



The mission of TechSolutions is to rapidly address technology gaps identified by Federal, State, Local, and Tribal first responders

- Field prototypical solutions in 12 months
- Cost should be commensurate with proposal but less than \$1M per project
- Solution should meet 80% of identified requirements
- Provide a mechanism for Emergency Responders to relay their capability gaps
  - Capability gaps are gathered using a web site ([www.dhs.gov/techsolutions](http://www.dhs.gov/techsolutions))
- Gaps are addressed using existing technology, spiral development, and rapid prototyping
- Emergency Responders partner with DHS from start to finish

# TechSolutions Web Page



DHS | S&T Tech Solutions - Microsoft Internet Explorer

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Address http://www.dhs.gov/xfrstresp/training/gc\_1174057429200.shtm

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### First Responders

Grants

Training

Standards and Guidelines

Local Resources

**National Threat Advisory:**  
**ELEVATED**

Significant Risk Of Terrorist Attacks

The threat level in the airline sector is **High** or **Orange**. Read more

### S&T Tech Solutions

The TechSolutions Program was established by the Department of Homeland Security's Science and Technology Directorate to provide information, resources and technology solutions that address mission capability gaps identified by the emergency response community.

The goal of TechSolutions is to field technologies that meet 80% of the operational requirement, in a 12 to 15 month time frame, at a cost commensurate with the proposal but less than \$1 million per project. Goals will be accomplished through rapid prototyping or the identification of existing technologies that satisfy identified requirements.

**Only first responders are eligible to submit capability gaps to the TechSolutions web site (Please, no unsolicited proposals or grant requests).** If you are a first responder who has identified a capability gap that impacts multiple departments or sectors of the first response community or has an idea that would aid fellow first responders in doing their job faster, safer, and more efficiently, please relay your idea or capability gap to the DHS TechSolutions Program using the email link below. Submissions should be 3 typed pages or less, created in Microsoft Word, using Arial Regular 10pt font. Please include your contact information so that we may update you on the status of your submission.

The TechSolutions e-mail address is [techsolutions@dhs.gov](mailto:techsolutions@dhs.gov).

TechSolutions is not the appropriate forum for vendors to submit product ideas. Vendors who have a technology or product idea that may be of interest to the Department should communicate their idea to the Department's unsolicited proposal Web site [http://www.dhs.gov/xopnbiz/opportunities/editorial\\_0617\\_shtm](http://www.dhs.gov/xopnbiz/opportunities/editorial_0617_shtm).

TechSolutions is not the appropriate forum for agencies or departments seeking grant assistance for technologies that already exist. Agencies or departments seeking grant assistance should visit [www.grants.gov](http://www.grants.gov) or contact their State Administrative Agency at [www.ojp.usdoj.gov/odp/contact\\_state.htm](http://www.ojp.usdoj.gov/odp/contact_state.htm).

*This page was last modified on October 5, 2007*

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U.S. Department of Homeland Security

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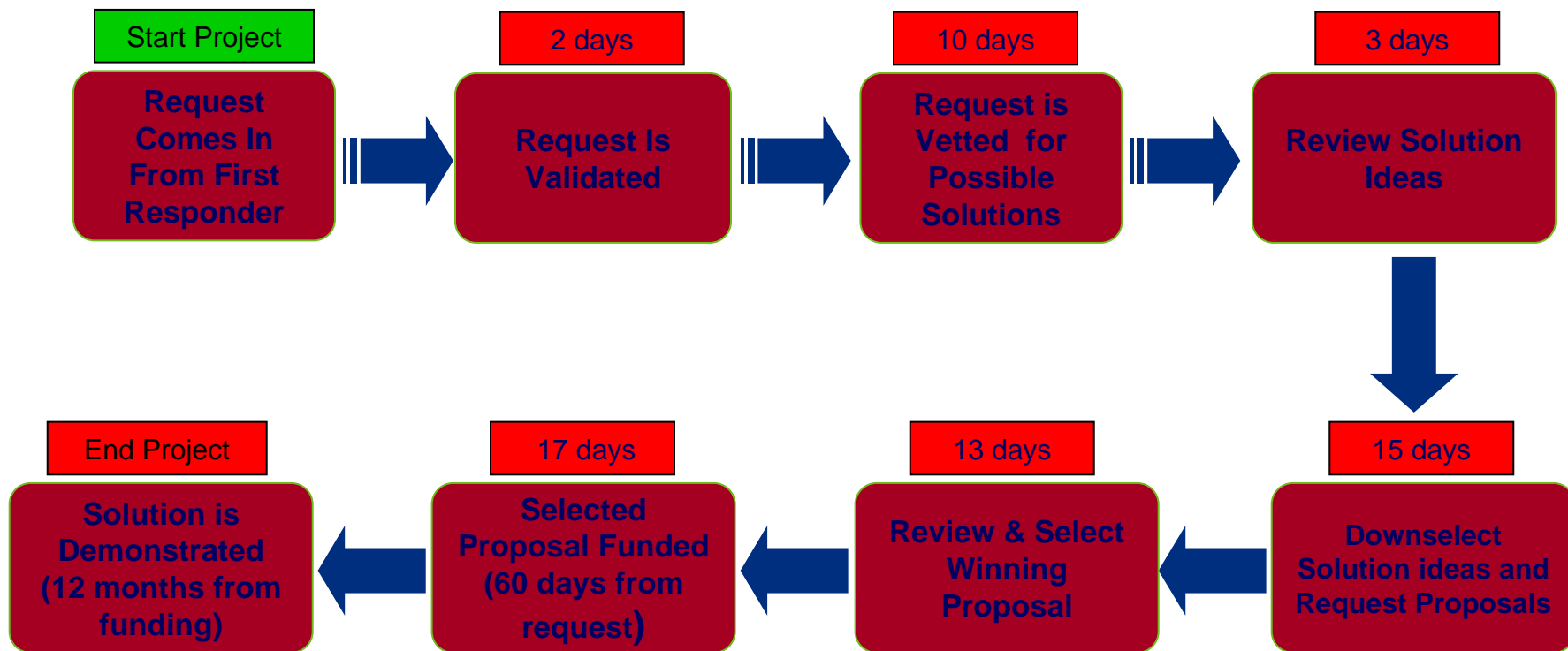
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# TechSolutions Review Process



**Submitter and Technical Experts involved throughout**



**Homeland Security**

# TechSolutions Investments



Customer	Project Name	Status
Border Patrol	Carrizo Cane	Funded
Fire Service	3-D Personnel Location	Funded
EMT	Ocular Scanning	Funded
Coast Guard	Biometric Identification	Funded

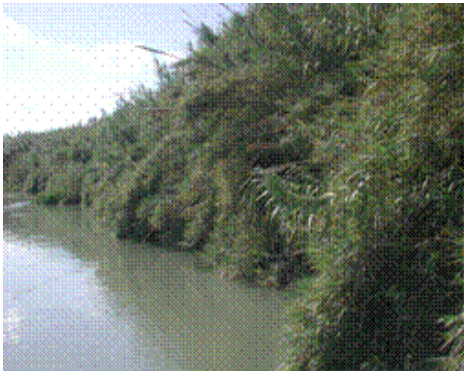


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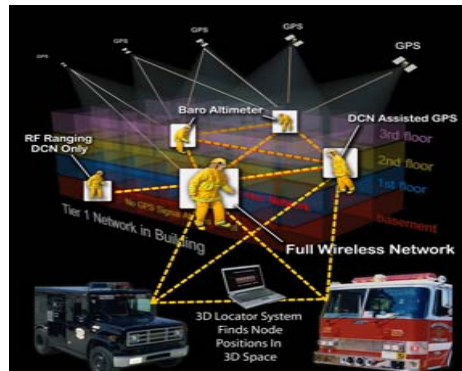
# TechSolutions Investments



## Carrizo Cane Eradication



## 3-D Location



## Ocular Scanning



## Biometric Identification



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

# Technologies Under Consideration



**Next Generation Breathing Apparatus**



**Fire Ground Compass**



**Interoperable Communications**



**Vital Sign Monitoring**



**Vehicle Mounted Chem/Bio Sensor Detection**



# Questions?



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# Homeland Security

Science and Technology