Overview of NIJ Solicitation Development Process

Greg Ridgeway, Ph.D. Acting Director



- Physical Science and Technology
 - Driven by needs of the field
- Forensic Science
 - Driven by research community
- Social Science
 - Driven by numerous factors: NIJ social scientists,
 Congress, research community



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Setting the Technology Research Agenda

Other Input

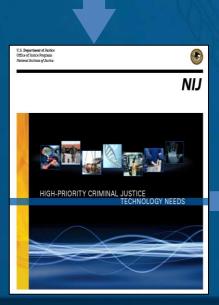


Research Challenges in Combating Terrorist
Use of Explosives in the United States

Subcommittee on Domestic Improvised
Explosive Devices
December 2008

TWGs identify needs





U.S. Department of Justice Office of Justice Programs National Institute of Justice The U.S. Department of Justice, Office of Justice Programs, National Institute of Justice is seeking applications for funding research and development of sensor or surveillance technologies, or novel applications of those technologies, to address specific needs the field of criminal justice. This program furthers the Department's mission by sponsoring research to provide objective, independent, evidence-based knowledge and tools to meet the challenges of crime and justice, particularly at the State and local Solicitation: Sensors and Surveillance **Technologies** Eligibility (See "Eligibility," page 4) Deadline All applications are due by October 30, 2006, 11:59 p.m. eastern time Contact Information For assistance with the requirements of this solicitation, contact Chris Miles, Senior Program Manager, Research and Development Technology Division, 202–616–1110, This application must be submitted through Grants.gov. For technical assistance with submitting the application, call the Grants.gov Customer Support Hotline at 1–800–518-4726. Grants.gov Funding Opportunity No. 2007-NIJ-1434 SL# 000757





NIJ Maintains Numerous TWGs...

- Aviation
- Biometrics
- Body Armor
- Communications
- Community Corrections
- Court Technologies
- **DNA Forensics**
- Electronic Crime
- Explosive Device Defeat
- General Forensics
- Geospatial Technologies
- Information-Led Policing
- Institutional Corrections
- Less-Lethal Technologies
- OR/Modeling and Simulation
- Personal Protection Equipment
- Pursuit Management
- School Safety
- Sensors and Surveillance



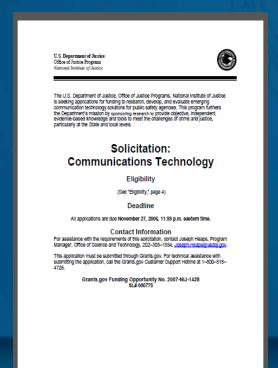
NIJ Maintains Numerous TWGs... Slightly Fewer Now

- Aviation
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Dynamic Spectrum Access Was an Identified Need

- Communication TWG noted:
 - Wireless data technology able to seamlessly access required spectrum in a mobile environment



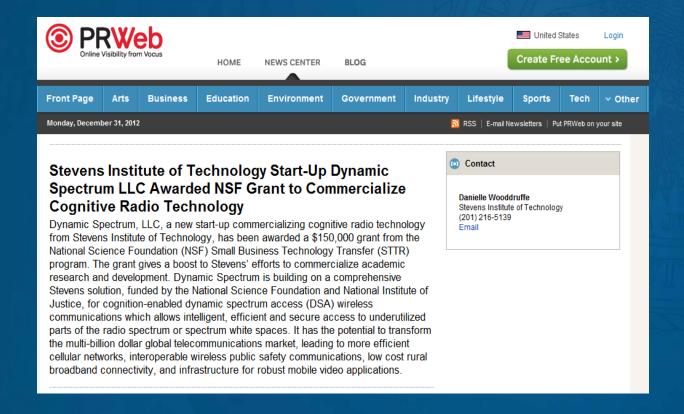


Stevens Institute of Technology Proposed a Solution

• "In this project we propose to research and develop software defined radio based cognitive radio technologies that facilitates public safety radios to dynamically occupy and release spectrum whenever and wherever they are available in the public safety bands." (2007)



Dynamic Spectrum Startup Now Commercializing New Technology





Current Structure Has Limitations

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Limitations

- High cost
- Narrow focus
- Impact is hard to measure
- Subject to overlooking needs



No TWG Addressed Officer Safety Generally

- Aviation
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In 2010

- 56 officers killed feloniously
- 63 officers killed in traffic accidents



Moved Toward 'Community of Practices'

- Aviation
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Policing
Courts
Corrections



'Community of Practices' Approach Addresses Limitations

- Cost savings
- Capture a broader set of needs
 - Policy and practice needs as opposed to technology needs
- Better alignment with stakeholder organizations
 - IACP, NCSC, ACA



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Forensic Science Offers Two Broad Research Solicitations

Basic Research	Basic scientific research in the physical, life, and cognitive sciences
Applied Research	Applied research and development projects that will:(1) increase knowledge or understanding necessary to guide forensic science policy and practice(2) useful materials, devices, systems, or methods that have the potential for forensic application
	Aim to develop highly discriminating, accurate, reliable, cost-effective, and rapid methods for the identification, analysis, and interpretation of physical evidence for criminal justice purposes.



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Social Scientists, NIJ Leadership, Tradition Drive Most Solicitations

- Passion-driven examples
 - Predictive Policing
 - Research on Offender Decisionmaking
 - Desistance from Crime Over the Life Course
- On key issues we solicit, but are less prescriptive
 - Trafficking
 - White Collar Crime
 - Firearm Violence
- Traditional programs
 - Data Resources Program
 - Graduate Research Fellowship
 - W.E.B. Du Bois Fellowship



Congress and Other Agencies Requests a Few Specific Solicitations

Congress

- Research on Domestic Radicalization
- Research on Violence Against Women
- Responses to Violence Committed Against Indian
 Women Living in Tribal Communities
- Research on Residential Substance Abuse Treatment
- Other Agencies
 - Research on Youth with Sexual Offending Behavior
 - Evaluation of Homicide Reduction Initiative
 - Violence and Victimization in Oil Camps



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