

Infrastructure Geophysical Division Overview

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**Homeland
Security**

Science & Technology

Infrastructure Geophysical Division

Mission:

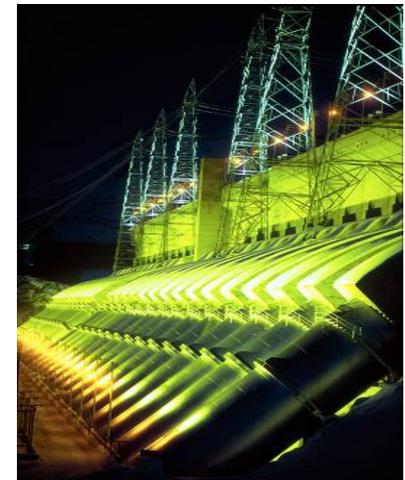
- Increase the Nation's preparedness for and response to **natural** and man-made threats through superior situational awareness, enhanced emergency responder capabilities, and critical infrastructure protection

Customers:

- DHS Office of Infrastructure Protection (OIP)
- DHS Federal Emergency Management Agency (FEMA)

End-users:

- First responders
- S/L/Fed emergency managers
- Infrastructure owners and operators



Thrust Areas/Programs

Critical Infrastructure

- Protective Technologies
- Modeling, Simulation and Analysis
- Advanced Surveillance
- Rapid Response and Recovery



Preparedness and Response

- Incident Management Enterprise
- Integrated Modeling, Mapping and Simulation for Incident Planning and Response
- Personnel Monitoring and Tracking



Geophysical

- Resilience
- Natural Disaster Recovery
- SAFE



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What we need:

Critical Infrastructure Protection

- Advanced surveillance
- Hardening technologies
- Automatic response/repair
- Rapid reconstruction
- Insights for private industry technical directions
- Critical Infrastructure Sector requirements

Incident Management

- Insight into internal R&D programs
- Systems in harsh and difficult environments
- Plug & Play, interoperable, distributed modeling & simulation
- Intelligent, easy to use, secure workflow IM engines
- Innovative System integration framework/platform
- Integrated First Responder protection systems

Geophysical

- Hurricane mitigation
- Storm surge defeat
- Long-term, sustainable solutions
- Early warning for all hazards
- Affordable protection
- Flood proofing





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