

# EXPLORATORY ADVANCED RESEARCH

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# SAFETEA-LU

- Public Law 109-59: The Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) modified chapter 5 of Title 23 to establish an Exploratory Advanced Research Program. The specific language in the law is:

- *(g) EXPLORATORY ADVANCED RESEARCH PROGRAM.—Section 502(e) of such title (as redesignated by subsection (b) of this section) is amended to read as follows:*



# PROGRAM OBJECTIVE

- This program shall support scientific investigations and studies to advance the current knowledge and state of the art in the sciences and technologies employed in the planning, design, construction, operation, maintenance, and management of the Nation's highways. Strategically, this research will enable and expedite the development of revolutionary approaches, methodologies, and breakthroughs required to drive innovation and greatly improve the efficiency of highway transportation.



# FUNDING

- \$14 Million per year Fy2005 to Fy2009
- \$70 million total
- \$10.0 million is available for funding multiple efforts in FY2007.



# BAA

- **PROPOSER INFORMATION PACKET  
(PIP)  
SUPPLEMENT TO BAA DTFH61-07-R-  
00117  
EXPLORATORY ADVANCED  
RESEARCH PROGRAM**



# Dates

- BAA Opens (19 January 2007).
- FY2007 BAA Pre-proposals Due March 30 2007.
- FY2007 BAA Full Proposal Invitations May 1 2007.
- FY2007 BAA Full Proposal Due June 15 2007.
- FY2007 BAA Initial Contract Awards September 30 2007.
- BAA Closes One Year from Publication Date.



# FHWA FOCUS AREAS

- Highway Safety.
- Dramatic Breakthroughs in Planning and Environment.
- Innovative Solutions to Understanding and Applying Transportation Policy.
- Innovative Operations Solutions to Reduce Traffic Congestion.
- Innovative Infrastructure Solutions.
- Cross-cutting Exploratory Advanced Research.



# Advanced Research in Geospatial Science and Information Technologies for Transportation

- Focus: The Application of Geospatial Science and Information Technologies to Transportation to provide useful tools to meet Future Transportation Challenges.





# AREAS OF INTEREST

- High resolution environmental monitoring systems such as satellite and airborne remote sensing;
- Location-aware technologies that allow fine-grained tracking of vehicles, objects and people;
- Databases for managing spatial-temporal and moving objects data;
- Tools for exploring and analyzing complex and massive spatial-temporal data;
- Methods for simulating transportation at the micro level
- Data standards and information
- Others



# NEXT STEP

- Workshop, Sept. 2007
- Sponsored by TRB
- Develop List of areas with most potential
- Outline potential research
- Encourage Proposals



# FUTURE

- Your Ideas/Proposals

