Imaging Products Laboratory for Emergency Response (IPLER)
A NSF Partnership for Innovation (PFI) Program
1st IPLER Workshop
October 30, 2009
The Laboratory for Imaging Algorithms and Systems (LIAS) Overview

31 January 2007
LIAS is Complementary to DIRS

Digital Imaging and Remote Sensing (DIRS) Research
- Basic Scene Phenomenology
- Imaging Chain Physics

LIAS
- Implementation
- System Integration

Fundamental science and algorithms

Basic Research (DIRS)

Applied Research (LIAS)

Prototype (Pre-Deployment) Systems

Field data for research and validation
LESAM
Landscape-based Environmental System Analysis & Modeling

A collaborative interdisciplinary research lab linking UB research centers of excellence:

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Partnerships for Innovation (PFI) Program

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Fall 2009
PFI PROGRAM GOALS

- Stimulate the transformation of knowledge created by the research and education enterprise into innovations that create new wealth, build strong local, regional and national economies and improve the national well-being;

- Broaden the participation of all types of academic institutions and all citizens in NSF activities to more fully meet the broad workforce needs of the national innovation enterprise; and

- Catalyze or enhance enabling infrastructure necessary to foster and sustain innovation for the long-term.
PFI Background

- **Started in 2000**
  - Senate initiated
    - EPSCoR Model
      - Expand further to ‘underserved’ institutions and/or regions
  - NSF Working Group formed
    - Developed PFI Program
- **Budget:** FY 2009 $9.19M
  - FY 2010 $9.56M
- Award up to $600,000
- Duration 2 to 3 Years
Features of PFI Program

- Broad Solicitation topic
  - Constrained this past round (NSF 080583) by eligibility requirements experience PFI graduate (person/s and administering institution.
- One “lead” academic institution and one from the private sector at a minimum
  - Broad representation of lead institutions including HBCUs, minority-serving & tribally-controlled institutions, community & technical colleges
  - Partners include large, small businesses & non-profits, federal, state and local governments, other academic institutions and community involvement
  - Unusually broad mix of several players of a number of different types within a single PFI award as compared to other NSF programs
- One proposal per “lead” institution
  - Dean or higher senior administrator as PI or Co-PI
  - Cuts across several school/departments/centers within academic institutions
- Coordination of partners for activity is key
  - Focused on the achievement of mutually agreed upon goals
  - Well defined roles and responsibilities
  - Clear commitments
  - Sustainable long term plan
PFI PROGRAM

- **Uniqueness**
  - Composition of the partnerships
  - Breadth of constituency
  - Intra-institution partnerships
  - Topic and anatomy of partnership are researchers’ choice
  - New: foster partnerships drawing on the PFI community
Questions?

RESEARCH at RIT