

# AFFRL

THE AIR FORCE RESEARCH LABORATORY  
LEAD | DISCOVER | DEVELOP | DELIVER



## Small Business Innovation Research (SBIR) Workshop

Welcome • 2 June 2009

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Air Force Research Laboratory  
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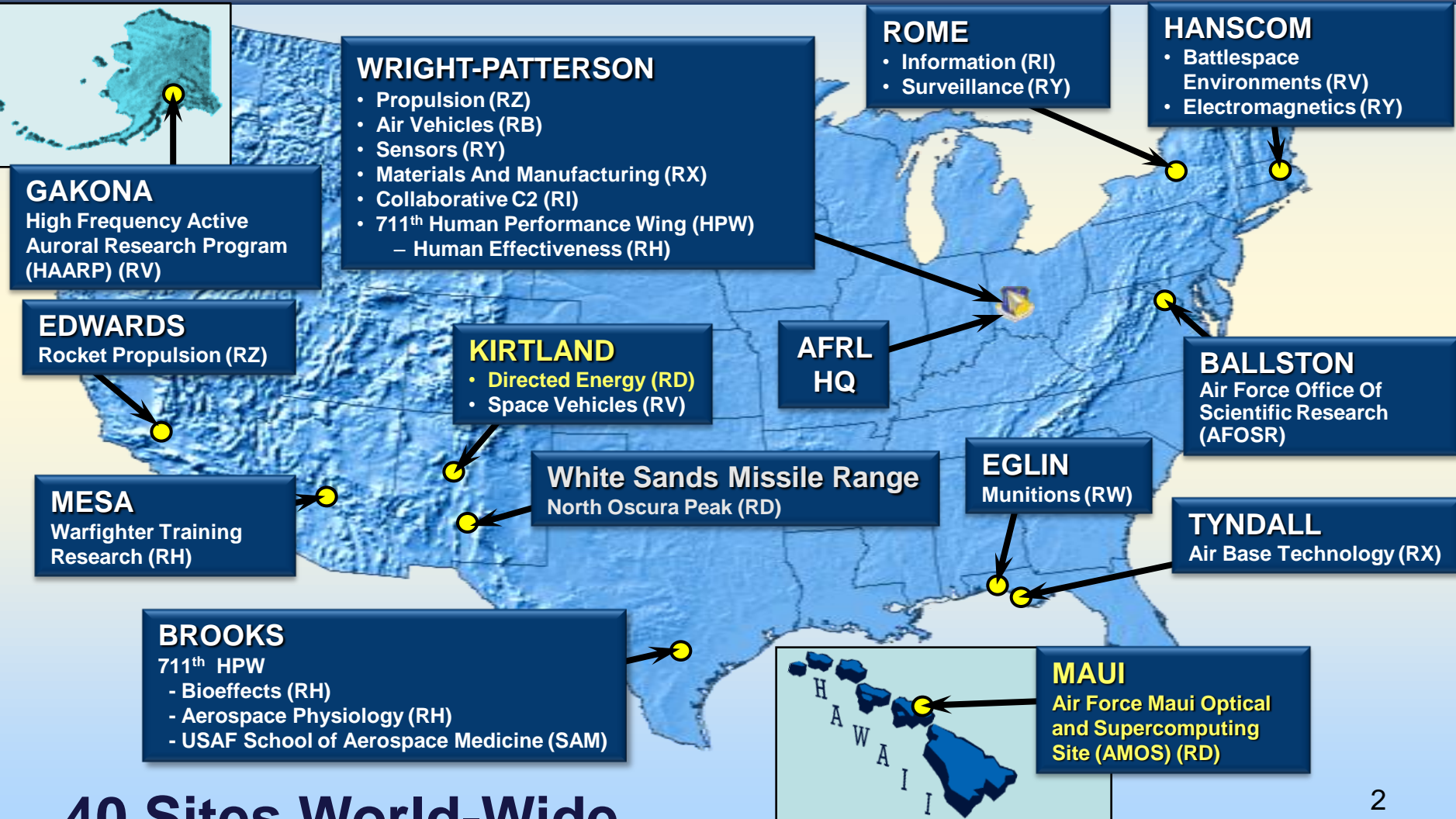


# Air Force Research Laboratory

## 9 Technical Directorates, 1 Wing, and AFOSR



### Directed Energy Dominance in the Battlespace



40 Sites World-Wide



# Mission and Vision

## AFRL/Directed Energy Directorate



*Directed Energy Dominance in the Battlespace*

Lead the discovery, development, and delivery of directed energy science and technology for National Security.



*Directed Energy  
Dominance in the Battlespace*



# Core Technical Competencies

## AFRL/Directed Energy Directorate



### *Directed Energy Dominance in the Battlespace*



Airborne Tactical Laser



Laser Testbed



Starfire Optical Range

### *High Energy Lasers*

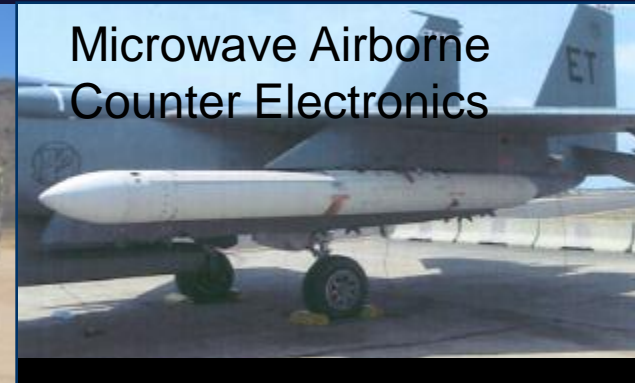
### *Beam Control*



*Modeling, Simulation, and Effects*



Active Denial System 2



Microwave Airborne Counter Electronics

### *High Power Microwaves*



# Dominance Through Innovation

## AFRL/Directed Energy Directorate



*Directed Energy Dominance in the Battlespace*

### **GOAL:**

Increase innovation through research in Directed Energy to meet the needs of the nation now and in the future

### **PATH:**

Create a balance between internal and external research

### **TOOL:**

Small Business Innovation Research (SBIR)

Website: [www.sbir.gov](http://www.sbir.gov)



# Success Through Partnerships

## AFRL/Directed Energy Directorate



*Directed Energy Dominance in the Battlespace*

### **Government**

- SBIR Offices
  - Air Force
  - Phillips Research Site
- The Small Business Office
- Product Centers
- National Laboratories
- Scientists and Engineers

### **Industry**

- New Mexico Optics Industry Association
- Professional Aerospace Contractors Association
- Directed Energy Professional Society
- Technology Ventures Corporation
- Small Businesses

***DE has the Power to Change the face of military conflict.***

***There is nothing more difficult to take in hand, more perilous to conduct, or more uncertain in its success than to take the lead in the introduction of a new order of things.***

Niccolo Machiavelli, Italian Political Philosopher, 1469-1527

# Directed Energy Dominance in the Battlespace

