

# PACER

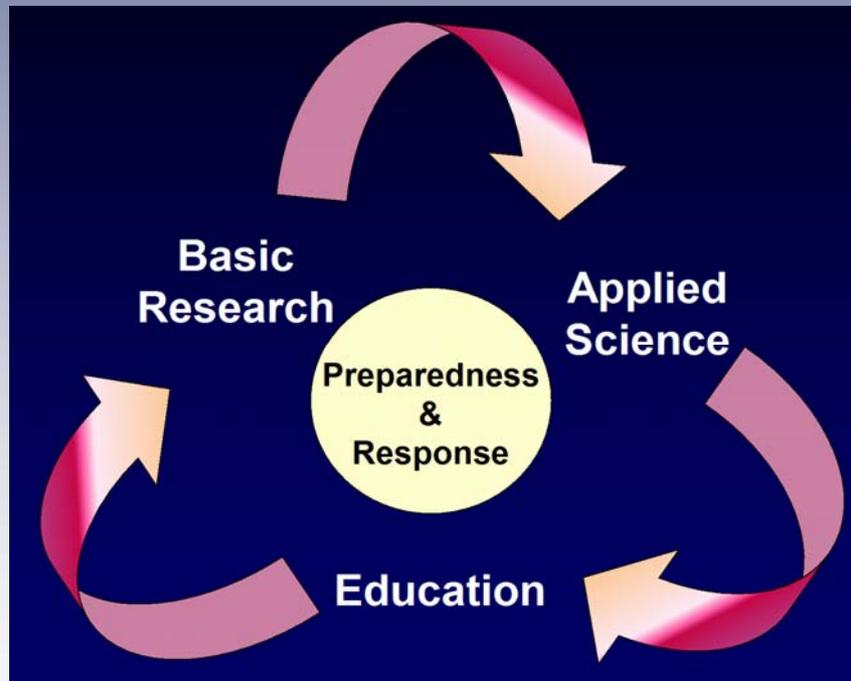


A HOMELAND SECURITY  
CENTER OF EXCELLENCE

## National Study Center for Preparedness and Catastrophic Event Response

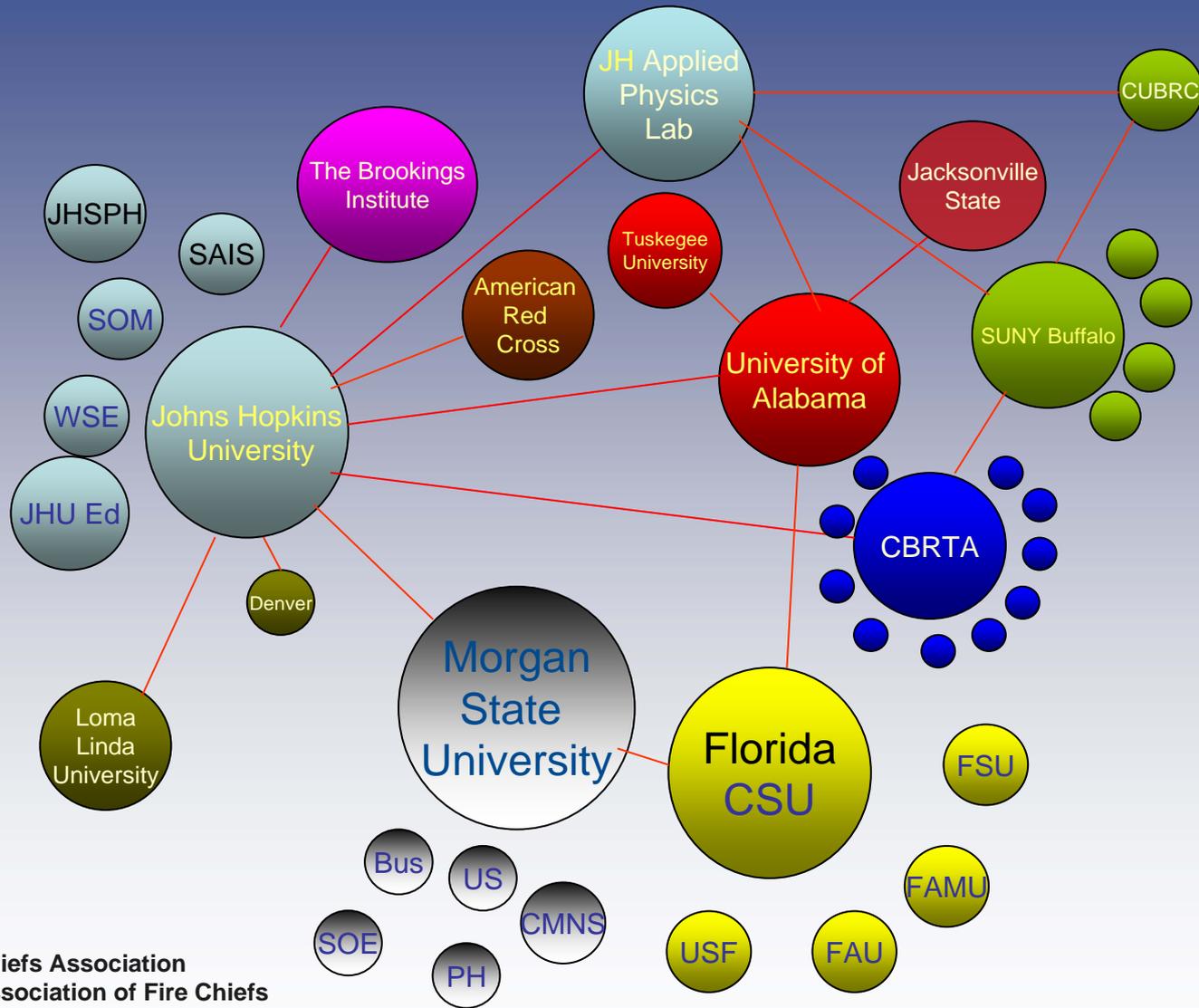
*Science Integration and Framework*

**APPROACH:** “To establish the scientific foundation and principles of practice...”



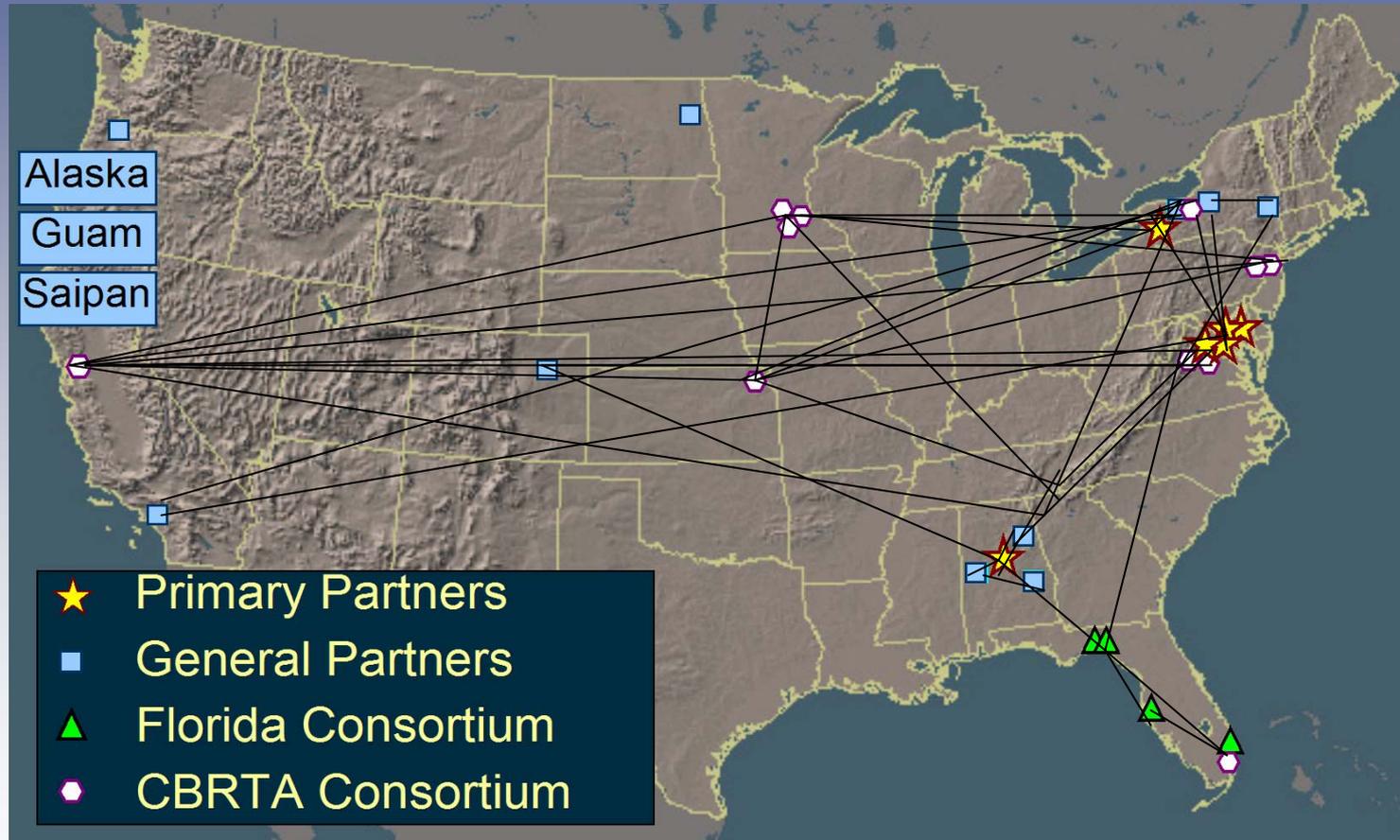
- Science
- Language
- Standards
- Application
- Education

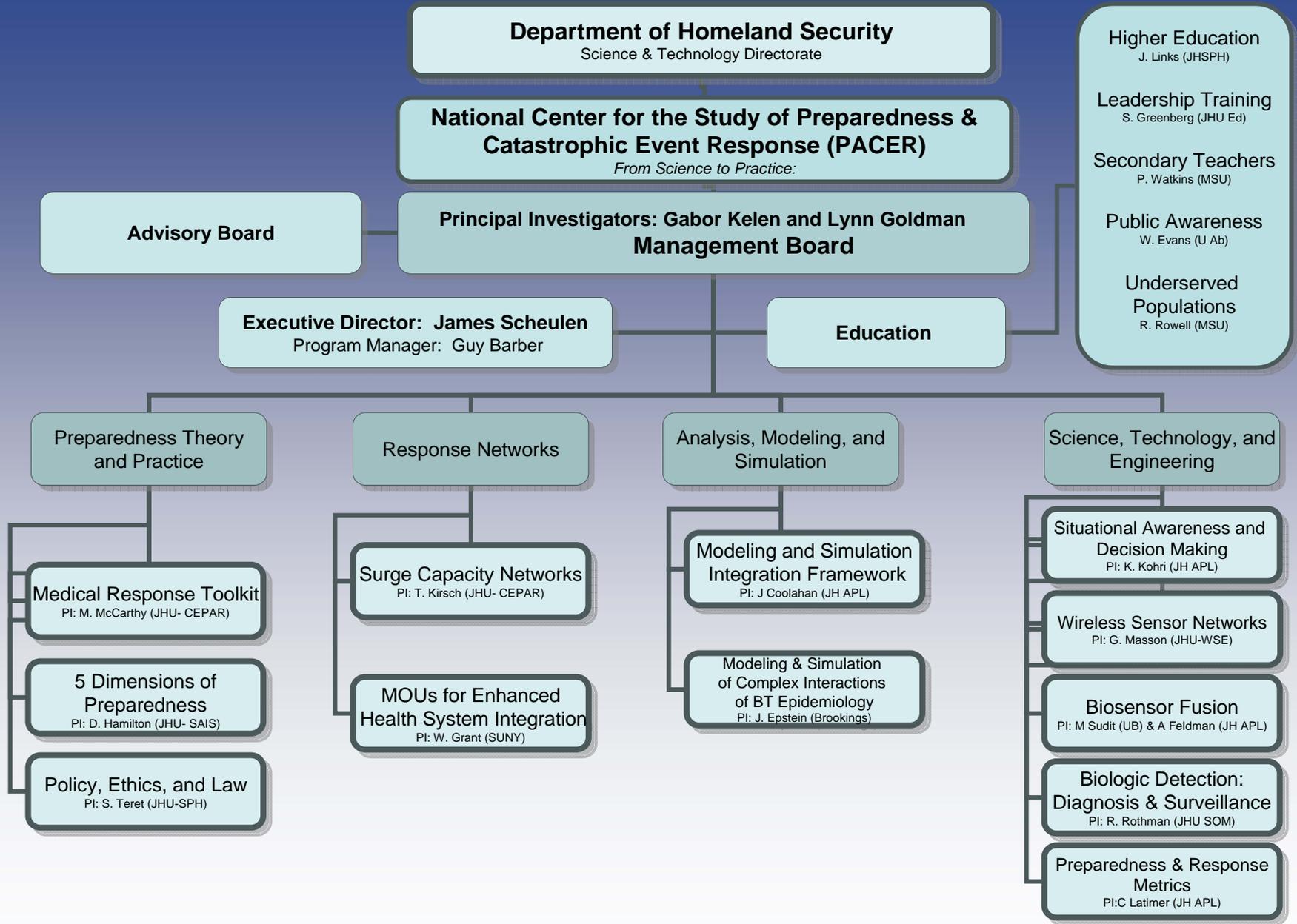
# SCIENCE - Partners from Academia, Industry, and Government



Major Cities Chiefs Association  
 International Association of Fire Chiefs  
 MEMA,  
 DC EMA,  
 MIEMSS  
 Media, Publishers

# National Center for the Study of High Consequence Event Preparedness and Response: Partners Relationships





# A: Preparedness Theory and Practice

## Medical Response Toolkit (JHU)

- Derive and validate scalable response capacity measurement instruments
- **Melissa McCarthy 2c**

## 5 Dimensions of Preparedness (SAIS)

- Integrated approach of deterrence, dissuasion, diplomacy, defense, and denial
- **Dan Hamilton 1b**

## Policy, Ethics, and Law (JHSPH)

- A virtual law firm in service to the center for the study of high consequence event preparedness and response
- **James Hodge 2c**

# B: Networks

## Surge Capacity Networks (JHO-CEPAR)

- Define the “Informal Network”
- Develop standardized survey tools to be used to analyze/assess informal network
- Develop recommendations for Informal Network integration

Tom Kirsch Infrastructure/Geo

## Assessment and Recommendation for Standardization of Memoranda of Understanding (MOUs) for Enhanced Health System Integration (SUNY)

- Develop best practices

# C: Simulation and Modeling

## Modeling and Simulation Integration Framework (APL)

- Multiple Simultaneous Effects
- Event, Behavior, Economics, Response
- Universal Platform (Federation)

## Modeling & Simulation of Complex Interactions of BT Epidemiology (Brookings)

- Event, Behavior, Economics, Response

# D: Science, Technology, and Engineering

Situational Awareness & Decision Making (APL)

- Standard or Model CONOPS
- Communications and Information Fusion

Wireless Sensor Networks (JHU-WSE)

Biosensor Fusion Standards (U of Buffalo / APL)

- Moises Sudit 1E

Biologic Detection: Diagnosis and Surveillance (JHU)

- Richard Rothman 1E

Preparedness & Response Metrics (APL)

# E: Education (Morgan/JHSPH)

- Higher Education (JHSPH)
- Leadership Training (JHU Ed)
- Secondary School Teachers (MSU)
- Public Awareness (Alabama)
- Underserved Populations (MSU)
  - Randy Rowel, Infrastructure/Geo

