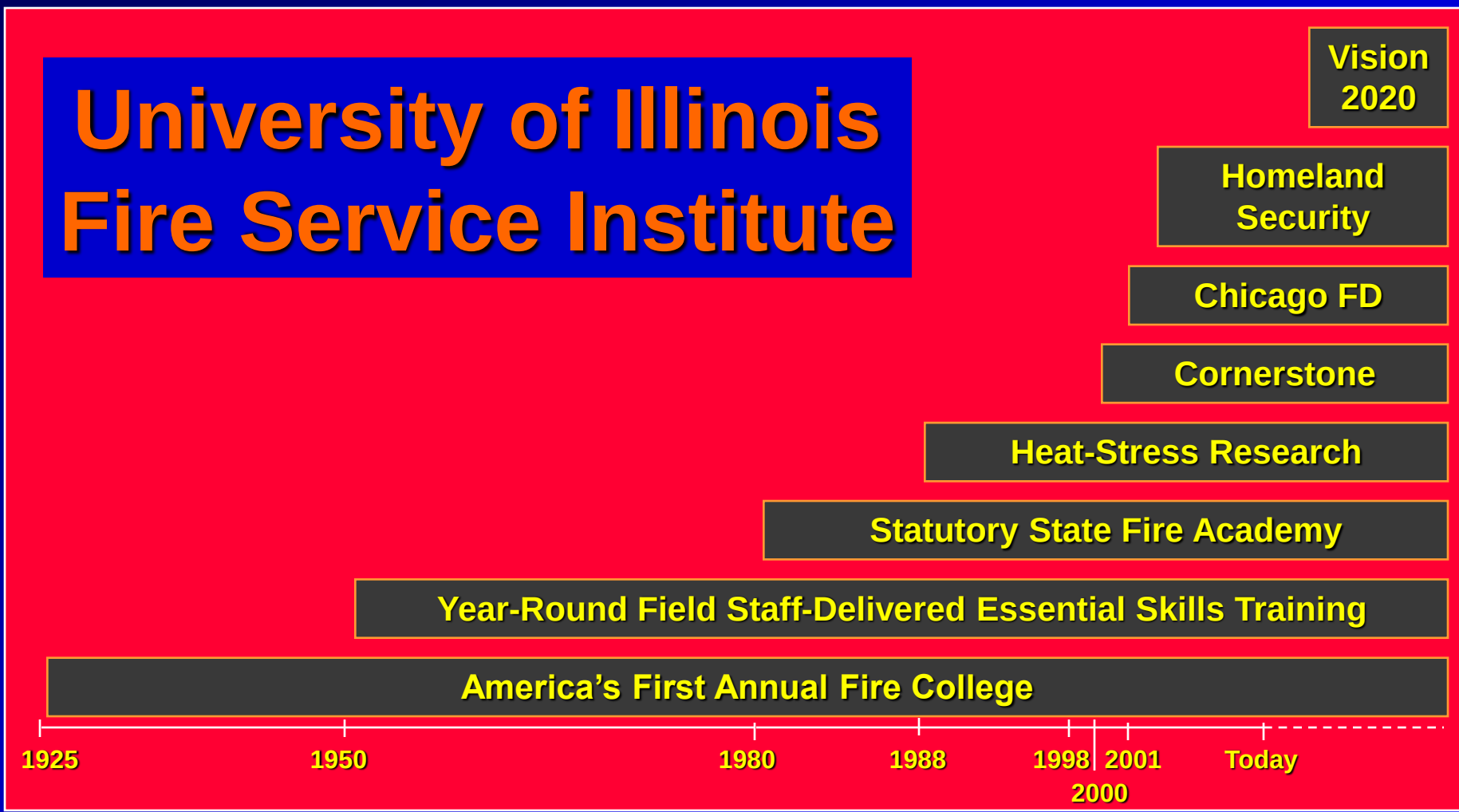
University of Illinois Fire Service Institute

"Assisting public & private Illinois fire departments through **EDUCATION, TRAINING, CONSULTING, MEASUREMENT and EVALUATION SERVICES**"

P.A. 81-1147

Eight Plateaus of Growth in Serving Illinois Firefighters

University of Illinois Fire Service Institute



FY 2010 Delivery of Training

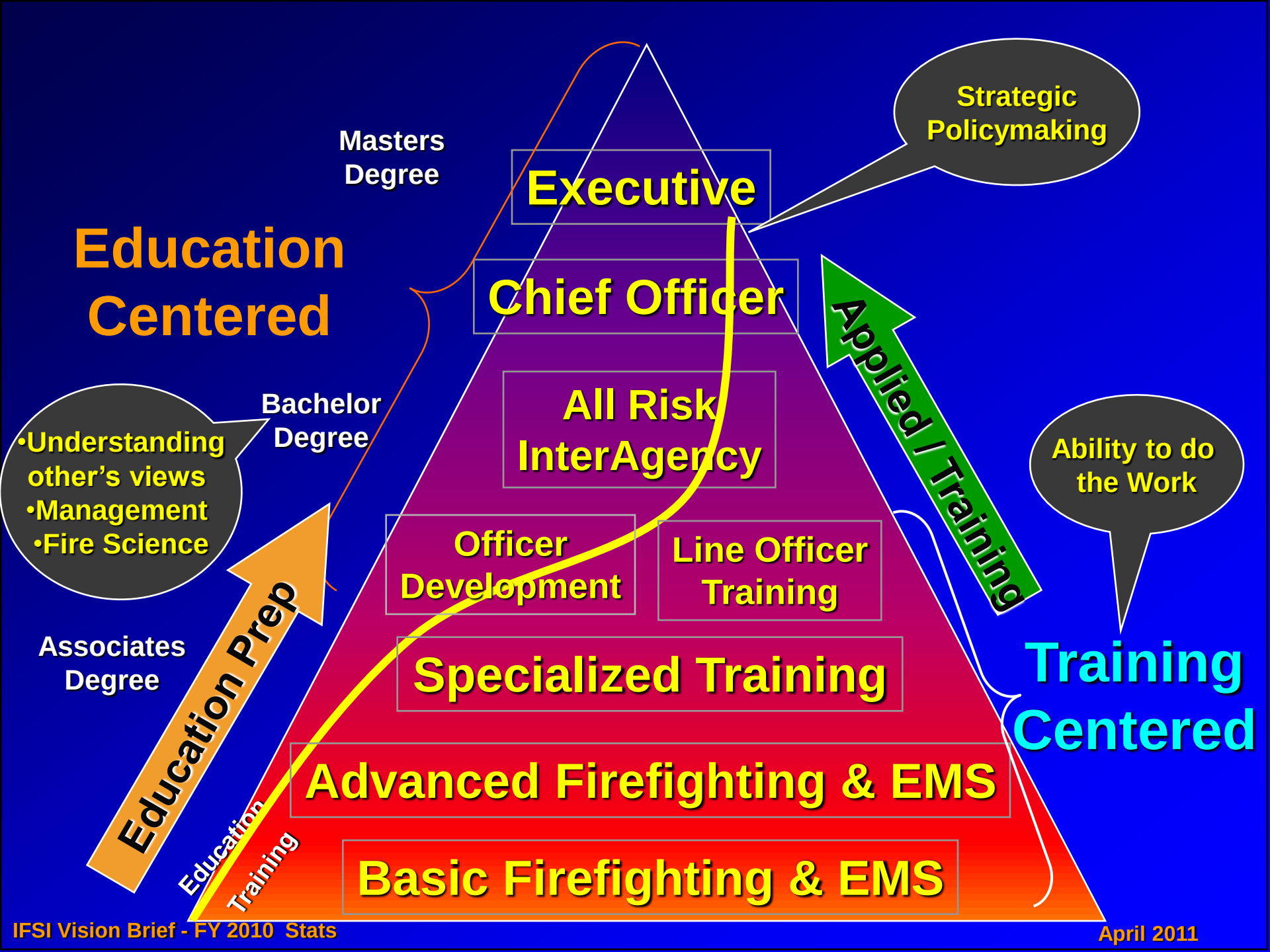
- 1,083 classes
- 52,379 students
- 584,892 student instructional hours
- 26,692 class hours
- 310+ locations
- 85% (994) of Illinois Fire Departments in 100% (102) of Illinois counties

FY2010 figures

10 – for – 1

1. Firefighter / Police Officer State certification
2. State Continuing education requirements
3. Annual national regulatory requirements; e.g., CFR 1910.120 (HAZMAT), 1910.134 (SCBA) and 1910.146 rescue).
4. Dual certificates with IFSI and the National Fire Academy.
5. Meet interagency training requirements.
6. Meet grant performance requirements.
7. Meet National Incident Management System (NIMS) & National Response Plan (NRP) training requirements as established by Presidential Directive and the DHS.
8. Meet current National Fire Protection Association (NFPA) standards
9. College Credit Equivalency
10. Pro Board Certificate

IFSI Training Facility


Masters Degree
Education Centered
Executive
Strategic Policymaking
Chief Officer
Applied / Training
Bachelor Degree
•Understanding other's views
•Management
•Fire Science
All Risk InterAgency
Ability to do the Work
Officer Development
Line Officer Training
Associates Degree
Education Prep
Specialized Training
Training Centered
Advanced Firefighting & EMS
Education
Training
Basic Firefighting & EMS

Learning Resource & Research Center

Proactive Librarianship at the Illinois Fire Service Institute Library

IFSI Library: Overview

- Organic part of the State Fire Academy on the University of Illinois campus
- Established as an in-house library in 1990, began serving statewide users in 1999
- Collection includes books, journals, audiovisual materials
- Also the repository for historical materials about the Illinois Fire Service and IFSI

Types of Libraries & Librarians

- Reactive
- Proactive

Reactive Libraries

Libraries are traditionally reactive

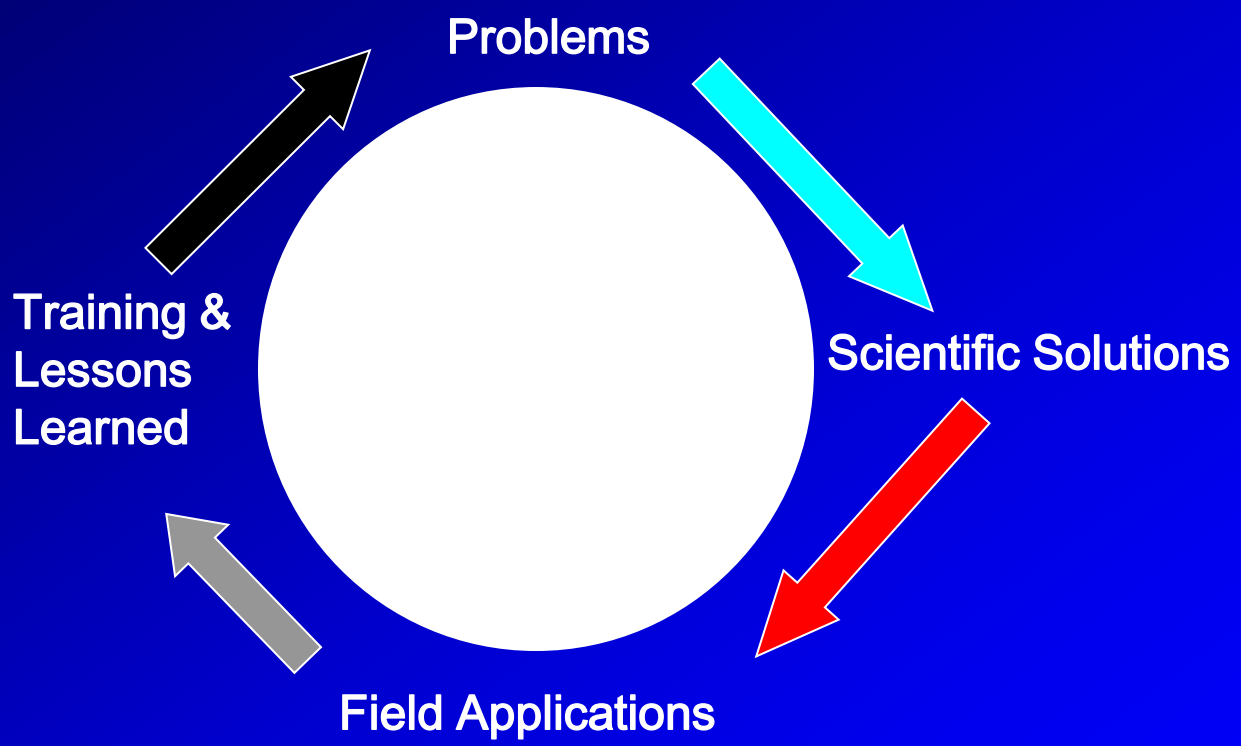
- Users initiate action- usually by asking for information or suggesting a new service
- Service is provided upon request
- Requires extra effort on behalf of the users

Proactive Libraries

Decrease the amount of effort required for use by:

1) Finding new ways to facilitate access to resources
2) Developing innovative tools to integrate the library into the daily tasks of users
3) Anticipating user needs by monitoring interest in other library services
4) Flexible in meeting user needs

Information Requirements



Providing Critical Life Safety Response Time

Scientific Research

Higher Education

Standards

Professional Continuing Education

Codes

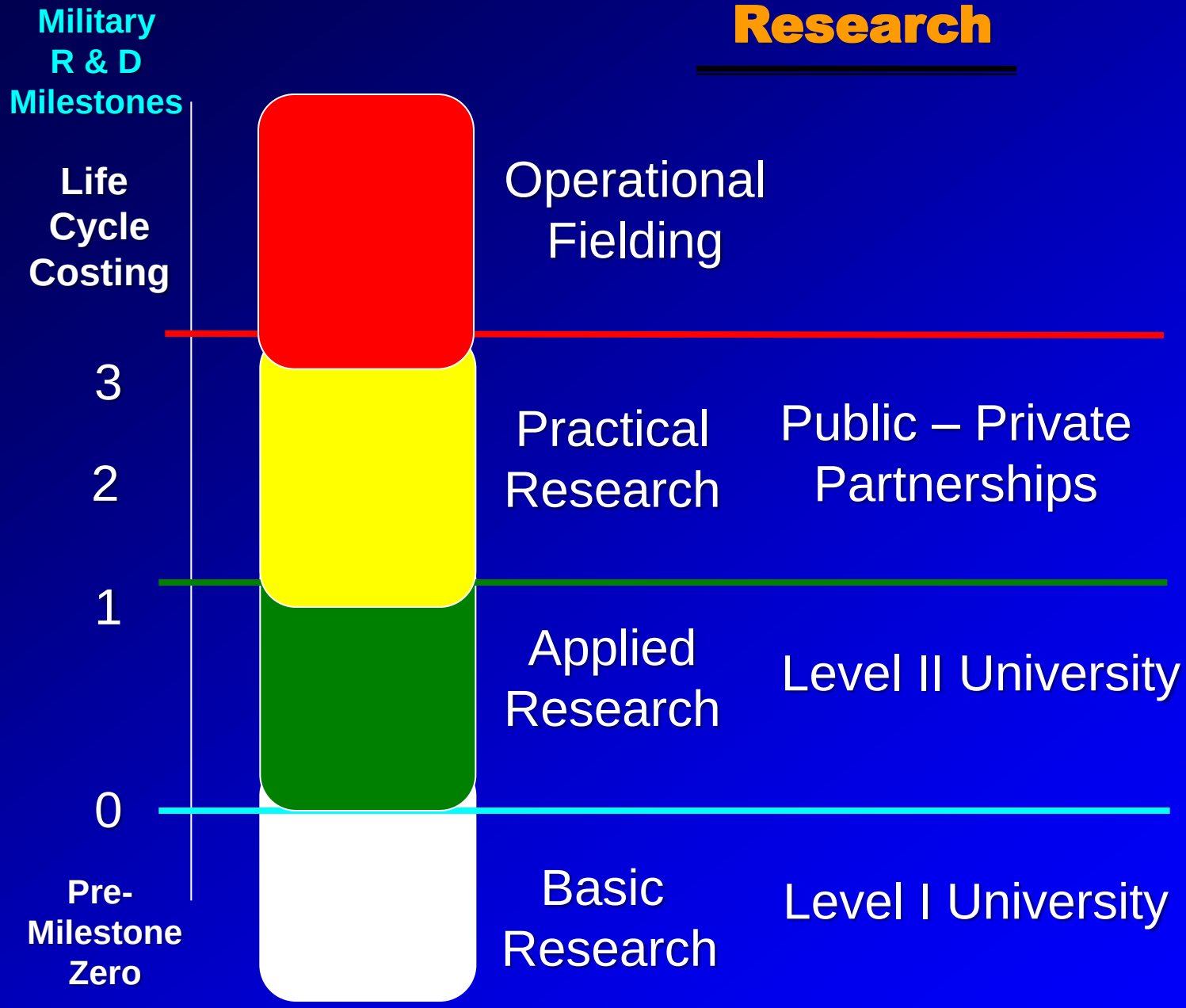
Building Design

Building Operations

Occupant Training & Drills

1st Responder Operational Procedures & Training

Research


Military
R & D
Milestones
Life
Cycle
Costing
3
2
1
0
Pre-
Milestone
Zero
Operational
Fielding
Practical
Research
Public – Private
Partnerships
Applied
Research
Level II University
Basic
Research
Level I University

First Responders
Fire
Law Enforcement
EMS
Emergency Mgt
Interdisciplinary Researchers
Universities
Argonne National Lab
City of Chicago
Homeland Security Research
Public Policy
Federal
Illinois Terrorism Task Force
State Legislature
City of Chicago
Local Communities
Private Sector
Research Park
Public-Private Partnerships

Researchers

- Need to produce sound scientific studies
- Information Searches
  - Problem statements
  - Prior research efforts, methodologies and results
  - Suggested solutions
  - Translations of research into applied science and operations

First Responders

- Translate Research into operational realities
- Tailored Information targeted at different audiences:
  - Frontline responder
  - Supervisor
  - Trainer
  - Chief
  - Elected Officials
  - Public

Private Sector

- **Industry wants to develop marketable and innovative solutions**
- **Information needs:**
  - **Innovations in science**
  - **Applied solutions**
  - **Responder needs and priorities**
  - **Lessons Learned**
  - **Funding sources**
  - **Product distinction**

Public Officials

- Want to make effective & legitimate public policy and efficient use of public resources
- Information needs:
  - What problem does this solve?
  - What is the law?
  - What have other communities done?
  - What does this cost now and over time?
  - How will the public respond to this use of public resources and authority?
  - How can we obtain funding assistance?

Training Programs

Hands-on Live Fire Training

Chicago Programs

Volunteer Fire Fighter Training

Training Firefighters Where they live and Work

- Cornerstone Delivery
  - 316
  - 664 departments
  - 7,848 students
- Illinois Propane Education & Research Council training
  - 66 classes
  - 325 departments
  - 1,999 students

- Illinois Petroleum Resources Board Oil Well Fire Training
  - 2 classes
  - 27 departments
  - 136 students

- Illinois Dept. of Natural Resources Wildland Training.
  - 7 classes
  - 42 departments
  - 208 students

To help firefighters do their work through training, education, information and research.

Fires on the Farm

To help firefighters do their work through training, education, information and research.

Agriculture Rescue

Grain Bin Rescue

To help firefighters do their work through training, education, information and research.

Understanding Anhydrous Ammonia Emergencies

Ethanol & Renewable Alternative Fuels Emergency Response Training & Resources

Ethanol Production Plant Awareness
Emergency Planning & Response Course

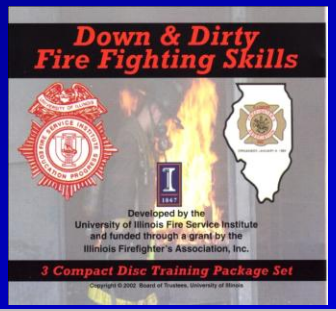
To help firefighters do their work through training, education, information and research.

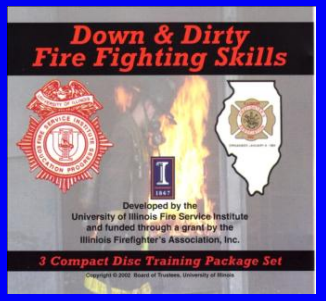
LEARNING AT A DISTANCE

New Online Training Opportunities:

Fire Apparatus Engineer (FAE)

AFG Grant Writing

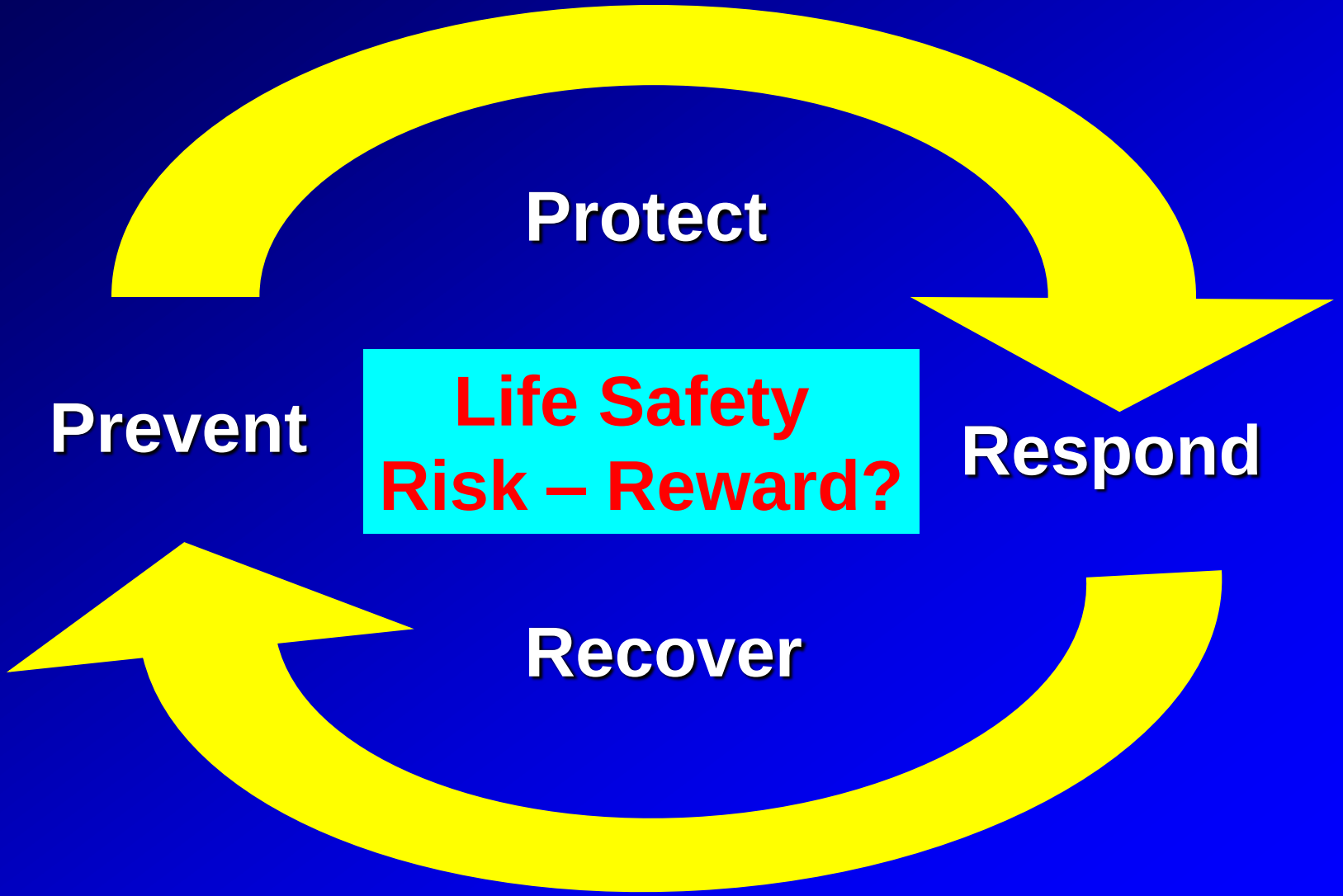




To help firefighters do their work through training, education, information and research.

Homeland Security

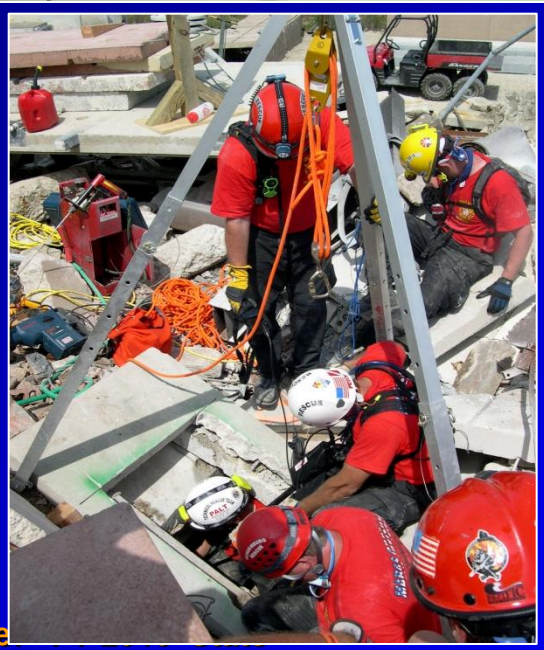
Disaster Response Continuum



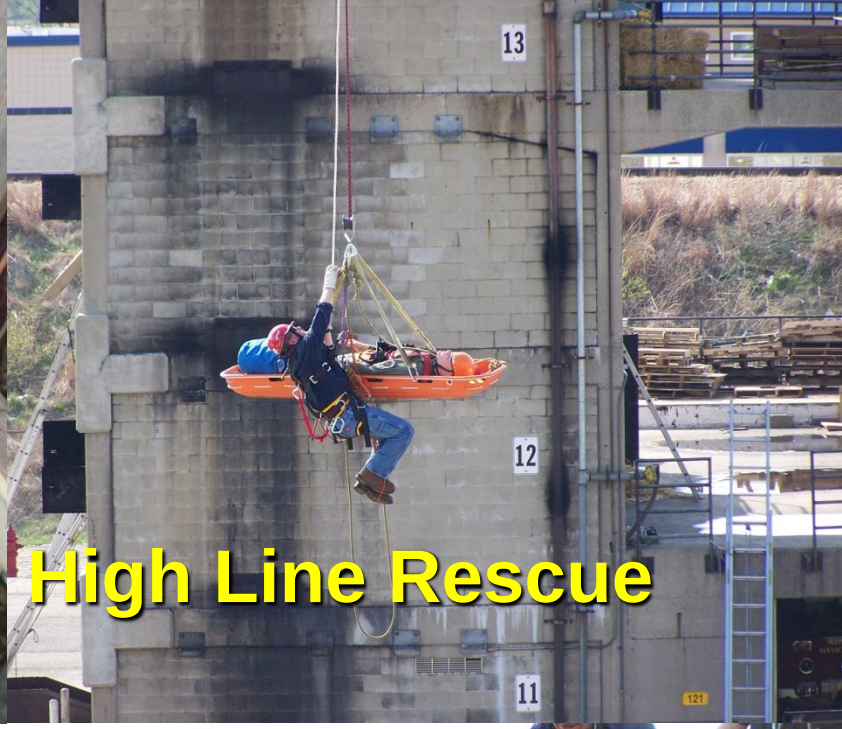
Statewide WMD Response

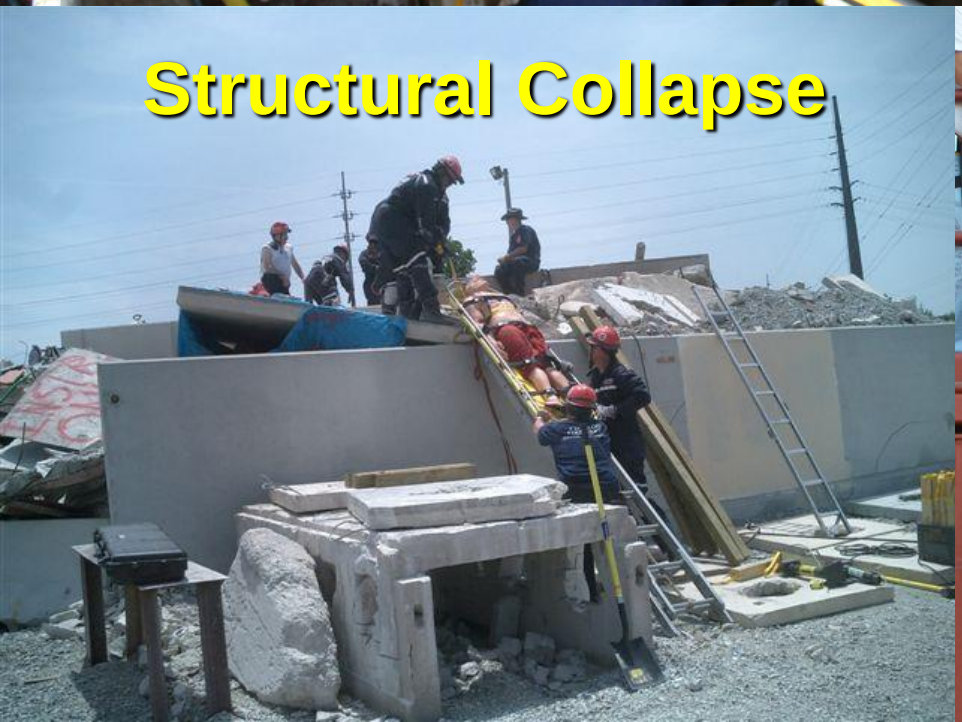
- ☑ Technical Rescue Awareness (direct delivery & online)
- ☑ Rope Rescue Operations
- ☑ Rope Rescue Technician
- ☑ Confined Space Rescue Operations
- ☑ Confined Space Rescue Technician
- ☑ Trench Rescue Operations
- ☑ Trench Rescue Technician
- ☑ Structural Collapse Operations
- ☑ Structural Collapse Technician
- ☑ HAZMAT Awareness (direct delivery & online)
- ☑ HAZMAT Operations
- ☑ HAZMAT Technician A
- ☑ HAZMAT Technician B
- ☑ HAZMAT ICS
- ☑ Unified Command
- ■ MST Team Leaders Course

Technical Rescue



Trench Rescue


High Line Rescue


Structural Collapse

Rope Rescue

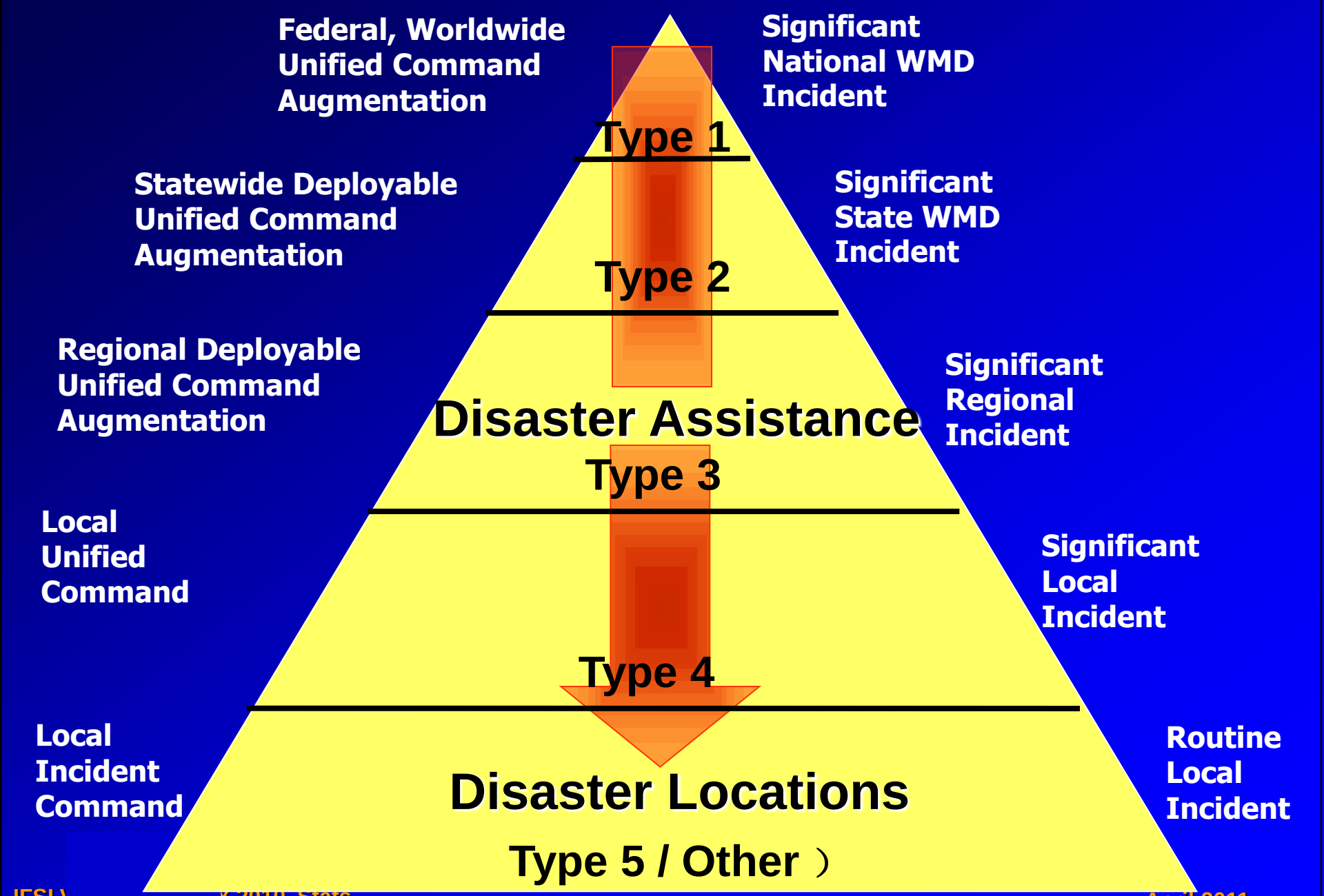
Hazardous Materials

Decision - Response

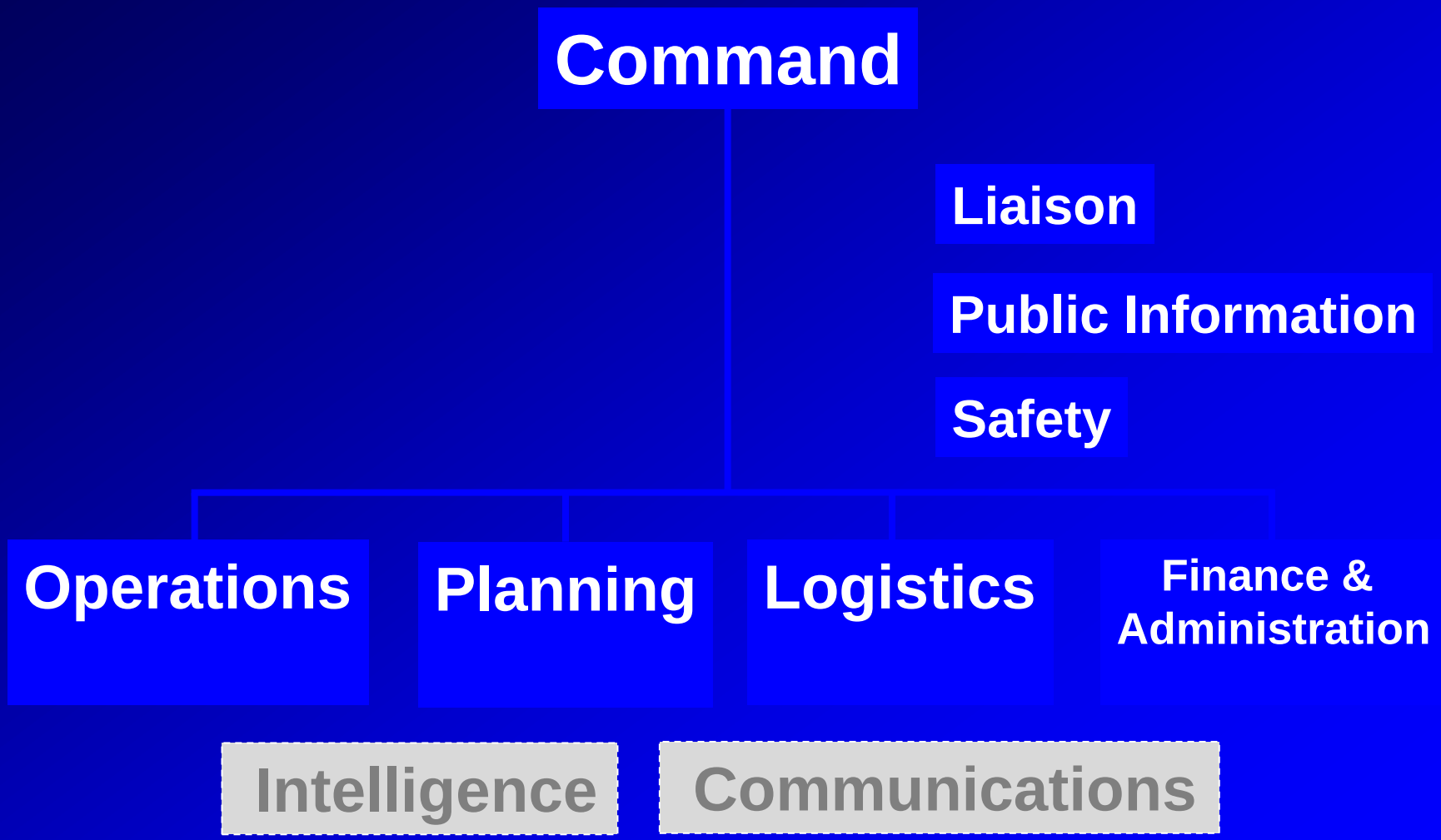
Conducted at all-levels of Response

Driven by Local Situation and Long-Range Plan

Incident Management (Assistance) Teams (IMAT)



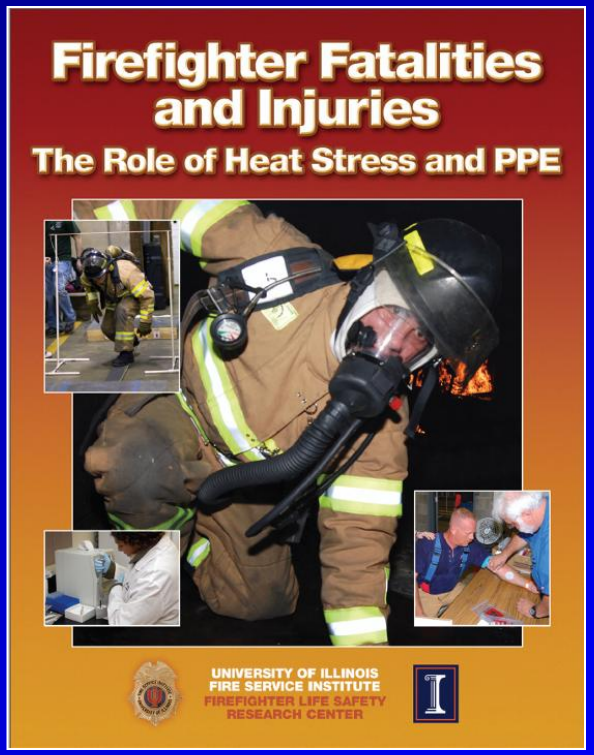
Incident Management Teams (IMT)



Research

Firefighter Life Safety

Fire Protection Engineering

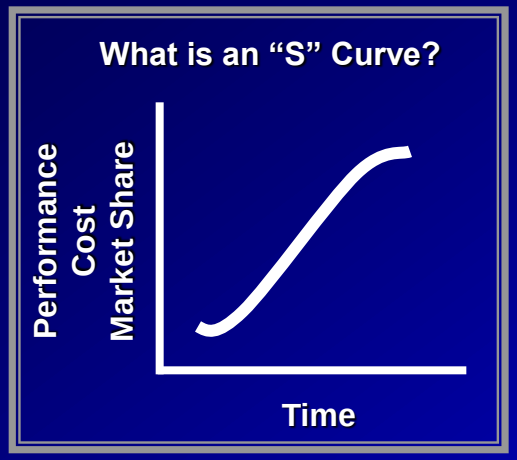


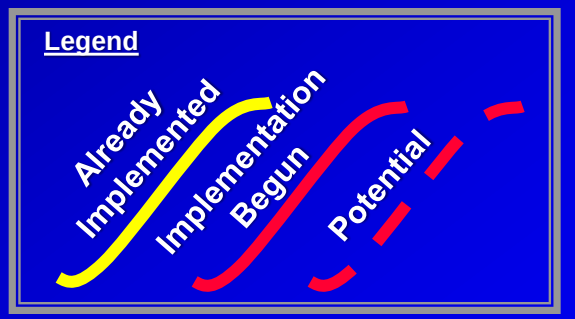
International Partnerships

International Programs

- Hong Kong Fire Services Department
- Indian – Federal Disaster Response System & Gujarat State Emergency Management
- Tsinghua University Center for Public Safety Research
- Beijing & Tianjin City and Province Emergency Managers
- Dalian City (China) Emergency Management
- Dalian University of Technology
- Chinese Librarians
- China Ropeway Association
- Nanjing University of Science & Technology…

IFSI "S" Curves





Cornerstone
Chicago
Library
Homeland Security
Officer Training & Education
IEMA Training
Research
E-Learning
International
National Testing (Pro Board)
Transportation Em Response (Alternative Fuels & Railroad)
Industrial FF Training
"Code" Academy

Hands-on Live Fire, Rescue, HAZMAT & Incident Command Training

Conference Center