



NIEHS Conference, April 4, 2008: Reducing Risk and Protecting Public Health through Research and Training

Deployment Safety and Health: Preparedness, Protection, and Recovery for Federal Responders



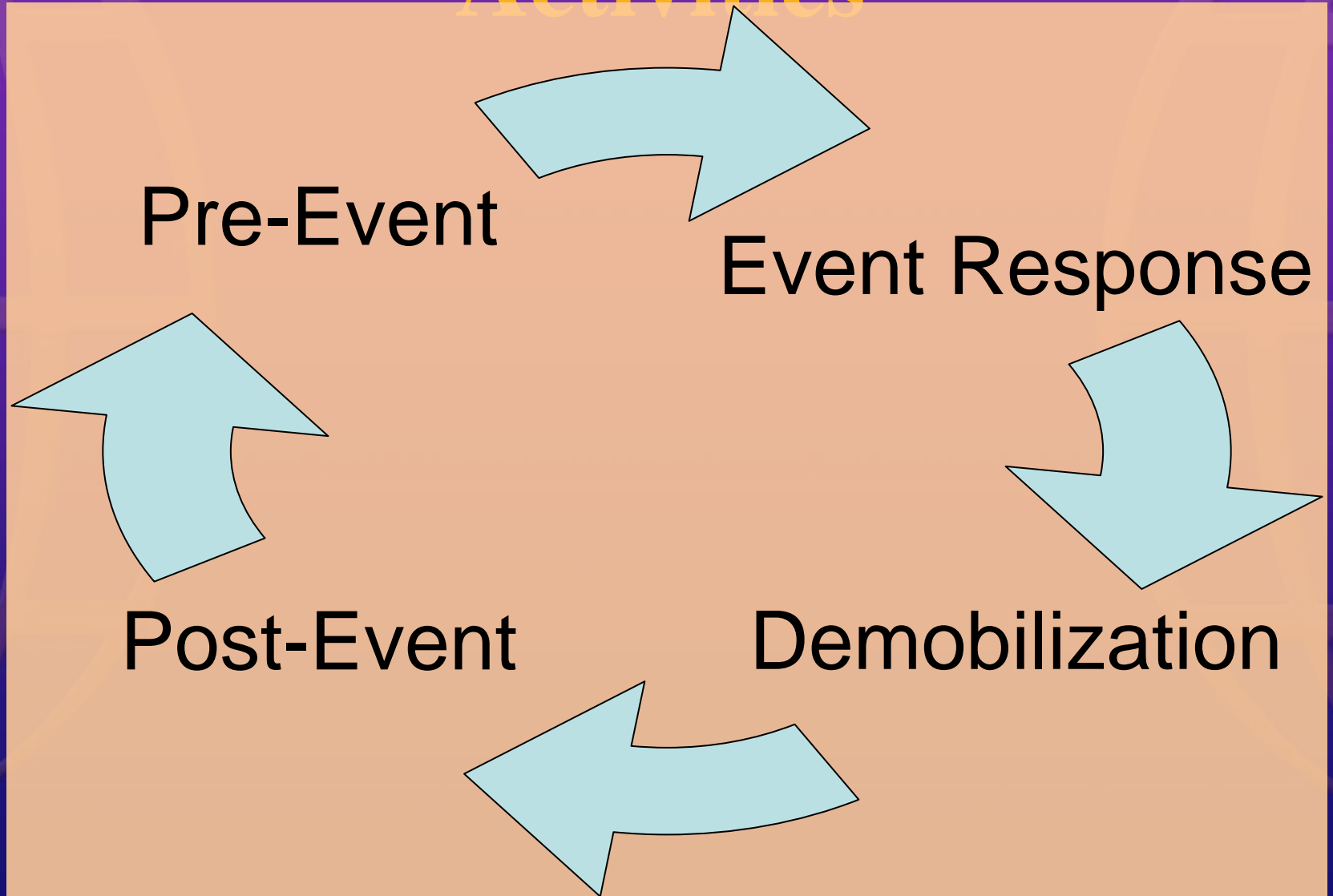
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Goals

- Prevent or mitigate injury and illness from environmental, occupational, and operational threats
- Integrate safety, health, and resiliency into planning and command functions
- Enable investigation of emerging concerns
 - Real-time exposure assessment and control
- Ensure resources and services are available when prevention fails

Safety, Health, Resiliency Activities



Pre-Event (Prepare)

- Criteria for Ready Responder
 - Credentials, education and training, PPE
 - Fitness for duty (medical clearance)
- Personnel tracking system
 - ID # for tracking, verified as ready
 - Interoperability for workforce reporting
- Develop S&H staffing (deploy and reach-back)
- Pre-mission briefing
 - Anticipated hazards and situation awareness
 - Infrastructure for safety, health and resiliency
 - Command, Reporting, Services

Anticipate Responder Risks

- What are the anticipated **job hazards**?
 - Role and task, organization of work
 - Work/rest (fatigue and recovery) cycles
 - Health and safety threats
- What are the **personal risk** variables?
 - Chronic disease and degree of control
 - Current injury or disability
 - Personality, stress tolerance, mental flexibility

Psychologically Prepare!

- Attend to both work and family demands
- Comprehensive stress management
- Anger defusing techniques
- Team building on-the-fly
- Resources for special situations
- Enhance health and safety culture
- Address ethical dilemmas
- Self-care skills and sustainable resiliency

Sources of Deployment Stress

- Role ambiguity
- Mismatch of skills with assigned tasks
- Lack of team cohesion or poor leadership
- Poor health and safety culture for responders
 - **Rest and recovery** not built into schedule
 - Not prepared for psychological hazards
- Competing priorities and reporting chains
- Sensory overload (loss, death, destruction)
- Social disarray (equity and order)

Building Team Resiliency

- Learn about your leadership strengths and weaknesses
- Learn about rapid assessment of skills and limitations in team members
- Learn how to foster team cohesion
- Be familiar with expected roles and team functions
- Build social support systems

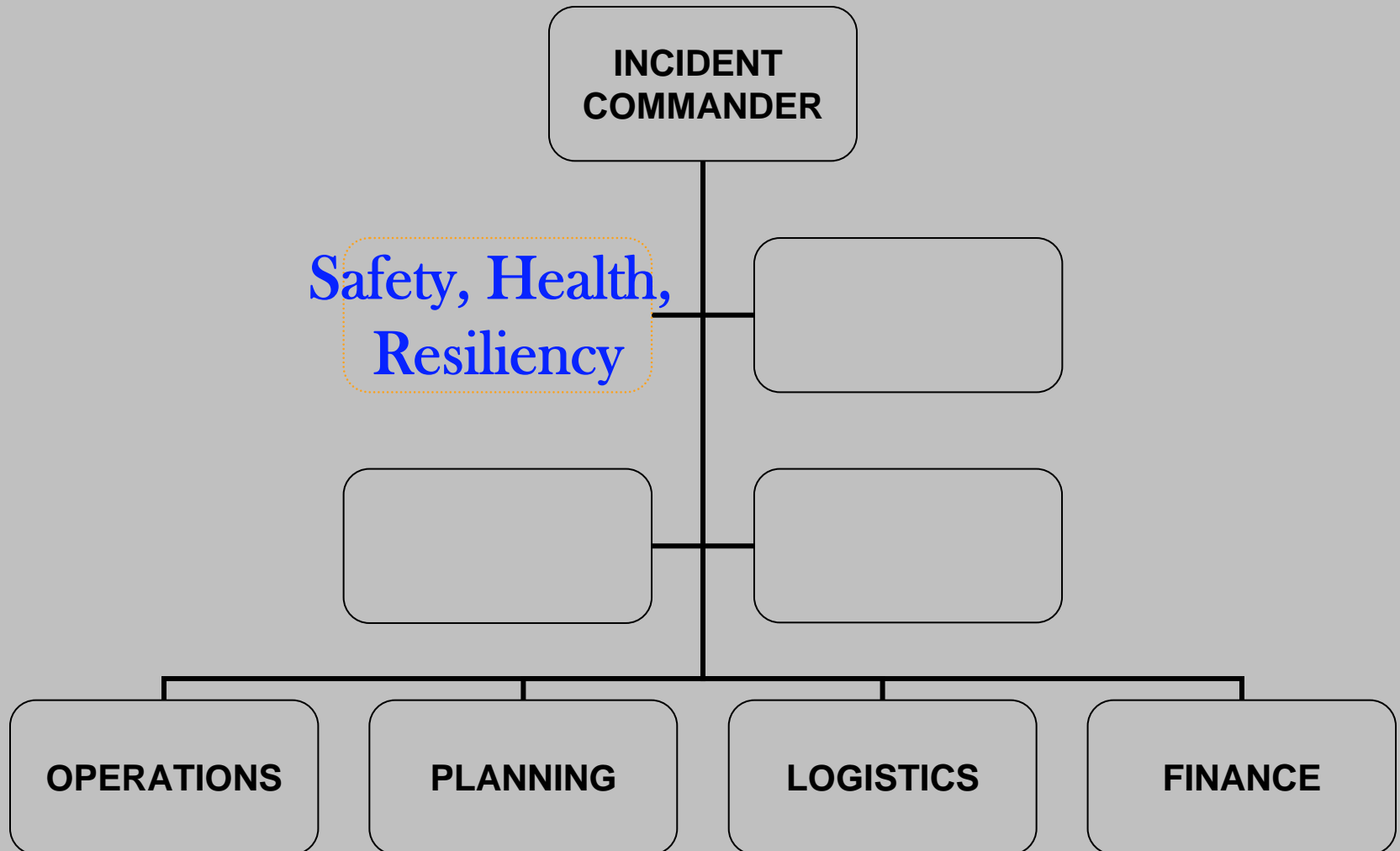
Event Response: (Protect)

- Connect with infrastructure for coordinated health and safety activities
- Situational awareness and anticipate hazards
- Compliance with site-specific health and safety plan (HASP)
- **Real-time exposure assessment and control**
- **Monitor physical and behavioral health**
- Injury and illness reporting

Building Team Resiliency: During Response

- Deploy as a team or use a “buddy system”
- Ensure regular communication bi-directional (especially problem-solving)
- Clarify tasks required for mission success
- Match tasks with team member skills
- Delegate as needed to keep manageable
- Monitor occupational safety, health, and psychological well-being

Safety, Health, and Resiliency Command Function



Demobilization

- Joint verification of recorded injury/health events or potential adverse exposures while deployed by ID#
- Future contact information for responder
- Post-mission briefing

Operational Evaluation

- Review of strategies and lessons
 - Mission
 - Self-care
- Exit interviews in the field
 - Continuity for ongoing response
 - Resource for reach-back
 - Closure

Post-Event (*Encourage Recovery*)

- Monitor health and well-being
 - Exit interviews for closure
 - Delayed reactions with increased demand for services (onset >5 weeks)
 - Give yourself time to recover
 - Seek support when needed
- Create opportunities for team to reconnect

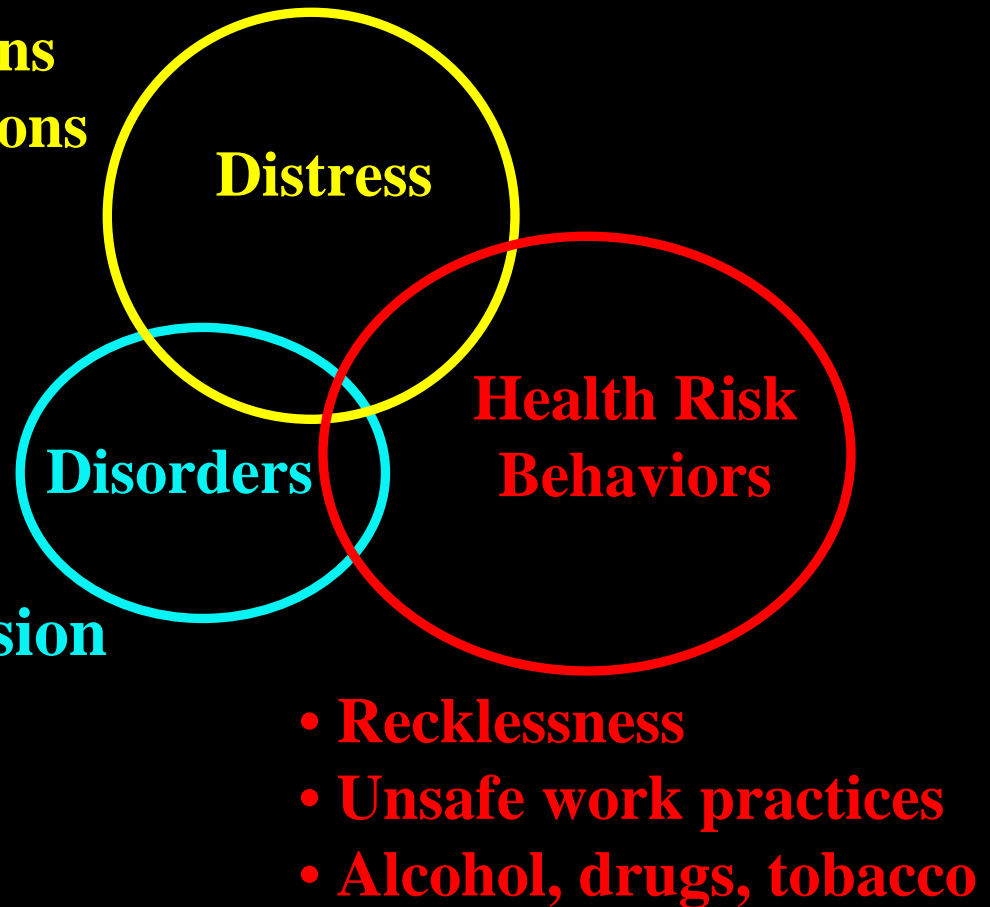
Post-Event

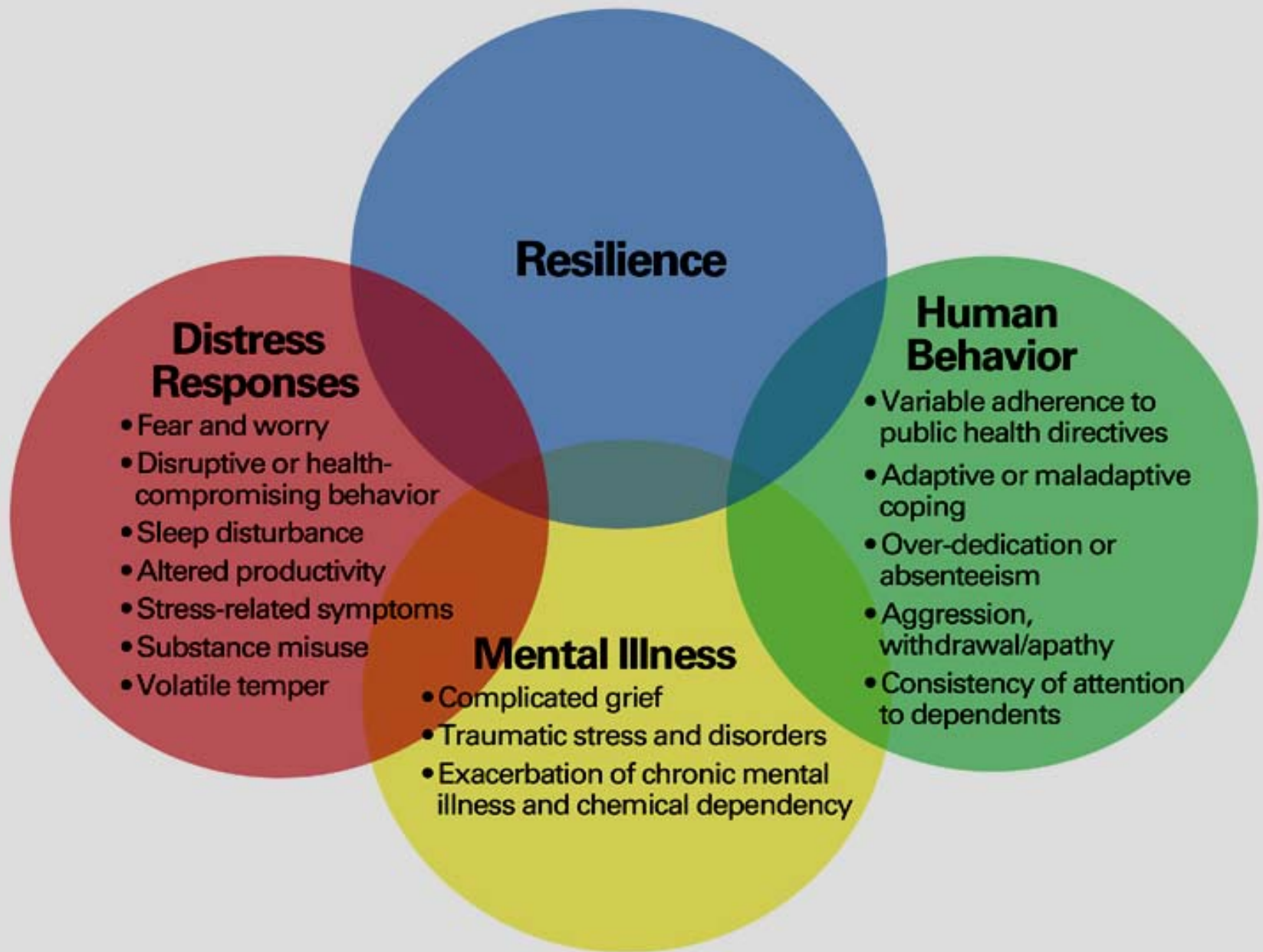
- Passive and active reporting of emerging health concerns for specified time
- Information sharing about potential concerns and continuity of, or new, resources
- Tracking health concerns that trigger more formal investigation, medical monitoring and/or treatment programs

Impact of Behavioral Health

- **Problems making decisions**
- **Less able to assess situations**
- **Bodily complaints**
- **Slow to respond**
- **Change in behavior**

- **PTSD**
- **Depression**





Sustaining Resiliency

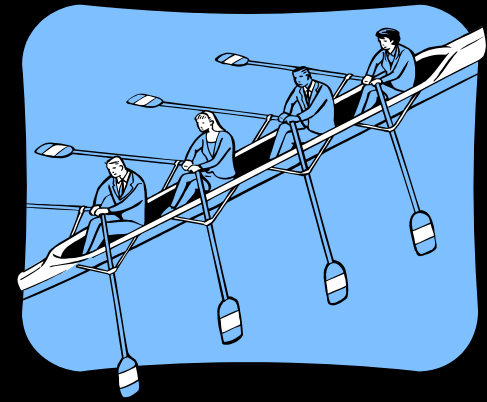
- Health and safety culture, policies
- Work flow adjustment and support
- Work and family/life balance
- Stress, anger, grief management
- Team building and skills training
- Situational leadership
- Address ethical dilemmas
- Teach self-care skills

Florida's health



Workforce Management in Times of Disaster

- Rotate people
- Reserve force
- Limit work hours
- Regional response networks
- Cross training and surge capacity
 - Across tasks, managers, locations
 - Shared leadership
- Selection/Deselection of individuals



What Is At Stake?



- Mission success
- Reputation
- Staff retention, recruitment, performance
 - Morale and motivation
- Health and welfare of personnel
 - Workers compensation claims
 - Disability and early retirement

Acknowledgements:

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