



Emergency All-Sector Response to a Transnational Hazard Exercise

Middle Planning Meeting

6 May 2021





Welcome – EEX-21 Are You Ready?

- What is EARTH EX?
- Why Play EARTH EX?
- What does EARTH EX cost?
- What can I expect?
- Is EARTH EX right for my organization/family?
- Can EARTH EX support my EMPG grant requirement?
- How many can play EARTH EX?
- Can I play more than once?







EARTH EX 2021 Flexible and Adaptable



- Individual and Family Preparedness Lane
- Organizations
 - Centralized (EOC, Regional Operations Center)
 - Decentralized (Regions)
- Functional Groups
 - Operations
 - Resource Management
 - Others
- Leader and Section Chief Independent Play



- Become part of the design team!
- Provide your expertise and help craft the injects and flow of the exercise.
- Benefits!
- GRCOM Effort Next!



Join the Team — Register for a Workgroup!

- Expand your network!
 Develop new ideas on spreading the
 word about the EARTH EX Opportunity
- Share your ideas for scenario injects and impact to drive the exercise and engage participants
 - Injects
 - Environmental Conditions
 - Resource Issues
 - Workforce Issues
 - Potential special training concepts from real world experiences
- Global Resilience Commission Resilience Discussions (July +)





Health And Medical Workgroup

May 11th – Tuesday 1 pm







EM and Public Safety Workgroup

May 13th 1030 AM







Critical Infrastructure – Utilities Workgroup

May 14th 11 AM





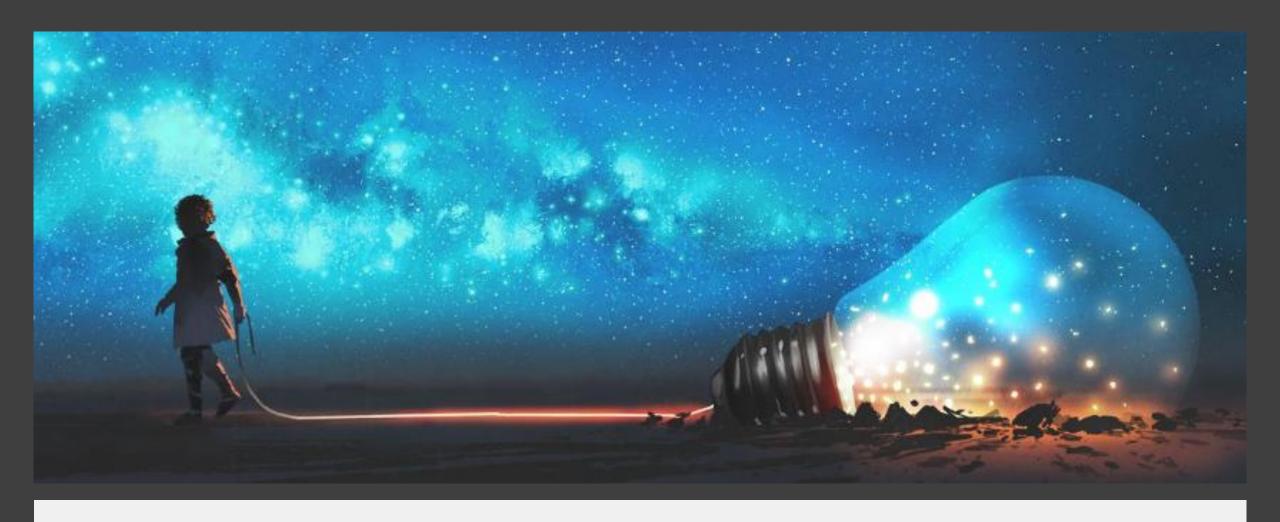


Community Leaders, CERT and VOAD Workgroup

May 13th 1PM







Avoiding Failures of Imagination

- Climate Change is Real, and It is Unpredictable
- Record Wildfires High loss of life and Infrastructure impact
- Back-to-Back 100 Year Floods
- New Weather 20-30 Inches over 3 days in Baton Rouge in 2016



It Can't Happen Here!

It doesn't have to......

And

Are you sure?

Or,

It just hasn't happened yet!



The 411 on Black Sky

Direct Threat to Society

Complex Catastrophe

Cascading Consequences

Highest Possible Level of Coordination Required

Resource Intensive

Prior Planning is Essential But Not Impossible!



EARTH EX 2021 – Our Shared Threat: Climate Change Driven Disasters Fires and Floods

- The cost of natural disasters in 2020: >\$268 billion
- There were 416 natural disasters worldwide in 2020
- More than 8,100 died in natural disasters in 2020



EARTH EX 2021 - Threat: Climate Change Driven Disasters

Dynamic Scenarios - Issues to Solutions

- Active Situational Awareness
- Evacuation Planning and Considerations
- Advanced Resource Management Concepts
- Mutual Aid and Emergency Management Assistance Compact
- Forward Looking & Solutions Seeking
- Continuity and Contingency Planning
- Restoration Actions

EARTH EX 2021 Framework Tenets

- The EARTH EX 2021 Black Sky threat is modeled on real-world events.
- Direct regional scenarios and injects unfolding over two phases.
- Prepare to sustain and restore operations in the event of a near catastrophic natural disaster and the cascading impacts to the local region.
- Focus on leadership, teamwork, flexibility, and plans for making the right decisions at the right time and knowing when, where and how to obtain mission essential resources.
- Drive exercise play to solve the exercise issues and reinforce best practices.
- Utilize state-of-the-art video and the Battle Rhythm Manager exercise tools to facilitate exercise discussion and play.



EARTH EX Design Elements

- EARTH EX is delivered using an online web-based tool
- The exercise delivery mechanism is called Battle Rhythm Manager (BRM)
- The BRM supports multiple lanes of play across multiple phases
- EARTH EX 2021 is available on the morning of 1 September and remain online through 31 October
- Sites schedule their own start and end times
- Participants should register and play both the sector driven exercise and the Individual and Families exercise – which this year is embedded in the EEX 19 Framework

EARTH EX 2021 Play

- Self facilitated, self assessed, discussion based, tabletop exercise
- Register to play on-line; receive exercise credentials via email
- Self identify for exercise Functional Areas and Lanes (play multiple lanes this year)
- Develop situational awareness; discuss and respond to game play
- Provide responses to the phase questions
- Advance through 2 phases
- Two dynamic discussion
- Organizations can extend or contract the timeline for play



Decision Cycle Examples

Example areas for developing areas of consideration:

- Ensure Operational Capabilities
- Maintain the Workforce
- Gain Situational Awareness
- Review Command, Control and Coordination Measures
- Maximize and Shift Resources
- Consolidate or Decentralize Operations
- Review Contingency and Continuity Plans
- Prepare for Future Operations
- Develop Restoration Actions and Plans



EARTH EX Concept



- EARTH EX 2021 is a <u>come as you are</u>
 opportunity for all critical lifeline sectors to
 review, develop and extend the policies and
 procedures for responding to a long duration
 power outage.
- EARTH EX 2021 is a <u>widely distributed exercise</u> <u>event</u>, using new electronic exercise tools, advancing over three phases allowing for an examination of the response, restoration and overall resilience actions all sectors will face during a long duration power outage.
- EARTH EX 2021 supports <u>in-depth discussion</u> on roles, responsibilities, essential decision making, and communications requirements.





EARTH EX Assumptions

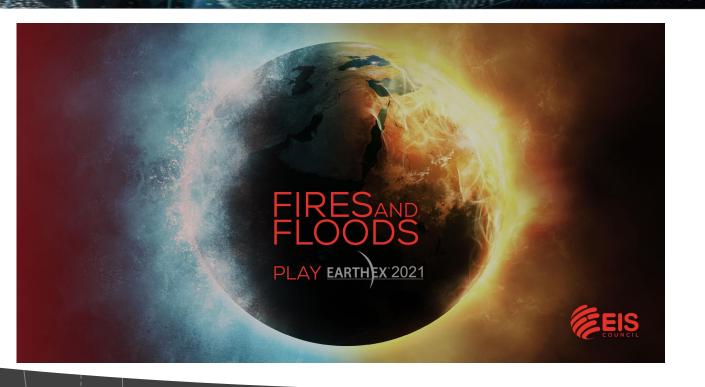
- All the information to drive the exercise discussion will be provided
- Access to the Internet is available
- Organizations will apply their own policies and procedures to develop solutions and responses to the exercise problem
- Organizations will select at least 1 person to serve as a facilitator/recorder – training for facilitators will be provided
- Each organization will be internally assessed













1 September – 31 October

EEX 2021 Are you Ready?

- Individuals and Families
- Communities and Leaders
- Government Functions
- Critical Life Utilițies
- Medical and Health Care
- Private Sector
- Communications and IT Operations

Concepts and Managing Expectations

- Lane Specific Background and Mission
- Evolving Environment
- Black Sky Scenario
- Communities, Areas, States and Regions
- Multiple Cross-Sector Injects per Phase
- Consensus Building Discussion Points and Questions
- Decisions, Results and More Decisions
- Team/Individual Responses

The Threat Is Real – The Threat is Now!

- Are you Ready? Is your family?
 Is your organization?
- Do you know how and when to evacuate?
- Are you prepared to be part of the restoration?



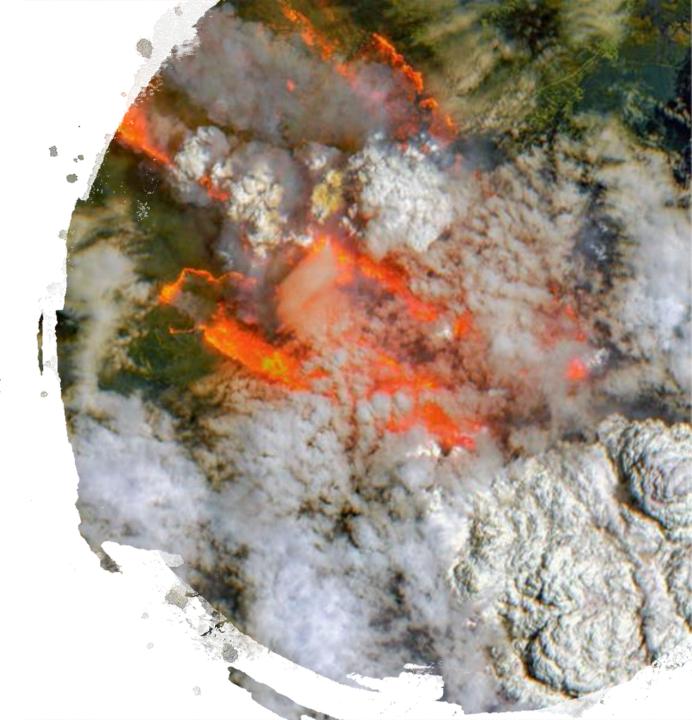


What areas are at risk from flash floods? Densely populated areas are at a high risk for flash floods.

Fire:

Widespread Destruction

- U.S. wildfire damages in 2020 totaled \$16.5 billion, ranking it as the third-costliest year on record, behind 2017 (\$24 billion) and 2018 (\$22 billion)
- The direct death toll from the western U.S. fires in 2020 was at least 43, but the indirect death toll due to inhalation of wildfire smoke was likely in the thousands, researchers at Stanford University reported
- A <u>2016 study</u> found that a warming and drying climate has increased the intensity and duration of western U.S. fire seasons in recent years, and human-caused climate change has <u>nearly doubled the area</u> <u>burned</u> in the region since 1984.



Learning Objectives





The following elements will be part of each exercise phase.

- Develop Situational Awareness
- Understand and Document Mission/Business Essential Internal and External Critical Infrastructure
- Understand Interdependencies
- Understand Evacuation Issues and Preparedness Concepts
- Developing Courses of Action
- Make and Adjust Decisions
- Understand Critical Restoration Missions

Resilience Learning Objectives





- Improve planning for actions in response to a catastrophic event
- Refine or develop restoration priorities and support concepts
- Better understand the tools and capabilities required
- Develop internal and external future training and support requirements



Select Your Area Of Play

- Individuals and Families
- Leaders and Communities
- Government Functions
- Medical and Health Care Functions
- Utility Functions
- Private Sector and Financial Functions
- Communications and IT Operations
- Over 38 embedded Lanes



EARTH EX Participation Lanes (38 Options)

- Individual and Families
- Electric
- Natural Gas
- Oil
- Water and Wastewater
- Communications/Information
 & Media
- Emergency Radio
 Communications
- Information Management/ Information Technology/ Security
- Federal Regulatory
- Cyber Security Response and Information Protection
- Community Emergency Management

- State Government Agencies
- Federal Emergency
 Management
- Infrastructure Protection
- State National Guard
- Emergency Support
 Functions
- Federal Regulatory Agencies
- Community Leaders and Stakeholders
- Law Enforcement
- Fire, Rescue and EMS
- Emergency Management
- VOADS and Red Cross
- Ecumenical
- Insurance

- State Emergency Management
- Energy
- Federal Environmental Protection
- Federal Response Agencies
- Private Sector*
- Transportation & TSA
- Supply Chain
- Food and Water
- Financial Agencies
- Medical and Health Care
- Nursing and Long-Term Care
- Active Component Military and NGB
- Private Not for Profit Food Distribution
- Education
- EMAC and Mutual Aid

* PS- multiple options

EEX-21 Exercise Flow

Two Primary Threats – both execrated by climate change Fire Flood **Opening Situational Awareness Video** Initial Situational Awareness – The Data (GINOM) **Risk Analysis Monte Carlo** Course of Action Development (COA) Decision **Monte Carlo** Course of Action Change (COAC)

EEX 2021 - Exercise Flow Phase 1 & 2



Opening Video - Attack

Establishing Situational Awareness

Advancing the Scenario Video

Understanding Risk/Risk Assessment

Developing Courses of Action Discussion

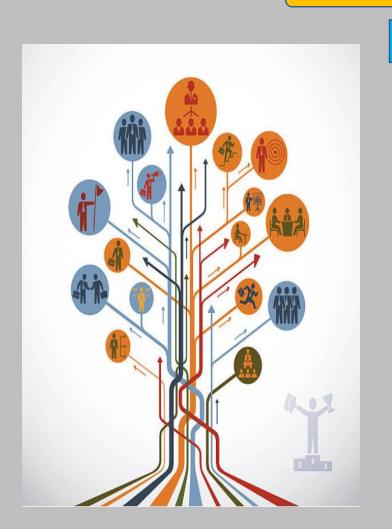
Refining Courses of Action Monte Carlo Game

Making a Decision

Refining Decisions Monte Carlo Game

Final Actions

Closing Video



Active Situational Awareness

- Establishing and Reinforcing Anytime/Anywhere
- Preparedness
- Decision Support



Understanding Risk*

- Strategic Risk Management
- Extracting Key Concepts
- Elements
 - Exposure
 - Vulnerabilities
- Cascading Consequences
 - Infrastructure Dependencies
 - Supply Chain Issues









Courses of Action Options

Decision Making

- Who
- When
- How
- Course of Action Comparison
- Making the Initial Decisions





EEX-21 Major Training & Resilience Themes

Understanding and Preparing

Understanding and Preparing for Evacuation/Hardening

- Improving Situational Awareness
- Reacting to New Information

Planning

Restoration Planning

- Preparing for Restoration
- Emergency Communications
- Supporting Actions
- Mutual Aid

Overarching Themes

Supply Chain & Transportation

Workforce Protection and Education/Awareness

Cascading Consequences



Final Planning Meeting: 3 June, 2 pm

https://attendee.gotowebinar.com/register/2701388334047623692



Community Fire Resilience Webinar Workshop
17 June, Thursday 2 pm

The New Fire Threat – Wildfires Close to Urban Areas

- Preparedness Measures
- Subject Matter Expert Discussion
- Community Lifelines
- Evacuation Considerations
- Restoration Priorities
- Organizational Priorities and Responsibilities
- https://attendee.gotowebi nar.com/register/3314678 327834695692

Community Flooding Resilience Webinar Workshop 15 July, Thursday 2 pm



- The New Climate Driven Flood Threat
- Preparedness Measures
- Subject Matter Expert Discussion
- Community Lifelines
- Evacuation Considerations
- Restoration Priorities
- Organizational Priorities and Responsibilities
- https://attendee.gotowebin ar.com/register/833954695 688446732



Emergency preparedness

COMMUNITY RESILIENCE



Community
Resilience Webinar
Workshop
19 August,
Thursday 2 pm

- The Climate Threat New Black Sky Potentials
- Integration of an Active Private Sector
- Building New Partnerships
- Integrated Preparedness Measures
- Evacuation Considerations
- Restoration Priorities
- Organizational Priorities and Responsibilities
- https://attendee.gotowebinar.com/register/4428768380283592716

Exercise Training Webinar Dates & Materials Push

• EEX Facilitator Training Session 1 Thursday, 29 July "How to Play EARTH EX-21"

• EEX Facilitator Training Session 2

Thursday, 19 August 1500 - EDT

Participant & Facilitator Workbook

Monday, 16 August











Offer – Customized Group Presentation of the EARTH EX Opportunity – Contact Us!

Certificate of Participation

Individuals will be eligible to obtain an electronic certificate of participation after completing the full exercise and providing individual survey responses.

Special Certificates and Opportunities
Scouts

Commissioners



EARTH EX 2021 Registration

https://battlerhythm.net/Registration/registerMKII.html?id=17

Invite your partners, peers and association members to register to play.

Invite your family to and your community members to register to play.







Available: 1 September - 31 October

Early Adopters – Special Announcement



Electromagnetic Pulse Virtual Exercise: https://battlerhythm.net/Registration/registerMKII.html?id=18



Cyber Threat Virtual Exercise: https://battlerhythm.net/Registration/registerMKII.html?id=19

In a world with an ever-increasing degree of interconnectedness and dependence on critical life-line infrastructures, like electricity, and given the growing risk and potentially devastating impact of a variety of threats, we need inclusive partnerships to prepare and improve. We must plan, train, and exercise.

E-Mail for Questions and Information Earthex@eiscouncil.org

Register Today!

Join A Workgroup!

Expand the Team!





THANK YOU!





