

# Vision: Help Risk Reduction via Responsiveness



Milling for the Autonomic Periphery – the principle refers to how the unreasoning of the Earth itself can add to the unreasoning of man (his or her heart) to then impact the generations to come. It is more of an interest to know that the Earth has an autonomic periphery that is a life enabling environment for the generations to come, but due to man's perception bias in areas of development and growth, the life enabling environment is deteriorating or changing in its omnipotent qualities.

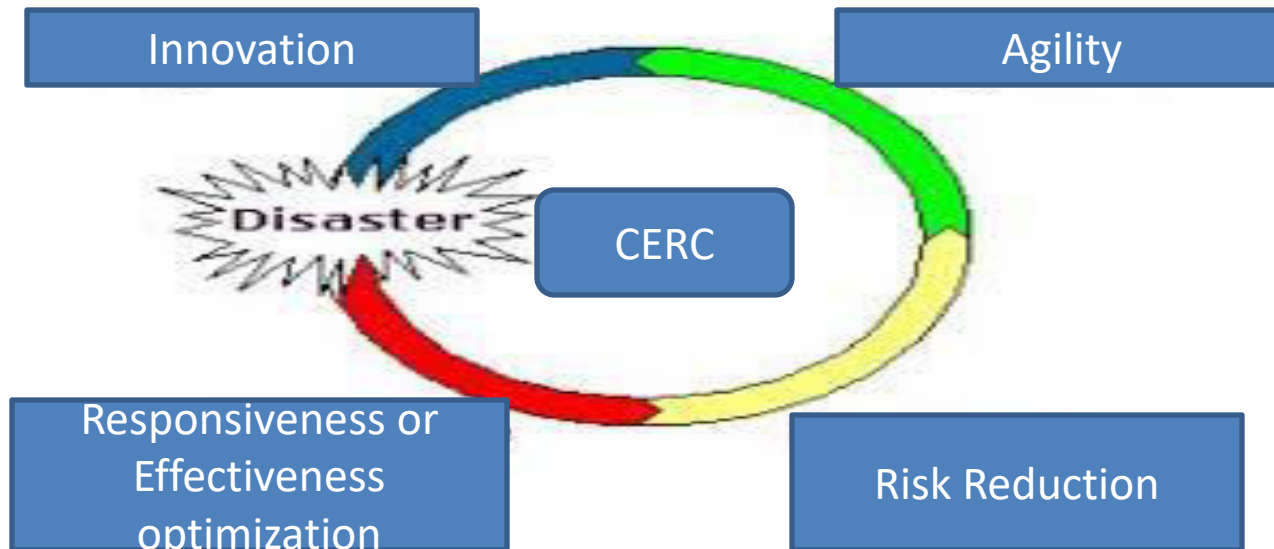
To achieve more omni potency, man must involve himself or herself in collective endeavor to develop more Quality of Life Advancement and Conscious role play.

# Connected Emergency Response Centre

Abstract: The Connected Emergency Response Centre (CERC) will be deployable at sites of importance to help emergency response.

The Centre will leverage Sense and Respond systems to interrelate Green Globe codification for a site and its occupants with ability to sense and respond for threat, disaster or accelerated risk.

The Centre will design problem solving using aspects of Innovation and Agility for Responsiveness / Effectiveness optimization and Risk Reduction.



# Connected Emergency Response Centre

The Connected Emergency Response Centre will first understand the LifeScore or Ability of site and its occupants to prepare for, sense & respond, save or protect life at the time of a threat, disaster or accelerated risk.

The Connected Emergency Response will design a Critical Path method (CPM) or Emergency Response for each occupant, community or site, where the LifeScore or Ability will decide the awareness critical for a relevant response.

The awareness will then develop sense and respond inferences which can be developed into solutions or systems via a **Design-Bid-Build** option, a **Design-Build** option or **Construction Management** option.

The awareness universally will be options that can be selected from an A-Z Integrated / Ingenuity Portfolio. The A-Z portfolio will be rated or evaluated for relevance to a site or occupant with a particular LifeScore or Ability. The A-Z Portfolio & its connected sense & respond systems will invite problem solving by architects, engineers and artists to leverage Visual / Auditory / Tactile Art and Artificial Intelligence / Machine Learning for developing deployables. To enable more integration in the A-Z Portfolio there will be primary lists, secondary lists & augmented lists to deploy more than one assistant / innovation for the same letter Category. Like for the letter A there may be more than the solution.

# Connected Emergency Response Centre

## The A-Z Integrated / Ingenuity Portfolio

- A – Awareness and response for **Associated Lighting and Electrical Safety**
- B – Awareness and response for **Bio-hazards / explosives**
- C – Awareness and response for a **Companion Card & Badge**
- D – Awareness and response for **Drill procedures**
- E – Awareness and response for **Exits and Emergency exits** (where they need to be unobstructed and relevant to the person)
- F – Awareness and response for **First-Aid procedures**
- G – Awareness and response for **Gas lines and installations**
- H – Awareness and response for **Occupant Health & Safety procedures**
- I - Awareness and response for **important Failure Mode Cause & Effects Analysis**
- J – Work in progress
- K – Awareness and response for **Keys, Key Cards or Access devices**
- L – Awareness and response for **site layouts, floor plans, secure routes and areas**
- M – Awareness and response for **made-to-assist surveillance systems**
- N – Awareness and response for **natural or man-made disaster first responders**

# Connected Emergency Response Centre

## The A-Z Integrated / Ingenuity Portfolio (continued)

O – Awareness and response for **open environment scenarios** of poisoning or stings or electricity line hazard

P – Awareness and response for **protecting valuables & documents**

Q – Work In progress

R – Awareness and response for **Resultant emotional outbursts** during emergency response

S – Awareness and response for **stairways**

T – Awareness and response for **timely first aid** in situations like asthmatic attack, allergic reactions, fainting or losing consciousness, electrocution, foreign matter ingestion / inhalation

U - Awareness and response for **unscreened health issues**

V – Awareness and response for **ventilated air-conditioning (HVAC systems)**

W – Awareness and response for **water sprinklers, water supply hoses and connections**

X – Work in progress

Y – Work in progress

Z – Work in progress

# Connected Emergency Response Centre

Today vital parameters for SMART & Connected construction and occupancy include making the site or facility or building

- a. SMART & Connected in systems & data integration for Emergency Response
- b. Reliable and with failsafe or backup systems
- c. Safe for the environment and Healthy
- d. Safe and secure for services being offered and for neighborhood livability
- e. Aesthetic & Comfortable and treating open space as important
- f. Fair to all occupants (termed as Equity fairness)
- g. Flexible to accommodate occupant's need for utilities, maximum control, accessibility and mobility, alternative needs etc
- h. SMART Technologically enabled or connectable or manageable
- i. Fit for purpose
- j. Fit for brand image
- k. Information Technologies/Operations Technology Engineering for various aspects of site/facility/building planning, construction, operations and maintenance
- l. SMART & Connected site specific Commissioning or Retrofit Installation
- m. Operations, Condition monitoring and Maintenance

# Connected Emergency Response Centre

- Case study on how occupants of a residential site could react when there is a need to evacuate to respond to a drill or medium priority emergency (like a tremor or prone to collapse scenario due to weak structure hazards).
- The occupants do have 24/7 assistance from the security and facility staff . These staff members are trained to react swiftly to help emergency response.
- The ingenuity shown by the site has been appreciated as to how responsive they have been for cooperating or helping one and another. The need for a Connected Emergency Response Centre has never been reviewed or acknowledged via a Disaster preparedness drill.
- On the eventful day, the occupants are told to evacuate their residences in a short interval of 5-10 minutes where they are told they will be guided by security or facility staff on each floor of the blocks at the site. The construction company has planned emergency exits for priority evacuation.
- The planning seems fit to respond but the information that no one knows for sure is a list that runs as follows...



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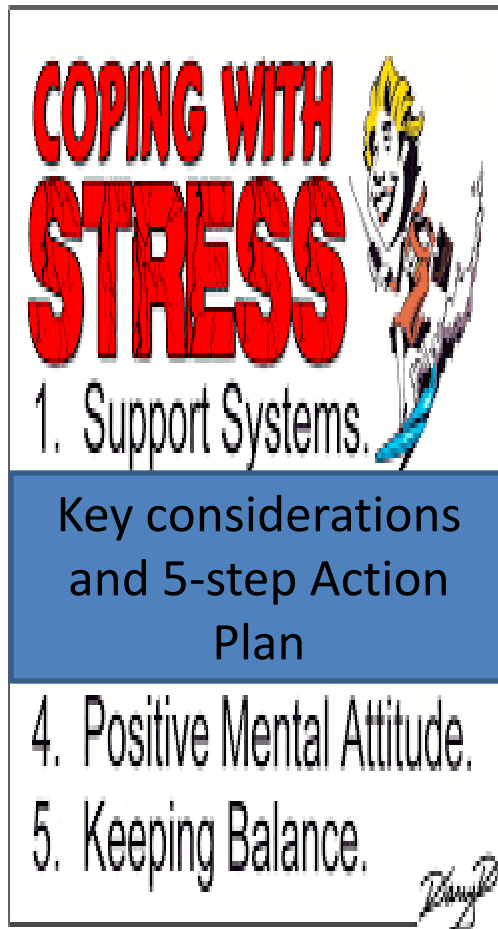
- 1. The **LifeScore codes for occupants or occupant groups from a residence or floor or block, for example their** Physical ability, Mental ability, Acclimatized ability, Liability to respond or mitigate risk, Life changing condition, Life support requirements and the need for Wear-ons.
- 2. The **LifeScore Interlinks for the occupants from a floor or block, where levels of** Preparedness, aptitude for Mitigation and immediate Responsiveness is not the same
- 3. The identification of any **Categorized Emergency Response that should be provided for specific occupants on rushing out or on being** Aged, weak or sick people
- 4. The **identification of any illustration, vocabulary and/or language problem** that may affect these people being evacuated
- 5. The **identification of whether any Emergency response advisories** have been issued and understood by occupants, or whether any **surveillance & alarm or alert specific Emergency response systems** have been deployed and are functional at the time or crucial instants of evacuation.

# Connected Emergency Response Centre

- 6. **Whether the occupants have a Companion Card or Badge** to identify them if at all necessary during and after the evacuation or emergency response.
- 7. Whether any **Afflicted Emergency Response practices** have been specifically incorporated for the blind, disabled, handicapped or even people with afflicted mobility or afflicted awareness / response.
- 8. The **nature of emergency exits, or exits or stairways** at that location or floor of the block, building or site. The information as to whether the exit is with Visual detail, Auditory feedback or Tactile feedback to help people rushing towards or out of it. The information as to whether the CERC system for this exit or stairway is Internet Interfaced to help understand reliability or screen CERC diagnostics.
- 9. The **characteristic sensitization that should be ensured or assisting help that should be provided to the afflicted** who cannot rush out an emergency exit, or exit or use a stairway when the occupants cannot be self-organized during the evacuation.
- 10. The **Variance, downtime or Issues Feedback for patterns of response and connected effort to swiftly save or protect life**

# Connected Emergency Response Centre

- **11. The need for special keys or access permissions for certain exits or exit enabling**
- **12. The preparedness or sensitization to deal with stress and difficult to cope emotions**



NEXT Steps: Connected Emergency Response and Trust level based on Activation, Mindset, Method, Metrics and Strategy for Artificial Intelligence /Machine Learning

Vital-mindfulness-pack

Vital-mindfulness-guide

Vital-mindfulness-forum

# Connected Emergency Response Centre

- The proposal states that the milestone for emergency response is social performance. The performance can be designed via mindfulness, real time streams of data and ER/AI/ML training to enable better solutions.
- **What are streams and why must be a part of a CERC incident management or defects management system?**
- Streams are sources of functional and autonomic data from small manageable components and scale up to a myriad of systems, assistants or allied innovations that can be part of a network, cloud or grid.
- **What is functional data?**
- Functional data (that is either system/assistant/allied innovation related information or raw data) can be used for CERC incident management and defects management.
- **What is autonomic data?**
- Tomorrow **Zero Downtime, Zero Defects Reliability and CERC performance ranking** will decide whether specific “sphere of control” data (that is either information or raw data) can help a CERC centre, network, cloud or grid in connected emergency response
- **What are the spheres of control for these CERC systems/assistants/allied innovations?**
- ☐ Anytime-need accountability                      ☐ Anywhere-use reliability
- ☐ Anyhow-use functionality                              ☐ Zero-unplanned-effort in use .....

# Connected Emergency Response Centre

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