



Green Globe Codification

Connected Emergency Response Centre and Seamless Care

By

K S Venkatram, Team ADEC 2021

(Project Highlight)

Green Globe Codification

- **Date(s)**

- Conceptualized: 04/09/2021

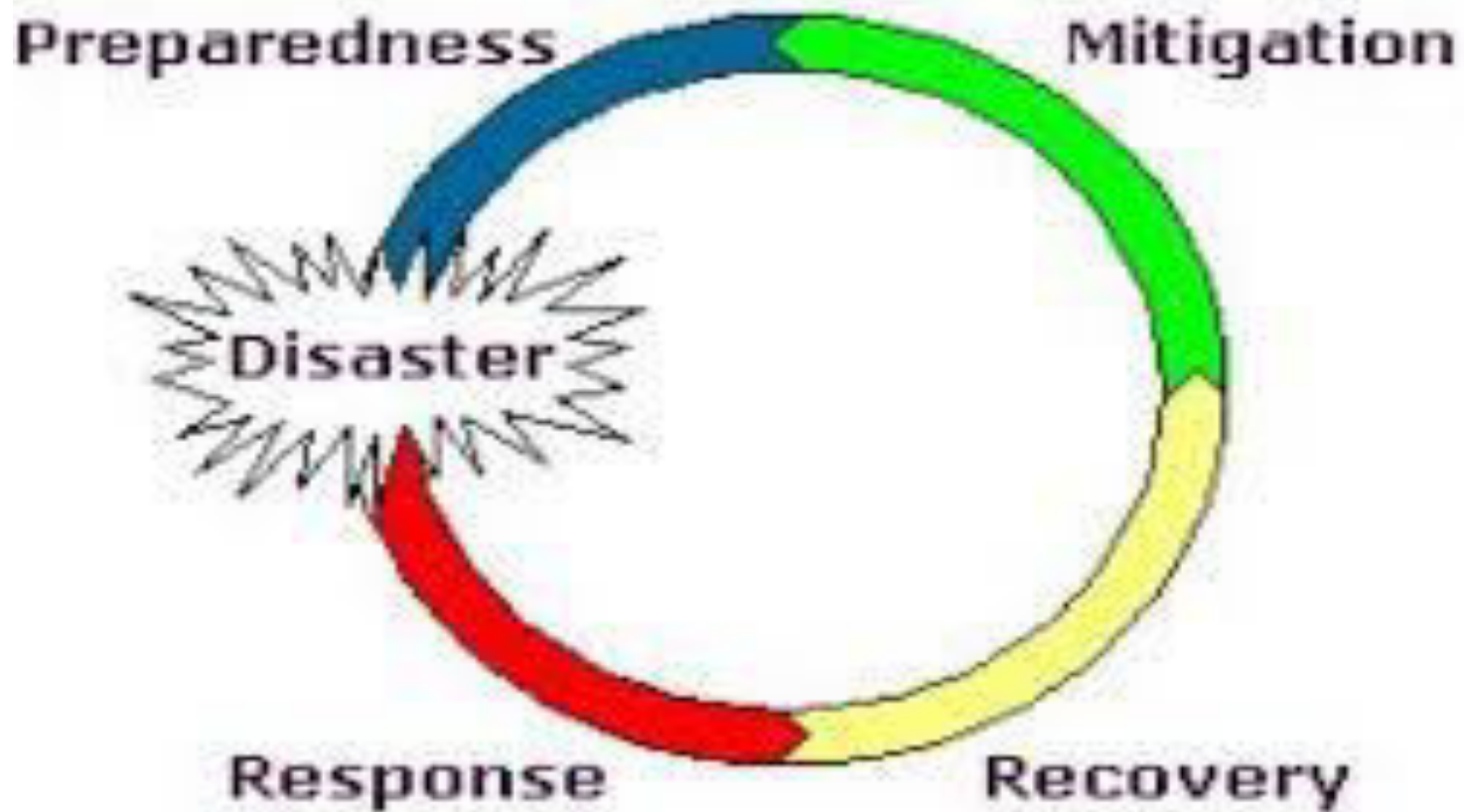
Draft: 06/09/2021

- Revision:

Revision:

Connected Emergency Response Centre

Connected Emergency Response Centre

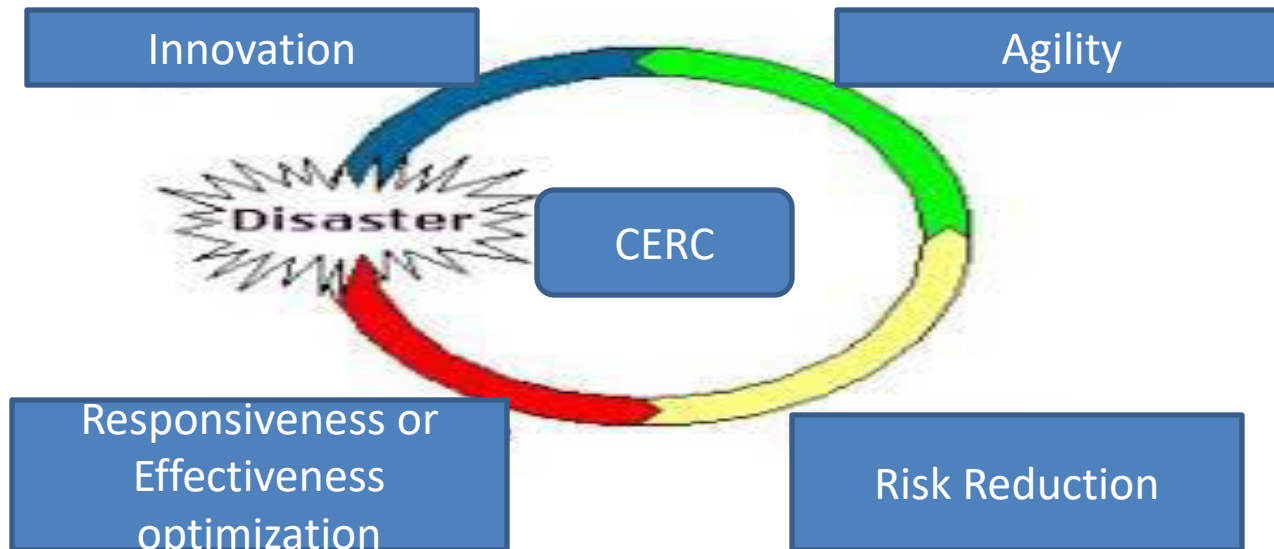


Connected Emergency Response Centre

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.

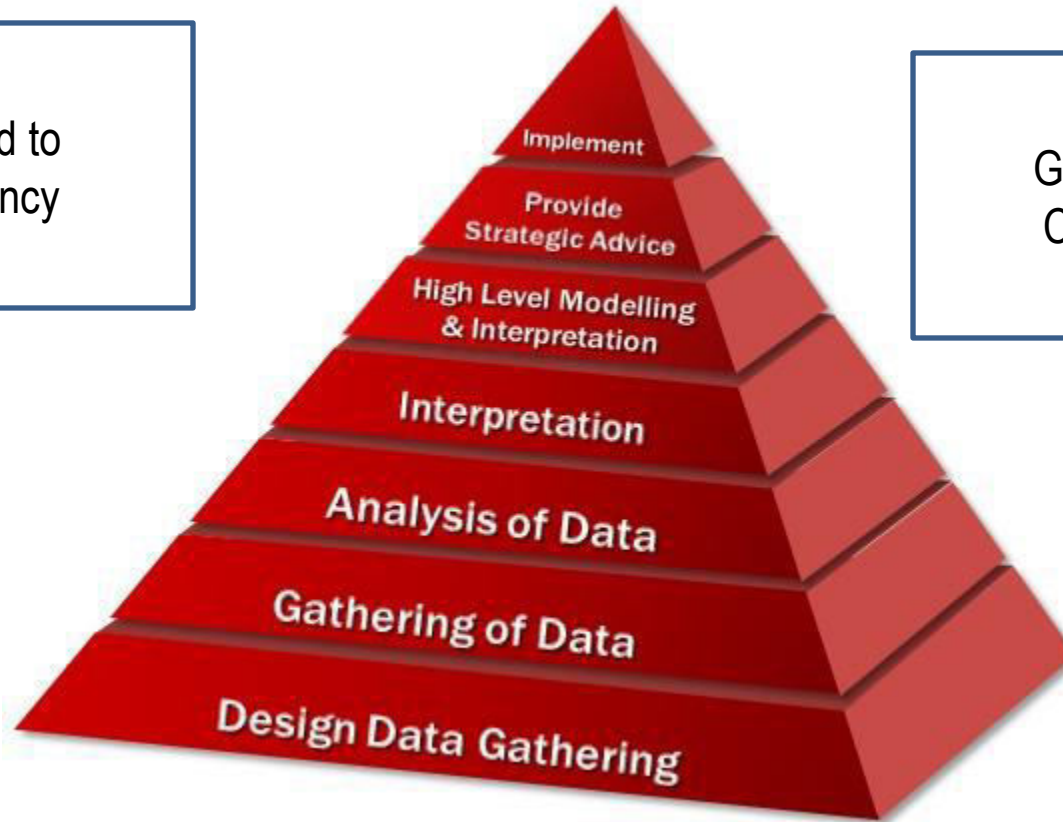


Connected Emergency Response Centre

SLA(s), OLA(s), UC(s), LifeScores

Respond to
Emergency

Green Globe
Codification



Need to plan for, sense & respond, save,
conserve and sustain

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.

Connected Emergency Response Centre

The A-Z Integrated / Ingenuity Portfolio

A – Work in progress

B – Work in progress

C – Awareness and response for a **Companion Card & Badge**

D – Awareness and response for **Drill procedures**

E – Work in progress

F – Awareness and response for **First-Aid procedures**

G – Work in progress

H – Awareness and response for **Occupant Health & Safety procedures**

I - Work in progress

J – Work in progress

K – Work in progress

L – Work in progress

M – Work in progress

N – Awareness and response for **natural or man-made disaster first responders**

Connected Emergency Response Centre

The A-Z Integrated / Ingenuity Portfolio (continued)

O – Work in progress

P – Work in progress

Q – Work In progress

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

S – Work in progress

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

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

V – Work in progress

W – Work in progress

X – Work in progress

Y – Work in progress

Z – Work in progress

Connected Emergency Response Centre

- **Scope or potential problem solving: As Acts/Laws** that the CERC adheres to, the following examples are listed for defining perspectives
 1. National Building Codes
 2. National Earthquake proof Building Codes
 3. National Fire Protection and Safety Codes
 4. National Electric Codes
 5. National Plumbing Codes
 6. Energy Conservation Codes
 7. Fuel Gas Codes
 8. Accessibility and Occupancy guidelines to help manage disabilities
 9. Workplace / Living space Codes, etc
- The possibility of adding **Made-to-assist codes** to help occupants act swiftly to help, save or protect life at the time of a threat, disaster or accelerated risk is being ideated. This proposal discusses LifeScores for sites/buildings/occupants and Emergency Response pincodes for sites to incorporate SMART mitigation and act swiftly to protect and save life of occupants of the site.



Connected Emergency Response Centre

The CERC proposal provides insights and points-to-be-noted that help a CERC team conceptualize for different areas of building design such as:

1. Architecture Programming and IT/OT Integration modeling
2. Planning for a SMART & sustainable built environment and Cost Estimation
3. Sustainable Structural Engineering, SMART Interior Design & Commissioning
4. Electrical Engineering, Lighting Design
5. Water Resource Planning and Management
6. Plumbing Engineering
7. HVAC and Refrigeration Engineering
8. Fire Protection Engineering
9. Connected Emergency Response Centre

Connected Emergency Response Centre

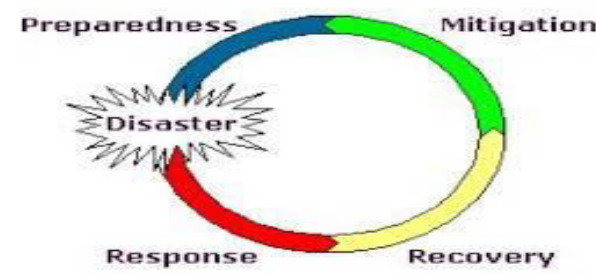
Vital parameters for SMART & Connected construction and occupancy includes making the site or facility or building

- 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. Fit for Connected Emergency Response Centre (CERC) grid/domain
- l. Information Technologies/Operations Technology Engineering for various aspects of site/facility/building planning, construction, operations and maintenance
- m. SMART & Connected site specific Commissioning or Retrofit Installation
- n. Operations, Condition monitoring and Maintenance

Emergency Response pincode

Emergency Response Pincode

Explanation for the Emergency Response Pincode

- Our Green Globe codification recommends an Emergency Response Pincode for each site on the basis of certain factors.
 - A Civil Defence team, a First Response team or
 - Emergency Response network will be able to
 - use this pincode to provide 24/7 assistance, to
 - incorporate SMART mitigation and act swiftly
 - to protect and save life of occupants of the site
- 
- (1) **Location issues or dynamics** in access or ability to carry out swift action at the site
 - (2) **Security issues** that may need the responders to understand possibility of security issues, attacks, threats or hostile situations
 - (3) **Social dynamics** that may need the responders to relate to possibility of unrest, strikes, mob violence or curfews affecting swift action
 - (4) **Surveillance issues** that indicate whether any issues may affect surveillance systems that can help give visual, aerial or satellite imagery of the site
 - (5) **Swift life support possible** that indicate whether the responders can be **assisted by Normal or Advanced Life Support Ambulances for the site**
 - (6) **Proximity based Healthcare possible** that indicate whether the responders can shift the afflicted, injured or sick to nearest healthcare providers
 - (7) **Site Lifescore** that indicates the possible need for the responders to rescue handicapped, disabled or afflicted in times of need

Emergency Response Pincode

Codification for the Emergency Response Pincode

- Our Green Globe codification codifies the Emergency Response Pincode for each site in the following manner.
- Say the pincode of the area is 560055
- The codification of the ER pin code will be as follows
- 560055-__-__-__-__-__-__-__
- (1) **Location issues or dynamics** in access or ability to carry out swift action at the site
 - 01 – Regular ease for access or reach
 - 02 – Medium ease for access or reach
 - 03 – Difficult to access or reach
 - 04 – No map to identify, access or reach
- (2) **Security issues** that may need the responders to understand possibility of security issues, attacks, threats or hostile situations
 - 01 – No potential security risk
 - 02 – Possibility of attacks
 - 03 – Possibility of threats
 - 04– Possibility of hostile situations

Emergency Response Pincode

- (3) **Social dynamics** that may need the responders to relate to possibility of unrest, strikes, mob violence or curfews affecting swift action
 - 01 – Regular social interaction
 - 02 – Possibility of unrest
 - 03 – Possibility of mob violence
 - 04 – Possibility of curfew being declared
- (4) **Surveillance issues** that indicate whether any issues may affect surveillance systems that can help give visual, aerial or satellite imagery of the site
 - 01 – Regular surveillance deployment
 - 02 – Visuals available
 - 03 – Aerial views available
 - 04 – Satellite imagery available
- (5) **Swift life support possible** that indicate whether the responders can be **assisted by Normal or Advanced Life Support Ambulances for the site**
 - 01 – Normal Ambulance services possible
 - 02 – Advanced Life Support Ambulance services possible
 - 03 - Swift Emergency Response not possible
 - 04 - Emergency Response not possible

Emergency Response Pincode

(6) **Proximity based Healthcare possible** that indicate whether the responders can shift the afflicted, injured or sick to nearest healthcare providers

01 – Healthcare providers available within facility

02 – Healthcare providers available within known distance of 1-5 km

03 – Healthcare providers available within known distance of 5-10 km

04 – Healthcare providers available not within known distance

(7) **Site Lifescore** that indicates the possible need for the responders to rescue handicapped, disabled or afflicted in times of need. For security purposes, the codification attaches a unique proxy id to each government site, the ProxyID will not be shared with non-government contacts.

ProxyID1 – Site LifeScore available

ProxyID2 – Site Occupant LifeScore available

ProxyID3 – Site LifeScore not available

ProxyID4 – Site Occupant LifeScore not available

LifeScore Codification

Explanation for the LifeScore for occupants

- The Green Globe codification defines a cumulative LifeScore for each occupant on the basis of certain factors such as
 - (1) **Physical ability** to personally respond or mitigate risk (where the person may be Healthy(0), Weak(1), Sick(2) or with Adversity(3))
 - If even one occupant's ability is other than Healthy, this will be LifeScore reported in the interlink
 - (2) **Mental ability** to personally respond or mitigate risk (where the person may be Healthy(0), Afflicted(1), Sick(2) or Differently able(3))
 - If even one occupant's ability is other than Healthy, this will be LifeScore reported in the interlink

LifeScore Codification

Explanation for the LifeScore for occupants

(3) **Acclimatized ability** to personally respond or mitigate risk (where the person is Knowledgeable (0); Partially knowledgeable (1) or is Not acclimatized to mitigate risk (2))

If even one occupant's ability is other than Knowledgeable, this will be LifeScore reported in the interlink

- (4) **Liability to respond or mitigate risk** of occupants present (where the person may be Experienced(0); have Intermediate level onus(1); or Cannot help others(2))
- If even one occupant's liability is other than Experienced, this will be LifeScore reported in the interlink

LifeScore Codification

Explanation for the LifeScore for occupants

(5) **Health parameterization** to help a Disaster management team know beforehand about whether the occupant

- (5.1) Has a life changing condition (such as None (0); Evaluated and informed (1); Not evaluated or not informed (2); or Selective understanding about condition (3)),
- If even one occupant's concern is other than None, this will be LifeScore reported in the interlink

- (5.2) Has different life support requirements (None (0); Physical help needed for response(1); Companionship needed for response(2); or Handicapped so additional help needed (3)),
- If even one occupant's concern is other than None, this will be LifeScore reported in the interlink

- (5.3) Uses different wear-ons that accentuate behavioral or stress vulnerability (None (0); Aids for seeing or hearing or speaking (1); Artificial limbs or prosthetics (2); Pacemaker for the heart (3); Chrono-immunizers (4); Cancer care accessories etc (5))
- If even one occupant's concern is other than None, this will be LifeScore reported in the interlink

LifeScore Card

LifeScore Card

Name of Internet Service Provider:

Name of Green Globe Policy: Green Globe Profile



SMART intervention / interaction for occupants

Green Globe Codification:

Site Name:

Site Type: Work-in-progress/ Residential / Business / Community welfare / Government / Green ecosystem or garden

Site Place/ Address:

Site Emergency Response Pincode (if applicable):

Site Contact No(s):

Other Site Identification Details:

Sense and Respond Level: Analysis based/ Action based/ Implementation based

LifeScore for occupants (must for analytics): Available / Not validated / Not known

Codification Valid from:

Codification Valid till:

LifeScore for occupants

Occupant Codification: Work-temporary / Reside/ Reside + Business / Business / Community / Government office

LifeScore codes: Physical ability - Mental ability - Acclimatized ability - Liability to respond or mitigate risk - Life changing condition - Life support requirements – Needs Wear-ons

LifeScore Interlink: Related reflection of LifeScore for that category, where this helps critical thinking for problem solving, reasoning and evaluating

(a) Occupant (regular) LifeScore interlink: _ - _ - _ - _ - _ - _ - _

Occupant (regular) number: Unknown / Known ___ / Not applicable

Occupant (regular) analytics: (Click for more details)

(b) Occupant (very young) LifeScore interlink: _ - _ - _ - _ - _ - _ - _

Occupant (very young) number: Unknown / Known ___ / Not applicable

Occupant (very young) analytics: (Click for more details)

(c) Occupant (very old) LifeScore interlink: _ - _ - _ - _ - _ - _ - _

Occupant (very old) number: Unknown / Known ___ / Not applicable

Occupant (very old) analytics: (Click for more details)

LifeScore for occupants

(d) Occupant (with health parameterization) LifeScore interlink: _ - _ - _ - _ - _ - _ - _

Occupant (with health parameterization) number: Unknown / Known ___ / Not applicable

Occupant (with health parameterization) analytics: (Click for more details)

(e) Occupant (with special ability) LifeScore interlink: _ - _ - _ - _ - _ - _ - _

Occupant (with special ability) number: Unknown / Known ___ / Not applicable

Occupant (with special ability) analytics: (Click for more details)

About the (Click for more details) option

If site specific survey data, or log-book data or visitor's register data provides independent LifeScore details for each occupant, then that will be displayed or else images or tabulations of details recorded in logbooks or registers will be displayed.

The LifeScore Card respects the life & the need to be rescued of each occupant and enables analytics for a Emergency Response Team to carry out the needed rescue.

SMART intervention / interaction Contact Numbers

Toll free number:

Names of cities and their contact numbers

Names of regional centres and their contact numbers

Terms and conditions

If found please return to:

