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…
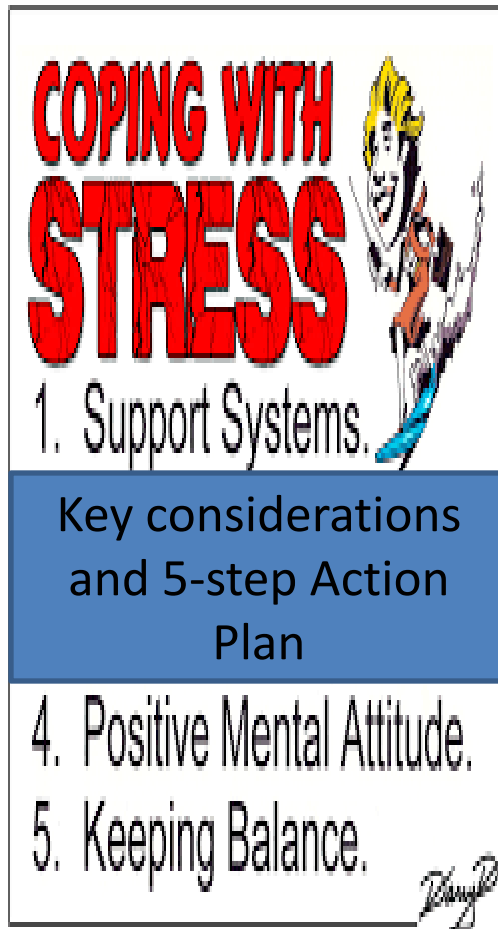
Connected Emergency Response Centre

- 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, the lack of ability dynamics in any signage, 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 (to help lack of **ability dynamics in any signage)**.

  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

COPING WITH STRESS

1. Support Systems.

Key considerations and 5-step Action Plan

4. Positive Mental Attitude.

5. Keeping Balance.

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

- We now look at a scenario where CERC deployments are made to help people use an Emergency Exit / Exit and stairway.

- **The Emergency Exit / Exit has the following inclusions.**

  Visual ALARM: CERC logo/Illustration of Exit assistant and Critical Path Method to be used

  Auditory ALARM: Audio feedback for Exit assistant and Critical Path Method to be used

  Tactile ALARM: Touch based feedback for sense & respond functions based on SLA(s), OLA(s), UC(s) and Machine Learning

- **The associated stairway has the following inclusions.**

  Visual ALARM: CERC logo / Illustration of Staircase assistant and CPM to be used

  Auditory ALARM: Audio feedback for type of Staircase assistant and CPM to be used

  Tactile ALARM: Probing/Contact/Touch based feedback for sense & respond functions based on SLA(s), OLA(s), UC(s) and Machine Learning

Connected Emergency Response Centre

<u>Connected </u>Art/design/ Allied innovation

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

The vision for the new CERC deployments is that art and allied innovation can help Emergency Response or Disaster mitigation via new SLA(s), OLA(s), UC(s) and LifeScores.

Till date all creative or pre-decided art forms that appear in products or innovations (to help Emergency Response and/or Disaster management) are dependent on business decisions or some governing body or stakeholder's general opinion. There is no agreement or contract to ensure connected emergency response, where training or machine learning for a LifeScore can evaluate the performance of the Visuals/Audio feedback/Tactile cues to help unique / common Preparedness, Mitigation, Response, Recovery and/or Assistance on an A-Z system basis.

Connected Emergency Response Centre

<u>CERC art/art work/ allied innovation for Connected Emergency Response</u>

For any CERC art/art work/allied innovation, a Service Level refers to Being Accountable for LifeScore related response strategy, 24/7 expectation or experience.

For any CERC art/art work/allied innovation, an Operations Level refers to LifeScore related Machine Learning / Training for 24/7 rated results.

For any CERC art/art work/allied innovation, an Underpinning Contract refers to defining contracts that bind the CERC networks, artists, designers, innovators to design/develop their creations or systems so an agreement is adhered to either at the Service Level or Operational Level.

Connected Emergency Response Centre

As part of integrated / independent Service Level Agreements

The proposed CERC deployment will use a Response-strategist / Made-to-assist-codes to incorporate connected accountability into the framework of CERC assistants (for LifeScore related response strategies, 24/7 expectations or experiences).

Visual illustrations + Response-strategist / Made-to-assist-codes = additions to the A-Z assistants / visual illustration problem solving

Audio feedback + Response-strategist / Made-to-assist-codes = additions to the A-Z assistants / audio feedback problem solving

Tactile feedback + Response-strategist / Made-to-assist-codes = additions to the A-Z assistants / tactile feedback problem solving

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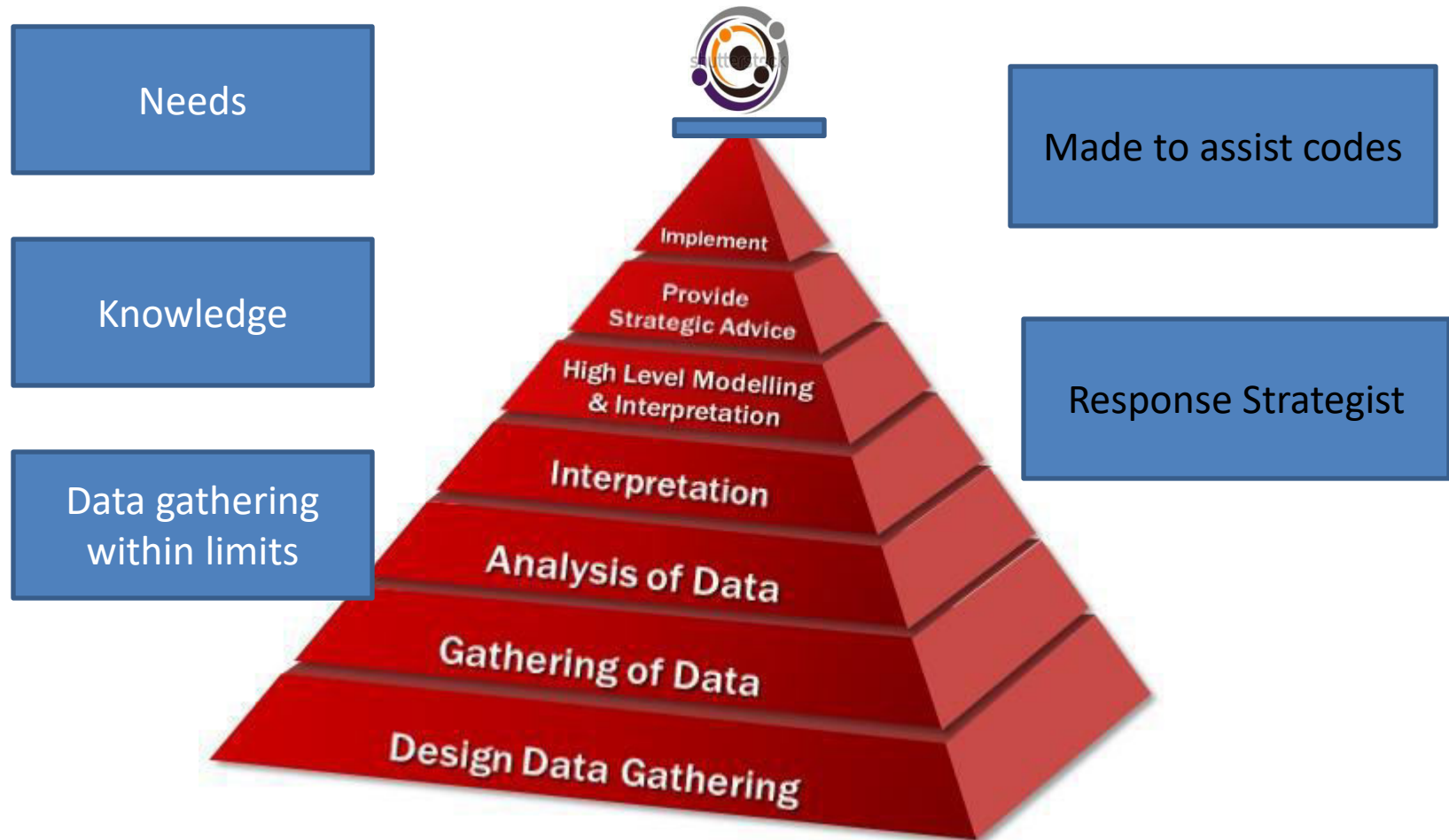# Connected Emergency Response Centre

<u>As part of integrated / independent Operations Level Agreements</u>

Visual illustrations + Machine Learning / Training = Creative Adversial Network solutions or Generative Adversial Network solutions or Convolutional Network solutions for Bio-centrism

Audio feedbacks + Machine Learning / Training = Creative Adversial Network solutions or Generative Adversial Network solutions or Convolutional Network solutions for Bio-centrism

Tactile feedbacks + Machine Learning / Training = Creative Adversial Network solutions or Generative Adversial Network solutions or Convolutional Network solutions for Bio-centrism
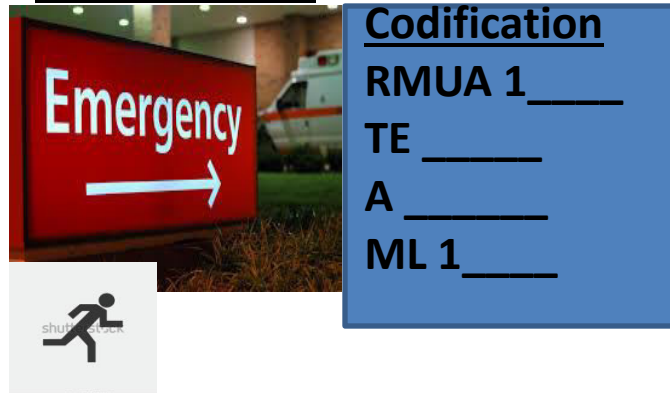
Connected Emergency Response Centre

Needs

Knowledge

Data gathering within limits

Made to assist codes

Response Strategist

Implement

Provide Strategic Advice

High Level Modelling & Interpretation

Interpretation

Analysis of Data

Gathering of Data

Design Data Gathering

Stepping beyond limits for Connected Emergency Response via art/design/allied innovation

Connected Emergency Response Centre

Visual CERC logo/illustration for assistant

Exit assistant

Codification
RMUA 1_____
TE _____
A _____
ML 1_____

The initial step is to codify the Visual

Connected Emergency Response Centre

<u>As part of integrated / independent Service Level Agreements</u>

The proposed CERC deployment will use a Response-strategist / Made-to-assist-codes to incorporate connected accountability (for LifeScore related response strategies, 24/7 expectations or experiences).

Visual illustrations + Response-strategist / Made-to-assist-codes = additions to the assistant / visual illustration problem solving

<u>As part of integrated / independent Operations Level Agreements</u>

Visual illustrations + Machine Learning / Training = Creative Adversial Network solutions or Generative Adversial Network solutions or Convolutional Network solutions for Bio-centrism

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Connected Emergency Response Centre

As part of Social Accountability and problem solving

The visual illustration for the running man (where the term man is not gender specific) will be editioned to support a Virtual Endpoint Principle where factors of Activation, Mindset, Method, Metrics and Strategy for Artificial Intelligence will decide the connected problem solving and response strategy.

The Emergency Exit / Exit assistant will need to include cues/illustrations for
RMUA 1____
TE _____
A _____
ML 1____

Connected Emergency Response Centre

Solution finding via a Response-strategist / Made-to-assist-codes
**The Prerequisite actualized Made to assist code for the Emergency exit / exit assistant will RMUA 1____**

By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the visual illustration will be codified for
1. Pre-requisites actualized for the accentuation
[a] Useful for a particular age group (RMUA 000)
[b] Useful for any age group   (RMUA 001)
[c] Has self-help information (RMUA 010)
[d] Has added-help information for old, sick or differently able (RMUA 100)
More commonly this assistant will need to be aggregated and codified as RMUA 1111
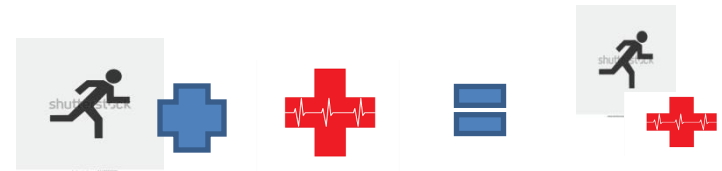
Connected Emergency Response Centre

<u>Solution finding via a Response-strategist / Made-to-assist-codes</u>
By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the <u>visual illustration deployed</u> will be accentuated to include

1. <u>Pre-requisites actualized</u>
[a] Useful for a particular age group

[b] Useful for any age group
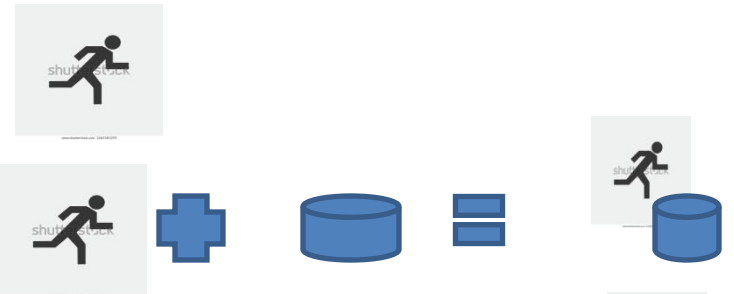
[c] Has self-help information

[d] Has added-help information for old, sick or differently able

Connected Emergency Response Centre

The **<u>Thinking expected</u>** Made to assist code for the Emergency exit / exit assistant will TE _____

2. <u>Thinking expected</u> for the accentuation
[a] LifeScore Sensitized thinking expected (TE 0001)
[b] Remedial thinking expected (TE 0010)
[c] Self-organization for emergency response expected (TE 0100)
[d] Is Internet Interfaced (TE 1000)
More commonly this assistant will need to be aggregated and codified as TE 1111

Vital-mindfulness-guide

Connected Emergency Response Centre

<u>Solution finding via a Response-strategist / Made-to-assist-codes</u>
By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the <u>visual illustration deployed</u> will be accentuated to include
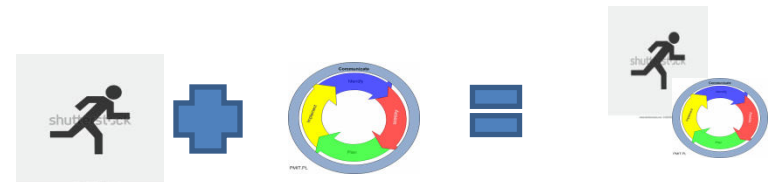
2. <u>Thinking expected</u>
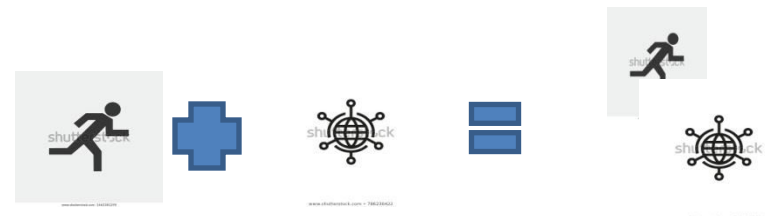[a] LifeScore Sensitized thinking expected

[b] Remedial thinking expected

[c] Self-organization for emergency response expected

[d] Is Internet Interfaced

Connected Emergency Response Centre

Example for a Visual CERC deployment for

an Exit assistant

The running man illustration will have associated accentuated illustrations that occupants will need to be instructed about . The meaning for this accentuation is that the exit is Useful for a particular age group, has self-help information that can be reviewed as possible, has added-help information for old, sick or differently able, the exit is sensitive to the ability of the occupants & has CERC incorporation, the exit expects Self-organization interaction to address issues when people rush, the exit is Internet integrated to sense & respond via connectivity/addon(s(to help occupants/security/facility staff/CERC staff utilize the exit in a planned way during a drill, evacuation or connected emergency response.

Connected Emergency Response Centre

The <u>Application</u> Made to assist code for the Emergency exit / exit assistant will A _____

3. <u>Application</u> for the accentuation
[a] Preparedness (A 00001)
[b] Mitigation (A 00010)
[c] Response (A 00100)
[d] Recovery (A 01000)
[e} CERC (A 10000)
More commonly this assistant will need to be aggregated and codified as A 11111

Vital-mindfulness-forum

Connected Emergency Response Centre

Solution finding via a Response-strategist / Made-to-assist-codes

By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the <u>vital mindfulness fo</u>rum will include details for

3. <u>Application</u>

[a] Preparedness

[b] Mitigation

[c] Response

[d] Recovery

[e} CERC

Connected Emergency Response Centre

Vital-mindfulness-forum

The <u>Machine Learning</u> Made to assist code for the Emergency exit / exit assistant will ML 1____

4. <u>Machine Learning</u> for the accentuation
[a] Creative Adversial Network solutions for Bio-centrism (ML 0001)
[b] Generative Adversial Network solutions for Bio-centrism (ML 0010)
[c] Convolutional Network solutions for Bio-centrism (ML 0100)
[d] Future CERC solutions for Bio-centrism (ML 1000)
More commonly this assistant will need to be aggregated and codified as ML 10011

Connected Emergency Response Centre

<u>Solution finding via a Response-strategist / Made-to-assist-codes</u>
By needing to address LifeScore related problem solving and 24/7 expectations or experiences the <u>vital mindfulness forum </u>will include details for

4. <u>Machine Learning </u>for the accentuation
[a] Creative Adversial Network solutions

[b] Generative Adversial Network solutions

[c] Convolutional Network solutions

[d] Future CERC solutions

Connected Emergency Response Centre
Audio feedback CERC logo/illustration for assistant

Exit assistant

Codification

S 1_____

D 1 _____

A 1_____

ML 1_____

The initial step is to codify the Audio

Connected Emergency Response Centre

As part of Social Accountability and problem solving

The audio feedback for the running man (where the term man is not gender specific) will be editioned to support a Virtual Endpoint Principle where factors of Activation, Mindset, Method, Metrics and Strategy for Artificial Intelligence will decide the connected problem solving and response strategy.

The Emergency Exit / Exit assistant will need to include cues/audio feedback for
S 1_____
D 1 _____
A 1_____
ML 1_____

Connected Emergency Response Centre

Solution finding via a Response-strategist / Made-to-assist-codes
The Audio feedback type Made to assist code for the Emergency exit / exit assistant will AF 1____

By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the audio feedback stration will be codified for
1. Pre-requisites actualized for the accentuation
[a] Sirens (AF 0001)
[b] Alarms (AF 0010)
[c] Audio playback (AF 0100)

Connected Emergency Response Centre

Solution finding via a Response-strategist / Made-to-assist-codes
By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the <u>audio feedback deployed</u> will be accentuated to include

1. **Pre-requisites like right type, right time, right guidance**

[a] Sirens

[b] Alarms

[c] Audio playback

Connected Emergency Response Centre

The Distance applicable Made to assist code for the Emergency exit / exit assistant will D _____

2. Distance applicable for the accentuation
[a] Sounded off at the assistant/assistant-innovation (D 00001)
[b] Sounded off at required places via Blue tooth connectivity (D 00010)
[c] Sounded off at required places via Wifi connectivity (D 00100)
[d] Sounded off at required places via Sound systems (D 01000)
[e] Sounded off at required places via Internet integrated appliances (D 10000)

Connected Emergency Response Centre

Solution finding via a Response-strategist / Made-to-assist-codes

By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the <u>audio feedback deployed</u> will be accentuated to include

1. <u>Pre-requisites like reasonable distance or connected locations</u>

 [a] Sounded off at the assistant/assistant-innovation
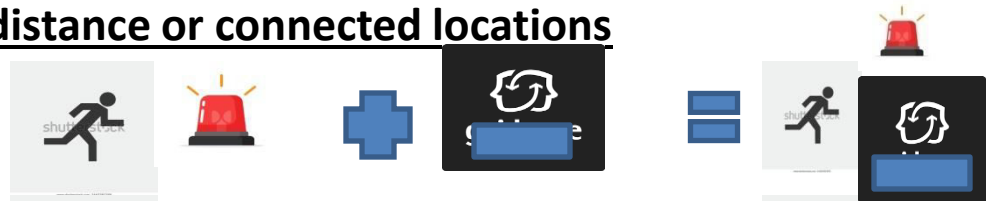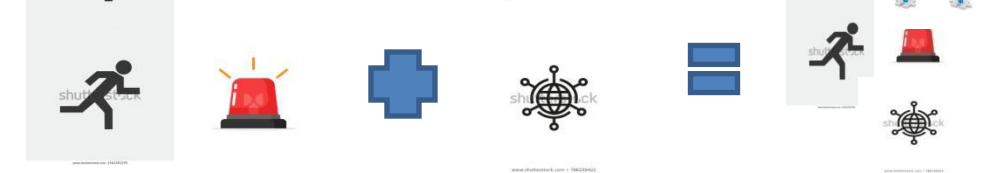
[b] Sounded off at required places via Blue tooth
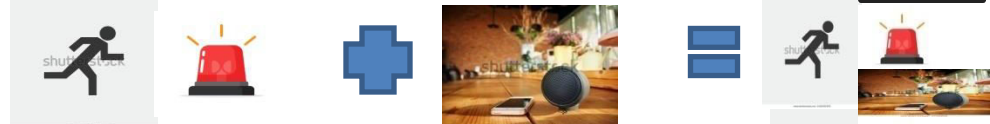
[c] Sounded off at required places via Wifi

[d] Sounded off at required places via Sound systems

[e] Sounded off at required places via Internet integrated appliances

Connected Emergency Response Centre

Example for a Audio Feedback CERC deployment for
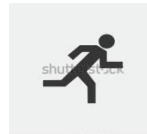
an Exit assistant

The running man illustration will have associated accentuated illustrations that occupants will need to be instructed about. The meaning for this audio feedback accentuation for the exit is that it has a siren, it has audio playback that can be reviewed as possible, it has sound systems sounding off the siren at different locations, the exit is Internet integrated to sense & respond via connectivity/addon(s(to help occupants/security/facility staff/CERC staff utilize the exit in a planned way during a drill, evacuation or connected emergency response.

Connected Emergency Response Centre

The <u>Application</u> Made to assist code for the Emergency exit / exit assistant

will A _____

3. <u>Application</u> for the accentuation
[a] Preparedness (A 00001)
[b] Mitigation (A 00010)
[c] Response (A 00100)
[d] Recovery (A 01000)
[e} CERC (A 10000)
More commonly this assistant will need to be aggregated and codified as A 11111

Connected Emergency Response Centre

<u>Solution finding via a Response-strategist / Made-to-assist-codes</u>
By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the <u>vital mindfulness forum</u> will include details for

3. <u>Application</u>
[a] Preparedness

[b] Mitigation

[c] Response

[d] Recovery

[e} CERC

Connected Emergency Response Centre

The __Machine Learning__ Made to assist code for the Emergency exit / exit assistant will ML 1____

4. __Machine Learning__ for the accentuation
[a] Creative Adversial Network solutions for Bio-centrism (ML 0001,
[b] Generative Adversial Network solutions for Bio-centrism (ML 0010)
[c] Convolutional Network solutions for Bio-centrism (ML 0100)
[d] Future CERC solutions for Bio-centrism (ML 1000)
More commonly this assistant will need to be aggregated and codified as ML 10011

Connected Emergency Response Centre

Solution finding via a Response-strategist / Made-to-assist-codes
By needing to address LifeScore related problem solving and 24/7 expectations or experiences the <u>vital mindfulness forum </u>will include details for

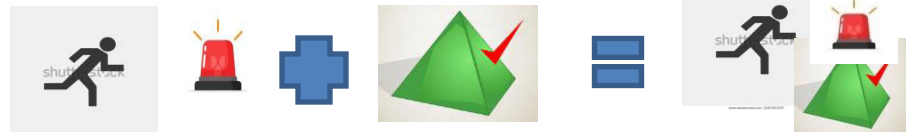**4. <u>Machine Learning </u>for the accentuation**
[a] Creative Adversial Network solutions

[b] Generative Adversial Network solutions

[c] Convolutional Network solutions

[d] Future CERC solutions

Connected Emergency Response Centre
Tactile feedback CERC logo/illustration for assistant

Exit assistant

Codification
T 1_____
P 1_____
D 1_____
A 1_____
ML 1_____

The initial step is to codify the Tactile feedback

Connected Emergency Response Centre

<u>As part of Social Accountability and problem solving</u>

The tactile feedback for the running man (where the term man is not gender specific) will be editioned to support a Virtual Endpoint Principle where factors of Activation, Mindset, Method, Metrics and Strategy for Artificial Intelligence will decide the connected problem solving and response strategy.

<u>The Emergency Exit / Exit assistant will need to include cues/audio feedback for</u>
**T 1_____
F 1 _____
D 1_____
A 1_____
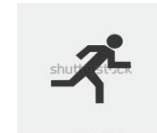ML 1_____**

Connected Emergency Response Centre

Solution finding via a Response-strategist / Made-to-assist-codes
The Touch feedback type Made to assist code for the Emergency exit / exit assistant will T 1_____

By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the audio feedback stration will be codified for
1. Pre-requisites actualized for the accentuation
[a] **Realistic Touch** enabled feedback (T 00001)
[b] **Accidental Touch** enabled feedback (T 00010)
[c] **Probing Touch** enabled feedback (T 00100)
[d] **Identity-Scanned Touch** enabled feedback (T 01000)
[e] **Internet-integrated Trigger** enabled feedback (T 10000)

Connected Emergency Response Centre

Solution finding via a Response-strategist / Made-to-assist-codes
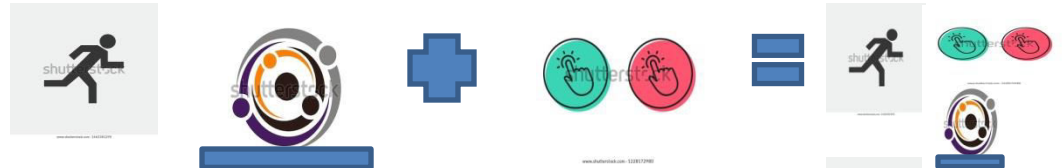By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the <u>touch feedback deployed</u> will be accentuated to include

1. Pre-requisites like right type, right feel, right reinforcing, right guidance

[a] **Realistic Touch** enabled feedback

[b] **Accidental Touch** enabled feedback
(instantaneous response)

[c] **Probing Touch** enabled
(response for the visually impaired/ debilitated/sick)

Connected Emergency Response Centre

Solution finding via a Response-strategist / Made-to-assist-codes
By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the <u>touch feedback deployed</u> will be accentuated to include

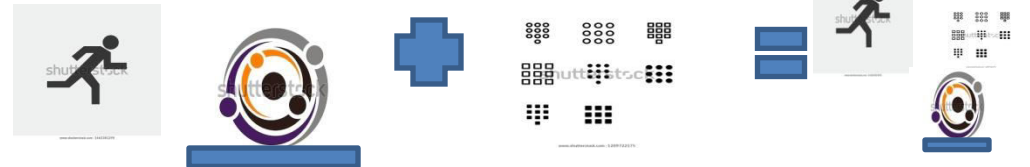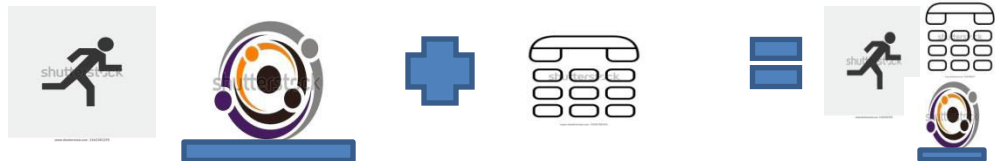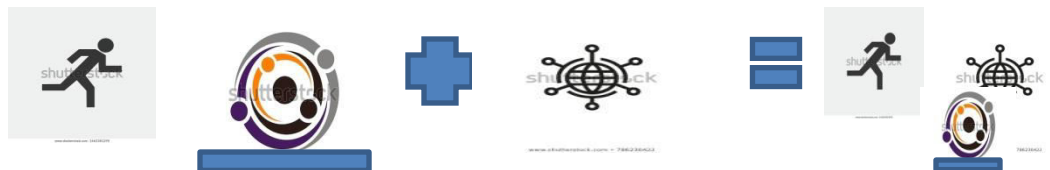**1.   Pre-requisites like right type, right feel, right reinforcing, right guidance**

[d] Identity-Scanned Touch
enabled feedback (for occupant code/
Flat number/block-floor number/
Block number/ building number)

[e] Internet-integrated Trigger
enabled feedback

Connected Emergency Response Centre

The Feedback Made to assist code for the Emergency exit / exit assistant will F 1_____

2. Feedback applicable for the accentuation
[a] Feedback sent to CERC (F 0001)
[b] Feedback is broadcasted to CERC members (F 0010)
[c] Feedback sent to specific CERC Account (F 0100)
[d] Feedback sent to SA8000-CERC Account (F 1000)

Connected Emergency Response Centre

Solution finding via a Response-strategist / Made-to-assist-codes

By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the touch feedback deployed will be accentuated to include

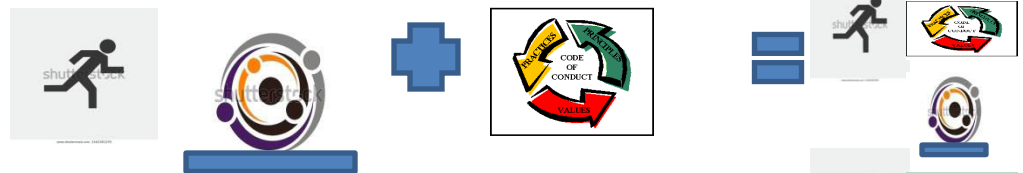**1. Pre-requisites like right response audience**

[a] Feedback to CERC

[b] Feedback to CERC members
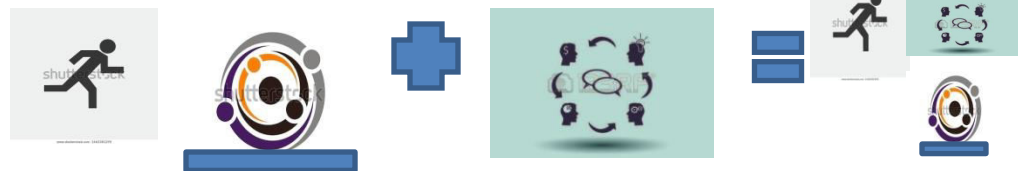
[c] Feedback to specific CERC Account

[d] Feedback to SA8000-CERC Account

Connected Emergency Response Centre

The Duration Made to assist code for the Emergency exit / exit assistant

will D 1_____

3. Duration applicable for the accentuation
[a] Short Term   (D 0000)
[b] Long Term   (D 0010)
[c] Till Acknowledged (D 0100)
[d] Till Response (D 1000)

Connected Emergency Response Centre
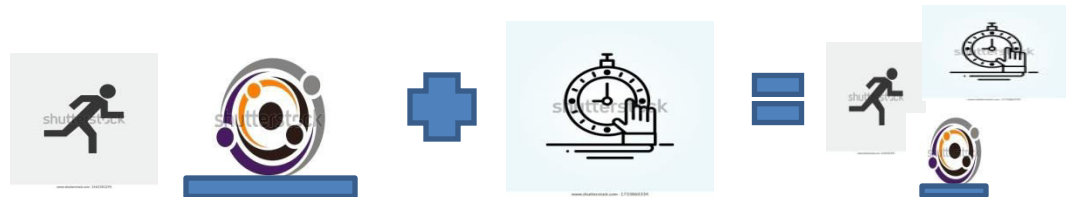
Solution finding via a Response-strategist / Made-to-assist-codes
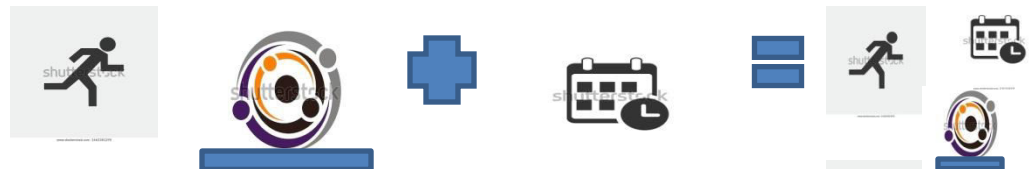By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the <u>touch feedback deployed</u> will be accentuated to include
1. **Pre-requisites like right duration for sense & respond action planning**

[a] Short Term

[b] Long Term

[c] Till Acknowledged
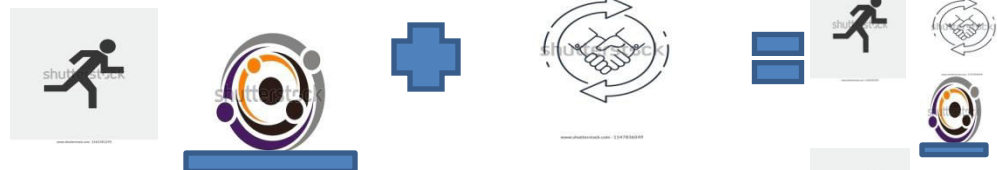
[d] Till Response
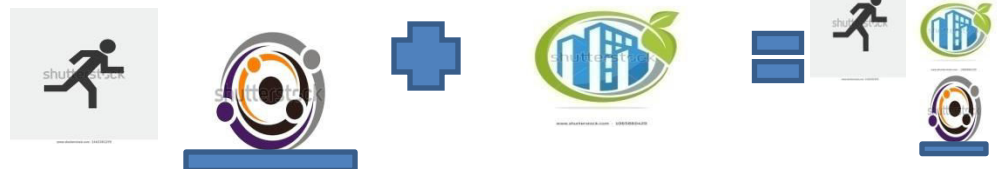
Connected Emergency Response Centre

Example for a Tactile Feedback CERC deployment for
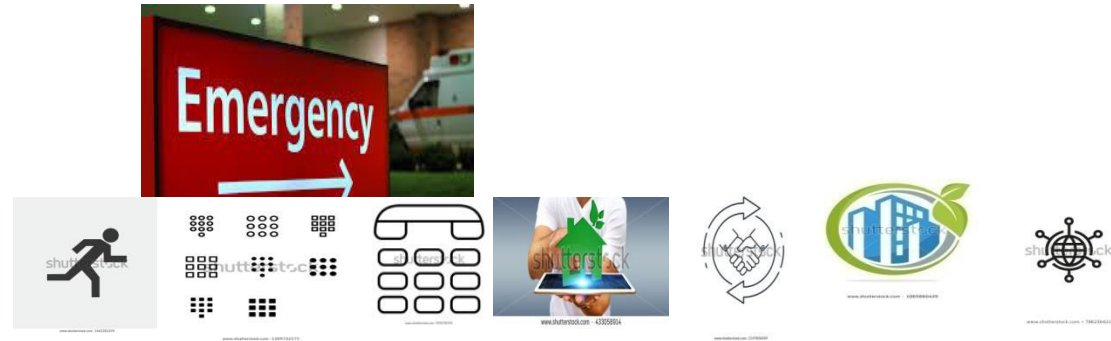
an Exit assistant

The running man illustration will have associated accentuated illustrations that occupants will need to be instructed about. The meaning for this tactile feedback accentuation for the exit is that it has probing touch enabled feedback, alternatively it has identity enabled feedback that can be reviewed as possible, it sends a signal to the CERC department, the signal is sent till a responder's acknowledgment is communicated to the virtual endpoint, or the signal is sent till a CERC response is achieved at the virtual endpoint, the exit is Internet integrated to sense & respond via connectivity/addon(s(to help occupants/security/facility staff/CERC staff utilize the exit in a planned way during a drill, evacuation or connected emergency response.

Connected Emergency Response Centre

The <u>Application</u> Made to assist code for the Emergency exit / exit assistant will A _____

4. <u>Application</u> for the accentuation
[a] Preparedness (A 00001)
[b] Mitigation (A 00010)
[c] Response (A 00100)
[d] Recovery (A 01000)
[e} CERC (A 10000)
More commonly this assistant will need to be aggregated and codified as A 11111

Connected Emergency Response Centre

Solution finding via a Response-strategist / Made-to-assist-codes

By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the <u>vital mindfulness for</u>um will include details for

3. Application

[a] Preparedness

[b] Mitigation

[c] Response

[d] Recovery

[e} CERC

Connected Emergency Response Centre

The <u>Machine Learning</u> Made to assist code for the Emergency exit / exit assistant will ML 1____

5. <u>Machine Learning</u> for the accentuation
[a] Creative Adversial Network solutions for Bio-centrism (ML 0001)
[b] Generative Adversial Network solutions for Bio-centrism (ML 0010)
[c] Convolutional Network solutions for Bio-centrism (ML 0100)
[d] Future CERC solutions for Bio-centrism (ML 1000)
More commonly this assistant will need to be aggregated and codified as ML 10011

Connected Emergency Response Centre

<u>Solution finding via a Response-strategist / Made-to-assist-codes</u>
By needing to address LifeScore related problem solving and 24/7 expectations or experiences the <u>vital mindfulness forum </u>will include details for

4. <u>Machine Learning </u>for the accentuation
[a] Creative Adversial Network solutions

[b] Generative Adversial Network solutions

[c] Convolutional Network solutions

[d] Future CERC solutions

Connected Emergency Response Centre

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

Exit assistant

Made to assist codes

Green Globe
Codification
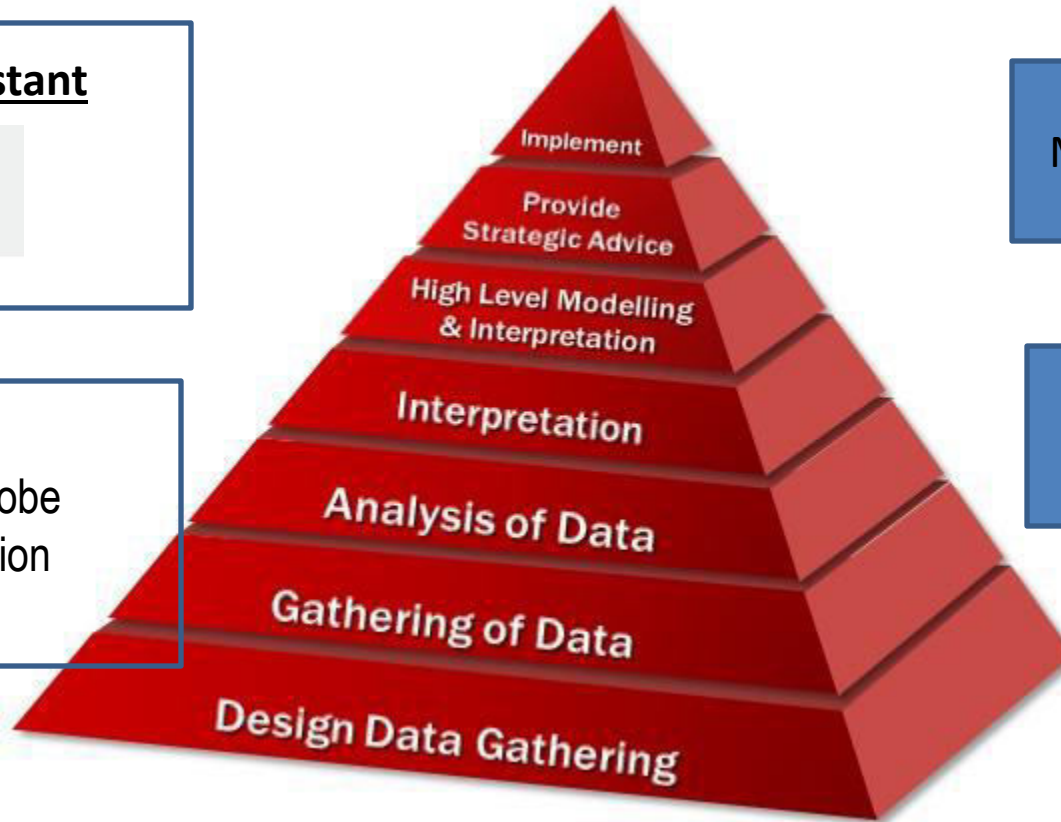
Response Strategist

Implement

Provide
Strategic Advice

High Level Modelling
& Interpretation

Interpretation

Analysis of Data

Gathering of Data

Design Data Gathering

Connected Emergency Response via art/design/allied innovation

Connected Emergency Response Centre

- **Problem solving for Copyright, Intellectual property or Secure art/art forms for the exit assistant:**
  The CERC-art will also have a specialized CERC-art gallery where
  art / art forms / designs / allied innovations that are for
  Connected Emergency Response will be showcased.

Versions

- The CERC-art gallery will either include or enable inclusion of art/art forms/ designs for the exit assistant. A designer/artist/ innovator may access the digitized version of the art/art form/ design that needs to be versioned/ improved/ customized via Machine learning and Training..

- On improvement/customization for the site and its response framework, the digitized version will be uploaded into the CERC-art gallery, where a branch or version will be created for the original or present version.

  The **need to translate text** that may be independently included or embedded in the art/ art form will need to be dealt with, either by a CERC team of translators or CERC auto-translator insights. The problem solving is still work in progress.

Connected Emergency Response Centre

- **SLA(s), OLA(s), UC(s) for the art/art forms for the exit assistant:**
- For the exit assistant's CERC art/art work/design/ allied innovation, a Service Level refers to Being Accountable via improvement/customization/responsiveness for LifeScore related response strategy, 24/7 expectation or experience.

- For the exit assistant's CERC art/art work/ design/ allied innovation, an Operations Level refers to improvement/customization/responsiveness via LifeScore related Machine Learning / Training for 24/7 rated results.

- For the exit assistant's CERC art/art work/ design/ allied innovation, an Underpinning Contract refers to defining contracts that bind the CERC networks, artists, designers, innovators to design/develop their creations or systems so an agreement is adhered to either at the Service Level or Operational Level.

- As part of any **SLA(s), OLA(s), UC(s) for the art/art forms for the exit assistant,** on improvement/customization for the site and its response framework, the digitized version will be uploaded into the CERC-art gallery, where a branch or version will be created for the original or present version.

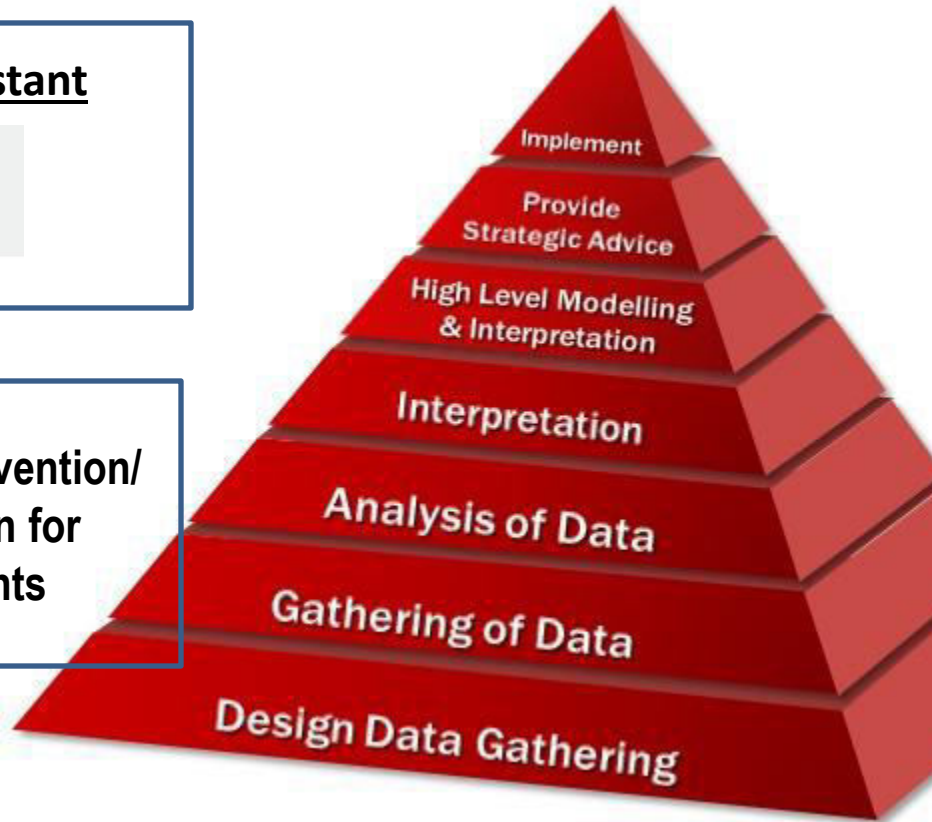# Connected Emergency Response Centre

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

Exit assistant

SMART intervention/ interaction for occupants

Implement

Provide Strategic Advice

High Level Modelling & Interpretation

Interpretation

Analysis of Data

Gathering of Data

Design Data Gathering

Emergency Management

Behavioral Health

Public Health

First Responders

Ambulatory Care

Critical Path Method

Connected Emergency Response Centre

- **Critical Path Method for the exit assistant**

- The Critical Path Method For the exit assistant will include factors related to

- 1. Emergency Management

- 2. Behavioral Health

- 3. Public Health

- 4. First Responders

- 5. Ambulatory Care

- **For Emergency Management**

- (a) The exit assistant will have a **Connected Emergency Response drill or evacuation plan**

- (b) The Connected Emergency Response drill or evacuation plan will have a **specific solution for a priority associated with the emergency.**

- (c) The Connected Emergency Response Centre will **deploy Visual/Audio/Tactile cues to help emergency response.**

- (d) The exit assistant will ensure **availability of special keys or access permissions for certain exits or exit enabling as and when required on a site**.

Connected Emergency Response Centre

- **For Behavioral Health**

- (a) The exit assistant **will include 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.

- (b) The exit assistant will **include Emergency response advisories to be issued and understood by occupants**

- (c) The exit assistant will **include Afflicted Emergency Response practices to be specifically incorporated for the blind, disabled, handicapped or even people with afflicted mobility or afflicted awareness / response (to mutually respect their needs irrespective of whether there is a lack of ability-dynamics in the signage)**

Connected Emergency Response Centre

- **For Public Health**

- (a) The exit assistant will **ensure no illustration, no vital ability-dynamics is missing in signage, no vocabulary and/or no language problem can affect occupants** during an emergency response.

- (b) The exit assistant **will design solutions based on LifeScore Interlinks for the occupants from a floor or block, where levels of Preparedness, aptitude for Mitigation and immediate Responsiveness is not the same**.

- (c) The exit assistant will **acclimatize occupants about the nature of emergency exits, or exits or stairways at that location or floor of the block, building or site**.

- (d) The exit assistant **will include characteristic sensitization to help or assist the afflicted who cannot rush out an emergency exit, or exit nor use a stairway conveniently when the occupants cannot be self-organized during the evacuation**.

Connected Emergency Response Centre

- **For First Responders**

- (a) The exit assistant **will recommend occupants have a Companion Card or Badge** to identify them if at all necessary during and after the evacuation or emergency response.

- (b) The exit assistant will **ensure no illustration, no vocabulary and/or no language problem can affect first responders during an emergency res**ponse.

- (c) The exit assistant will **design solutions to help first responders based on LifeScore Interlinks for the occupants from a floor or bloc**k, where levels of Preparedness, aptitude for Mitigation and immediate Responsiveness is not the same.

- (d) The exit assistant will **acclimatize first responders about the nature of emergency exits, or exits or stairways at that location or floor of the block, building or site**.

- (e) The exit assistant **will screen / report Variance, Downtime or Issues to help first responders use patterns of response and connected effort to swiftly save or protect life**.

Connected Emergency Response Centre

- **For Ambulatory Care**

- (a) The exit assistant **will recommend occupants have a Companion Card or Badge** to identify them if at all necessary during and after the evacuation or emergency response.

- (b) The exit assistant **will recommend type of Categorized Emergency Response that should be available for specific occupants** on rushing out or on being Aged, weak or sick people

- (c) The exit assistant **will help preparedness or sensitization to deal with stress and difficult to cope up with emotions prior to any priority based evacuation, or during an emergency response or before the arrival of ambulatory care**.

Connected Emergency Response Centre

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

Exit assistant

SMART intervention/ interaction for occupants

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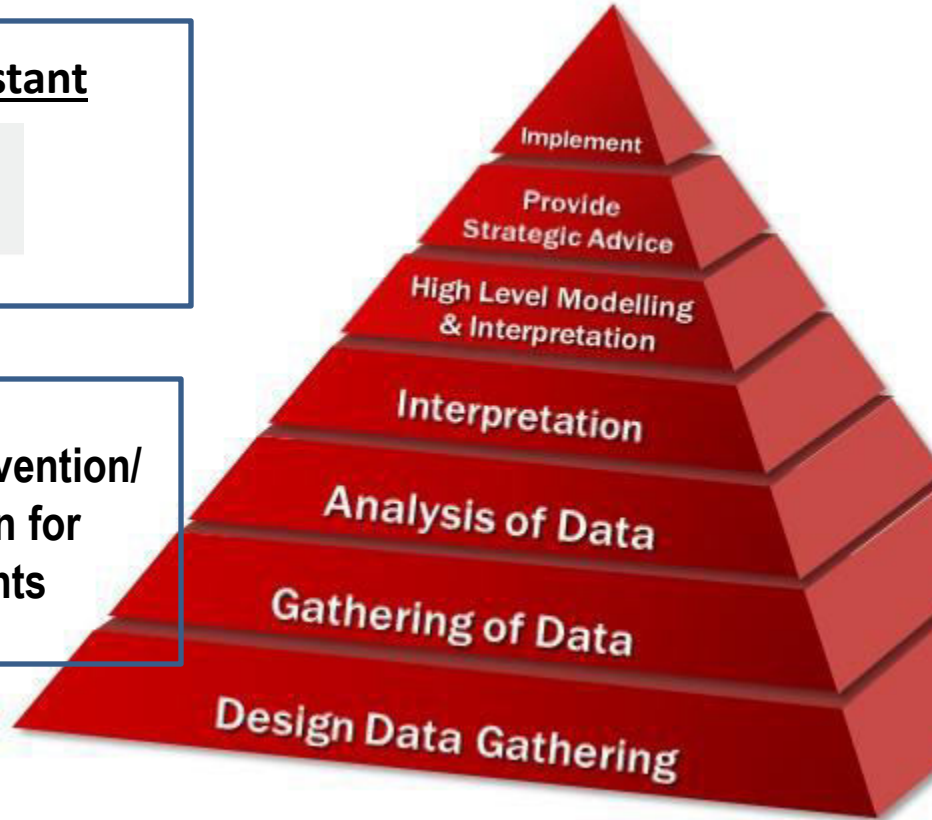
Emergency Management

Behavioral Health

Public Health

First Responders

Ambulatory Care

Strategy for Artificial Intelligence /Machine Learning

Connected Emergency Response Centre

<u>Strategy for Artificial Intelligence /Machine Learning</u>

- **We know of Art helping 360 degree reality, Virtual reality, Extended reality and Augmented reality, but via this proposal we expect to use Art and AI/ML to add Green Globe responsiveness.**

- A new **CERC Social Accountability standard** will help design-bid-build, design-build or construct buildings, facilities or sites with sense and respond solutions for CCMA influencers and Connected Emergency Response.

- The standard will design a new CERC-labeling scheme to be designed, developed and improved by a **CERC-labeling network** that can seek advice, consult with stakeholders or even use site specific surveys/feedback/machine learning to recognize the requirements being experienced during emergency response or evacuation at sites.

- The **CERC-labeling scheme will be criteria based** such as whether the CERC-art/artwork/art form/allied innovation is a Visual ALARM, or an Auditory ALARM, or a Tactile ALARM and Specific awareness & response based ALARM.

- The CERC-labeling scheme will also identify the scope of problem solving that is whether the label is for an **Independent problem solving**, or **National level problem solving**, or **International level problem solving** or even **Multi-national level problem solving**.

Connected Emergency Response Centre

Strategy for Artificial Intelligence /Machine Learning

- **The CERC- labeling scheme** for this newer CERC-art will also associate a CERC-logo that signifies the product/art/art form/artwork/allied innovation is for Connected Emergency Response.

- **From the SAAI Factory perspective, the CERC-logo will identify a product for a site's Biocentrism f**or Sense and Respond experiences to save & protect life at the time of a threat, disaster or accelerated risk.

- The new Sense and Respond experience will add **R**eal time, Interactive, **P**rocess oriented, **P**erformance and **E**nvironment "Green Globe intelligence, learning and acknowledgment" to a site.

- The product will serve as an interlink of profiles, showcases & critical thinking for problem solving, reasoning and evaluating of a site's vulnerability in disasters.

Connected Emergency Response Centre

Strategy for Artificial Intelligence /Machine Learning

- **The new Sense and Respond experience for a Critical Path Method for the exit assistant**
- We have stated that the Critical Path Method For the exit assistant will include factors related to
- 1. Emergency Management
- 2. Behavioral Health
- 3. Public Health
- 4. First Responders
- 5. Ambulatory Care

- The new Sense and Respond experience will need to add **R**eal time, Interactive, **P**rocess oriented, **P**erformance and **E**nvironment "Green Globe intelligence, learning and acknowledgment" to each factor of the exit assistant.

- The new Sense and Respond experience will need to identify the "trainable qualified-product-experiences" and the "trainable qualified-product-information" for the assistant.

Connected Emergency Response Centre

<u>Strategy for Artificial Intelligence /Machine Learning</u>

- **<u>For this example, we infer that the following are the trainable qualified product information, that is, ability to</u>**

Train the Sense & Respond experience based on the Real Time **<u>Score for</u>**

[A] Guidelines for Connected Emergency Response

[1] Relevant [2] Good [3] Adverse impact [4] Not applicable

[B] Impact reduction for Connected Emergency Response

[1] Relevant [2] Good [3] Adverse impact [4] Not applicable

[C] Positive health and wellness

[1] Relevant [2] Good [3] Adverse impact [4] Not applicable

[D] Better chances of survival for Connected Emergency Response

[1] Relevant [2] Good [3] Adverse impact [4] Not applicable

Connected Emergency Response Centre

Strategy for Artificial Intelligence /Machine Learning

- **For this example, we next infer that the following are the trainable qualified product information, that is, ability to**

  Train the Sense & Respond experience based on Interactive f**actors that help**

  [A] Remembering the Sense & Respond Intent/System for CERC

  [1] Relevant [2] Good [3] Adverse impact [4] Not applicable

  [B] Making sense of the Sense & Respond Intent/System for CERC

  [1] Relevant [2] Good [3] Adverse impact [4] Not applicable

  [C] Understanding the Sense & Respond Intent/System for CERC

  [1] Relevant [2] Good [3] Adverse impact [4] Not applicable

  [D] Application of the Sense & Respond Intent/System for CERC

  [1] Relevant [2] Good [3] Adverse impact [4] Not applicable

- The abbreviation CERC stands for **Connected Emergency Response**

Connected Emergency Response Centre

Strategy for Artificial Intelligence /Machine Learning

- **For this example, we additionally infer that the following are the trainable qualified product information that is**

    Train the Sense & Respond experience based on Process-oriented f**actors that help the**

    [A] Anytime need to use this assistant / innovation for CERC

    [1] Relevant [2] Good [3] Adverse impact [4] Not applicable

    [B] Anywhere use of this assistant / innovation for CERC

    [1] Relevant [2] Good [3] Adverse impact [4] Not applicable

    [C] Anyhow use of this assistant / innovation for CERC

    [1] Relevant [2] Good [3] Adverse impact [4] Not applicable

    [D] Zero-unplanned effort use of this assistant / innovation for CERC

    [1] Relevant [2] Good [3] Adverse impact [4] Not applicable

- The abbreviation CERC stands for **Connected Emergency Response**

Connected Emergency Response Centre

Strategy for Artificial Intelligence /Machine Learning

- **For this example, we further infer that the following are the trainable qualified product information, that is, ability to**

Train the Sense & Respond experience based on **P**erformance f**actors that help the**

[A] Social Performance / Trust Level for the Occupants

[1] Relevant [2] Good [3] Adverse impact [4] Not applicable

[B] Social Performance / Trust Level for the CERC team

[1] Relevant [2] Good [3] Adverse impact [4] Not applicable

[C] Social Performance / Trust Level for First Responders / Special-assistance Responders

 [1] Relevant [2] Good [3] Adverse impact [4] Not applicable

[D] Social Performance / Trust Level for Construction & Building experts / associated governing authorities

 [1] Relevant [2] Good [3] Adverse impact [4] Not applicable

- The abbreviation CERC stands for **Connected Emergency Response**

Connected Emergency Response Centre

Strategy for Artificial Intelligence /Machine Learning

- **For this example, we conclude / summarize that the following are the trainable qualified product information, that is, ability to**

Train the Sense & Respond experience based on **E**nvironment f**actors that help**

[A] Site specific A-Z Portfolio for CERC

[1] Relevant [2] Good [3] Adverse impact [4] Not applicable

[B] Timeline for responsiveness and Deployment for CERC

[1] Relevant [2] Good [3] Adverse impact [4] Not applicable

[C] Strategy for sensors, systems, processes, services or remedial steps for CERC

 [1] Relevant [2] Good [3] Adverse impact [4] Not applicable

[D] Develop responsiveness via a Design-Bid-Build option, or a Design-Build option or a Construction Management option

 [1] Relevant [2] Good [3] Adverse impact [4] Not applicable

- The abbreviation CERC stands for **Connected Emergency Response**

Connected Emergency Response Centre

Machine Learning for the Bio-centrism for Connected Emergency Response

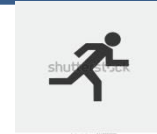**Emergency Management**

Behavioral Health

People Health

First Responders

Sense & Respond influencers

Ambulatory Care

Connected Emergency Response Centre

Machine Learning for the Bio-centrism for Connected Emergency Response

The CERC **biocentrism expected** to matter for any assistant are it's Sense & Respond Levels for **Emergency Management, Behavioral Health, Public Health, First Responders and Ambulatory Care**. The **Sense & Respond influencers** for any assistant (art/art form/art work/allied innovation) are expected to include
1. Service Level Agreements (SLA(s))
2. Operations Level Agreements (OLA(s))
3. Underpinning Contracts (UC(s))
4. LifeScore for occupants/floor/block/building/site
5. Machine Learning / Training

The intent is to decide on a weighted score for all Sense & Respond ratings, where the score ranges from (-1) for Adverse Impact to (1) for Good, where the in-between values of (0) for Not Applicable and (0.5) for Relevant are expected to help bio-centrism. (-1) is expected to mean that the LifeScore dynamics of the ability of occupants have not been addressed in the CERC biocentrism.

Connected Emergency Response Centre

Machine Learning for the Bio-centrism for Connected Emergency Response

LifeScore dynamics of the ability of occupants could relate to "not being to run steadily or fast, not being able to use, assist or clasp with hands firmly, not being able to walk down steps/not being able to climb steps easily, not being well to accomplish emergency response, needing to be assisted in mobility, being pregnant, needing to carry a baby, or child or known aged person". We term this as **Equity Level in Biocentrism.**

The lack of Biocentrism in the Emergency Exit/Exit/associated stairway could be addressed via LifeScore codification, a Response strategist and Made-to-assist codes that need to be incorporated in the assistant for these pre-requisites and Equity level.

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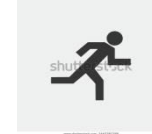**Machine Learning for the Bio-centrism for Connected Emergency** Response

[a] Creative Adversial Network solutions (with Immersive & Perceptive Time Series Forecasting) **for the Real Time Score, Interactive factors**

[b] Generative Adversial Network solutions **(**with Objective Reality Recommendation engine) **for the Process-oriented factors, Performance factors**

[c] Convolutional Network solutions (with Strategic Connect Feature extraction) **for Green Globe responsiveness**

[d] Future CERC solutions (with Classification or Supervised Learning) **for the Environment factors**

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<u>Machine Learning</u> for the Bio-centrism for Connected Emergency
Response

Work in progress….

Connected Emergency Response Centre

You can call us on + 91 9342867666 or email us at venkataoec@gmail.com for more details

SMART intervention / interaction for occupants

Functional data | Autonomic data