

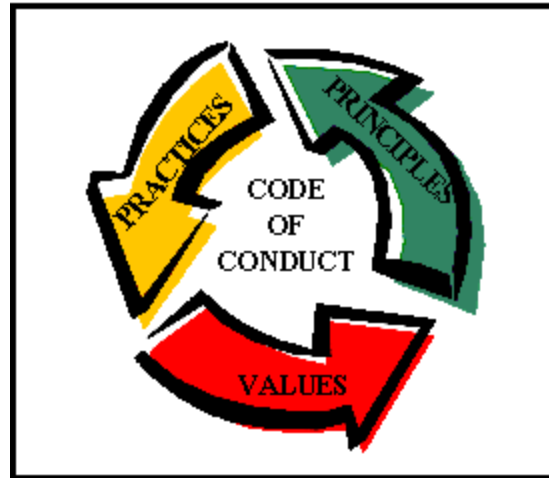
AOEC's Pitch



Green Globe
Responsiveness



Connected Emergency
Response (CER)



**SOCIAL
ACCOUNTABILITY**

Team AOEC



Subsistence and
Emergence



Global Field
Balancing

AOEC's Pitch

- **Team name:** AOEC
- **DevPost project name:** Green Globe Responsiveness
- Our submission for the SAAI Factory Hackathon
- **Landing page for the SAAI Factory Hackathon:**
 - www.venkataoec.wixsite.com/futuregenart
- **Panel of interest:** Connected Emergency
- Response Centre
- **Team details:**
 - K.S.Venkatram (Gap Analyst, AOEC)
 - Abhiram (Technical Consultant, Operations Advisor)
 - Dorai Raj S N (Senior Academician for Accountancy, Commerce, Economics and Policy development)
 - Sujendra Raju (GOK, Retired Commercial Tax Commissioner)
 - Lakshmi (Senior Academician for Science and Mathematics)
 - Aakkash K V (BTECH Automotive Engineering, interested in CCMA)
 - CCMA stands for Climate Change Mitigation and Adaptation



Milestones for CCMA

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.

We start by highlighting issues affecting us in 2020/2021.

Climate Change Challenges in 2020/2021

Air Pollution
Monitoring

Site Health
Monitoring

Weather Analytics
and Monitoring

Water Body* Hazard
and Pollution
Monitoring

Hurricane /
Tornado/ Floods/
Cyclone Risk
Mitigation

Infrastructure
Monitoring and Risk
Mitigation

Health Issues
Monitoring &
Transmission Dynamics

Earthquake or
Tremor Risk
Mitigation

Nationalism, Sustainable
Development and
Growth

Forest Fire Detection
and Risk Mitigation

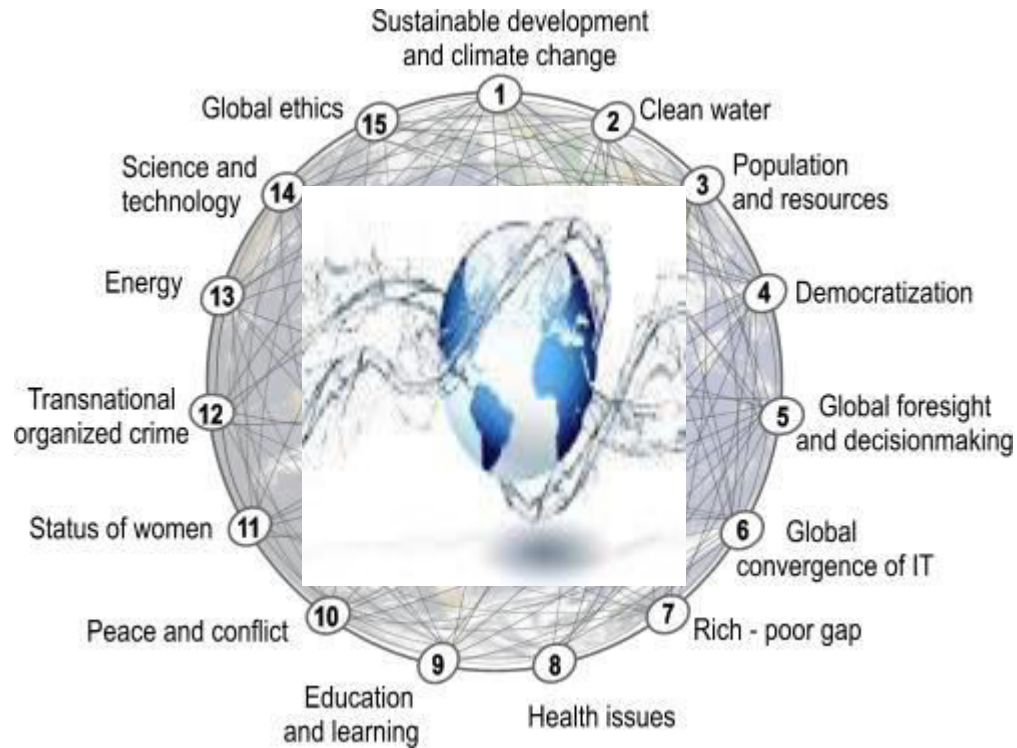
Greener Mobility and
Logistics specific Risk
Mitigation

Ecosystem* specific
Risk Mitigation

Agriculture* specific
Risk Mitigation



Global Challenges in 2020/2021



Ref: Project Millennium

Global Challenges in 2020/2021

- 1. How can sustainable development be achieved for all while addressing global climate change?
- 2. How can everyone have sufficient clean water without conflict?
- 3. How can population growth and resources be brought into balance?
- 4. How can genuine democracy emerge from authoritarian regimes?
- 5. How can decision making be enhanced by integrating improved global foresight during unprecedented accelerating change?
- 6. How can the global convergence of information and communications technologies work for everyone?
- 7. How can ethical market economies be encouraged to help reduce the gap between rich and poor?
- 8. How can the threat of new and reemerging diseases and immune micro-organisms be reduced?

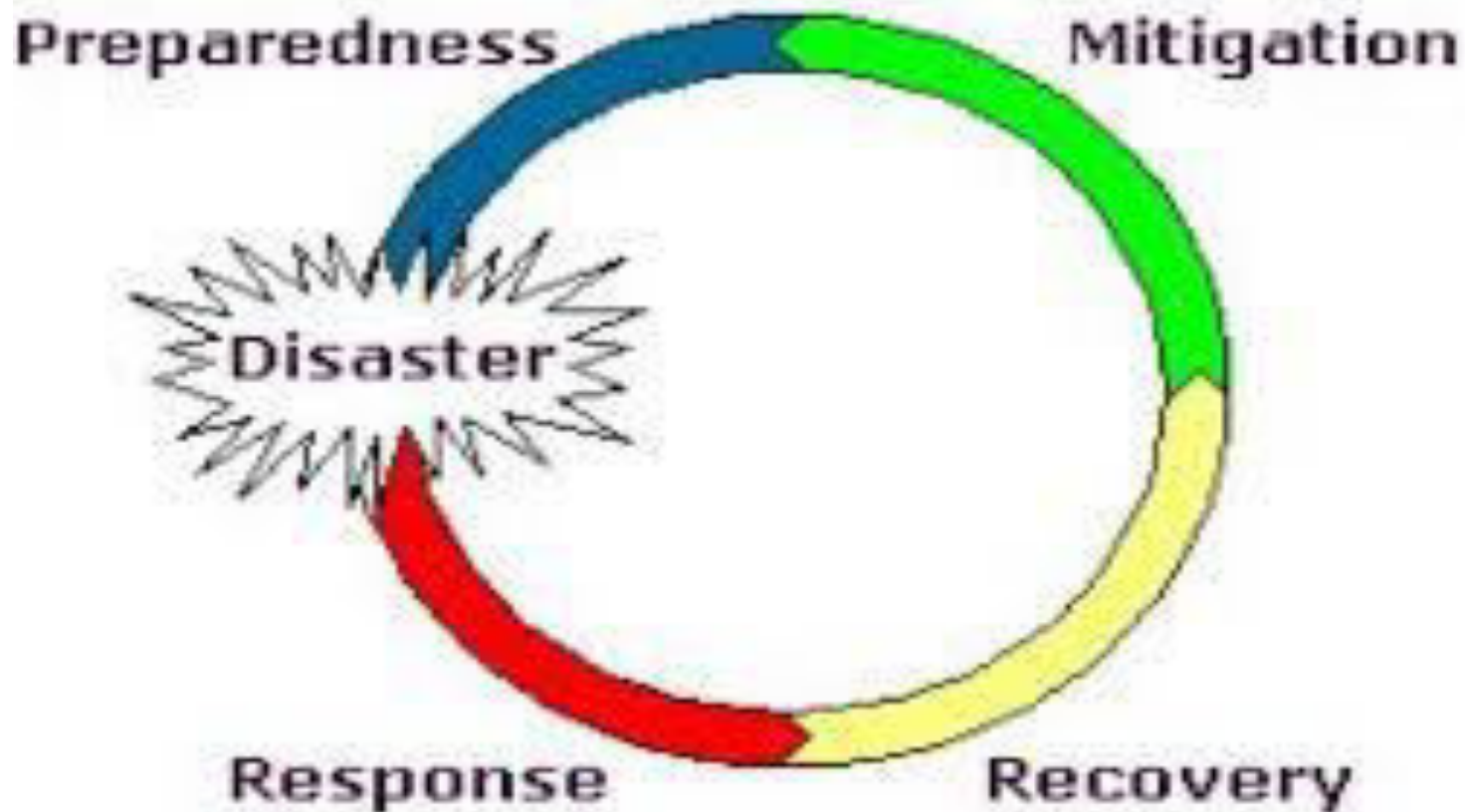
Ref: Project Millennium

Global Challenges in 2020/2021

- 9. How can education make humanity more intelligent, knowledgeable, and wise enough to address its global challenges?
- 10. How can shared values and new security strategies reduce ethnic conflicts, terrorism, and the use of weapons of mass destruction?
- 11. How can the changing status of women help improve the human condition?
- 12. How can transnational organized crime networks be stopped from becoming more powerful and sophisticated global enterprises?
- 13. How can growing energy demands be met safely and efficiently?
- 14. How can scientific and technological breakthroughs be accelerated to improve the human condition?
- 15. How can ethical considerations become more routinely incorporated into global decisions?

Ref: Project Millennium

14. How can scientific and technological breakthroughs be accelerated to improve the human condition?



Green Globe Responsiveness and CERC

Connected Emergency Response Centre

For the SAAI (problem solving), we propose a Connected Emergency Response Centre (CERC).

This will be part of a Green Globe responsiveness (solution finding) to help sites and occupants understand, prepare for, incorporate readiness and mitigate adversity due to climate change.

In our journey to recommend the CERC, we have sent out insights to sites of different natures like residential sites, educational institutions, business sites like apparels & garments industrial units, government sites, banks, parks & gardens etc where responses from the stakeholders are still being consolidated.

Connected Emergency Response Centre

We highlight that our recommendation is simple at the preliminary level but is a macro-and-micro level when being incorporated.

As a gap analysis consultancy, we have been developing solution highlights or details for the macro-and-micro level and have numerous proof of concept websites and associated documents to help innovation, agility, responsiveness and risk reduction.

The preliminary highlight is the addition of an Emergency Response pin code to existing pin codes, LifeScores to sites & occupants where sense & respond systems are deployed to swiftly understand threat/disaster/accelerated risk and thereon respond to save & protect life.

We find that Art and AI/ML can be used in artwork/system design/system operation/system management/system maintenance/system incidence management/system repair/system documentation and even connected emergency response.

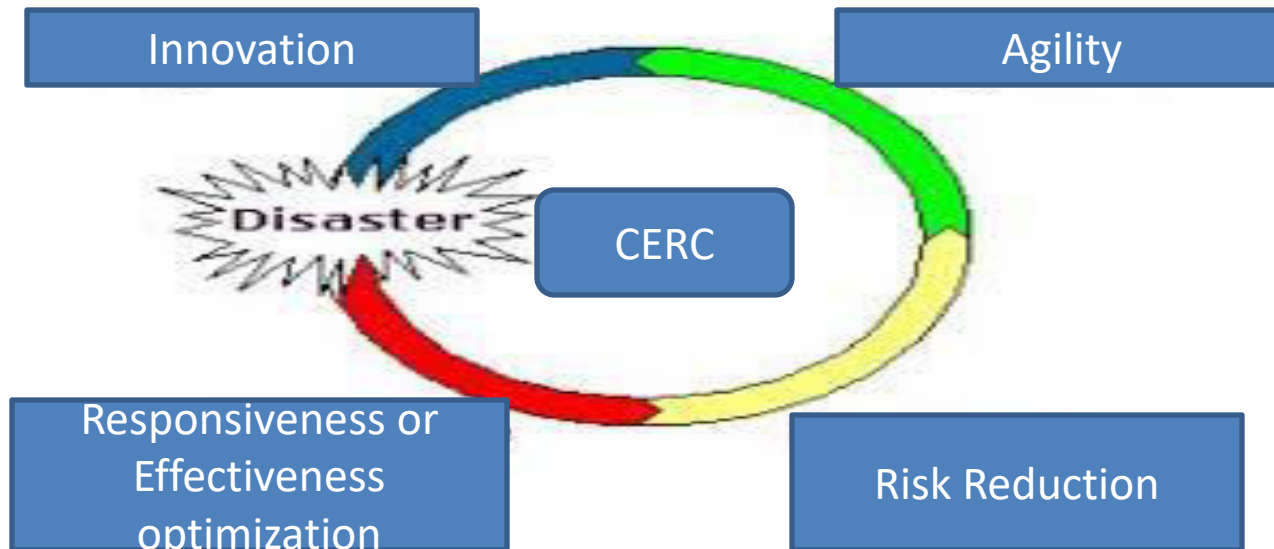
Our work in progress URL www.venkataoec.wixsite.com/futuregenart

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

- **Scope or potential problem solving:**
- We propose the augmenting of regular art, styles or features for a newer CERC-art which helps Emergency Response at a building, facility or site by relating to Visual, Auditory or Tactile senses via an Ability specific LifeScore Accentuated Risk mitigator.
- Today amidst the various features of art/artwork/allied innovations, the newer CERC-art will need to relate to Service Level Agreements (SLA(s)), Operations Level Agreements (OLA(s)), Underpinning Contracts (UC(s)) and LifeScores, which it expects to associate via an Ability specific LifeScore Accentuated Risk mitigator (or ALARM) .
- The Risk mitigator identifies the problem solving or resultant SMART Interaction / Intervention possible through the artwork / art form / allied innovation.

Connected Emergency Response Centre

- The Risk mitigator identifies the problem solving or resultant SMART Interaction / Intervention possible through the artwork / art form / allied innovation.
- The SMART interaction / intervention will require the architect/designer/innovator to accentuate the entity, product (or innovation) so it can help emergency response via Specific SLA(s), Measurable Abilities for Visual/Auditory/Tactile senses, Achievable OLA(s), Relevant UC(s) and Timely status/warnings/alarms.
- 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 draft for the CERC is being completed.

Connected Emergency Response Centre

- **Scope or potential problem solving: We review a CERC- labeling scheme** for this newer CERC-art which helps Emergency Response at a building, facility or site by relating to Visual, Auditory or Tactile senses via an Ability specific LifeScore Accentuated Risk mitigator (in short abbreviated as ALARM).
- The CERC-labeling scheme will 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

- **Scope or potential problem solving: 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.
- The CERC-logo will be a Green Globe responsive hourglass
- **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.**
- The hourglass shows procreation and extent of threat mitigation for Climate Change and its related impact on emergency response in this case.



Connected Emergency Response Centre

- **From the SAAI Factory perspective, the CERC-logo identifies a product for a site's Biocentrism** for 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 **Real time**, **Interactive**, **Process oriented**, **Performance** and **Environment** "Green Globe intelligence, learning and acknowledgment" to a site.
- The product serves 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

- **Scope or potential problem solving:** The new (being proposed) Social Accountability standard for CERC-art will help evaluate or recommend the use of CERC-art in a site and thereon associate this label to the site, where the label will be valid for a period decided by the site's vulnerability and thereon roll forward with periodic evaluation or relevant review.
- The CERC-art will also have a specialized cradle to grave lifecycle as it will need to implement / relate to Service Level Agreements (SLA(s)), Operations Level Agreements (OLA(s)), Underpinning Contracts (UC(s)) and LifeScores, which it expects to associate via an Ability specific LifeScore Accentuated Risk mitigator (or ALARM)
- The CERC-art label will also identify any **Acts/Laws** that it adheres to, its **qualified product information** such as Main objectives, Goals, Associated CERC Report, Use types, CER Causes, Effects & Control measures, 5 step CPM Action Plan, Score as to how best it helps in emergency response. For the decision makers or stakeholders for art and allied innovation, the label will also include **qualified SAAI information** such as type of art/allied innovation, characteristic features, structure, function etc

Connected Emergency Response Centre

- **Scope or potential problem solving for Copyright , Intellectual property or secure art/art forms:**
 - 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.
-
- As the CERC problem solving does expect that the designer/artist/ innovator may vary, that is, the designer/artist/ innovator responding by using AI/ML to make the art / art form/ allied innovation more connected to the site, occupancy or community may not be the creator / conceptual driver, or may not have contacts with the creator / conceptual driver, the CERC showcase will permit the CERC community to edition the art / art forms being versioned/ improved/ customized via Machine learning and Training.



Connected Emergency Response Centre

- The different versions for the art / art form will be viewable from the gallery giving scope for interrelated insights and secure art.
- The gallery and its versioning can be simple or advanced based on qualified SAAI information discussed in this solution finding.
- 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.
- **Scope or potential problem solving in translating text in art/art forms:**
- The need to translate text by a **CERC team of translators** is a potential solution but may need dedicated manpower allotment for this. Today this seems most easy.
- The innovative way is to publish the need to develop a **CERC auto-translator** that requires the art / art form / design / allied innovation having text to be first digitized or scanned. The open source community may be ready to help.

Connected Emergency Response Centre

- The digitized or scanned image could be opened in the **new auto-translator tool** like the snipping tool, where the portion that includes text is selected and then on the creator/designer/innovator deciding on the nature of translation via certain translation-codes like (a) convert from 1 language to another **with no parameterization**, (b) convert from 1 language to another **with design guidelines** and (c) convert from 1 language to another **with integration modeling** to help retain the concise form of the original artwork via (b) and (c).
- The tool could rely on a notes section, where the text to be translated is entered and thereon interpreted & translated, where the output from this section is again put back into the **work in progress portion** from the artwork.
- The work in progress portion could then integrate the translation as per the translation codes. This **translated text portion** could then be inserted into the digitized or scanned image which is then saved for further use / connected versioning.

Connected Emergency Response Centre

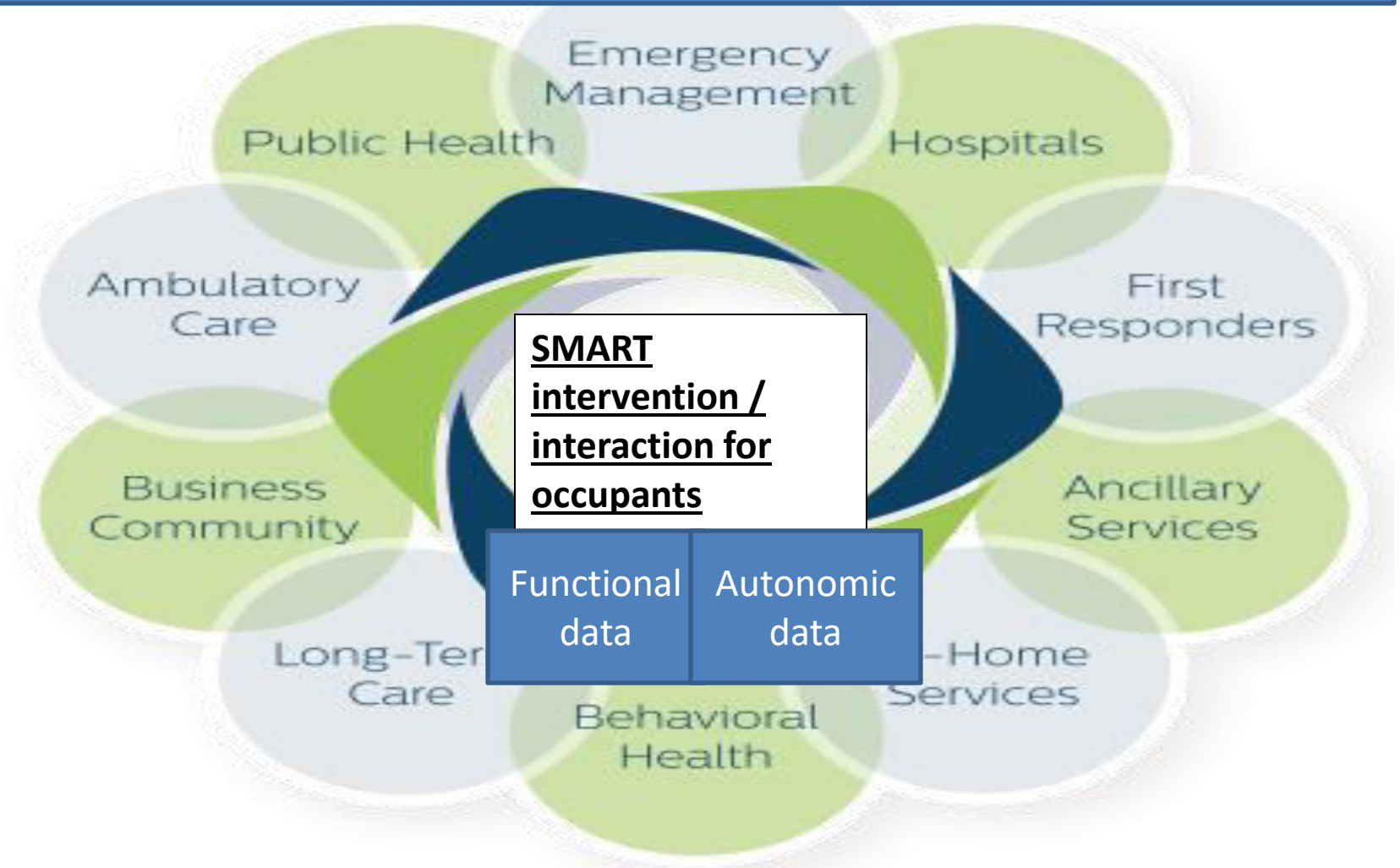
End of AOEC's Pitch



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Connected Emergency Response Centre

Expected usefulness for Connected Emergency Response



Connected Emergency Response Centre

- **Scope or potential problem solving:** As the CERC-art label will identify any **Acts/Laws** that it 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
 10. 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.



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

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

Connected Emergency Response Centre

Scope or problem solving for CERC assistant systems



Simple use of art/art forms in
sense & respond assistants or
advanced use of art/art forms
with Translations/AI/ML

5-step Critical Path
Method to use the
assistants/innovations

Connected Emergency Response Centre

Visual CERC logo/illustration for assistants

ALES assistant



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Bio-hazard assistant



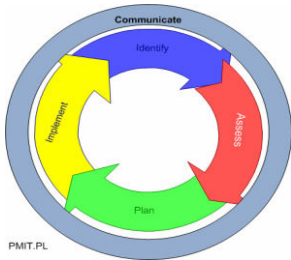
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Companion Card & Badge



www.shutterstock.com · 314586470

Drill/Evacuation assistant



PMIT.PL

Exit assistant



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First aid assistant



Connected Emergency Response Centre

Visual CERC logo/illustration for assistants

Gas line assistant



OHS assistant



FMCEA assistant



Key/Access assistant



Site assistant



Made-to-assist surveillance assistant



Connected Emergency Response Centre

Visual CERC logo/illustration for assistants

Disaster/response assistant



OES Hazard assistant



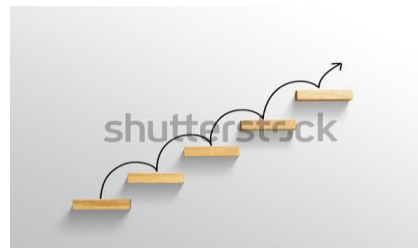
Valuables protection assistant



EmoteCare assistant



Stairway assistant

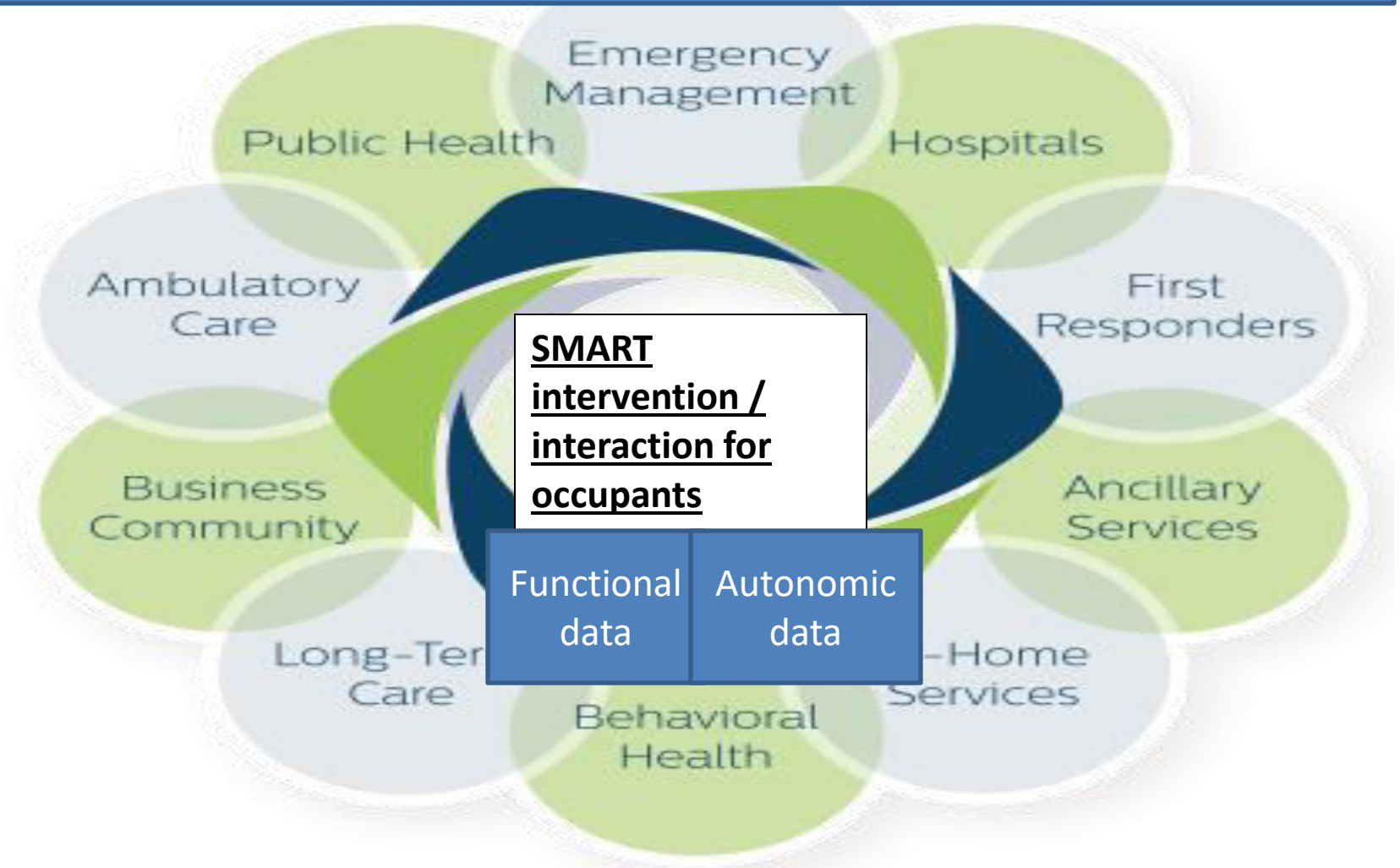


Timely First Aid assistant



Connected Emergency Response Centre

The A-Z Integrated / Ingenuity Portfolio



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

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- b. Reliable and with failsafe or backup systems
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- 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
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- 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...

Connected Emergency Response Centre

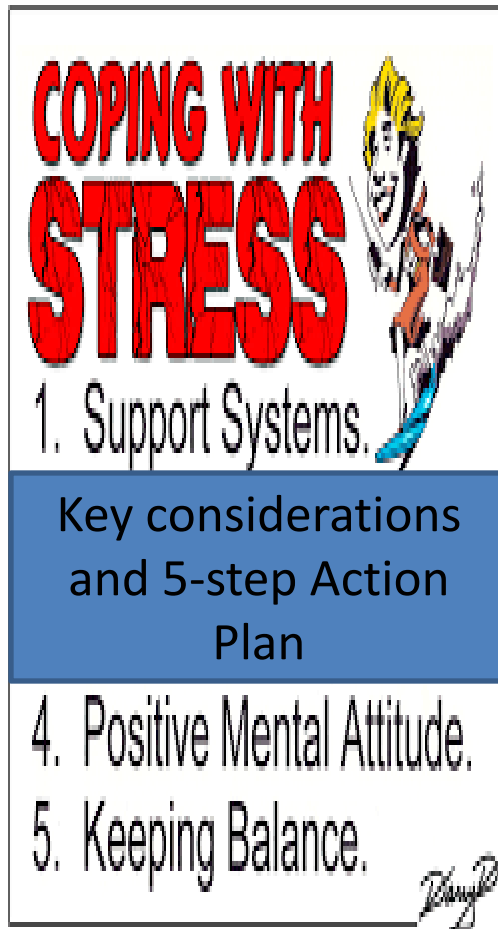
- 1. The **LifeScore codes for occupants or occupant groups from a residence or floor or block, for example their** Physical ability, Mental ability, Acclimatized ability, Liability to respond or mitigate risk, Life changing condition, Life support requirements and the need for Wear-ons.
- 2. The **LifeScore 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, 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

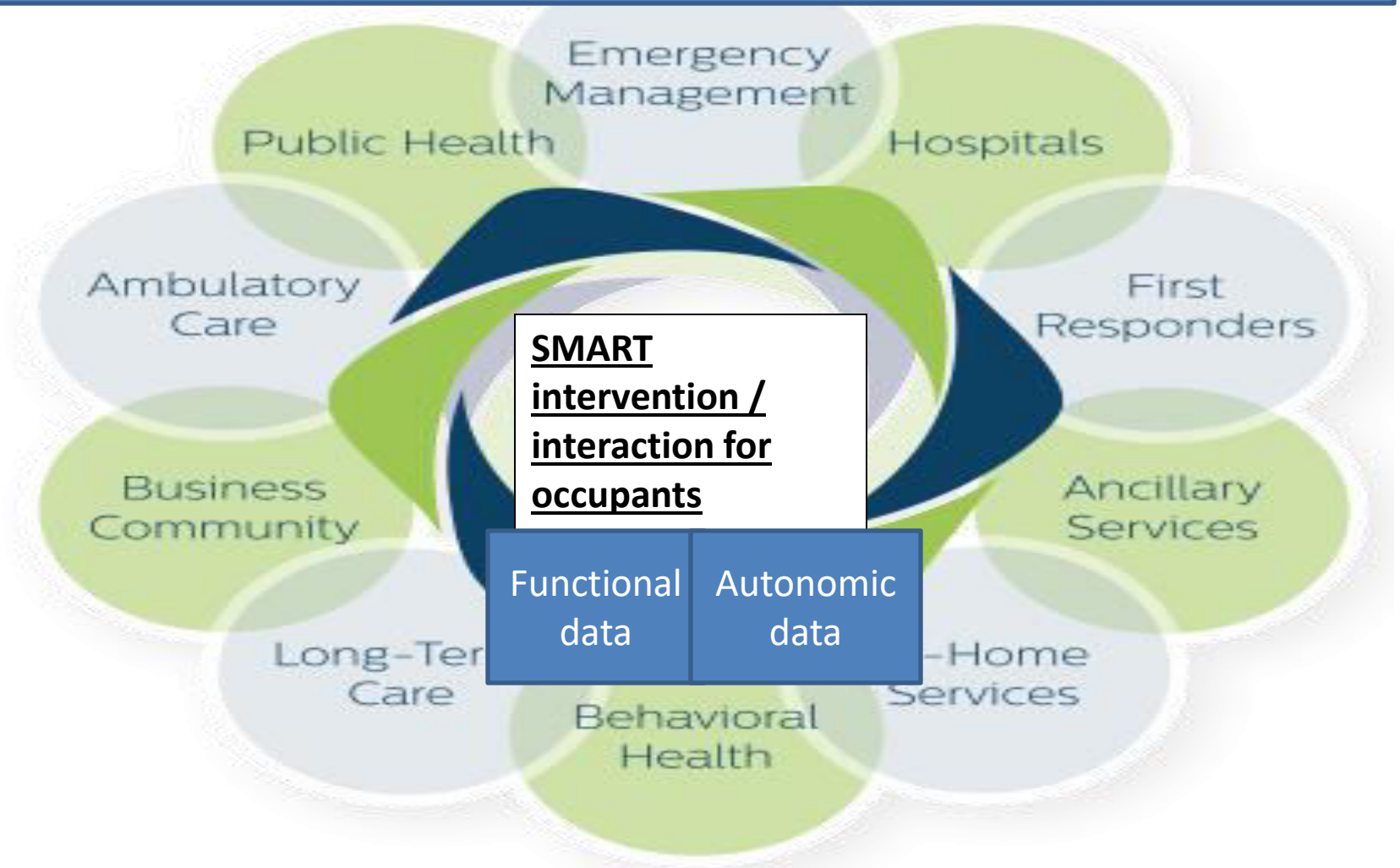
Vital-mindfulness-forum

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

Training for Connected Emergency Response



Training for Connected Emergency Response

- **@@We find:**

- The past 5M(s) and 4(s) framework for End to End
- Operations Management, is fast needing to incorporate
- subsistence and emergence for Climate Change.



Sense unification

- **@@Fundamentally, 5M(s) and subsistence:**

- For the sake of clarity, 5M(s) stand for Manpower, Materials, Machines, Methods and Measurements, where in these times we need to incorporate AI and Machine Learning for CCMA specific Global Field Balancing, Sensitivity & Indicators

- **@@Engineering wise, 4S(s) and emergence:**

- For the sake of clarity, 4S(s) stand for Structure, Strategy, Standards, Science, where in these times the Strategy needs to incorporate Sense-unification for CCMA with Self-Incorporation and Social accountability

Training for Connected Emergency Response

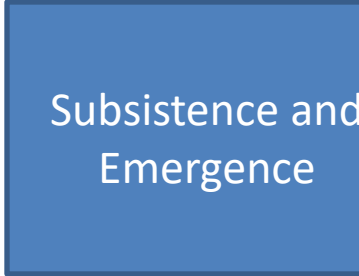
- The solution designs a Facilitator platform for
- “sites” to incorporate Sense and Respond systems for
- CCMA, where CER, Artificial Intelligence & Machine Learning
- work with elements of Operating Climate Engineering
- and Electronic Connects to setup a 2-way macro & micro level solution

Subsistence and
Emergence

- The 2-way macro & micro level solution using
- **STRIDE Cloud-indicators** will focus on
- Challenge 1: Connected Emergency Response Centres (CERC)
- Challenge 2: CERC and Seamless Care
- Challenge 3: Social Accountability Standard for CERC
- Challenge 4: CERC and Virtual Endpoint Management

CERC Sensitivity, Stake-
holding and Training
based on STRIDE:
Situation,
Trends,
Relevance,
Impact,
Deterioration,
(Operating Climate)
Engineering

Training for Connected Emergency Response

- The Solution finding for Connected Emergency Response is
 - Important for our subsistence and emergence. We expect to
 - help deploy Connected Emergency Response via our new
 - Connected Emergency Response Centres (CERC).
- 
- Subsistence and Emergence
- To incorporate Connected Emergency Response, we find that there is some training that will be needed for deploying CERC departments at sites.
 - We call this a STRIDE training programme, that will be based on the Connected Emergency Response (CER) Sensitivity and Stake- holding important for the site.
 - The STRIDE training programme is a People skills part of **our vision of Taking into our STRIDE issues that will or can affect life**, where S stands for: Situation, T stands for Trends, **R stands for Reverence**, I stands for Impact, D stands for Deterioration and E stands for (Operating Climate) Engineering.

Training for Connected Emergency Response

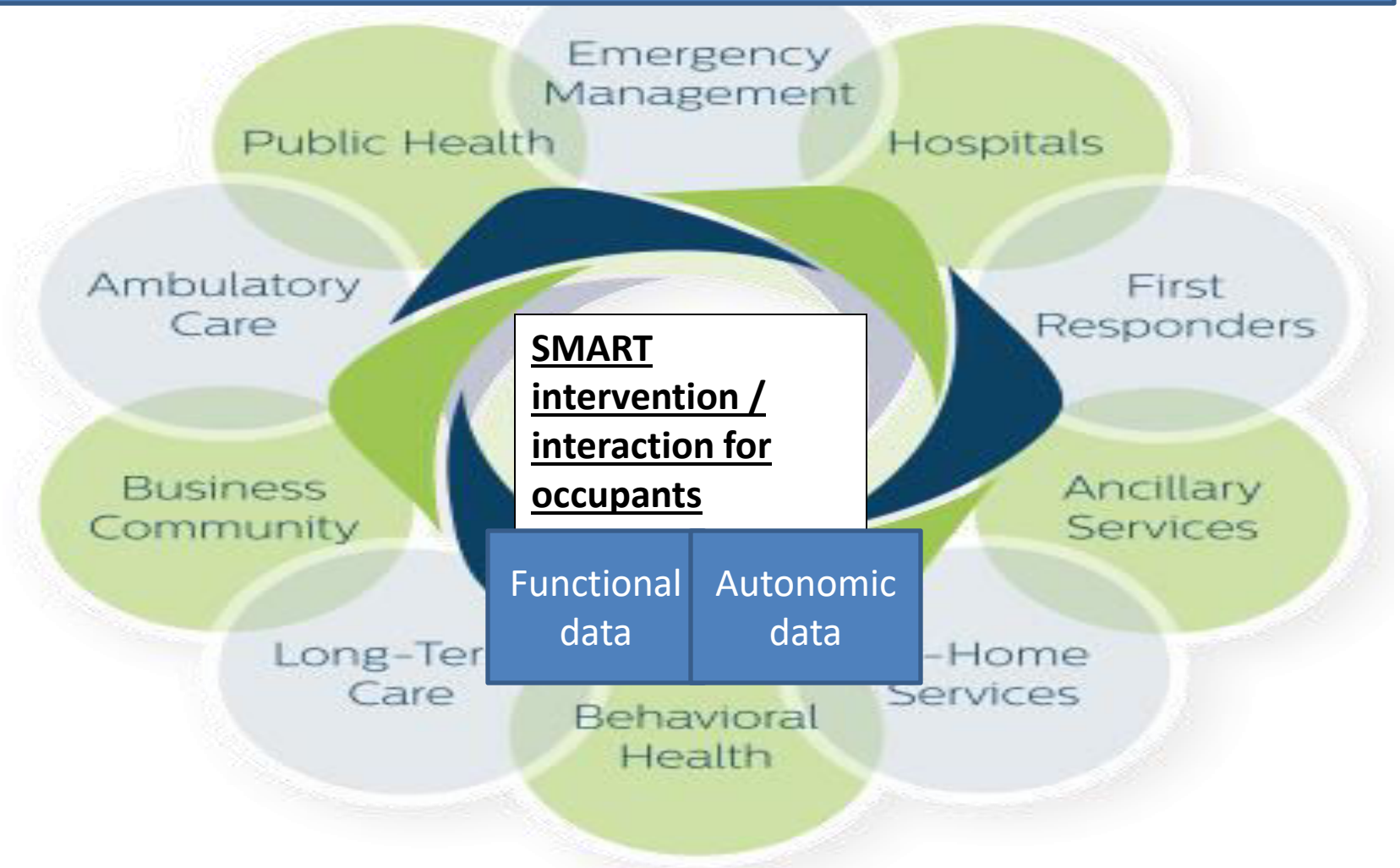
- A STRIDE training programme will help people / occupants
- design an Emergency Response pincode for their site, define
- LifeScore Abilities for their site/buildings/blocks/occupants.
- The STRIDE training programme will help people / occupants
- address emergency response in a connected manner.
- The STRIDE training programme will design Continuous
- Improvement and Trust levels based on CERC Activation,
- Vital mindfulness and a Strategy for Improving preparation and/or
- sensitization via Artificial Intelligence /Machine Learning.
- The STRIDE training programme will help plan for a “**LifeScore based pack**” that can help occupants at the time of an emergency response, the programme will also help describe the “**Action plan / Critical path guide**” to be followed during an emergency response and connect bio-clusters of people together via a “**Being Seamless Forum**” that can empower or develop more interest and support for Sense and Respond systems for a connected emergency response that aligns with abilities of bio-clusters of people in disasters, risks and adverse environments.

Subsistence and
Emergence



Connected Emergency Response Centre

Case study



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

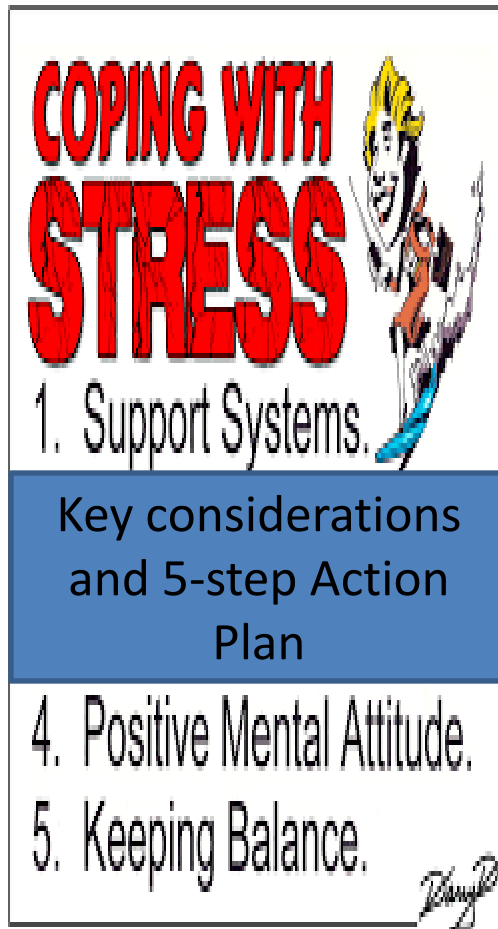
- 1. The **LifeScore codes for occupants or occupant groups from a residence or floor or block, for example their** Physical ability, Mental ability, Acclimatized ability, Liability to respond or mitigate risk, Life changing condition, Life support requirements and the need for Wear-ons.
- 2. The **LifeScore 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**



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

**Connected 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

CERC art/art work/ allied innovation for Connected Emergency Response

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

Connected Emergency Response Centre

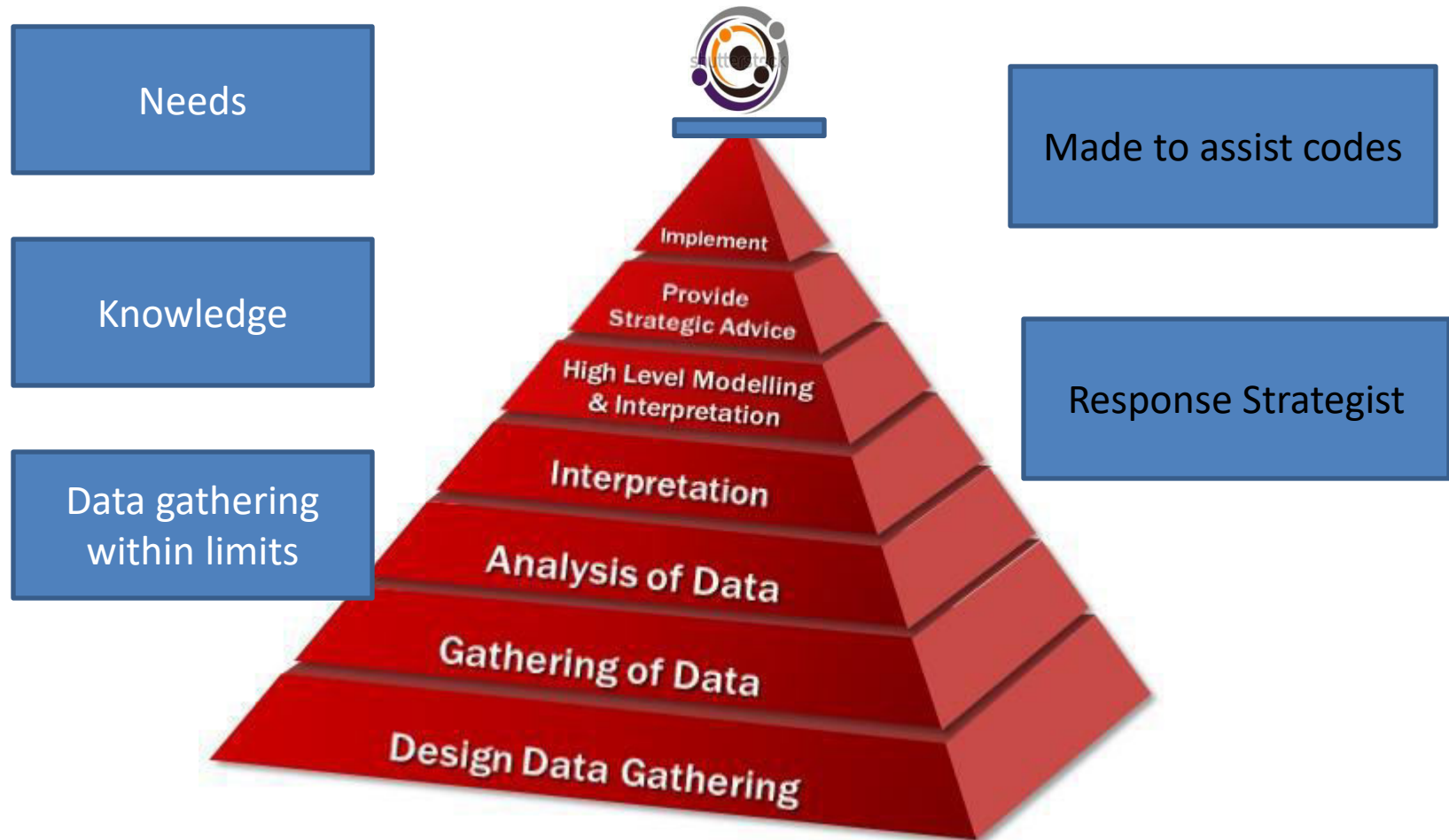
As part of integrated / independent Operations Level Agreements

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



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

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 (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

As part of integrated / independent Operations Level Agreements

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

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

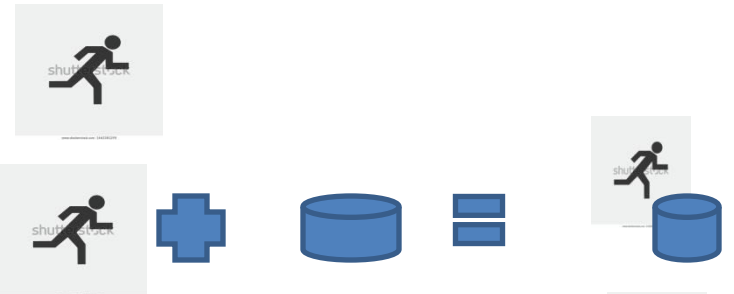
By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the visual illustration deployed will be accentuated to include

1. Pre-requisites actualized

[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 Thinking expected Made to assist code for the Emergency exit / exit assistant will TE _____

2. Thinking expected 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

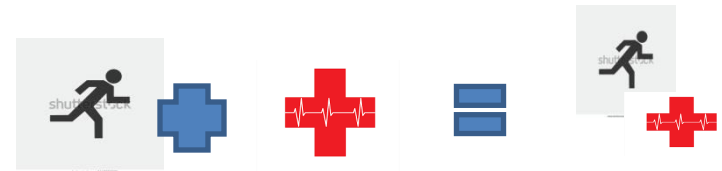
Connected Emergency Response Centre

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 visual illustration deployed will be accentuated to include

2. Thinking expected

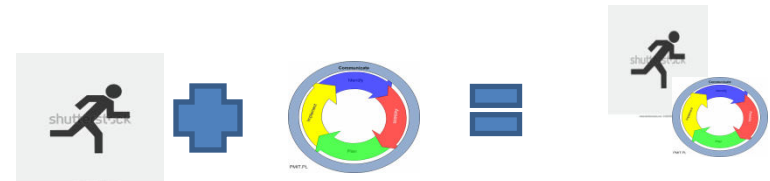
[a] LifeScore Sensitized thinking expected



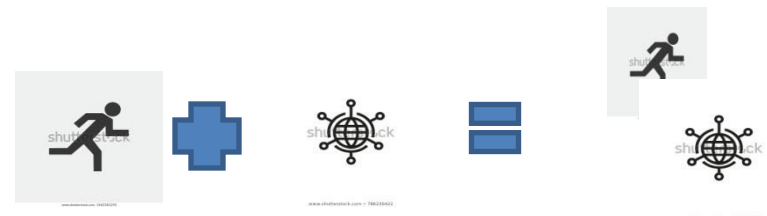
[b] Remedial thinking expected



[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 Application Made to assist code for the Emergency exit / exit assistant will A _____

3. Application 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 vital mindfulness forum will include details for

3. Application

[a] Preparedness



[b] Mitigation



[c] Response



[d] Recovery



[e] CERC



Connected Emergency Response Centre



Vital-mindfulness-
forum

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 vital mindfulness forum will include details for

4. Machine Learning for the accentuation

[a] Creative Adversial Network solutions



[b] Generative Adversial Network solutions



[c] Convolutional Network solutions



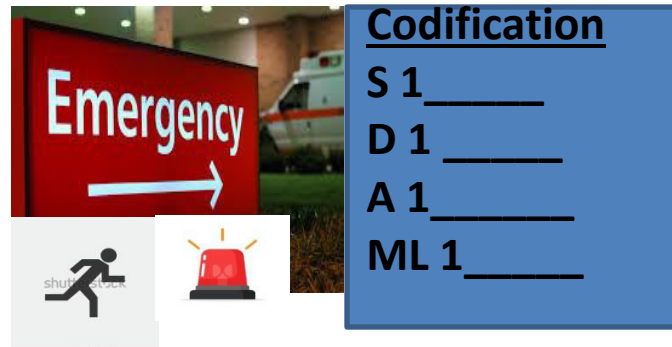
[d] Future CERC solutions



Connected Emergency Response Centre

Audio feedback CERC logo/illustration for assistant

Exit assistant



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 audio feedback deployed 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)

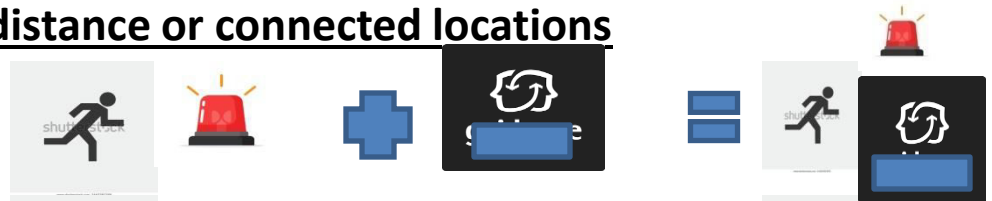
Connected Emergency Response Centre

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

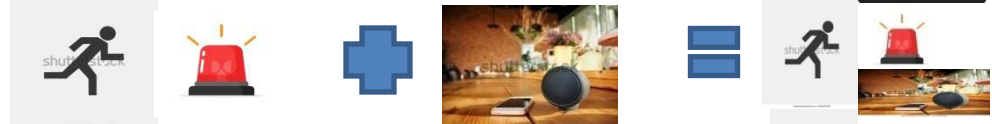
By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the audio feedback deployed will be accentuated to include

1. Pre-requisites like reasonable distance or connected locations

[a] Sounded off at the assistant/assistant-innovation



[b] Sounded off at required places via Blue tooth



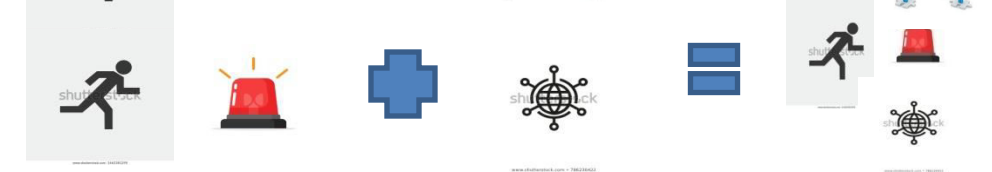
[c] Sounded off at required places via Wifi



[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



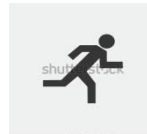
The running man illustration will have associated accentuated illustrations that occupants will need to be instructed about. The meaning for this audio feedback accentuation for the exit is that it has a siren, it has audio playback that can be reviewed as possible, it has sound systems sounding off 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 Application Made to assist code for the Emergency exit / exit assistant will A _____

3. Application 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 vital mindfulness forum will include details for

3. Application

[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 vital mindfulness forum will include details for

4. Machine Learning for the accentuation

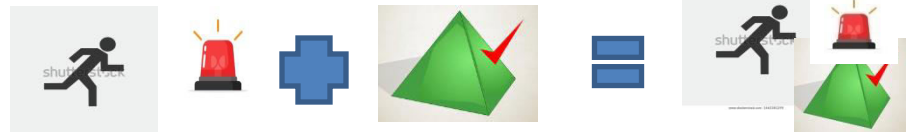
[a] Creative Adversial Network solutions



[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



The image shows a red emergency exit sign with the word 'Emergency' in white and a white arrow pointing right. Below the sign are two icons: a black silhouette of a person running and a circular logo with orange and purple elements. The background of the sign shows a white ambulance.

<u>Codification</u>	
T 1	_____
P 1	_____
D 1	_____
A 1	_____
ML 1	_____

The initial step is to codify the Tactile feedback

Connected Emergency Response Centre

As part of Social Accountability and problem solving

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.

The Emergency Exit / Exit assistant will need to include cues/audio feedback for

T 1 _____
F 1 _____
D 1 _____
A 1 _____
ML 1 _____



Connected Emergency Response Centre

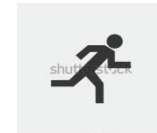
Solution finding via a Response-strategist / Made-to-assist-codes

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

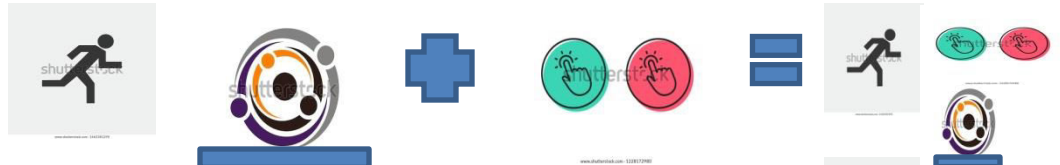
By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the touch feedback deployed will be accentuated to include

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

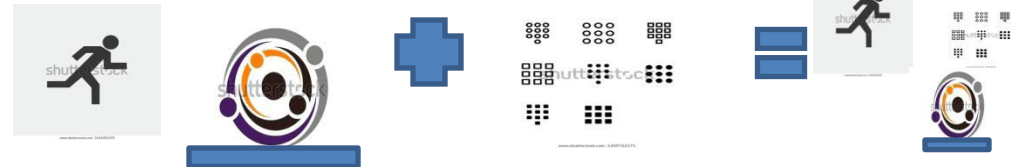
[a] Realistic Touch enabled feedback



[b] Accidental Touch enabled feedback (instantaneous response)



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



Connected Emergency Response Centre

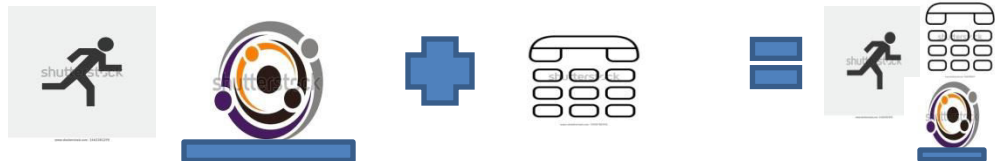
Solution finding via a Response-strategist / Made-to-assist-codes

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

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

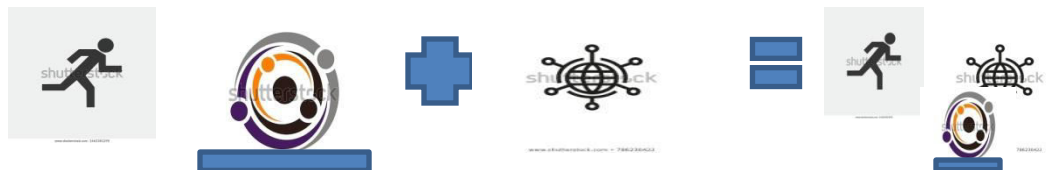
[d] Identity-Scanned Touch

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

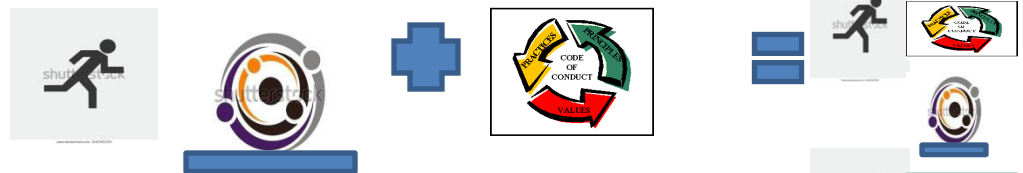
[a] Feedback to CERC



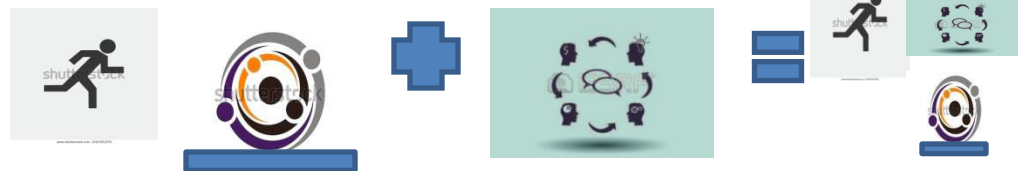
[b] Feedback to CERC members



[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)

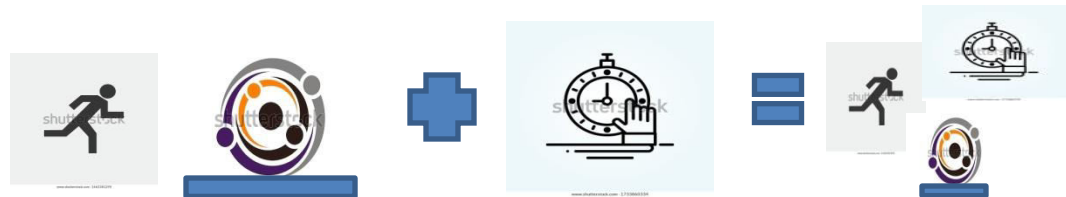
Connected Emergency Response Centre

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

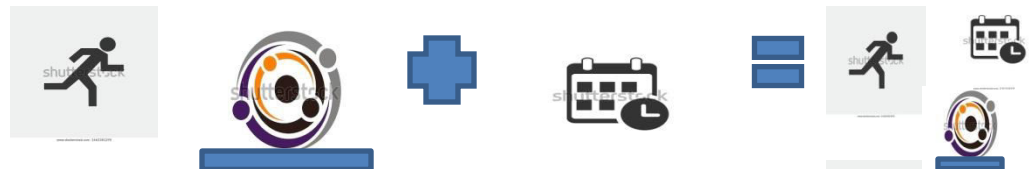
By needing to address LifeScore related problem solving and 24/7 expectations or experiences, the touch feedback deployed will be accentuated to include

1. Pre-requisites like right duration for sense & respond action planning

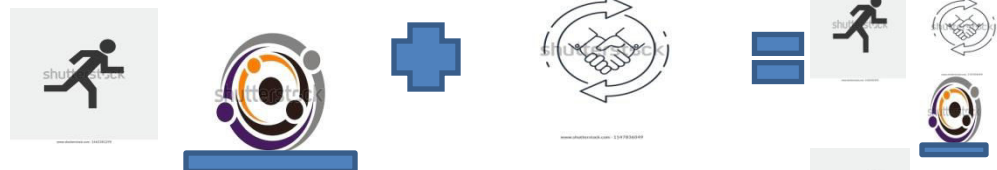
[a] Short Term



[b] Long Term



[c] Till Acknowledged

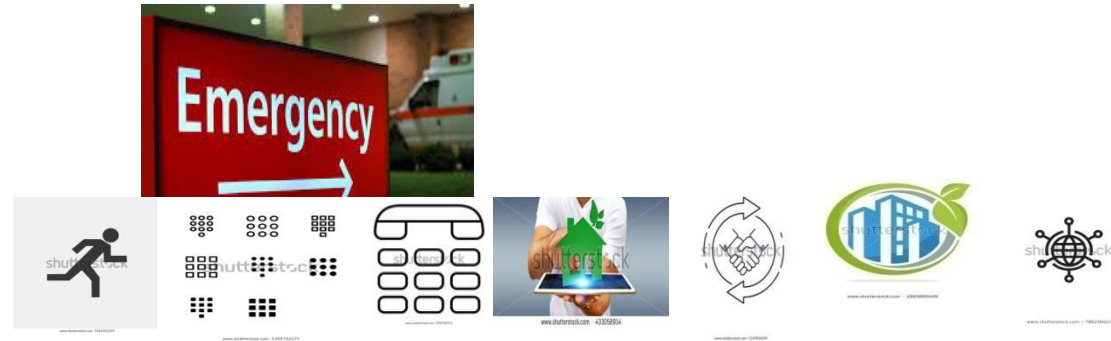


[d] Till Response



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 Application Made to assist code for the Emergency exit / exit assistant will A _____

4. Application 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 vital mindfulness forum will include details for

3. Application

[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_____

5. 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 vital mindfulness forum will include details for

4. Machine Learning 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

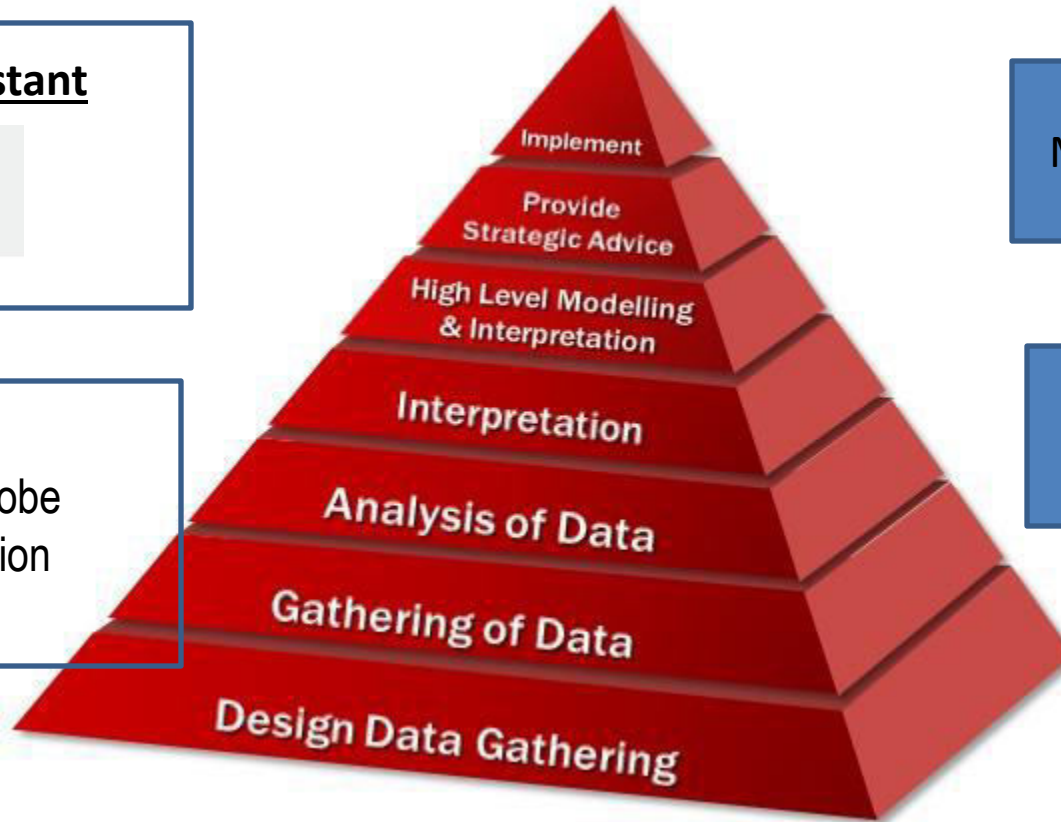
Exit assistant



Made to assist codes

Response Strategist

Green Globe
Codification



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.



- 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.

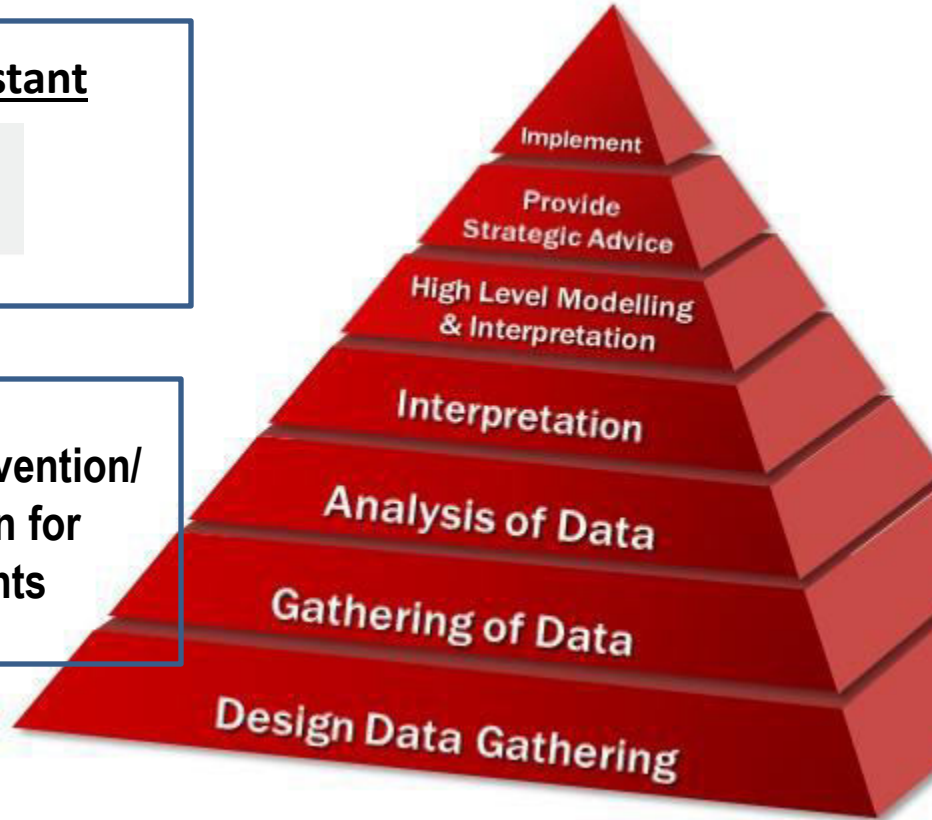
Connected Emergency Response Centre

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

Exit assistant



**SMART intervention/
interaction for
occupants**



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 response.**
- (c) The exit assistant will **design solutions to help first responders 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.
- (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.**

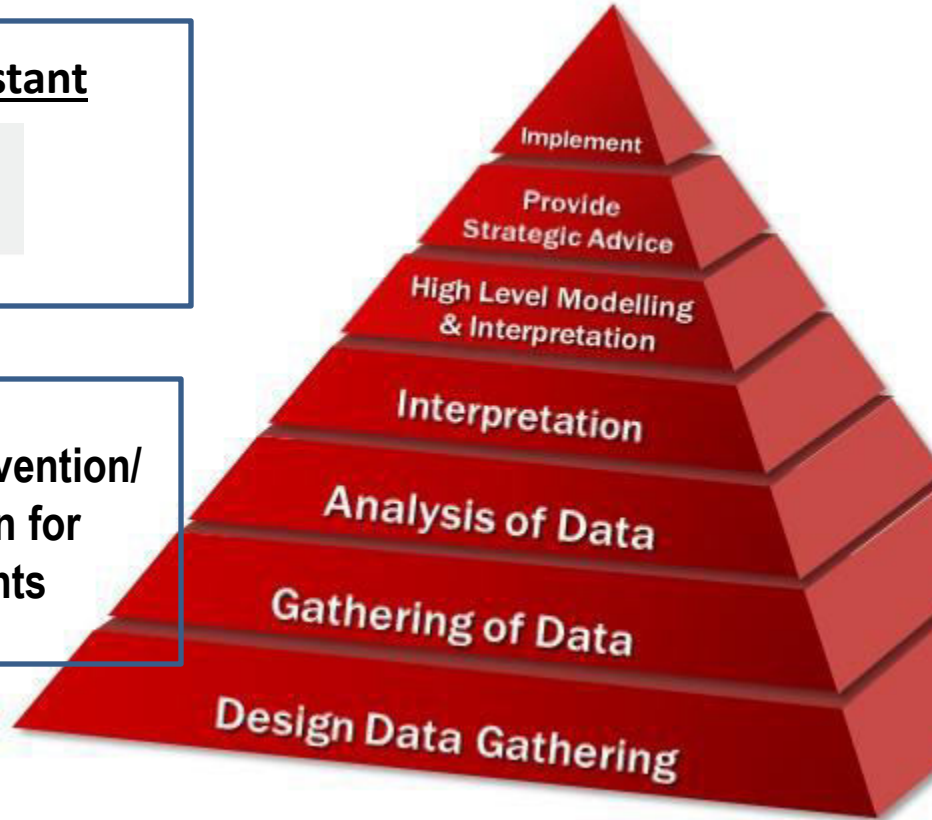
Connected Emergency Response Centre

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

Exit assistant



**SMART intervention/
interaction for
occupants**



Emergency
Management

Behavioral Health

Public Health

First Responders

Ambulatory Care

Strategy for Artificial Intelligence /Machine Learning

Connected Emergency Response Centre

Strategy for Artificial Intelligence /Machine Learning

- 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** for 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 **Real time, Interactive, Process oriented, Performance and Environment** "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 **Real time, Interactive, Process oriented, Performance and Environment** “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

Strategy for Artificial Intelligence /Machine Learning

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

Train the Sense & Respond experience based on the Real Time Score for

[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 factors 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 factors 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 **Performance factors 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 **Environment factors 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



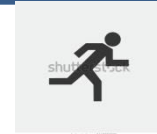
Ambulatory Care



**Sense & Respond
influencers**

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.

Connected Emergency Response Centre

Machine Learning for the Bio-centrism for Connected Emergency Response



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

[b] Generative Adversarial 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**

Connected Emergency Response Centre



Machine Learning for the Bio-centrism for Connected Emergency Response

Work in progress....

