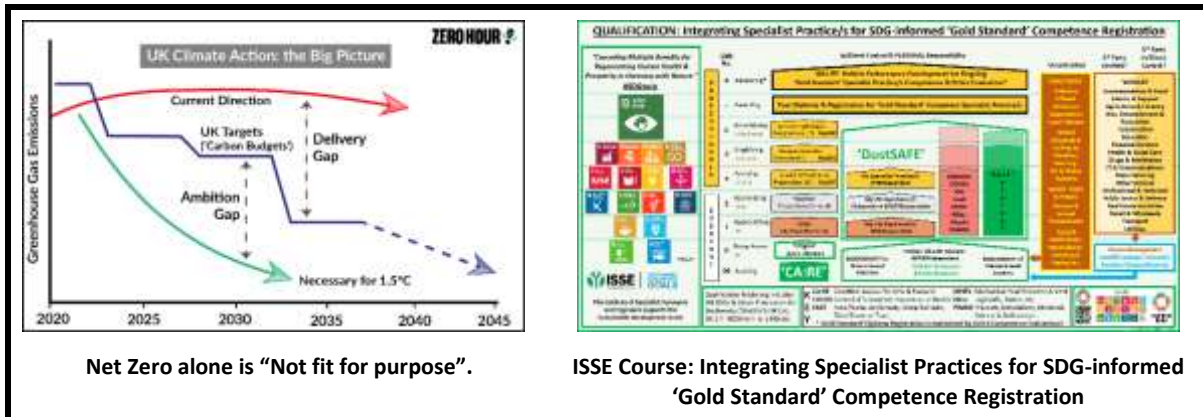


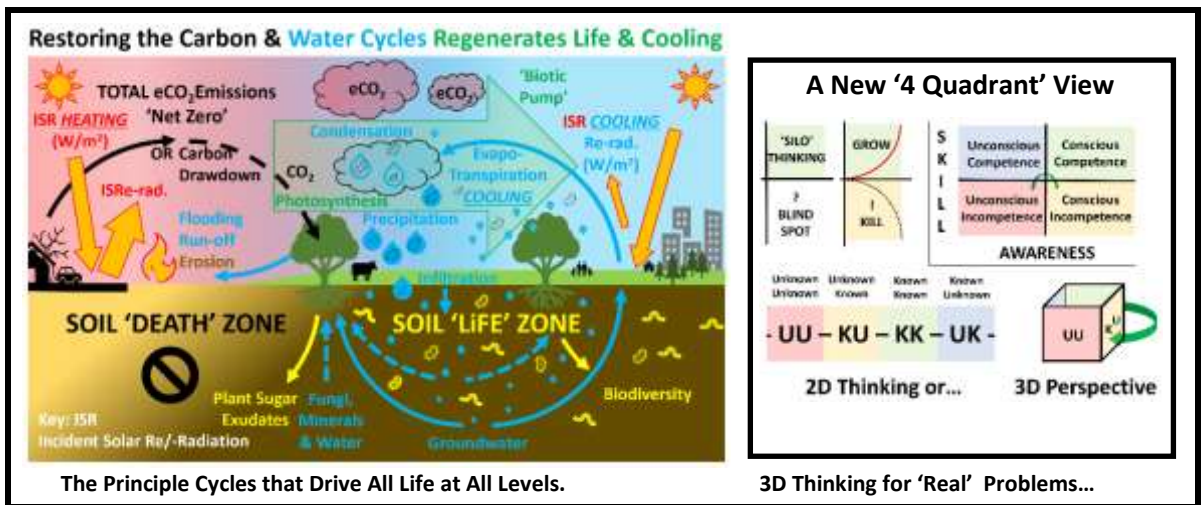
# ISSE Case Study

## Cascading Multiple Benefits for Regenerating Human Health & Prosperity in Harmony with Nature.

ISSE has 'real'-ised its contribution to developing a 'Gold Standard' approach with a new qualification **'Integrating Specialist Practices for SDG-informed 'Gold Standard' Competence Registration'**, given the convergence of Climate and Biodiversity, Social, Economic, Environment, Energy and multiple Health crises; the Hackitt enquiry and Building Safety Act. 'Silo' Net Zero approaches fail to bridge the 'Delivery Gap' (below). Integrated holistic thinking, personal change AND action are needed NOW.



Re-evaluating the issues from first principles identifies Carbon AND Water Cycle restoration as the MOST viable and scalable way to restore and integrate soil health for regenerating people and planet health and maximise climate cooling - implementable alongside Net Zero commitments immediately.



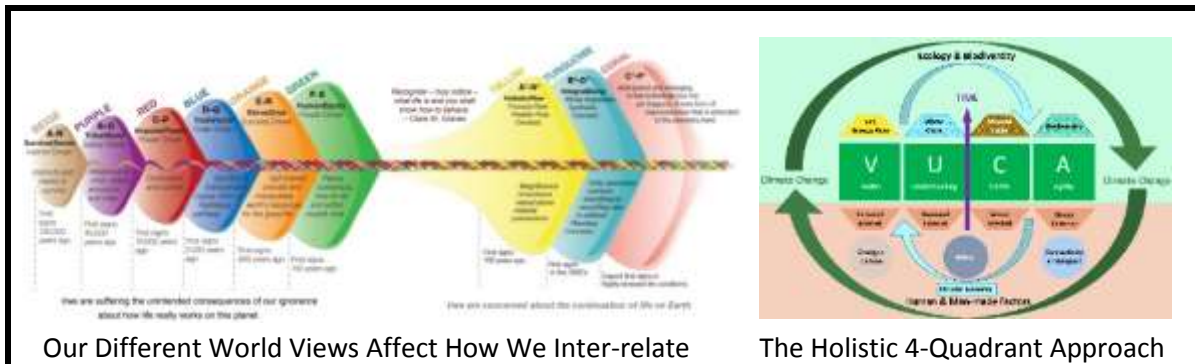
A gap analysis and prevention approach to building/situation pathology and root cause analysis, highlighted the need for ISSE to obtain specialist external advice. ISSE is now building its knowledge through multiple collaborations with stakeholders in technology, natural and medical sciences for Natural Security, Intrinsic Integration, Holistic Management and Ecological Outcome Verification.

A Carbon Net Zero (carbon 'up')-only approach cannot be considered fit for purpose, yet Nature-based Solutions (NbS) are used to address unabated emissions excesses. **"The climate crisis is primarily a water crisis"** (UN). The Carbon and Water Cycles are deeply intertwined and provide the backbone for all life on Earth. Prevailing 'silo' thinking approaches prevent their fullest consideration

as an integral part of the solution to address the broadest underlying concerns about the health of humanity and the health of the ecosystem on which it relies.

In these circumstances, ISSE has created a ground-breaking suite of tools to accelerate scalable change. These support:

- 1) Recognition of the foundational importance of mutual Human and Planet Health
- 2) The need for personal change readiness as a precursor to adapting Specialist Practices
- 3) Managing 'wicked' (complex) problems, using the 4Quadrant and 4D 'LiFEtube™' models
- 4) A new 'language' and methodology for sharing, teaching and communicating complexity
- 5) Integration with UN SDG and 'BioDGs'; ESG & UK Environmental Improvement Plan Goals



### A holistic SDG & 'Gold Standard' approach to DustSAFE working for better health indoors & outdoors

The breakdown of matter into its smallest constituent parts for re-use is essential to Nature's success. This mechanism is also the reason for the global ever-presence of multiple dust, fibre and ground gas contaminants, microplastics and so-called forever chemical pollution outside and inside buildings, within people's living and working (process and site) environments. The concentration and mix of indoor pollutants can be worse for human health than outdoor pollution, and reduced airflows amplify the toxic effects of everyday tasks such as cooking, bathing, cleaning and even DIY – placing an unequal health burden on women and children, globally. This also limits their education and progress.

Pollution, condensation and other air quality-associated health issues can all be addressed most effectively by combining PassivHaus principles with HEPA-filtered Mechanical Heat Recovery and Ventilation (MHRV) systems. Properly designed, these can do much to improve people's health, energy use and savings; preventing death and Health Services overload.

### Conclusion: A 'poly-crisis' needs a 'poly-solution'

The ISSE recognises that meeting its own PI responsibilities, and the needs of other stake-holders and civil society, necessitates beyond incremental 'status quo' thinking - with a continuous process that is both better informed, brave and bold. In construction this will address multiple issues surrounding Trade Association Manufacturer, accreditations and qualifications; the race-to-the-bottom, lowest price mindset; unsuitable product usage, and inappropriate guarantee and warranty schemes.

De-toxifying agricultural soils can be the foundation of in/direct action to achieve climate-friendly cascading multiple benefits for regenerating human health and prosperity in harmony with Nature.

ISSE looks forward to full collaboration with other PIs to achieve the above.