



The World Climate Research Programme (WCRP)

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WCRP
World Climate
Research Programme

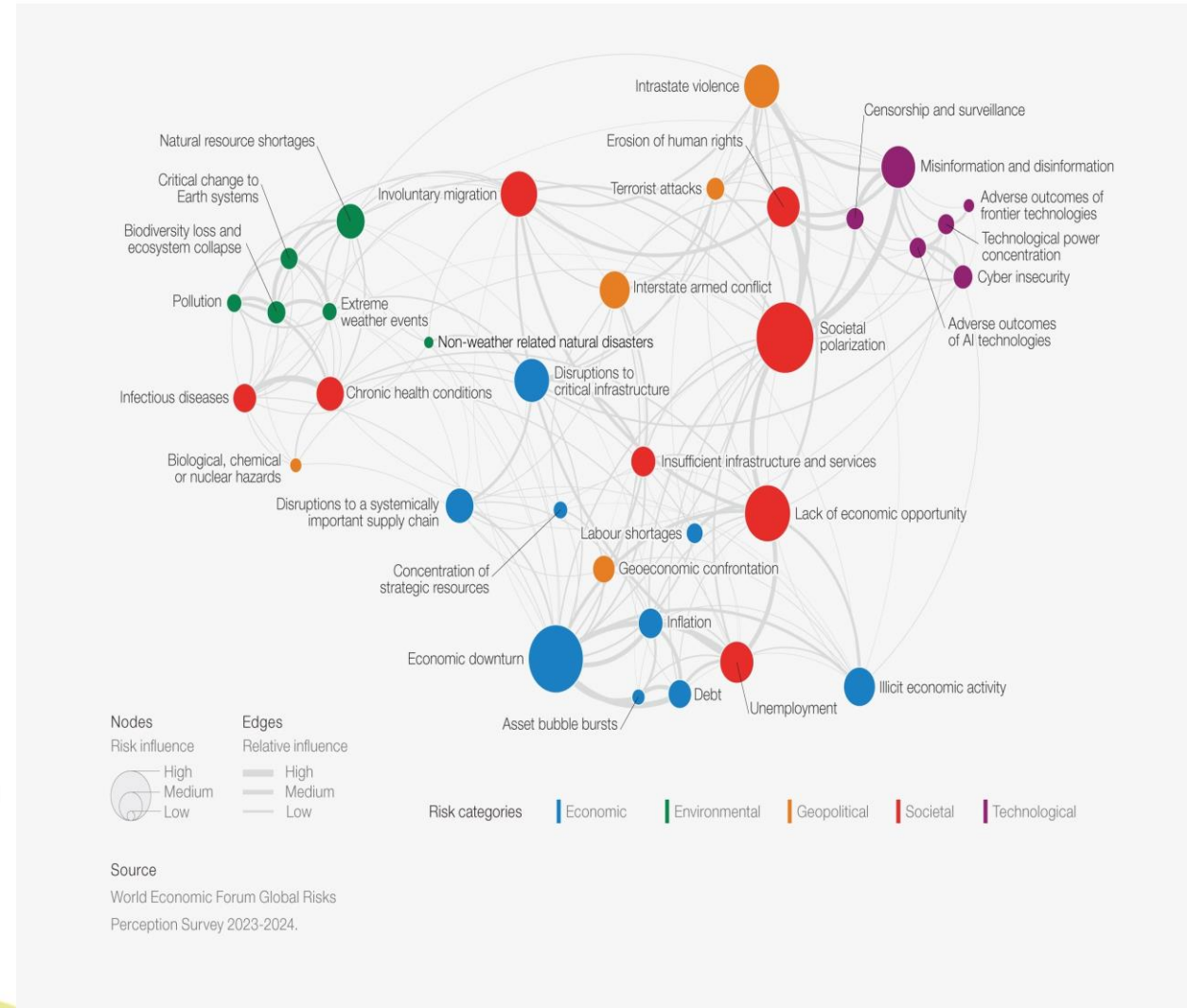


Climate Change and Risk

- Anthropogenic climate change – even 1.5 C warming - brings significant challenges and risks that affect almost all aspects of life
- Droughts, heavy rain and flooding, heatwaves, extreme fire weather, loss of mountainous water storage, and coastal inundation.
- These are just some examples of what is already occurring and where amplified risks and impacts in the future will threaten millions of people around the world.

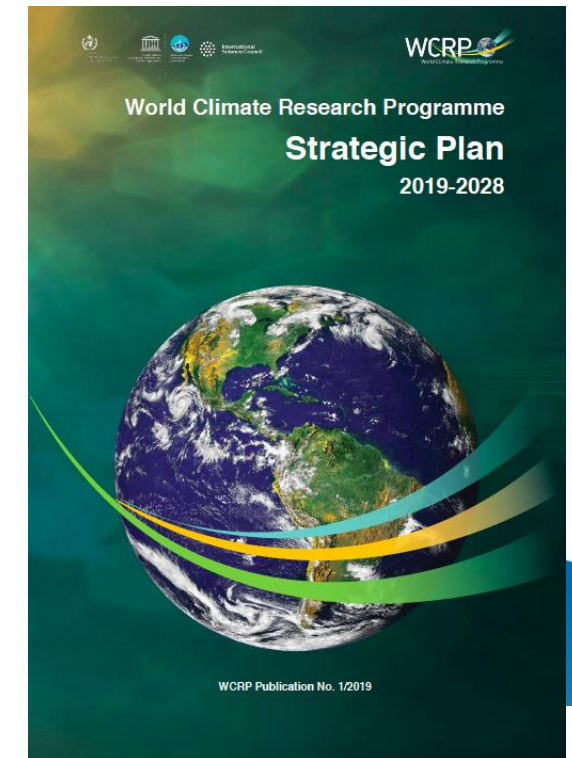
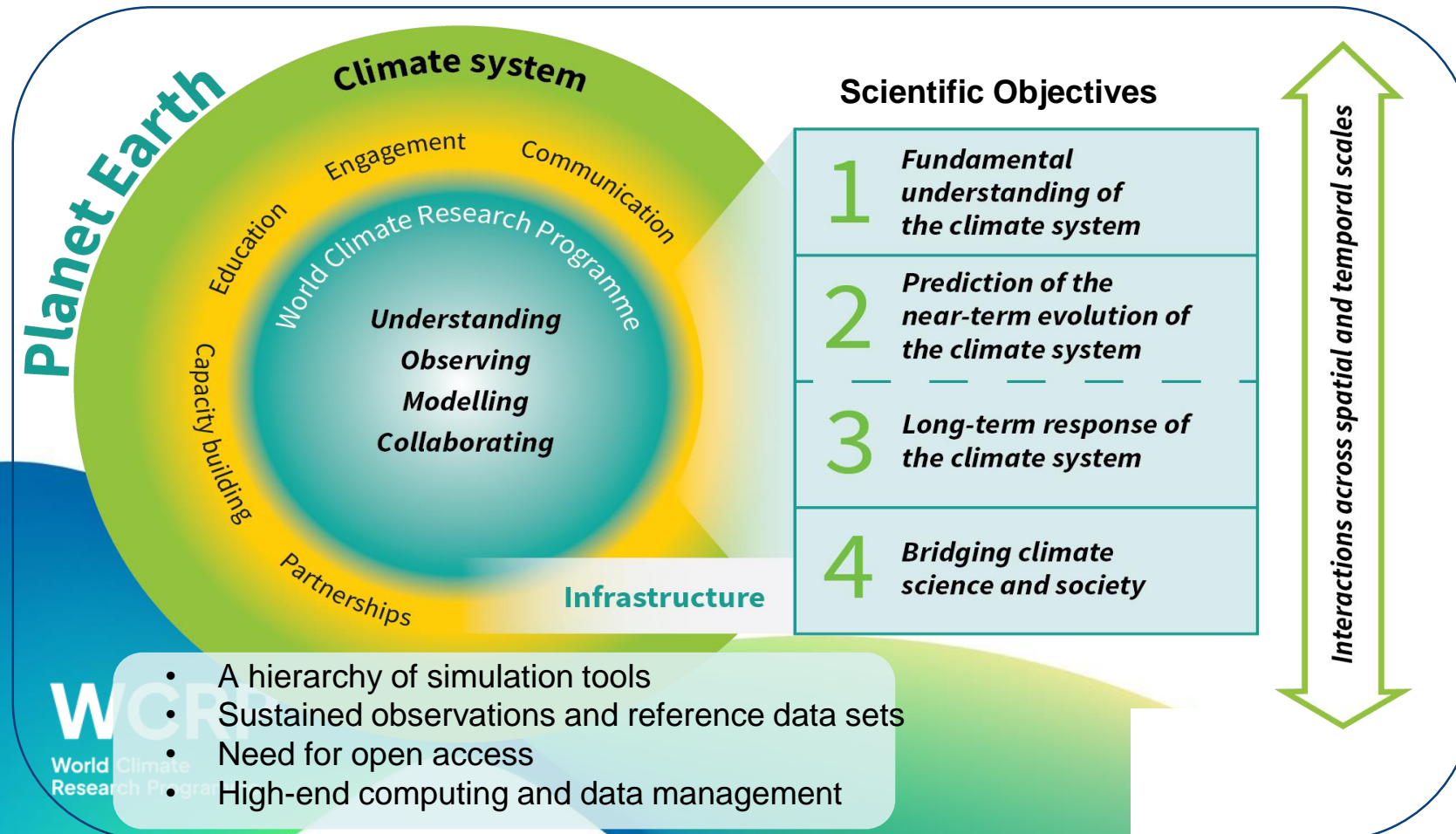
Global Risk Report 2024

Global risks landscape: an interconnections map

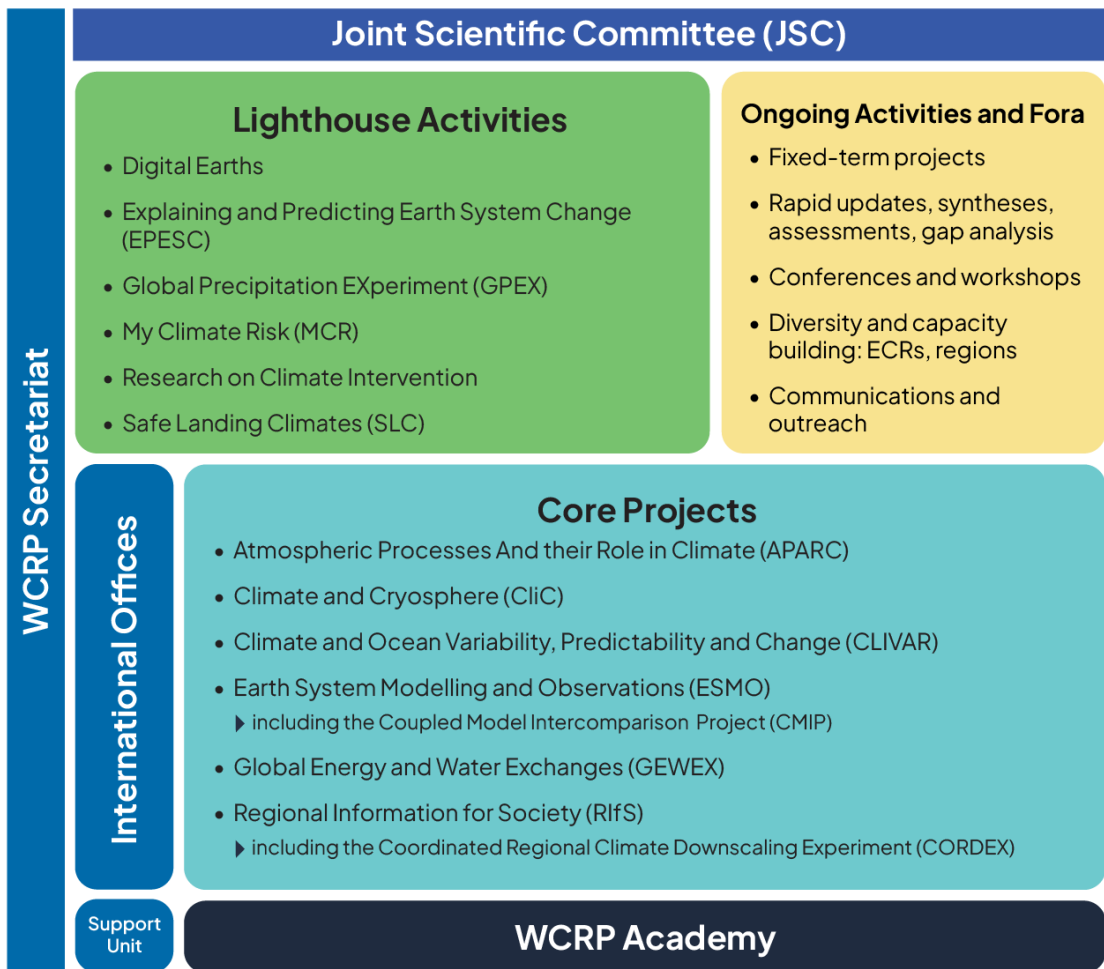


A new WCRP Strategic Plan for this decade

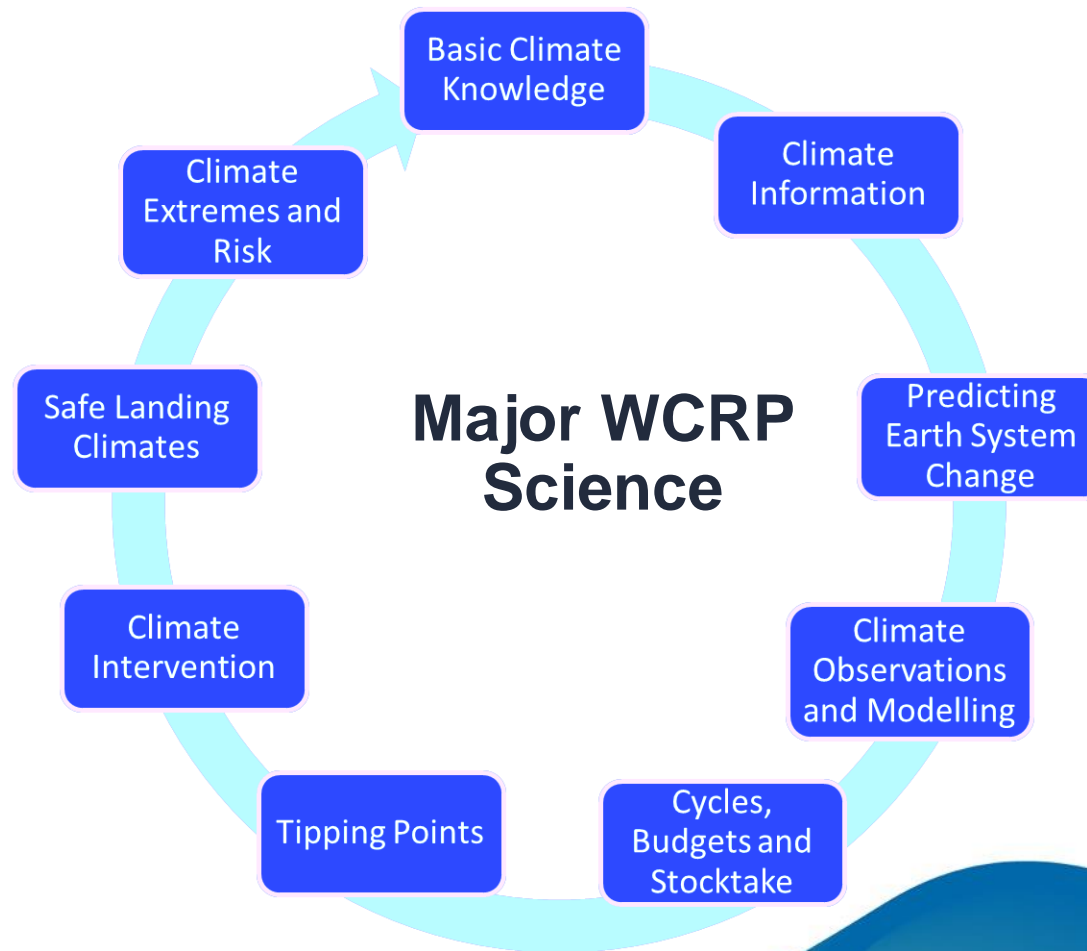
WCRP's Mission (Purpose) is to coordinate and facilitate international climate research to develop, share and apply the climate knowledge that contributes to societal well-being



WCRP Organizational Structure



www.wcrp-climate.org



New frameworks for assessing and explaining climate risk so that climate information is meaningful locally.

My Climate Risk

Explaining and Predicting Earth System Change

An integrated capability for observing, explaining and providing early warnings of Earth System Change - multi-annual to decadal timescales.

Digital Earths

Digital, dynamic representation of the Earth system, blending models and observations.

GPEX

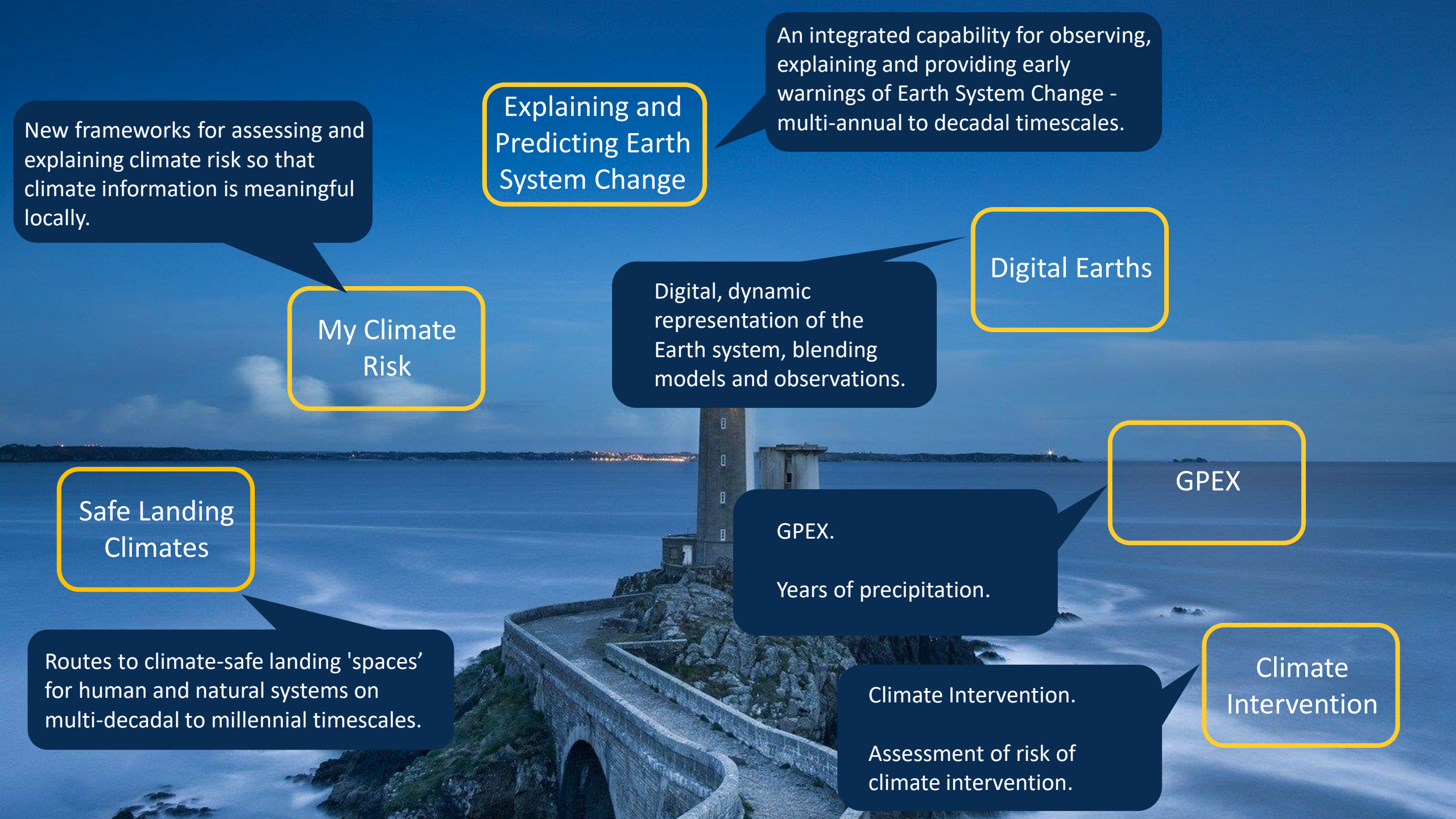
GPEX.
Years of precipitation.

Safe Landing Climates

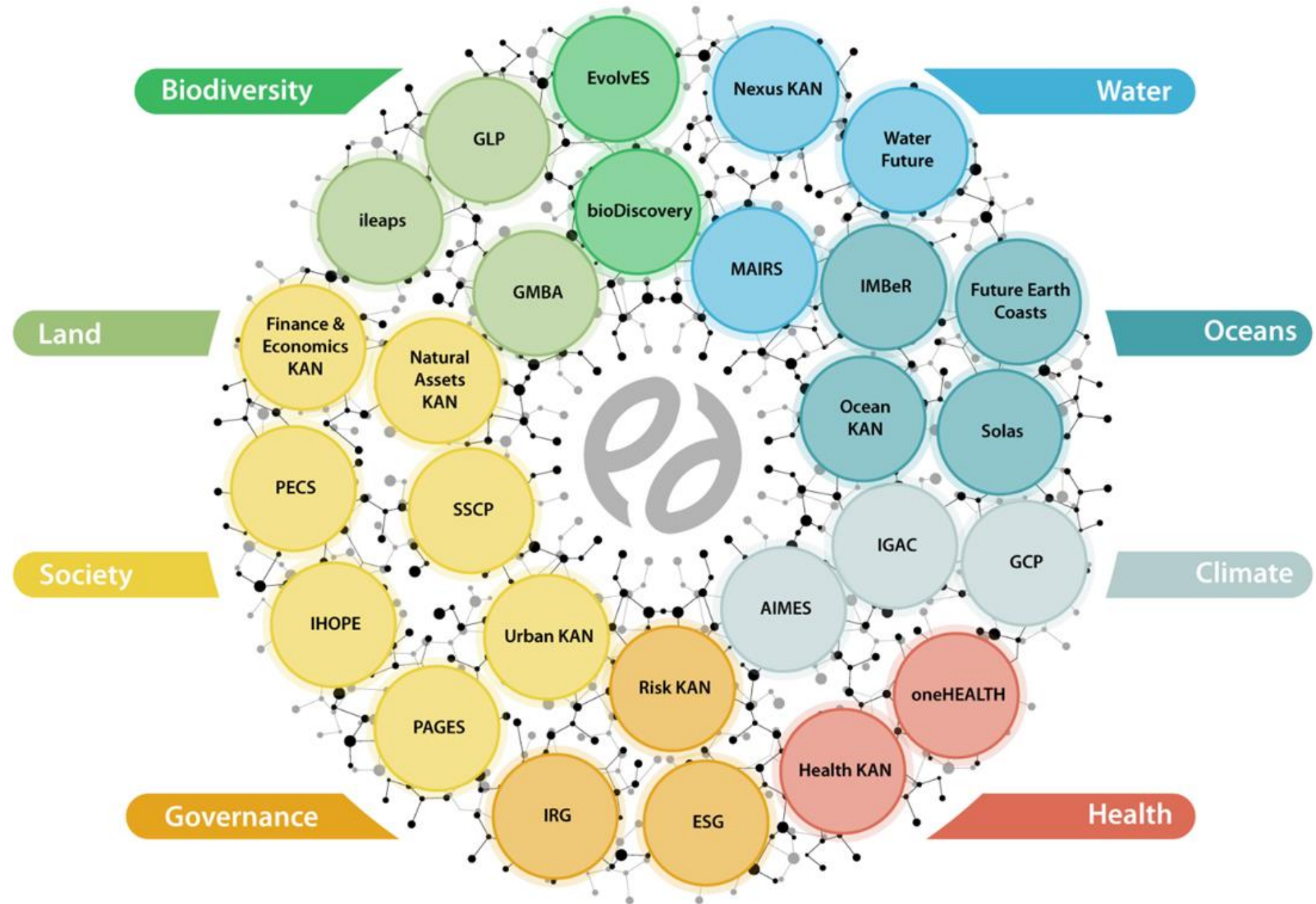
Routes to climate-safe landing 'spaces' for human and natural systems on multi-decadal to millennial timescales.

Climate Intervention.
Assessment of risk of climate intervention.

Climate Intervention



Global Research Networks



Advancing Climate Science for a Sustainable Future

New
Fellowships
coming soon

WCRP Academy

Determine climate research education needs. Build enabling mechanisms by working with WCRP core activities and education providers, including universities. wcrp-academy.org

The WCRP OSC and the 'Kigali Declaration'....

- **The world is in a state of 'polycrises' leading to cascading systemic risk and increasing inequality**, with unabated climate change being one of the greatest threats to humanity.
- **Probability is rising for complex and compound extremes**, leading to cascading hazards, severe weather events, prolonged droughts, heatwaves, devastating floods and landslides, and wild/forest fires.
- **Human-induced changes have led to profound and widespread changes**; global surface temperatures soon surpassing 1.5°C.
- **Any further delays to climate change mitigation and societal transformations (adaptation) will exacerbate the impacts** and demand enhanced adaptation and mitigation responses.
- **Requires urgent unprecedented societal and technological transformation on a global scale**, for immediately attaining net zero carbon emissions.



Thank You



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