

# Earth Day - Climate Resilience



Ryan R. Peterson, PhD

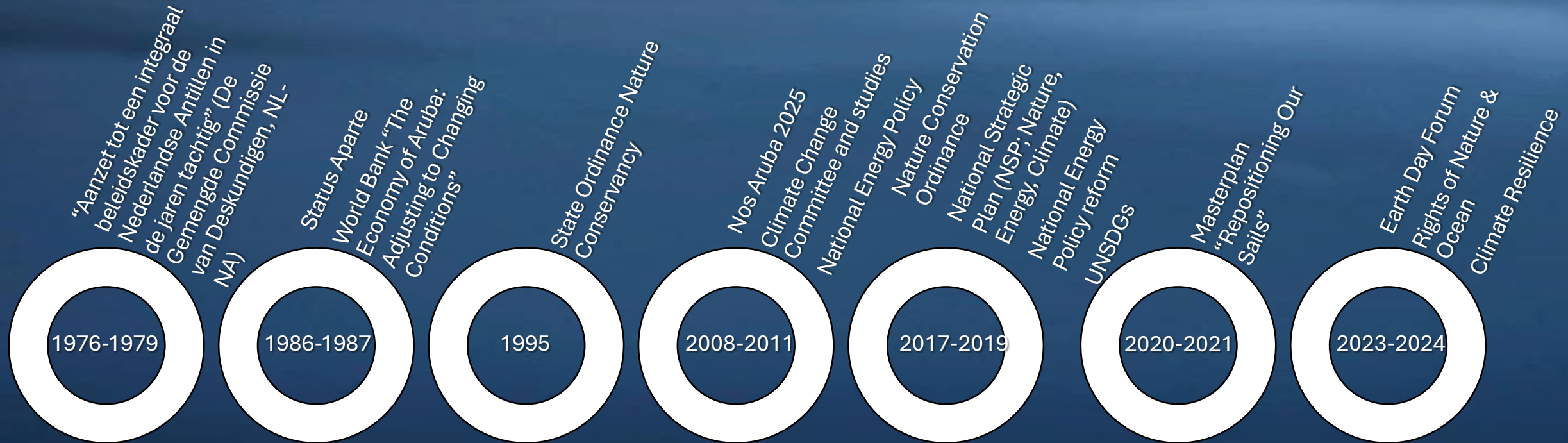


National Climate Resilience Council

April 22, 2024

*Disclaimer: The views expressed in this presentation are those of the author and not necessarily of the Centrale Bank van Aruba, the Government of Aruba, nor any other public, private, non-governmental, academic and civic institution.*

# What is past, is prologue



*Het versterken van de economische weerbaarheid, de ruimtelijke ordening en natuurbescherming dienen van nu af zeer ernstig te worden genomen; de economische en sociale overleving van de eilanden zijn ermee gemoeid (GCD NL-NA, 1979).*

**Stressors**

**States**

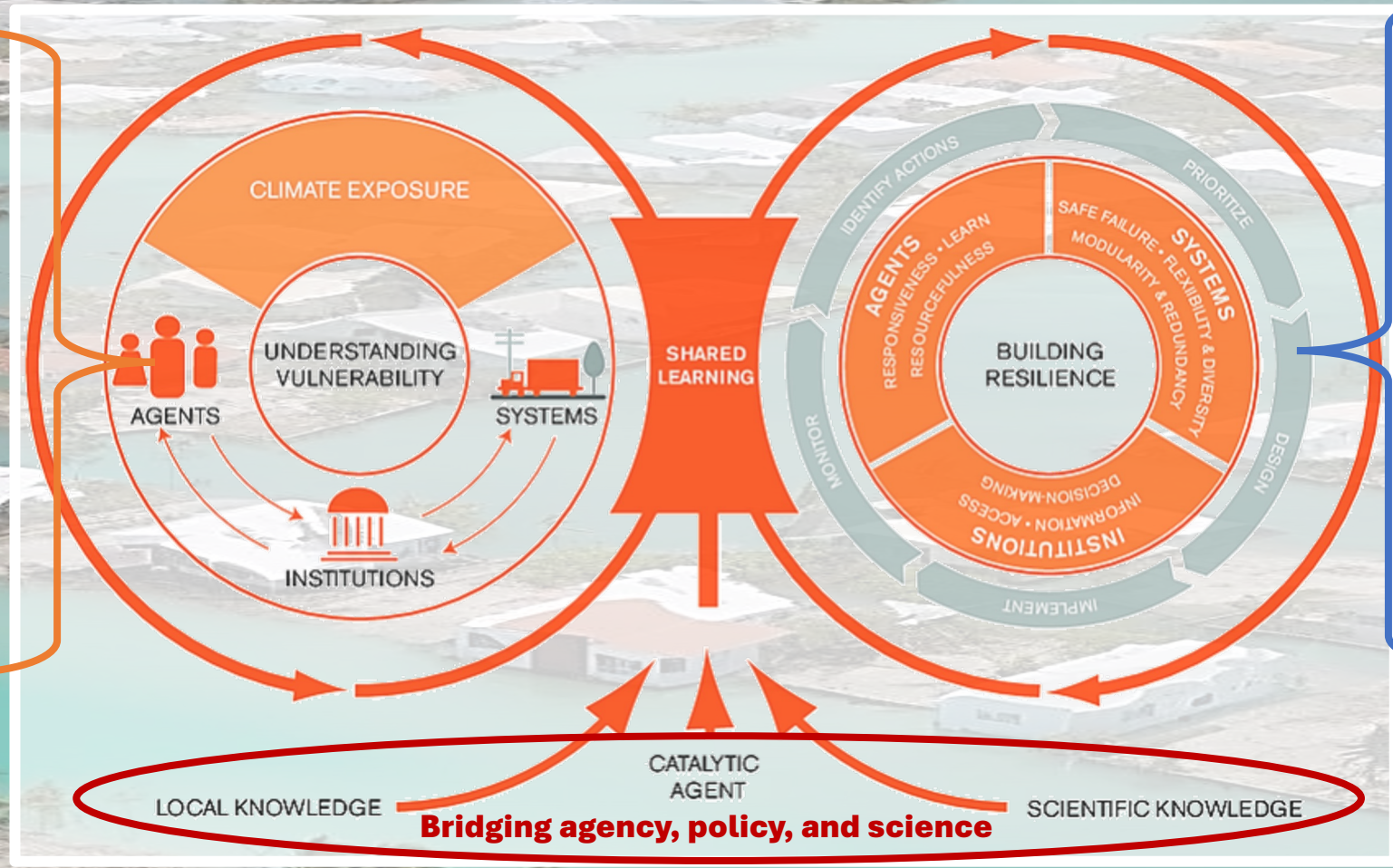
**Strategies**

**Exposure x Vulnerability**

**Acute x Chronic**

**Physical x Transitional**

**Dynamic x Compounding**



**Risk-based x Resilience-driven x Action-oriented**

**Systemic**

- 1. Climate governance & legislation**
- 2. Climate adaptation**
- 3. Climate financing**
- 4. Climate analytics**
- 5. Climate literacy**

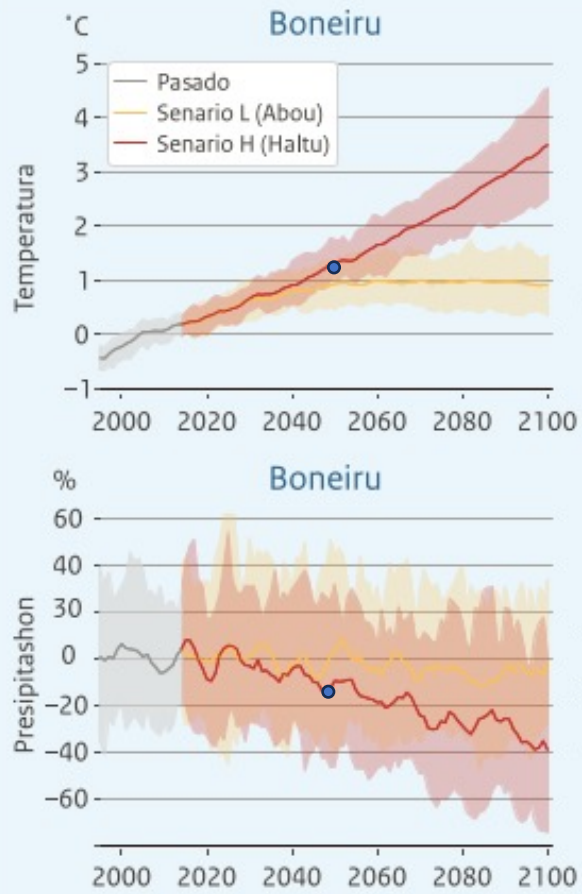
# Framing Climate Resilience in Small Island States

NCRC - Ryan R. Peterson, 2024

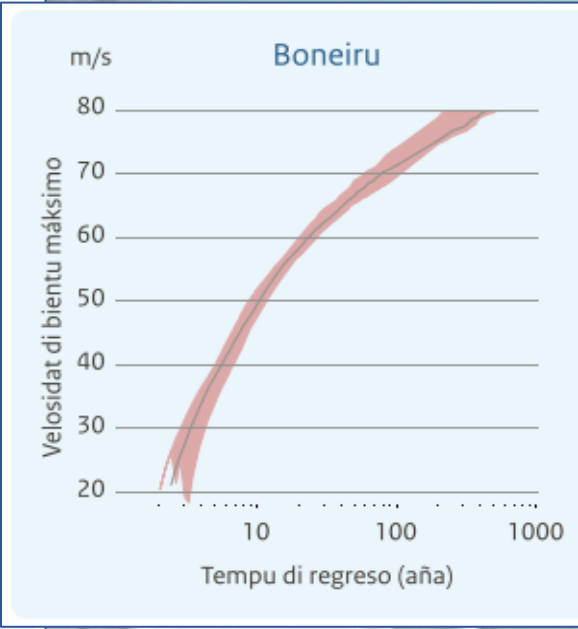
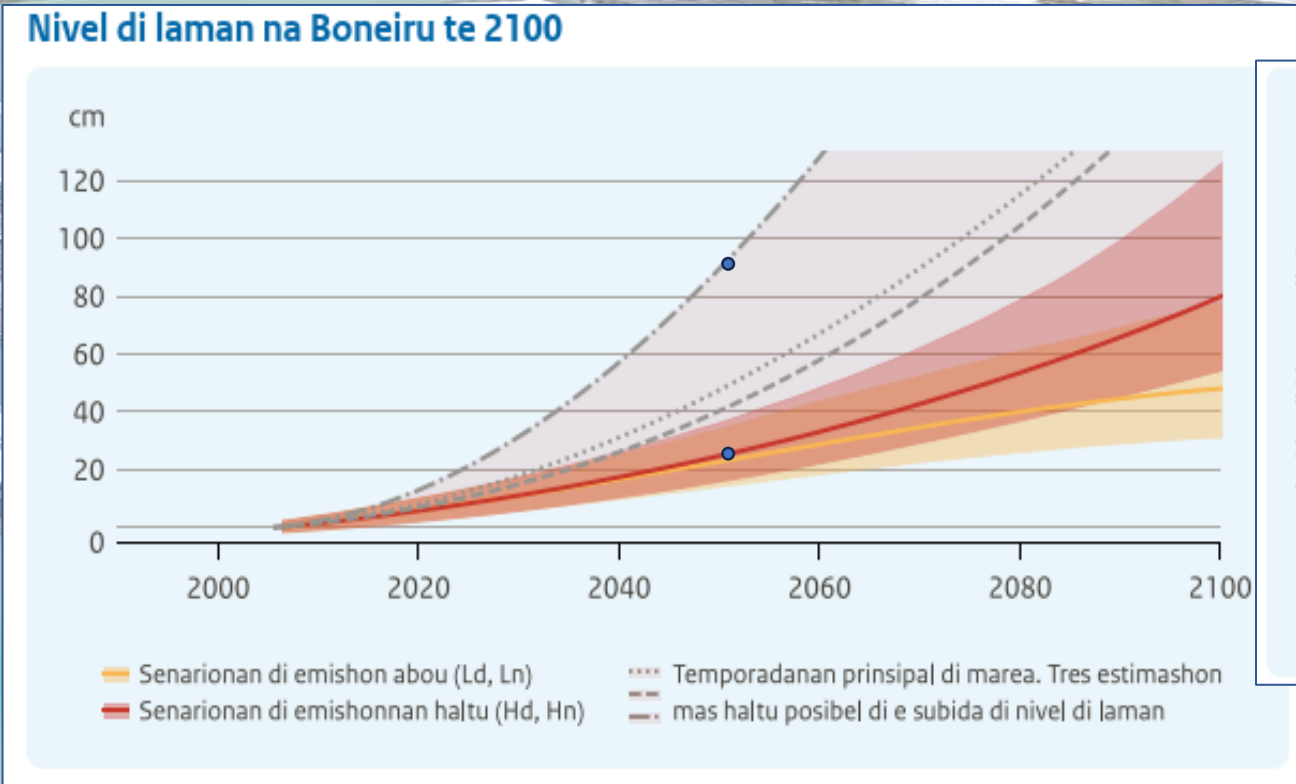
(Source: Adapted from CBA, 2019; IMF, 2023; Moench et al., 2011; NSP, 2019; OECD, 2019; UNSDG, 2018)

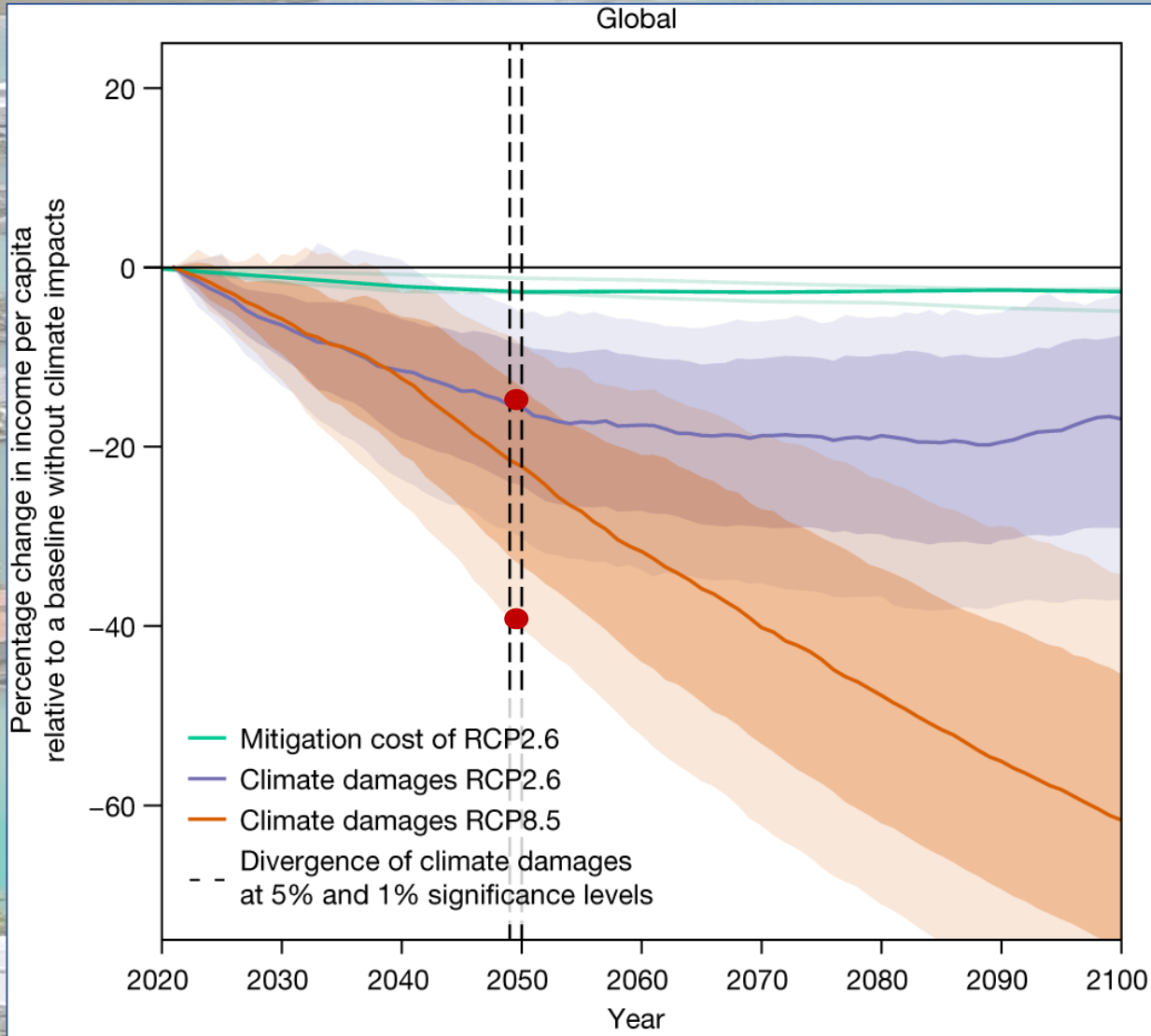
### Yobida i temperatura na islanan BES

E islanan BES ta bira mas kalor i mas seku



*“Den kaso di emishon abou Boneiru por ferwagt un subida di nivel di laman bastante fuerte (31-78 cm), den kaso di emishon haltu esei ta mas (55-127 cm)”. (KNMI, 2023)*





## The Economic Commitment of Climate Change

*“We find that the world is committed to an income (per capita) reduction of at least 19% (likely range of 11–29% accounting for physical climate and empirical uncertainty) within the next 26 years, independent of future emission choices. These damages outweigh the mitigation costs required to limit global warming to 2 °C.” (Kotz et al., 2024).*



*“Record heat index of 62.3C (144.1F) scorches Brazil’s Rio de Janeiro on Sunday...”*



*“Up to 26 cm (10.2 inches) of rain fell on the usually arid country of the United Arab Emirates (UAE) on Tuesday...”*  
*(\*Hurricane Ivan, Aruba, September 2004: 12 cm)*



*(Source: Reuters, March, 2024; April, 2024)*



NCRC - Ryan R. Peterson, 2024

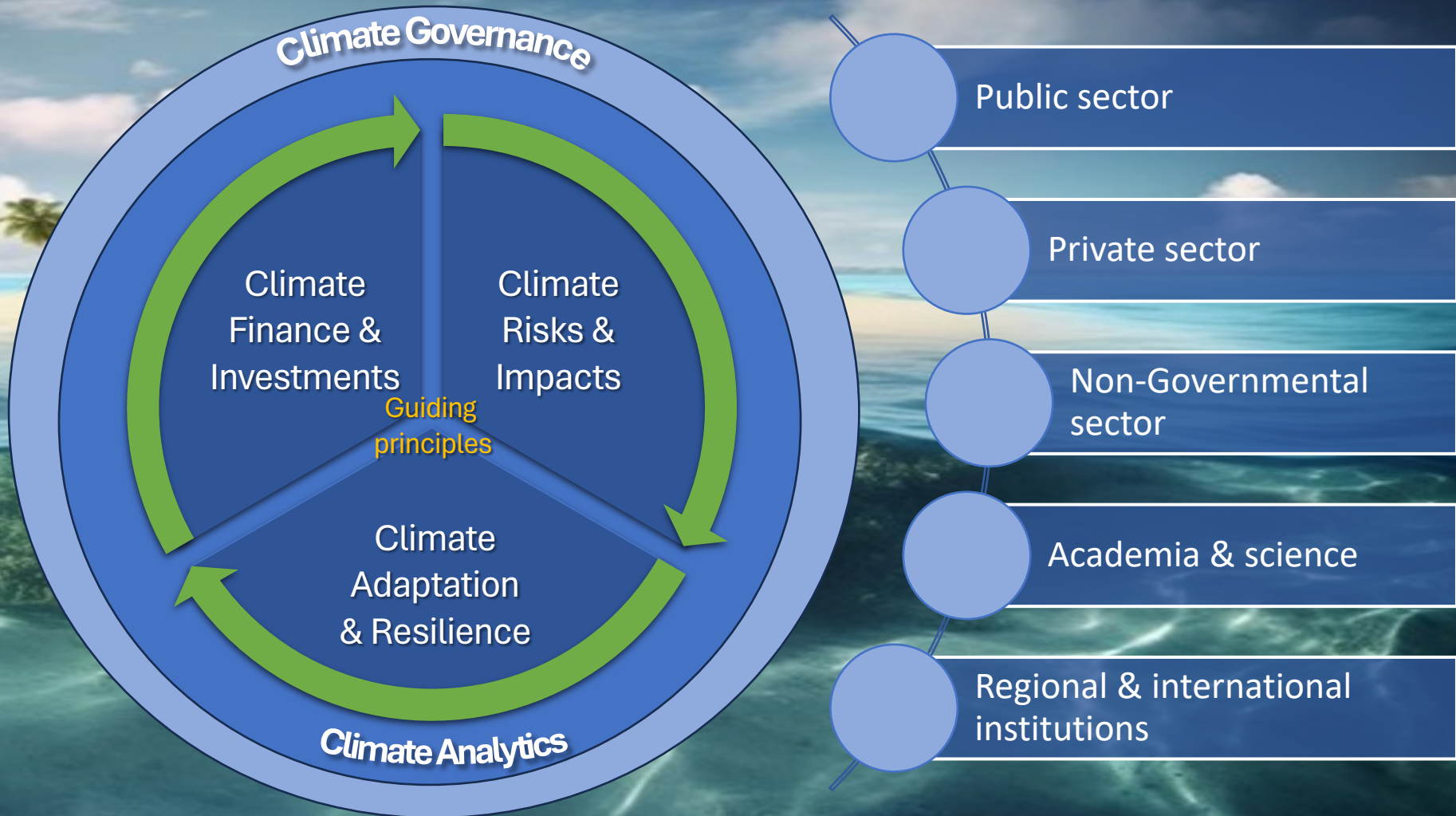


## **Advancing a climate resilient Aruba**

Foster and contribute to developing and strengthening the ability to cope and adapt, as well as to transform and learn in the face of current and future climate changes, thereby safeguarding that all individuals, households, sectors, and institutions, as well as nature, biodiversity, and ecologies have the right, the capacity, and the opportunity to thrive and lead a dignified and fulfilled life.

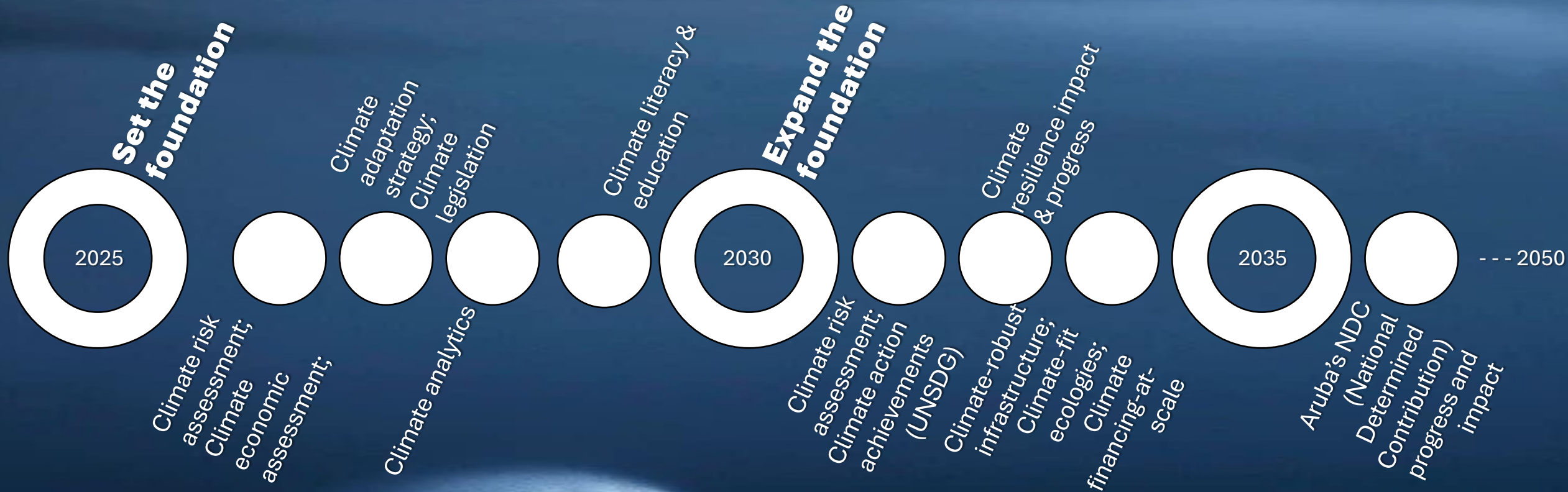
# National Climate Resilience Council & the Climate Quintet

- I. Develop and offer national climate resilience strategies and enabling climate legislation, as well as evidence-based climate policies and pathways.
- II. Coordinate the execution of climate risks and resilience assessments, in addition to advancing climate analytics.
- III. Identify climate finance needs and opportunities, as well as climate investments and financing to advance climate resilience at scale.
- IV. Foster the development of institutional capabilities and governance for strengthening climate adaptation capacity and climate resiliency.
- V. Promote climate literacy and mainstream climate education to nurture inter- and intra-generational climate agency and equity.





# What is future, is present



The background of the slide is a photograph of a small, young tree with green leaves growing out of a sandy beach. The tree is the central focus, with its trunk and branches clearly visible. The beach is composed of light-colored sand and small pebbles. In the background, there is a blurred view of the ocean and some greenery, suggesting a coastal environment. The lighting is soft, likely from the low sun, creating a warm and serene atmosphere.

# Thank you

**Ryan R. Peterson, PhD**  
**National Climate Resilience Council**

April 22, 2024

*Disclaimer: The views expressed in this presentation are those of the author and not necessarily of the Centrale Bank van Aruba, the Government of Aruba, nor any other public, private, non-governmental, academic and civic institution.*