

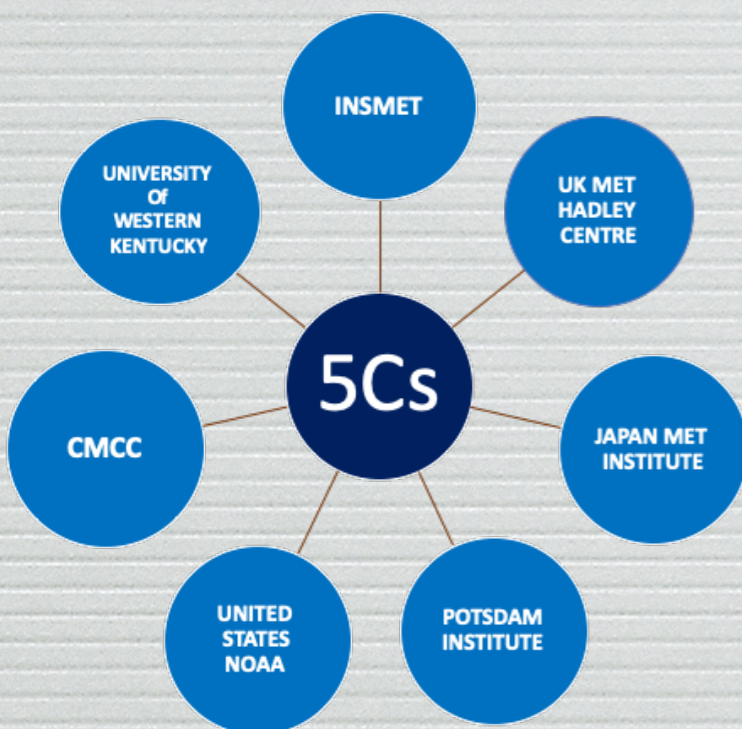


Caribbean Community Climate Change Centre



Empowering People to Act on Climate Change

International Partners



The Centre's two primary mandates

-To coordinate the regional response to climate change and the region's efforts to manage and adapt to the impacts of Climate Change.

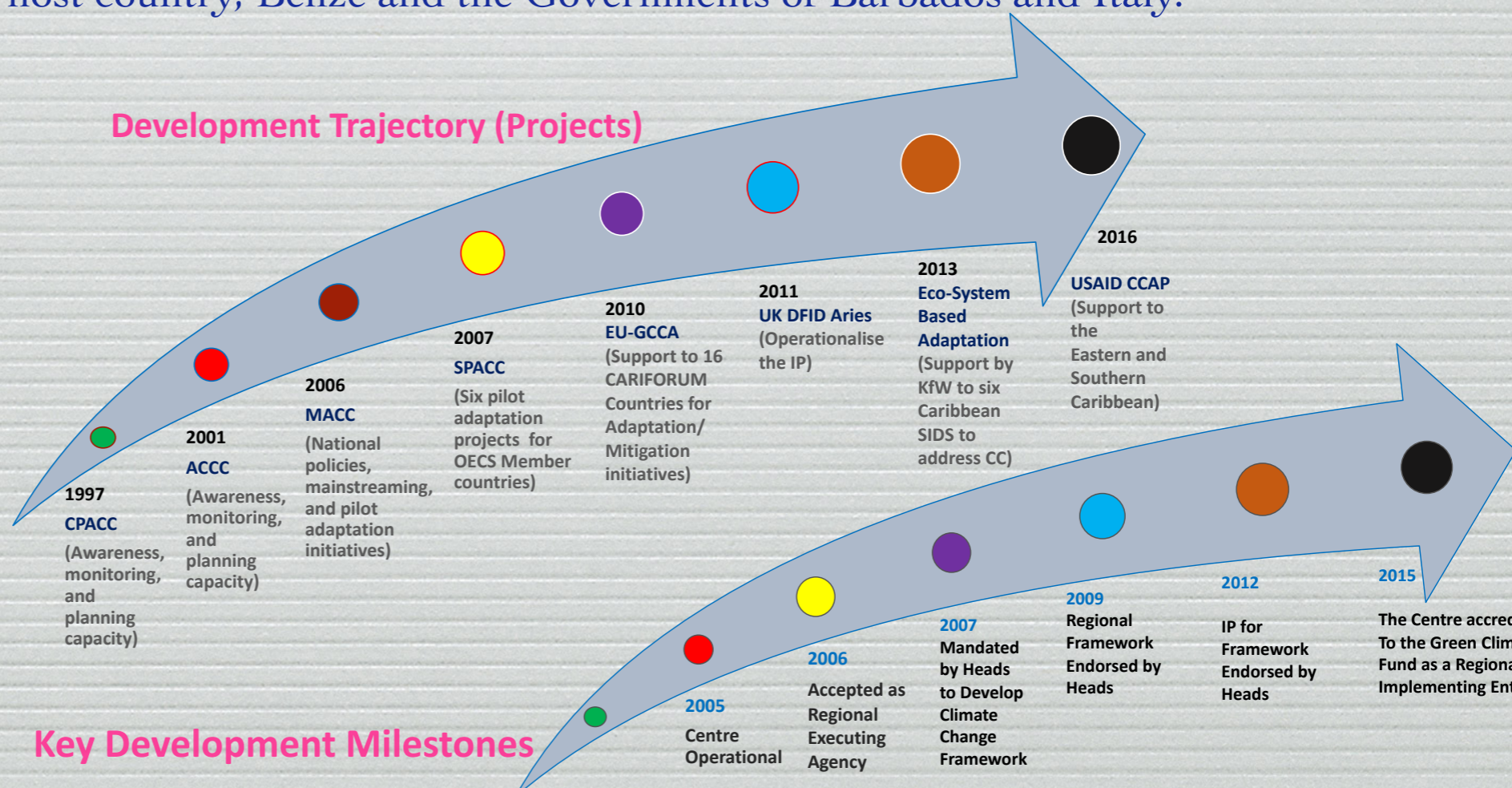
-To develop a financial mechanism to support its operations.

The Centre became operational in July 2005 through supporting grants from the host country, Belize and the Governments of Barbados and Italy.

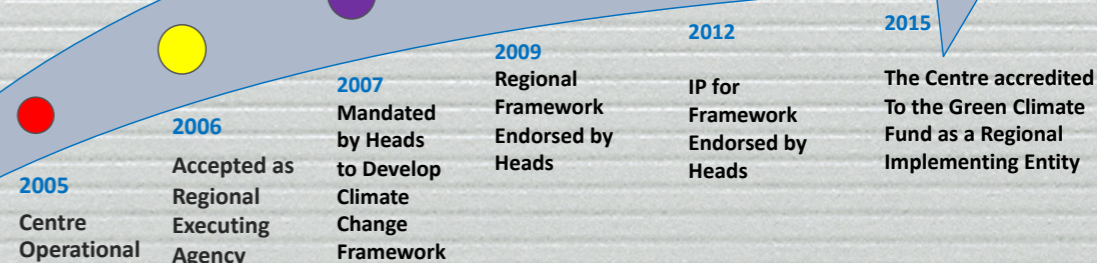
Regional Partners



Development Trajectory (Projects)



Key Development Milestones



Challenges



Health, Agriculture, Water, Energy, Climate....

- Reduction in potable water availability, reduced water access for sanitation & hygiene.
- Limited storage capacity for essential services.
- Reduced food security: reduction and loss of crops.
- Salt intrusion to aquifers and at 61-64% of agricultural wells.
- Decreased water penetration in soils to the underground aquifers: (crops) Decreased soil moisture.
- Aquifer recharge is about 15-20% of the average annual rainfall.
- Increased prolonged power outages: Limited access to pumping power during severe weather events.
- Increased drought periods have suppressed IRWR.
- Increased storm weather intensity and frequency.

Solutions

Targets

- Decentralized water capture, storage and distribution.
- Increase storage capacity for essential services and shelters.
- Desalination or Brackish Water Reverse Osmosis technologies.
- Physical Barriers to increase soil water retention and reduce storm water runoff.
- Use of soil materials with increased water retention capacities.
- Reduce Non-Revenue Water: Implement NRW program.
- Grid independence, use renewable sources for generation and batteries to store energy.
- Limit use of potable water for non-potable purposes.
- Public awareness campaign
- Development of Public-Private Partnership policies
- Install infrastructure to withstand category 3/4 winds and storm waters.

WSRN S-BARBADOS BENEFITS



- RE systems and MT installed and integrated:

- Decrease Fossil Fuel usage



- Revolving Adaptation Fund Facility Established

- Gender Equality and sensitivity program launched



- Climate Change Adaptation and Master Plan

- 16km of water mains replaced

- Decentralized water storage and RWH installed



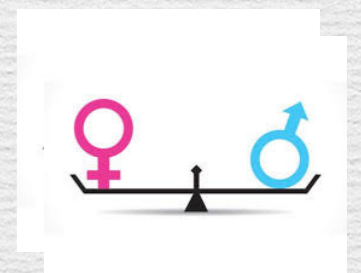
- Increased water accessibility for the most vulnerable

- Personnel trained and certified



- Public awareness campaign launched

- Development of Policies



- Formal training for water-energy professionals

Lessons Learnt

- Be inclusive
- Review National Determined Contributions
- Rank Needs of Country and match to Resources to Need
- Do your homework: Research available funding sources and review of the information necessary to complete application
- Rank Projects and assign dedicated resources
- Involve major stakeholders and drivers in the initial conceptualization process for maximum input
- Involve grassroots communities
- Gender equality and develop gender commitments
- Develop Environmental and Social Safeguards
- Integrating Climate Change and Variability concerns into operating machinery of Governments and Private Sector
- Transforming national budgets into climate risk opportunities for change
- Addressing the impacts of external mitigation policies on national economies (e.g. UK APD)
- Management interventions must be based on inter-sectoral linkages



Ways Forward

- Avoided emission 73,394 tCO₂eq by 2030 (NDC)
- 1,500 Vulnerable households with storage tanks (NAP)
- 5500 (50% male and 50% females) individuals, including women and children, benefit from Rainwater Harvesting Systems and Personal Tank Programme.
- 1 hospital and 9 polyclinics retrofitted with storage tanks or RWH (NAP)
- 40 Farmers utilizing harvested rainwater for irrigation (NAMA)
- By 2023, reduce NRW by 0.48MGD (NDC)
- Minimum of 25 persons benefited from the RAFF.
- Training:
 - 500 BWA staff trained with ISO 45001
 - 25 BWA and partners ENVISION certified
 - 500 BWA staff trained on gender
 - 33 Community Workshops/ training (3 per parish)
- Ministry of Energy and Water Resources and Caribbean Community Climate Change Center to develop: Full Funding Proposal for: “Reduce, Reuse and Recycle for Climate Resilient Wastewater Systems in Barbados- (3R CReWS)”

