



# Preparatory Grant to support Integration of Data Science and Technology in Caribbean Conservation Efforts by Civil Society



## BACKGROUND

Emerging data science and technology are transforming conservation science and boosting the efficiency of civil society organizations (CSOs). Tools like blockchain, machine learning, and the Internet of Things, combined with satellite and big data, enable CSOs to reduce costs, scale up impact, and adopt innovative approaches. However, many Caribbean CSOs have yet to fully explore these opportunities.

Tackling sustainability challenges and fostering shared goals require upscaling technology use and building digital skills, while addressing regional digital divides and inequalities. Technology also provides a platform to amplify indigenous and local knowledge, creating opportunities for knowledge exchange and skills export in natural resource management. As conservation increasingly intersects with climate change, integrating climate modelling and digital systems is vital to enhance efficiency, security, and data analysis capabilities.

The Cropper Foundation is excited to launch the **Project Preparatory Grant to Support Integration of Data Science and Technology in Caribbean Conservation Efforts by Civil Society**, funded by the Critical Ecosystem Partnership Fund (CEPF) Caribbean Islands Biodiversity Hotspot Small Grants Mechanism, implemented by the Caribbean Natural Resources Institute (CANARI).

By equipping CSOs with the tools and knowledge to integrate data science and technology, this initiative fosters innovative and sustainable conservation strategies across the Caribbean.



## OBJECTIVES



Strengthen the technical capacity of civil society organizations (CSOs) for applied biodiversity conservation



Promote collaboration and information exchange among CSOs



Identify and address barriers to technological innovation within conservation initiatives

## KEY PARTNERS

Critical Ecosystem Partnership Fund (CEPF)  
 Caribbean Natural Resources Institute (CANARI)  
 The Cropper Foundation (TCF)

## EXECUTING AGENCY

The Cropper Foundation (TCF)

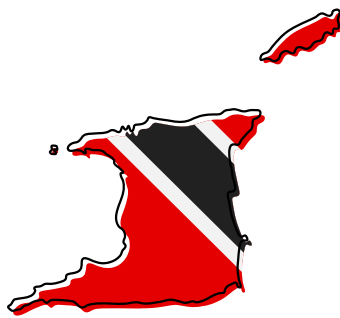
## PROJECT DURATION

November 2024 - August 2025

## PROJECT TEAM

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## ABOUT TCF



The Cropper Foundation

- Founded in 2000 in Trinidad and Tobago
- Non-governmental organization
- Dedicated to advancing sustainable development in the Caribbean

- Focuses on climate change, biodiversity conservation and social equity among other areas
- Builds capacity and fosters collaboration to achieve meaningful, long-lasting impact

## TARGET STAKEHOLDERS

### TARGET COUNTRIES

Jamaica



St. Lucia





Saint Vincent and the Grenadines



### TARGET CSOs

- Have attained medium to high digital maturity
- Actively works in the CEPF's focal areas
- Have established relationships and history with local vulnerable populations

## ACTIVITIES + OUTPUTS

ACTIVITY	AIM	OUTPUT
 <p>Landscape Assessment of Data Science and Technology Network; assessment of CSO conservation technology maturity: 2-day in-person workshop</p>	<p>To assess:</p> <ul style="list-style-type: none"> <li>• causes and effects of conservation problems</li> <li>• the capacity and capabilities of CSOs to carryout operations</li> <li>• barriers and constraints to technological innovation</li> <li>• adoption towards conservation efforts by CSOs in their country</li> </ul>	<p>Assessment tools: digital landscape tool, barriers and constraints tool</p> <p>Database </p> <p>Knowledge products introducing technology solutions for conservation efforts</p> 
 <p>In-depth knowledge sessions: Virtual</p>	<p>To create and deliver curated sessions on select topics to target CSOs</p>	<p>Pre and Post survey results of target CSOs understanding of selected topics</p> <p>Knowledge products on technology solutions for conservation efforts</p> 