

# 6th Growth and Resilience Dialogue

# GRD 2022

| Climate Resilience Data Challenge





“The cavalry is not coming to save Small Island Developing States from this worsening climate crisis. The burning urgency is now for us to gain deep insights from the data.”

**Curtis B. Charles, PhD., Director of Academic Affairs**

Interim Head, School of Science, Computing and Artificial Intelligence  
The University of the West Indies, Five Islands Campus  
Antigua & Barbuda



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# GRD 2022



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## About GRD 2022

6th Growth and Resilience Dialogue  
Date: 6 to 7 April 2022

The 6th Annual Growth and Resilience Dialogue with Social Partners and the wider OECS/ECCU will be held virtually on Wednesday, 6 April and Thursday, 7 April 2022 under the theme “***Climate Resilience: Securing the Future of Small Island Developing States***”.

The 2022 Dialogue will consist of three (3) plenary sessions on Day 1 and Presentations by four (4) Finalists in the Climate Resilience Data Challenge on Day 2.



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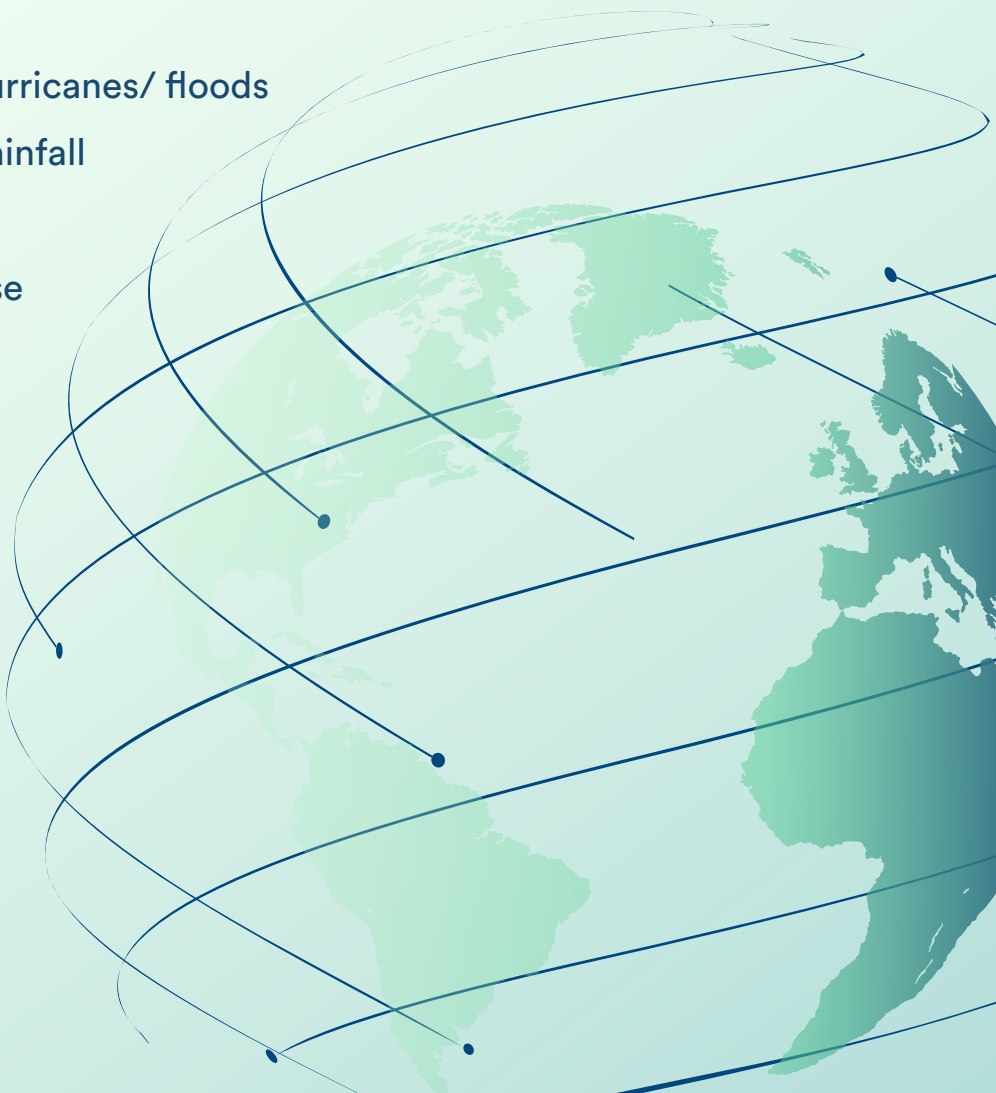


| Climate Resilience Data Challenge

**GRD 2022 Climate Resilience Data Challenge, herein referred to as 'The Challenge', starts with the identification of pressing climate change problems.**

The challenge is organised around seven major data sets, which align with the OECS/ECCB region's climate resilience and development priorities:

1. Rise in heat temperatures
2. Intensity and frequency of hurricanes/ floods
3. Reduced precipitation/low rainfall
4. Coastal degradation
5. Coastal flooding, sea level rise
6. Deforestation
7. Soil erosions







## Who should apply?

Participants (worldwide) from colleges and universities as well as the private sector will be challenged to focus on the development of potential technology solutions, drawing on capabilities in artificial intelligence, data science and data analytics, as well as relevant data governance and policy frameworks regarding data portability, data privacy and data security.



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## Data for the Future...

Participants will channel their proposed digital solutions to overcoming identified data challenges into specific prototypes and accompanying project summary.

### Scope of work will include:

- Developing new or improving existing data collection applications.
- Designing technology platform solutions that enable the collection/ generation, analysis and curation of data.
- Create collaboration and participation frameworks to enable problem solution success.



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# The Challenge

*Key Areas of Focus*



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## KEY AREA OF FOCUS

# Heat Temperatures/Intensity and frequency of Hurricanes/Floods and Reduced Precipitation



Participants can develop an application(s) to assess the changes and correlations in heat temperatures, rainfall, and intensity and frequency of hurricanes/floods and predict future events and trends by examining data provided by collaborating data warehouses together with publicly available data.



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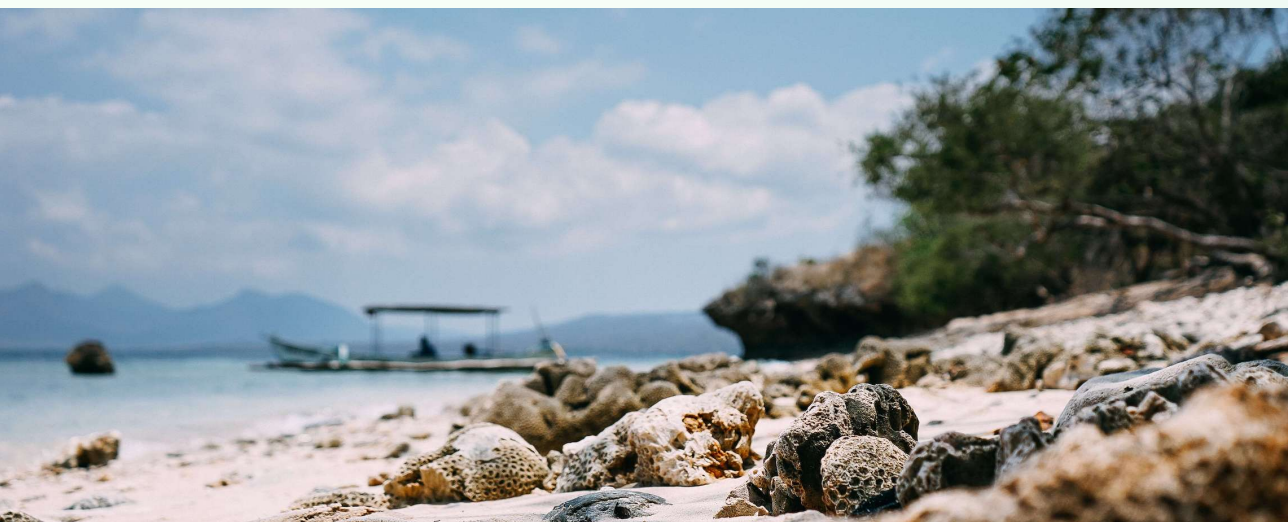
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KEY AREA OF FOCUS

## Coastal Degradation/Coastal Flooding and Sea Rise Level



Participants can develop an application(s) to assess the changes and correlations in rising sea level, storms, and coastal erosions and predict future events and trends by examining data provided by collaborating data warehouses together with publicly available data.

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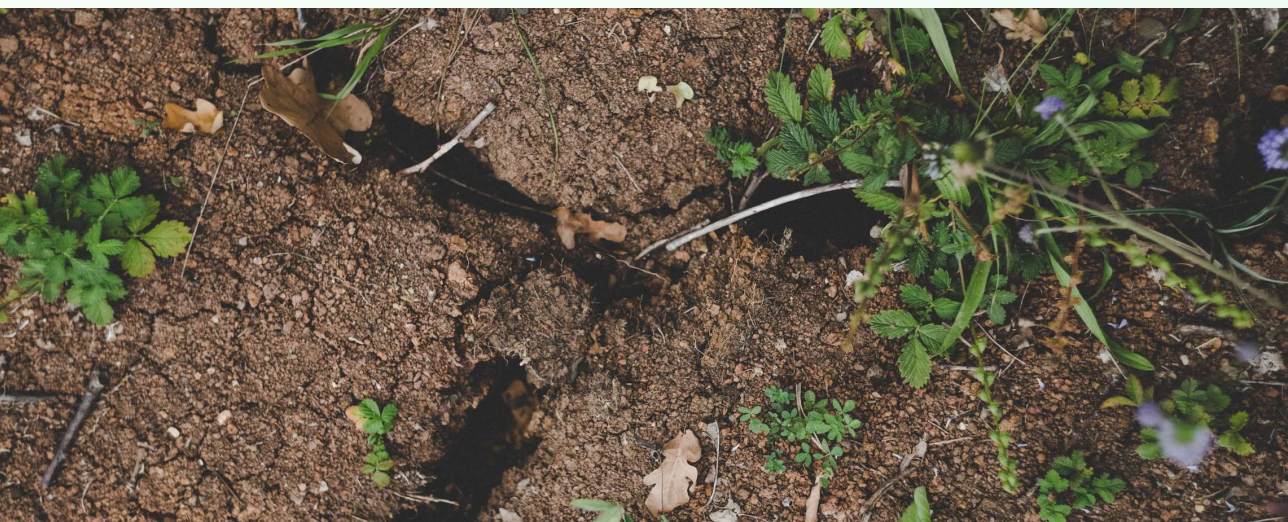
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KEY AREA OF FOCUS

## Deforestation and Soil Erosion



Participants can develop an application(s) to assess the impacts of deforestation on soil erosion after a certain climate shock (such as a drought, hurricane, or flooding), and predict future events and trends by examining data provided by collaborating data warehouses together with publicly available data.



## The Data

Public and private sector organisations responsible for housing OECS/ECCU climate related data would be called on to volunteer data in accordance with the identified data sets to be made available to participants.

These datasets — anonymised to protect privacy — will allow participants to generate new solutions to Climate Resilience Challenges through the application of data science, data analytics and artificial intelligence expertise.



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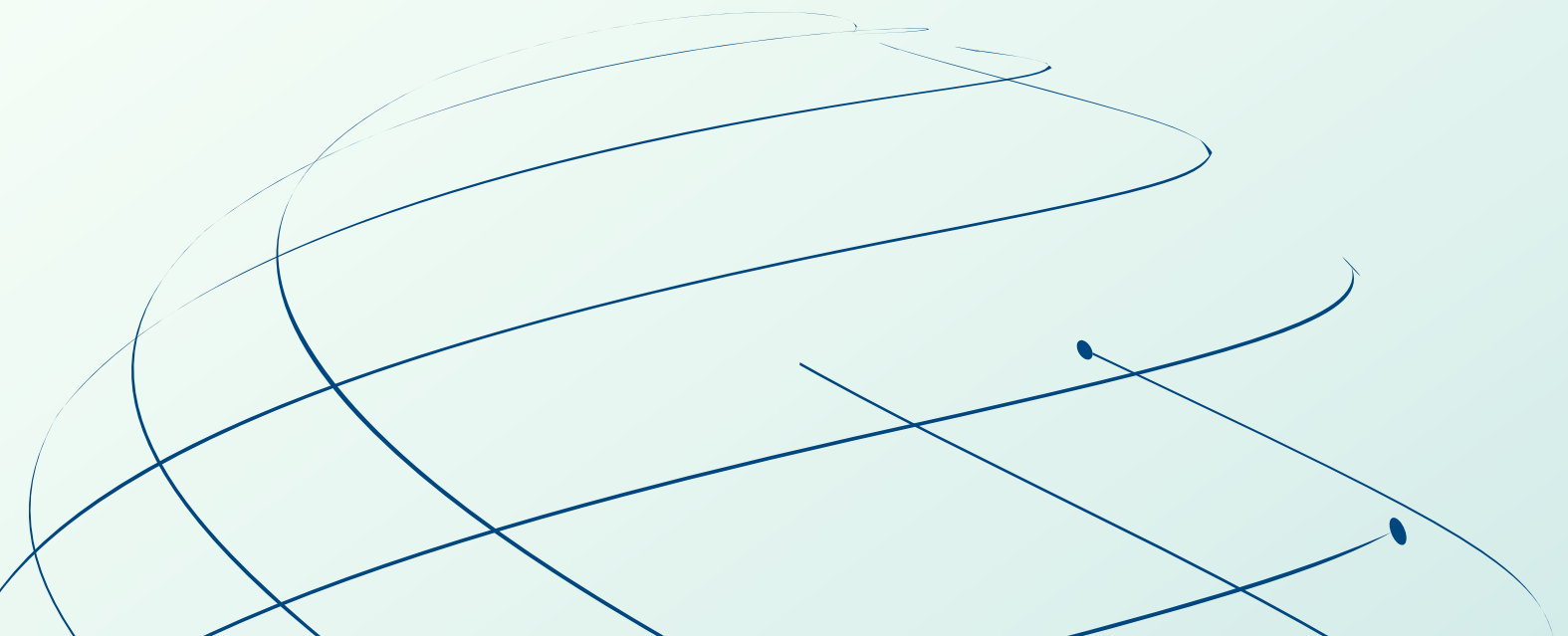
| Climate Resilience Data Challenge

## Important Challenge Details

The **GRD Climate Resilience Data Challenge** will be launched on 25 January 2022 and four (4) finalists shortlisted (*following assessment of project summary submissions*) at the end of March 2022.

All shortlisted finalists will be invited to present at the GRD 2022, 6 - 7 April 2022 in a competitive format with the individual/team associated with the winning selection awarded US\$10,000 along with the possibility of an invitation to the winning solution team to explore ways to collaborate in validating, implementing or scaling the project's reach with an expert in the respective field.

Judges for The Challenge will be sought from regional and international universities, as well as other public and private sector organisations.





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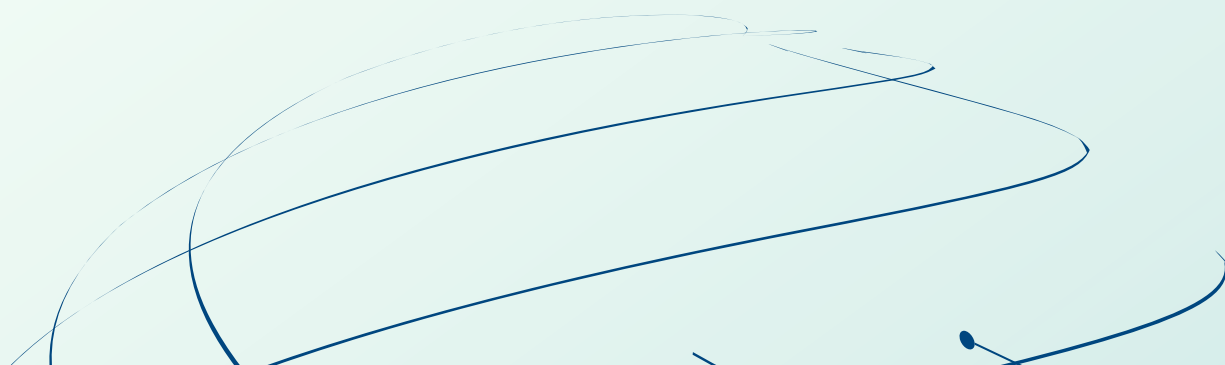
| Climate Resilience Data Challenge

## Important dates:

- + Data Challenge opens: **25 January 2022**
- + Data Challenge data made available to Registrants: **11 February 2022**
- + Submission deadline: **21 March 2022**
- + Data Challenge candidates shortlisting and notification of Finalists: **22 - 30 March 2022**
- + Data Challenge finalists pitch: **7 April 2022**

## Submission Guidelines:

1. Participants can enter the challenge as an individual or as a team
2. Participants can make multiple submissions before the challenge closes
3. The platform for submission would be made available one week before the submission deadline.
4. Submissions must include a write up indicating an explanation of methodologies and algorithms used, along with any code and external data sets leveraged, assumptions made and any insights identified as well as a video presentation (not to exceed 4 minutes) of the work.
5. Evaluation criteria for the final will be shared once the finalists are announced.



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# GRD

| Climate Resilience Data Challenge

## Interested In Submitting Your Idea?

Persons interested in learning more about The Challenge and/or participating should contact the GRD 2022 Planning Committee via the following e-mail:

[GRD@eccb-centralbank.org](mailto:GRD@eccb-centralbank.org)

Visit website:

<https://www.eccb-centralbank.org/p/grd-2022-climate-resilience-data-challenge>