

## Training

# USING MACROECONOMIC MODELS FOR ASSESSING THE IMPACTS OF CLIMATE CHANGE AND ADAPTATION ON NATIONAL ECONOMIES

1 to 3 pm CET | January 31 and February 3, 2023 | Virtual (MS Teams)

*under the Global Programme on Policy Advice for Climate Resilient Economic Development (CRED)*

The [Global Programme on Climate Resilient Economic Development \(CRED\)](#) implemented by GIZ on behalf of the Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV) kindly invites you to participate in an introductory training on using macroeconomic models for assessing the impacts of climate change and adaptation on national economies. The training will be conducted in two consecutive two-hour sessions on January 31 and February 3, 2023.

This training is offered to share experience from the CRED programme in piloting the development and application of such models in Georgia, Kazakhstan and Vietnam. The CRED programme developed together with experts from the [Institute of Economic Structures Research \(GWS\)](#) a macroeconomic e3 prototype model for adaptation planning. This model allows to analyze the macroeconomic impacts of climate hazards and investments in suitable adaptation options. During the training participants will have the opportunity to work with the model in interactive exercises.

Participants in the training will get a basic understanding about how to use macroeconomic models for adaptation planning purposes and how to model the macroeconomic impacts of climate change and adaptation. Subsequent extensions of the prototype and application for adaptation planning are encouraged but not part of the current scope of the CRED project. Requests for support and capacity building are welcomed and will be supported from GIZ in alignment with ongoing country-specific development cooperation portfolio.

The training will be conducted by Dr. Anett Großmann and Mr. Frank Hohmann (GWS).

We highly recommend participation on both days as the training sessions build upon each other.

Please note that a prerequisite for the participation in the interactive exercises is that you join the training with a Microsoft Windows computer, which has Excel installed (at least the version from 2016).

**If you would like to participate in the event, please send an email to [Ms. Anne Weltin](#) to register and to receive updates.**

## AGENDA

January 31: 1 to 3 pm CET	February 3: 1 to 3 pm CET
<p><b>Possibility to join 30 min. early (12:30 pm CET) for support on transferring the prototype model to your computer.</b></p> <ul style="list-style-type: none"> <li>CRED introduction (GIZ)</li> <li>Overview of the e3 prototype model and its use for climate change and adaptation scenarios (CCA)</li> <li>Introduction to the DIOM-X model building framework for model users</li> <li>Interactive exercises on understanding model data</li> </ul>	<ul style="list-style-type: none"> <li>Results from exemplary climate change and adaptation scenarios</li> <li>Interactive exercise on scenario analysis</li> <li>Wrap-up and outlook (prerequisites to build and use an e3 model to evaluate CCA scenarios)</li> </ul>

**Disclaimer:** The DIOM-X model framework code, which will be shared as part of the training is distributed with royalty-free, non-exclusive rights (pre-existing work of GWS).

By participation in the training, you confirm that you will refrain from developing similar products and from commercial usage of DIOM-X, the e3 prototype model and respective training materials (“fair use”). Application of the model framework is encouraged as part of official development assistance for country-specific e3 models and capacity building efforts including involvement of both GWS and GIZ.

Please take note that we will record the training in MS Teams. With your participation you consent to the recording, which may be used for the internal and external communication work of GIZ. You may withdraw your consent at any time to use the recordings and pictures from it.

## **RELEVANT BACKGROUND MATERIAL**

- › [Infographic: Policy Advice for Climate Resilient Economic Development \(CRED\)](#)
- › [Video: Managing climate risks and adaptation with macroeconomic models](#)
- › [Video: Voices from CRED partners on managing climate risks with macroeconomic models](#)
- › [Brief: Macroeconomic Modelling for Climate Policy Planning \(2022\)](#)
- › [Brief: Macroeconomic Models for Climate Resilience \(2021\)](#)