On behalf of

Bundesministerium

und Verbraucherschutz



für Umwelt, Naturschutz, nukleare Sicherheit

of the Federal Republic of Germany

# **Services for a Climate Resilient Infrastructure**

## Enhancing Climate Services for Infrastructure Investment (CSI)

## The Challenge

Every year, emerging economies and developing countries invest billions in long-term infrastructure projects. However, their plans often fail to take account of future climate change. This leads to high risks of damage and misguided investments that harbour potentially serious consequences for the economy and society. Many countries – amongst them Brazil, Costa Rica and Viet Nam – have now launched efforts to raise the resilience of their infrastructure, prioritising this as a target in their *Intended Nationally Determined Contributions (INDC).* 

Known as *Climate Services*, user-oriented climate information and products (e.g. risk and vulnerability assessments) that enable public and private decisionmakers to manage climate risks and opportunities form a major cornerstone for achieving this target. Many countries so far lack the institutional, technical and service-related conditions they need to set up and mainstream *Climate Services* in their planning procedures and regulations. Amongst the first international initiatives to take up this challenge is the *Global Framework for Climate Services (GFCS)* of the *World Meteorological Organization (WMO)*.

Project title	Enhancing Climate Services for Infrastructure Investment (CSI)
Commissioned by	The Federal Ministry for the Environment, Nature Consevation, Nuclear Safety and Consumer Protection (BMUV) – within the scope of the International Climate Initiative (IKI)
Countries	Braxin, Costa Rica, Nile Basin – represented by the Nile Basin Initiative (NBI) – Viet Nam
Lead executing agencies	Braxin: Ministério do Meio Ambiente (Environement Ministry, MMA); Costa Rica: Minesterio de Ambiente y Energía (Environement and Energy, (MINAE); Nile Basin; Nile Basin Initiative (NBI); Viet Nam: Ministry of Planning
Implementation partners	German Meteorological Service (DWD), Engineers Canada, national and regional engineering
Terms	March 2017 to October 2023

The project Enhancing Climate Services for Infrastructure Investment (CSI) forms part of Germany's International Climate Initiative (IKI). In accordance with a resolution by the German Bundestag the IKI receives backing from the country's The Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV).











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### **The Objective**

CSI aims to empower decision-makers to make greater use of *Climate Services* when planning infrastructure investments and thus help increase infrastructure resilience. In this way, it is helping to achieve the *UN Sustainable Development Goal (SDG)* 9.

#### **The Approach**

To achieve its objective, CSI brings together all relevant private and public-sector actors along the *Climate Service* value chain. This includes climate data providers and the stakeholders, decision-makers and engineers who work with this data. All activities are purposefully inte-grated into the *National Adaptation Plans (NAP)* and NDCs as part of a drive to promote NAP and NDC development and implementation.

CSI prioritises four areas. Specifically, it supports the provision and use of *Climate Services*, supports the integration of the use of *Climate Services* into infrastructure planning, pilots climate risk assessments for infrastructure, promotes international knowledge transfer and exchange.

Establishing a sustainable interface between users (e.g. infrastructure planners, operators and owners) and *Climate Service* providers – commonly referred to as a *Cli-mate Service User Interface Platform (UIP)* – enables potential *Climate Service* users to participate in the development process. At the same time, it involves provid-ers in the use of the information for infrastructure planning.

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The German Meteorological Service (DWD) advises Climate Service providers and users on the delivery and use of Climate Services.

CSI also focuses on climate-sensitive infrastructure planning methods that take risks into account. Together with decision-makers, the project develops recommendations for adapting planning procedures and regulations in line with the *climate-proofing approach*, e.g. via cost-benefit analyses, the development of building standards or environmental impact assess-ments (EIA).

To identify climate risks, CSI is piloting a climate risk assessment for a specific infrastructure type in each of the partner countries, thereby creating a starting point for prioritising the various adaptation options. Engineers Canada is advising the partner countries on the risk assessment rollout. Based on the *Public Infrastructure Engineering Vulnerability Committee (PIEVC) protocol* that *Engineers Canada* developed to analyse climate risks to infrastructure, the project aims to build local capacity by means of a *learning-by-doing approach*. At the same time, it is compiling handouts and training materials to disseminate this approach and to operationalise the adapted planning procedures and regulations.

Furthermore, CSI shares its experience and *best practices* with national and international forums and posts them on *AdaptationCommunity.net*, amongst other sites.

On behalf of the German Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV)

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