



Economics of Climate Adaptation

CLIMATE CHANGE

affects extreme weather worldwide, exacerbating **human & financial impacts**

Floods

Storms

Droughts

Losses

billion USD per year

39.1

Floods

8.9

Droughts

73.6

Storms

Affected people

million per year

69.0

66.7

32.3

Extreme weather events threaten urban and rural areas, from small regions to entire nations. Along with growing population and economies, losses from natural hazards are rising in the world's most exposed regions as our climate continues to change.

Current Situation

2030

2040

2050

2060

In the next decades, daily maximum temperatures are projected to increase by up to 30%.

Duration, intensity and spatial extent of **heatwaves** and **warm spells** are also likely to increase.

Globally, an increase in intensity and frequency of **extreme precipitation** events is also expected by mid-century.

ECA offers a

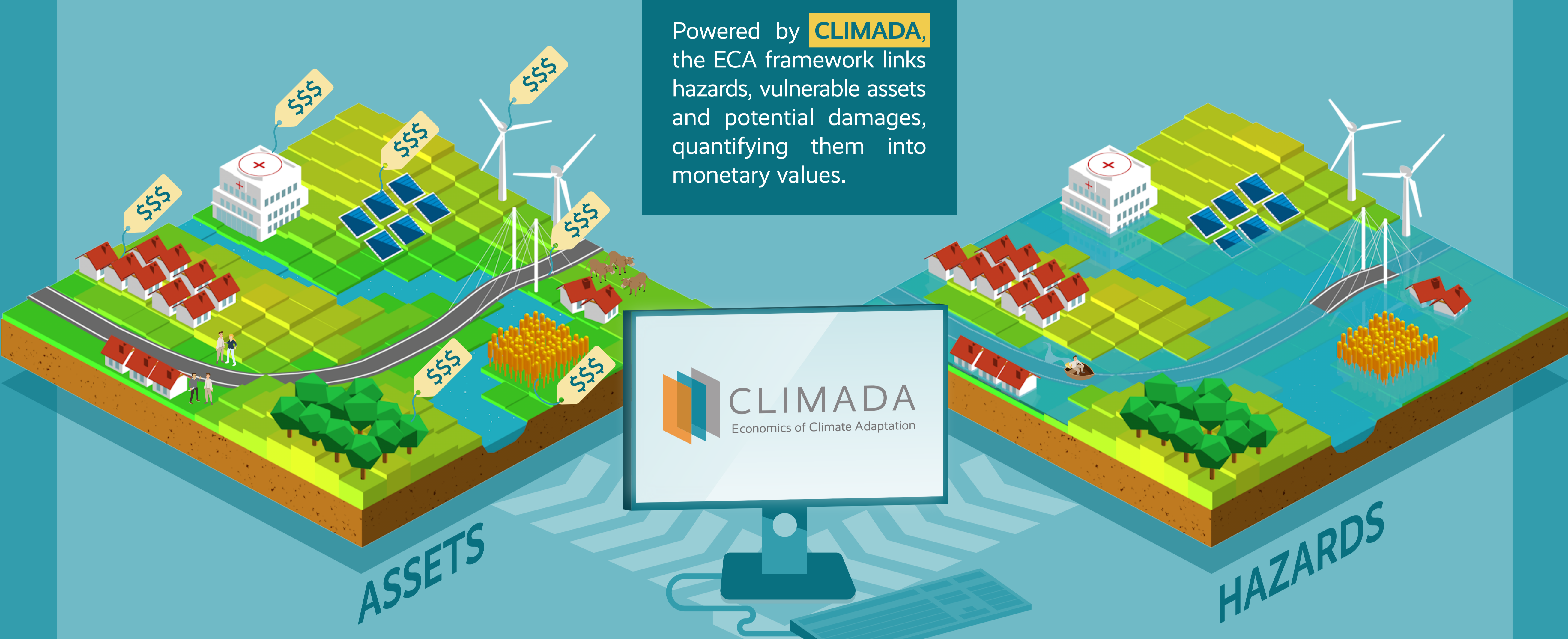
UNIQUE FRAMEWORK

for the flexible identification of cost-effective climate adaptation measures



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Powered by **CLIMADA**, the ECA framework links hazards, vulnerable assets and potential damages, quantifying them into monetary values.

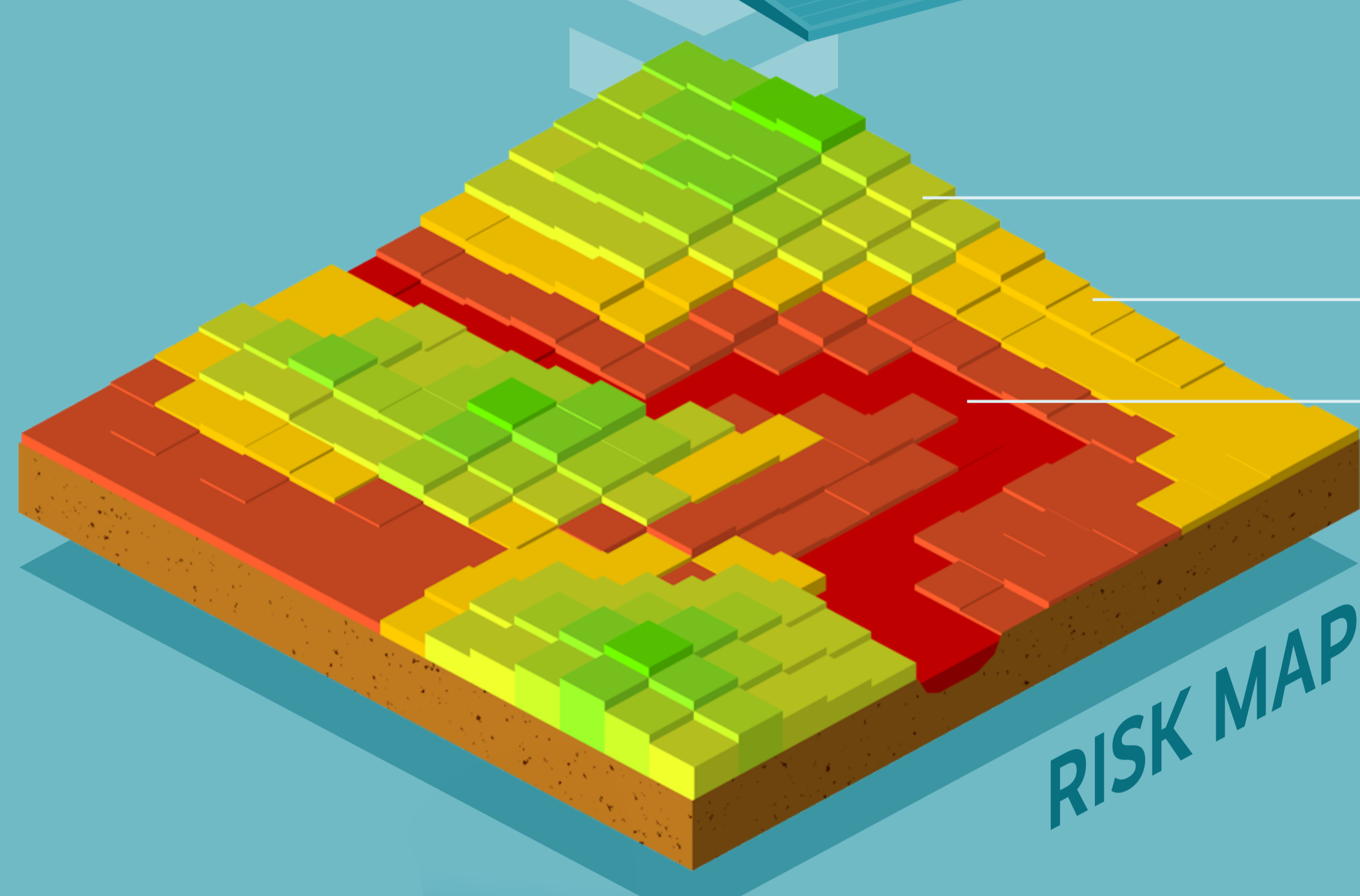


ASSETS

HAZARDS

CLIMADA
Economics of Climate Adaptation

Low risk
Moderate risk
High risk



RISK MAP

The Economics of Climate Adaptation (ECA) is a flexible decision-making framework that integrates climate risk assessment with economic impacts to determine an optimal portfolio of climate adaptation measures.



DAMAGES

ECA systematically evaluates and offers an optimal climate adaptation measures portfolio FOR DECISION MAKERS.

ECA builds a smart-mix portfolio of different adaptation measures, weighting costs and benefits of the different options to enable synergies and leverage local conditions.



Ecosystem-based adaptation



Infrastructure



Community-based adaptation



Risk transfer

The outcomes of ECA inform climate adaptation strategies and policies,

UNLOCKING CLIMATE FINANCE.



Adaptation Strategies

National adaptation plans
Local adaptation strategies



Funding Agencies

International cooperation
Development banks
Global funds

ECA outcomes inform local and national adaptation strategies. The quantification of climate risk and the ranking of potential benefits align with the requirements of international funding agencies and other investors.