

Climate Proofing for City Planning

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On behalf of:



Federal Ministry
for the Environment, Nature Conservation,
Building and Nuclear Safety

of the Federal Republic of Germany





SUSTAINABLE DEVELOPMENT GOAL 11

Make cities and human settlements inclusive, safe, resilient and sustainable



SUSTAINABLE DEVELOPMENT GOAL 9

Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation



SUSTAINABLE DEVELOPMENT GOAL 13

Take urgent action to combat climate change and its impacts*



SEA



RIVER

How can I
protect life
and property
in my city?





TERRAIN



LAND USE



DEMOGRAPHIC

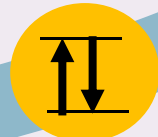


LOAD CAPACITY

SALINISATION



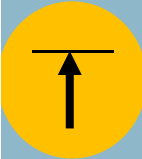
SUBSIDENCE



RIVER



SEA



CRITICALITY

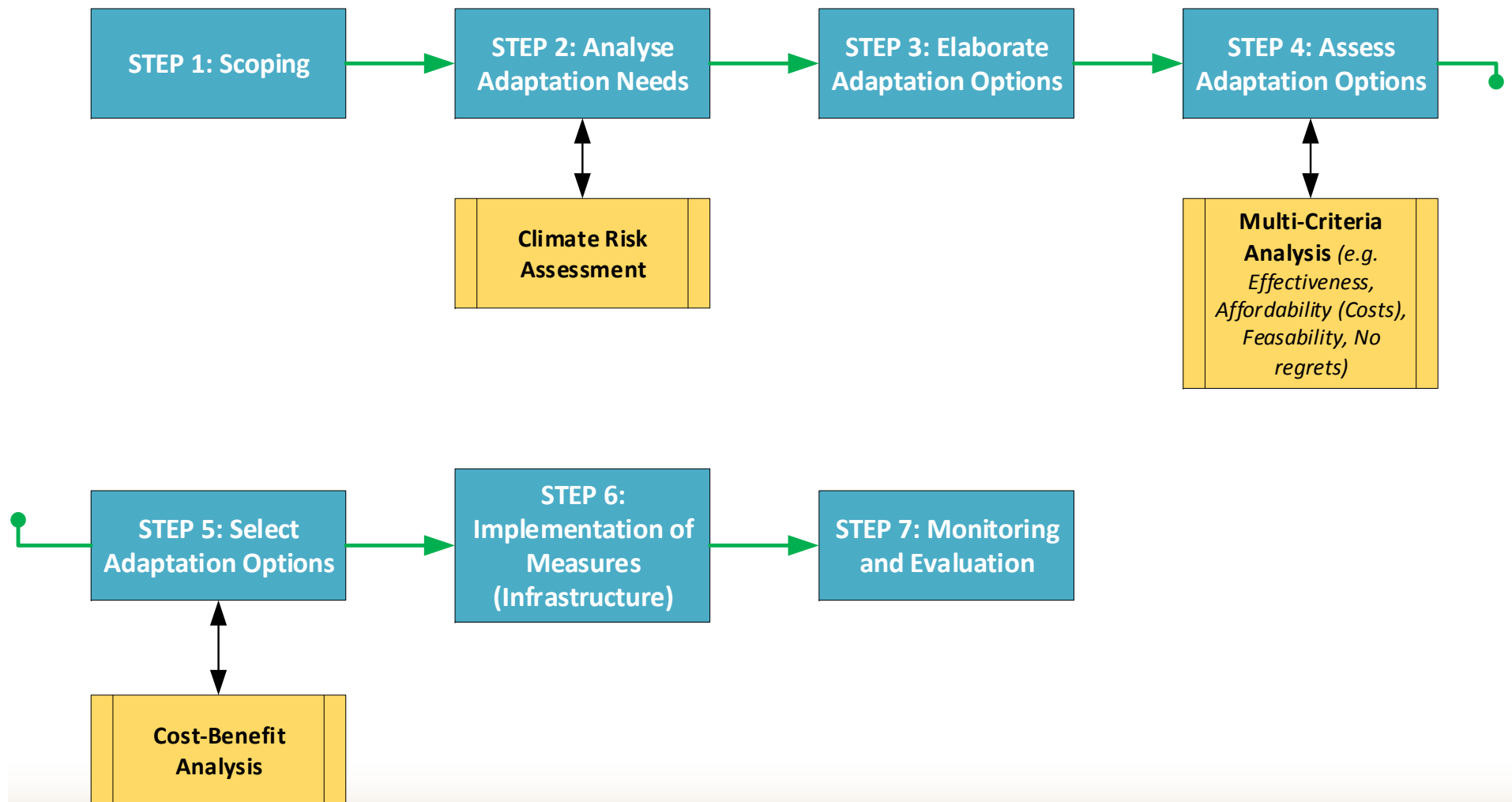


ECONOMIC ACTIVITY



PREPAREDNESS

CLIMATE PROOFING PROCESS





STEP 2: CLIMATE RISK ASSESSMENT



Object of Interest?



Relevant Climate Trends?



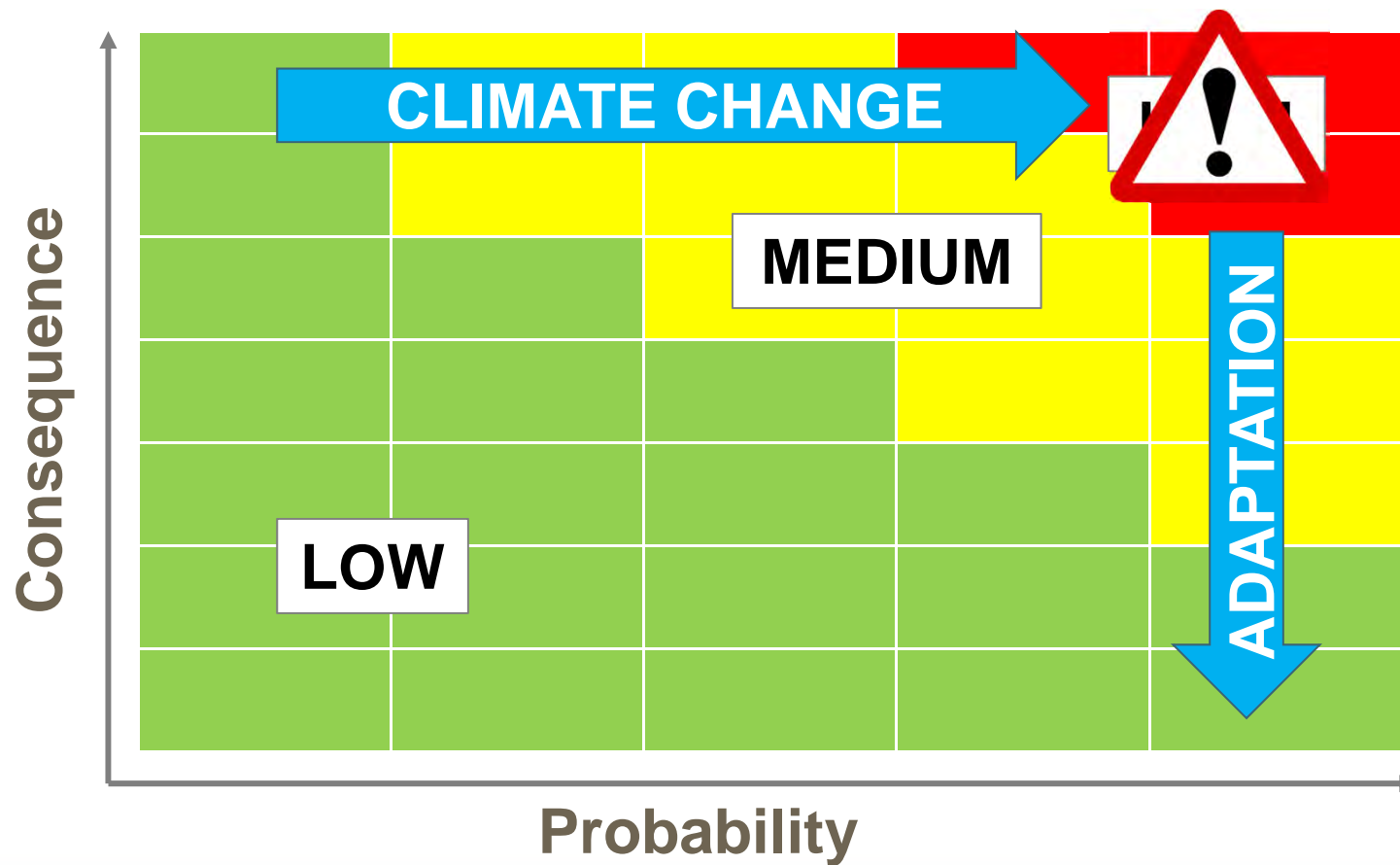
Bio-Physical Effects?

- Overwhelming of load capacity
- Damages
- Contamination of Groundwater
- Increased need for maintenance

Socio-Economic Effects?

- Costs for alternative solutions
- Health risk
- Water unusable downstream (e.g. for agriculture)

STEP 2: CLIMATE RISK ASSESSMENT





STEP 3 & 4: ELABORATION & ASSESSMENT OF ADAPTATION OPTIONS



Adaptation Option

*Increase in Load
Capacity*

Effective?



Affordable?



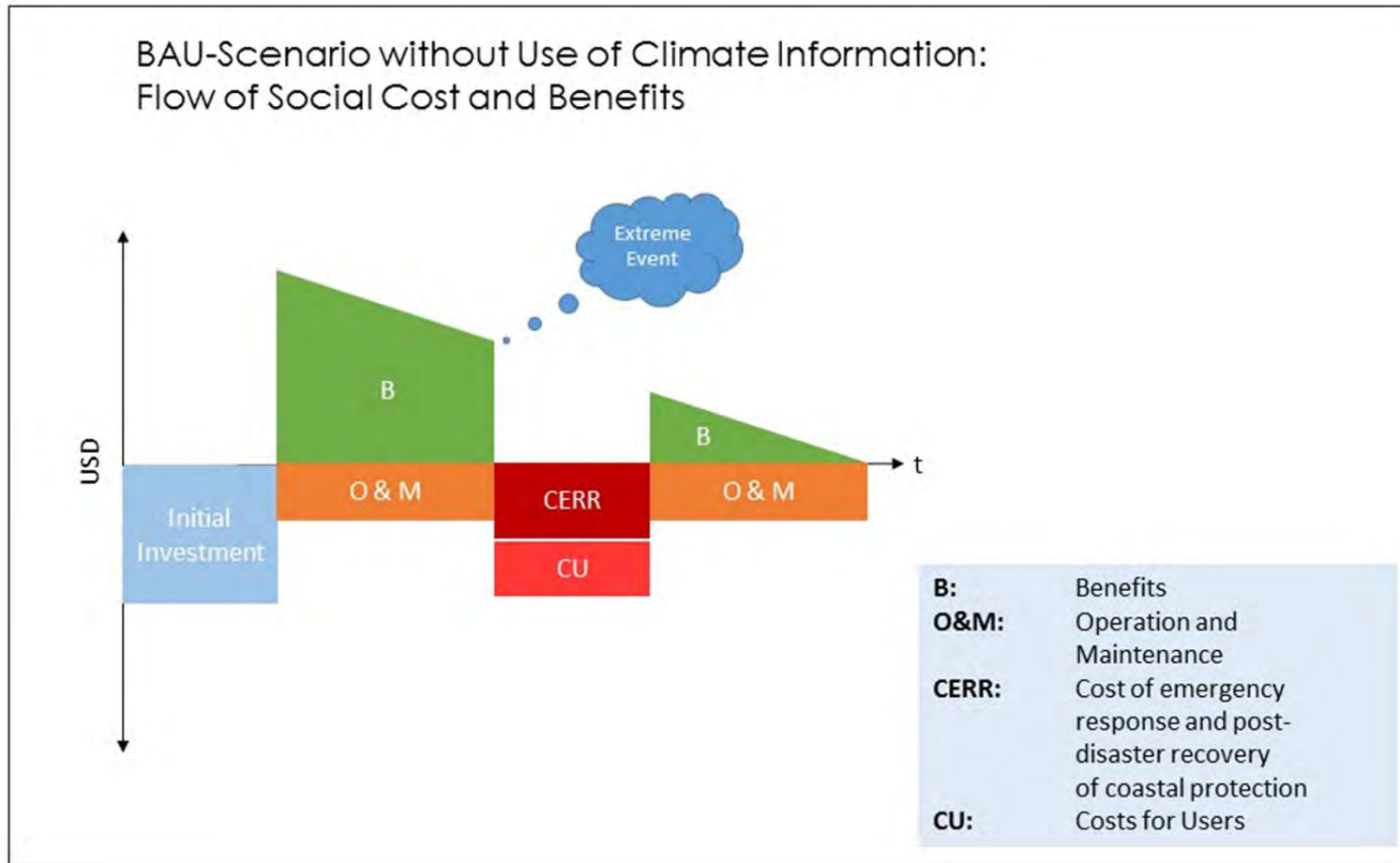
Flexible?

No-Regret?

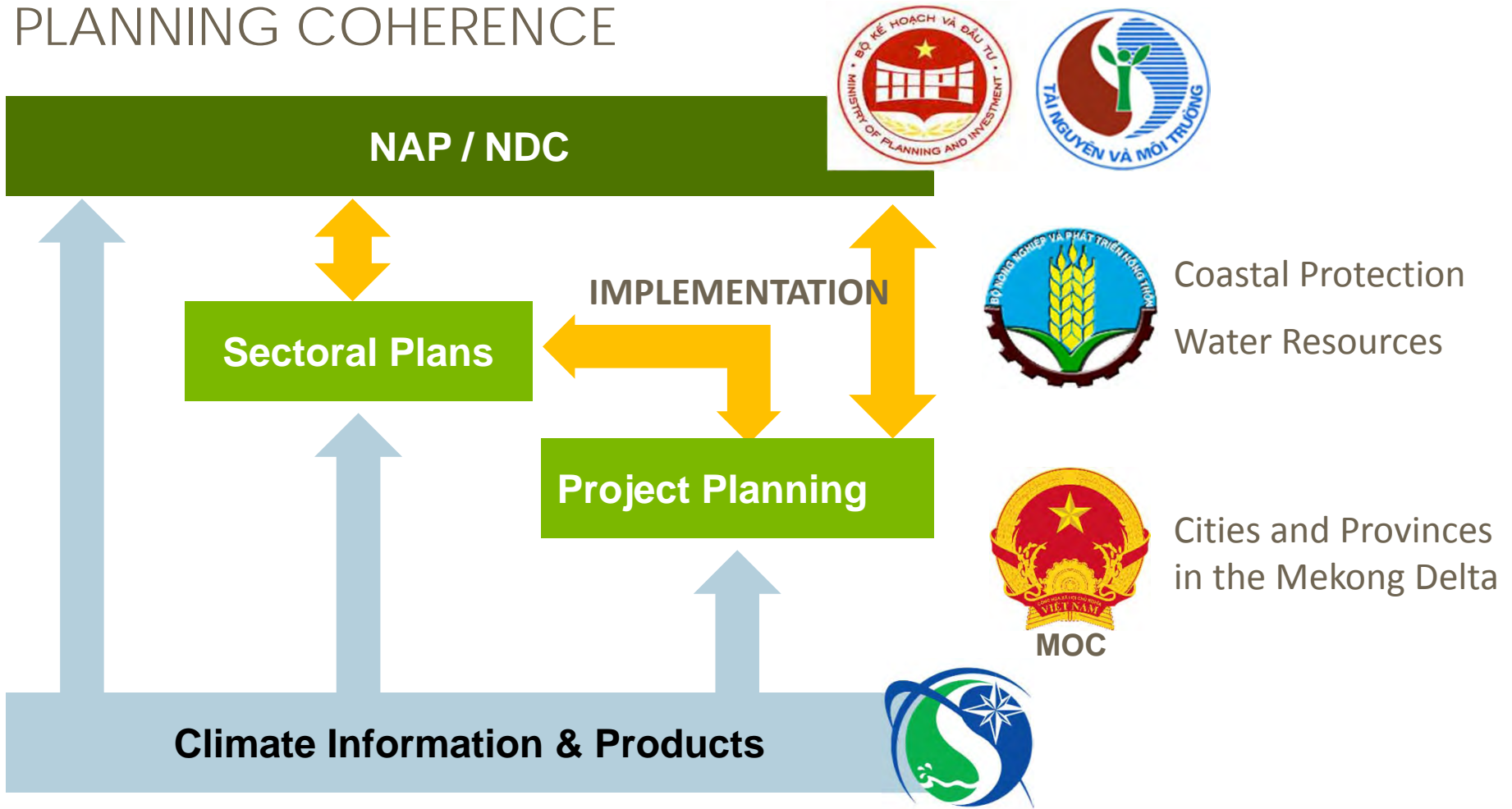




STEP 5: SELECTION OF ADAPTATION OPTION via CBA

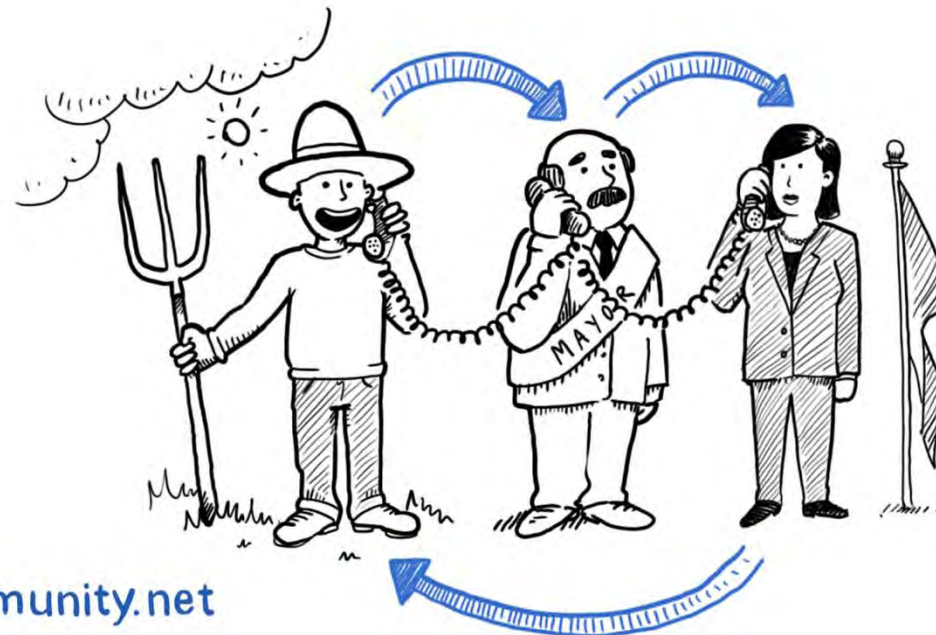


CLIMATE PROOFING IN VIET NAM REQUIRES PLANNING COHERENCE



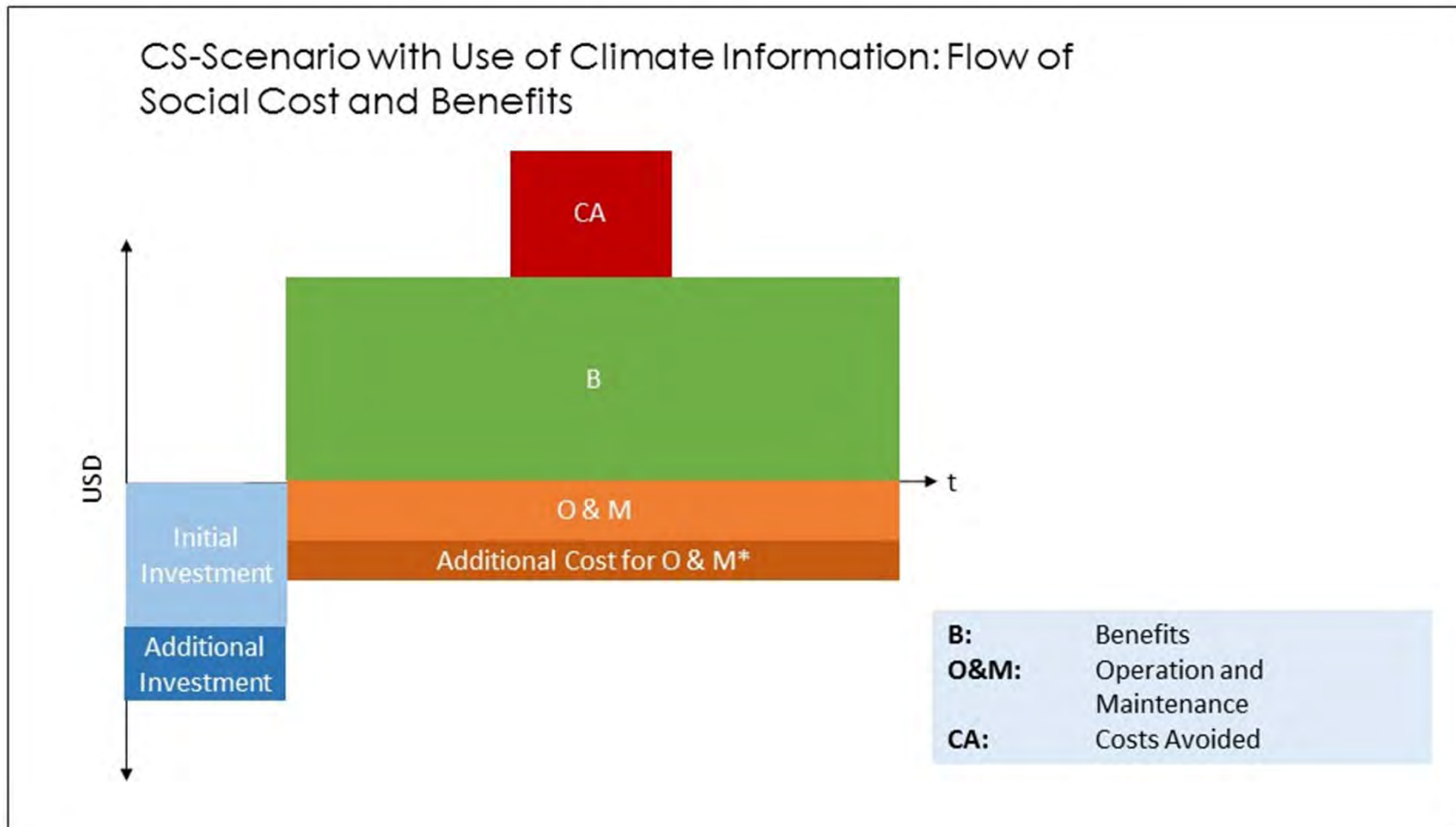
Thank you!

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STEP 5: SELECTION OF ADAPTATION OPTION via CBA





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