Climate-smart Public Financial Management MENA Conference

February 26–29, 2024 Cairo, Egypt







Climate-smart Public Investment Management (CS-PIM)

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Main Messages

- CS-PIM is happening in countries of all income levels
- No CS-PIM without PIM
- CS-PIM applies not only to projects motivated by climate change
- Focus resources on the decisions where the costs of getting it wrong are greatest and deploy scarce capacity to best effect
- Adaptation is not a nice add-on high-risk projects may fail without but not all adaptation is worthwhile
- GHG emissions are now everybody's business signatories to the Paris Agreement have effectively agreed to 'internalize' a global externality
- PIM is about investment flows: also need to think about stocks CS-Public Asset Management







International Recognition of the Importance of CS-PIM

- Coalition of Finance Ministers for Climate Action have identified CS-PIM as a critical component of CS-PFM
- 90+ members, of which 5 in MENA (Bahrain, Djibouti, Egypt, Iraq, Morocco)

Helsinki Principle 4: "Take climate change into account in macroeconomic policy, fiscal planning, public investment management, and procurement practices."

'Public investment management' – "integration of climate change considerations and policies in the guidance, procedures and methodologies used for program and project selection and appraisal, including the use of a shadow price of carbon in economic analysis and appropriate assessment of climate change risks and vulnerabilities"



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What Are Other Countries Doing?

United Kingdom

- Accounting for the Effects of Climate Change developed as supplementary guidance to national project appraisal guidelines (the 'Green Book')
- With World Bank support:
 - Albania
 - Decision of Council of Ministers on PIM requires CC mitigation and adaptation to be considered at concept and feasibility stages. Feasibility guidelines set out how to assess CC risk and analyse adaptation.
 - Armenia:
 - Government decree on PIM requires CC mitigation and adaptation to be considered at concept and feasibility stages.
 - Ethiopia
 - Government regulation on mainstreaming CC in PIM under preparation
 - Project appraisal guidelines require Climate and Disaster Risk Screening (WB tool)
 - Georgia
 - Capital Projects Management Methodology (adopted through a Government resolution) incorporates climate risk
 assessment at concept and feasibility study stages.
 - Vietnam
 - Climate-sensitive appraisal methodologies under development at province level
 - Experimental use of digital mapping platforms (UR-Scape) for climate risk screening





Climate Change <=> PIM

Climate change matters for public investment management.

Climate change (CC) can put a vulnerable project's success at risk through the increasing frequency and intensity of climate-induced hazards → consider adaptation measures to reduce or eliminate the risk.

Public investment management matters for climate change.

Public investment management (PIM) provides a mechanism for ensuring a shift towards more climate-friendly public investment portfolio (aligns to government's commitments to reduce the GHGs)



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CS-PIM Is Relevant Not Only to Climate-Motivated Projects

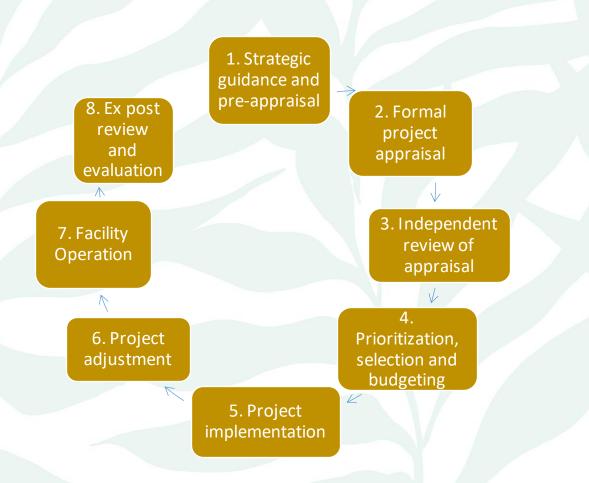
Nature of project	Focus related to climate change					
Climate influenced/influencing projects						
General infrastructure projects with no specific climate-change purpose	Not specific to climate change, but benefits and costs could be put at risk by climate change (e.g., education) or there could be subsidiary effects on GHGs emissions					
Climate-motivated projects						
Climate change adaptation projects	Address growing danger of extreme weather events by protecting assets and livelihoods (e.g., flood protection)					
Climate change mitigation projects (GHG reduction as primary or secondary purpose)	Reduce carbon/GHG emissions or increase absorption (e.g., energy efficiency renovation of public buildings)					







No Climate-Smart PIM without PIM





- Implicitly, PIM already covers climate change

 should already take account of
 externalities and risk
- Embed climate change consideration in the existing PIM System - each stage needs to be made explicitly climate-informed, but there is no need to invent a new framework for the system or to add new stage/modules.
- Hierarchical legal/regulatory framework for CS-PIM (as for PIM)
- As for PIM, roles and responsibilities should be clearly defined – finance/planning ministry leads on CS-PIM, with technical support from expert bodies
- Sophistication of climate-smart PIM depends on maturity of existing PIM
- Concurrent improvements in data





Main Elements of CS Pre-appraisal and Appraisal

Preliminary screening at project concept note stage:

- Step 1: Distinguishing between CCmotivated projects and CCinfluenced/influencing projects
- \sum
- Step 2: Presenting climate-informed project concepts
- Step 3: Addressing CC risk and its consequences in decision making

Project appraisal at feasibility study stage:

- Step 1: Do a climate and disaster risk assessment
- Step 2: Analyze climate change adaptation options and consider adaptive decision making
- Step 3: Analyze and value net effects on GHG emissions
- Step 4: Bring everything together in climatesmart decision making



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Climate-smart Public Investment Policy (CS-PIP) Drives Climate-smart Project Concept Development

Infrastructure network planning Climate Resilience Strategy, 1. Climate-informed should precede project planning, National Adaptation Plan (NAP), Nationally Determined and plans should consider the policy and strategies stranded assets and circular Contribution (NDC), etc. economy, choice of technologies, CC financing, etc. 2. Hazard risk and vulnerability 4. Network planning, assessment for stranded assets, circular planning economy Climate-informed land use Undertaken to inform the planning/zoning can be a powerful national climate change policy 3. Climate-informed tool for managing CC risk. and to inform land-use planning land use and zoning. Land use plans can permit or planning/zoning discourage certain land uses.







Advantages of Climate-Smart Preliminary Screening

Use project concept (note) development to:

- Demonstrate coherence with CS-PIP
- Identify choices of technology in the context of decarbonization and the energy transition
- Make a preliminary assessment of CC risk and identify where more indepth work – design and assessment - on adaptation will be required at appraisal

Carry out preliminary screening to:

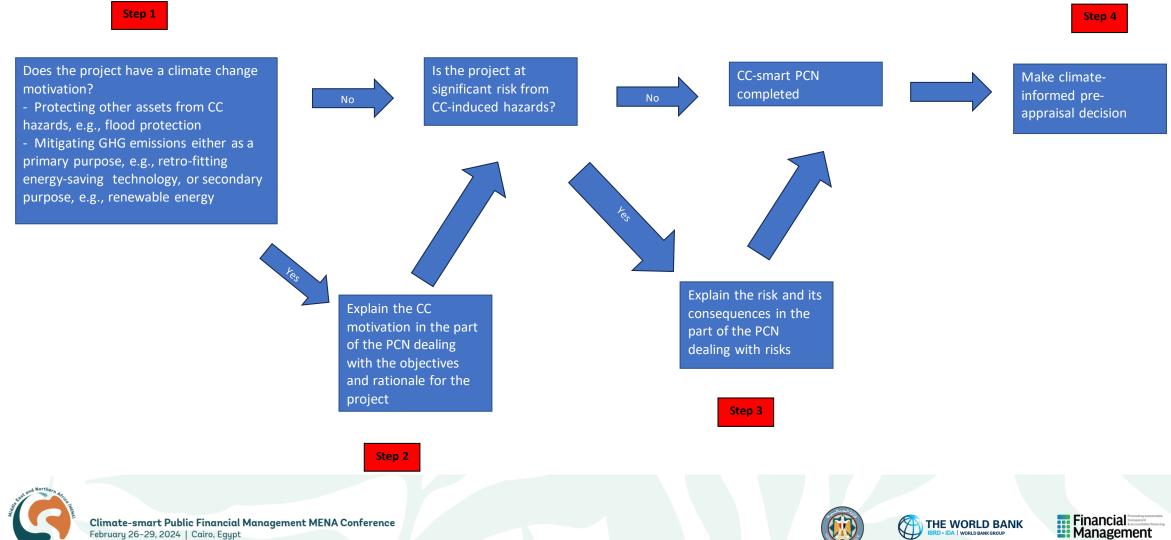
- Reject project concepts that are out of line with climate change policies (CS-PIP) or where building in resilience to climate change hazards is likely to come at too high a cost
- Guide climate-smart appraisal







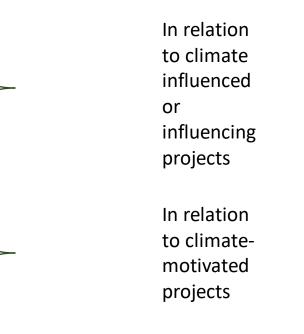
Step-wise Climate-smart Concept Development



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Using Social Cost-Benefit Analysis in CS-Appraisal

- i. Determining if adaptation is worth doing from the perspective of society
- ii. Accounting for the impact of a project on global GHG emissions so that climate-friendly options are given due weight in appraisal.
- iii. Appraising dedicated climate change mitigation or adaptation projects, including projects that involve premature decommissioning of existing assets in favor of lower carbon alternatives.



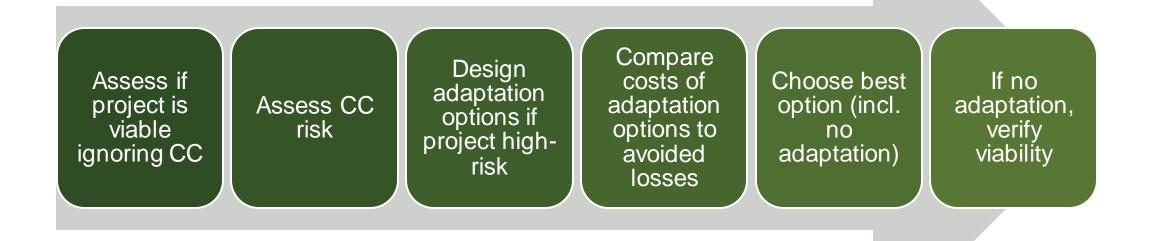






Climate Change Adaptation: Assessing Options

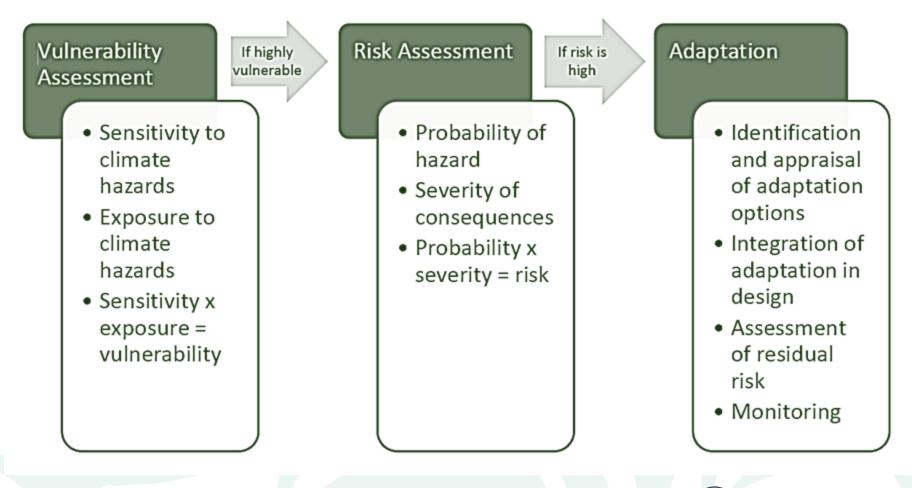
Adaptation can be vital for project success, but not all adaptation is worthwhile







Climate Change Risk Assessment





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Focus Scarce Resources Where They Can Count Most

	Probability	Rare	Unlikely	Probable	Likely	Almost Certain or Unknown
Severity	/	1	2	3	4	5
Insignificant	1	1	2	3	4	5
Minor	2	2	4	6	8	10
Moderate	3	3	6	9	12	15
Major	4	4	8	12	16	20
Catastrophic	5	5	10	15	20	25

Negligible Risk Low Risk Medium Risk High Risk Extreme Risk





Estimating the Benefits of Adaptation: Avoided Losses

- Losses from 2 sources:
 - damage to assets
 - economic losses
- Forecasting losses requires a view on the probability of a hazard occurring, but much uncertainty involved – lack of granularity and missing Paris target
- Assessing adaptation options under different climate change scenarios is one way of addressing uncertainty (see UK approach in next slide)
- 'No regrets' adaptation or the real options approach are other ways of dealing with uncertainty



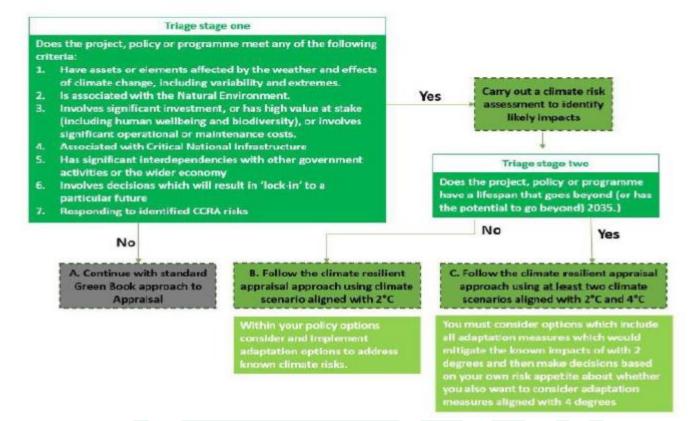




United Kingdom's Scenario-Based Approach

- The United Kingdom uses two climate scenarios, the first assumes 2C of warming and the second 4C of global warming.
- The effects on climate of different global warming scenarios are generated by a climate model.
- While the UK's scenario-based approach deals with some of the uncertainty surrounding the future evolution of climate change, information requirements are still demanding.

Figure 25 - Scenario-Based SCBA of Climate Adaptation Measures in the United Kingdom



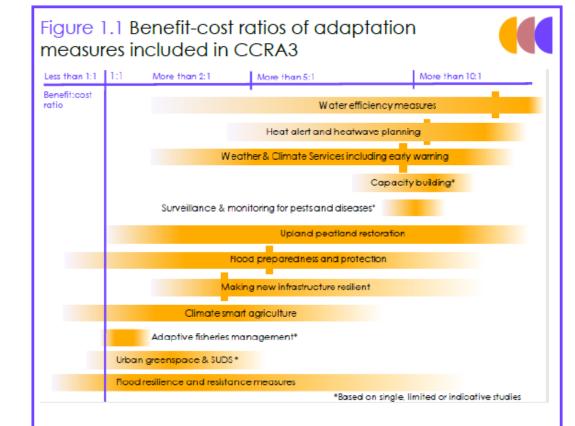


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Representative Benefit-Cost Ratios for Different Adaptation Measures



Source: 'Investment for a Well Adapted UK', UK Climate Change Committee, 2023

Source: Watkiss, P. and Brown, K.A (2021)

Notes: Figure shows the indicative benefit-to-cost ratios and ranges for a number of adaptation measures. It is based on the evidence review undertaken in the CCRA3 Valuation study, which was co-funded by the EU's Horizon 2020 RTD COACCH project (CO-designing the Assessment of Climate Change costs). Vertical bars show where an average BCR is available, either from multiple studies or reviews. The colour intensity demonstrates the concentration of evidence within the range of a BCR for adaptation measures. It is stressed that BCRs of adaptation measures are highly site- and context-specific and there is future uncertainty about the scale of climate change: actual BCRs will depend on these factors.



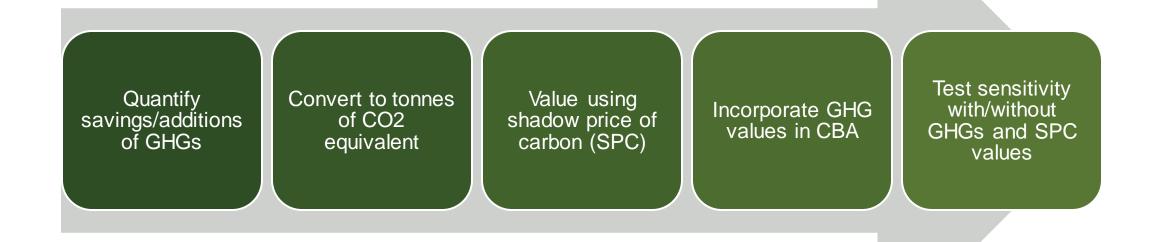
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Financial Promoting sustaina Baccountable for Management

Climate Change Mitigation: Accounting for Greenhouse Gas Emissions







Climate-smart Capital Budgeting

Climate-informed capital budgeting

- Climate-smart budgeting involves some specific criteria in addition to the general PIM selection criteria:
 - Demonstrated climate-change resilience in the project design
 - Consistency with government's international climate change commitments and obligations
- In France, this is written into the law: the Law on Energy Transition for Green Growth requires that the annual budget law is accompanied by supplementary information showing how public expenditure is contributing to the government's goals in reduce GHG's emissions.

Climate-informed budget coding and reporting: a climate budget tagging

- Climate change budget tagging involves identification, measurement, and monitoring of climate-relevant public expenditure, including spending on capital investment.
- Climate budget tagging only practicable where budget classifications identify programs and projects. Even more effective when the budget classification allows tagging at the level of program elements like components, activities, and outputs.







Climate-smart Implementation and M&E

Climate-informed implementation and procurement

- Requires more flexible procurement evaluation criteria for climate smart procurement, not just lowest price – most advantageous bid/best value.
- By using their purchasing power to choose goods, services and works with a reduced environmental impact, governments can make an important contribution towards sustainability goals, AND stimulate green technologies

Climate-informed M&E

- Monitoring is always important, but it is particularly so for projects that are vulnerable to climate change, given the level of uncertainty concerning the probability and severity of risks and the nature of the optimal adaptation response.
- Important for monitoring implementation of real options
- Monitoring is a continuous process, but formal evaluations at points in time are important to provide clear assessments of project performance and the emerging trends in relation to climate hazards.







Climate-smart Public Asset Management

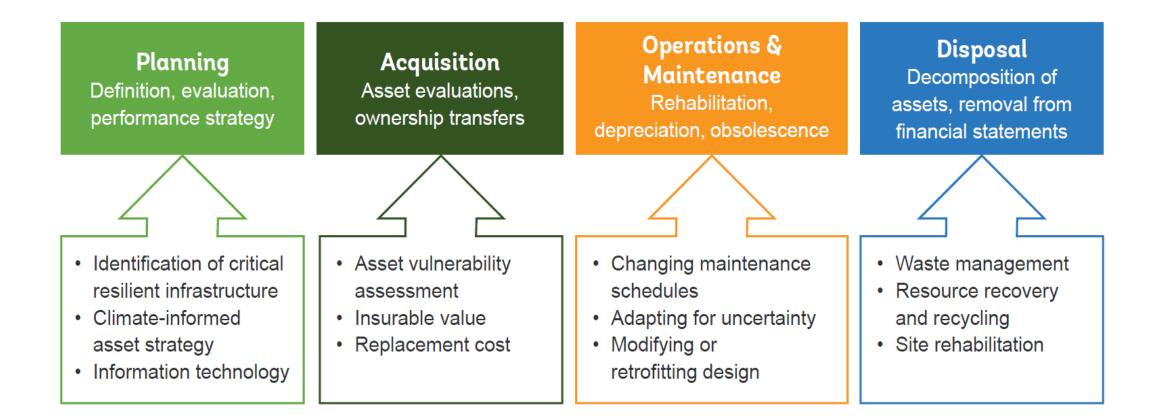
Traditional PIM typically focuses on flows, but climate change affects and is affected by the stock of public assets

- Necessary to focus also on the stock of assets and the pre-existing design and delivery of services. Designed for different world.
- Assets and services may need be re-appraised to determine their ongoing CC impact, and the behaviors they support
- Re-appraisal may throw-up issues of redesign (major or minor); and stranded assets.
- Climate informed asset registry
- Climate friendly adjustments to operations & maintenance changing maintenance schedules; adapting to account for uncertainty; changing technologies and approaches to reduce emissions





Making Public Asset Management Climate Smart











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