

# **Climate Toolkits** for Infrastructure PPPs







Creating Markets, Creating Opportunities



# SCENE SETTER

### The global impact of climate change is more obvious than ever

- Climate impacts from melting polar ice to fires, floods, droughts and hurricanes
- Loss of life and destruction affecting all parts of the developed and developing world and
  - Cascading impacts on the global economy, affecting business productivity, development, and employment

### Global pressure for climate action is growing

- The Paris Agreement and the COP27 in Egypt confirmed the global commitment to accelerate action particularly on adaptation
- WB's new climate action plan & other global initiatives are ramping climate actions in infrastructure
- The private sector, driven by its shareholders and new regulatory pressures, is making bold commitments to achieve net-zero emissions and invest in climate resilience by 2030 and 2050

## THE TOOLKIT

#### OBJECTIVE

To Describe a holistic, systematic, and integrated approach to support the development, selection, design, structuring, preparation, and tendering of climate-smart PPPs.

### CONTENTS



The toolkit discusses interactions and trade-offs among technical, economic, financial, and contractual decisions of a PPP project, and provides guidance on pressing questions.

#### INTENDED AUDIENCE



**Primary audience**: Client EMDE governments **Secondary audience**: WBG, other MDBs, DFIs, other development partners and stakeholders working in advisory services

# THE TOOLKIT ARCHITECTURE

### A MULTI-PHASE MODULAR APPROACH



#### **INTRODUCTORY PHASE**

Review enabling environment and policy frameworks for green/sustainable investments



Traditional PPP phases and tasks



#### PHASE 1 – PROJECT SELECTION

Project scope 
 Identify project alternatives Select project 
Assess economically the project

VfM as PPP; analyze the NDC – mitigation and adaption pathways to net zero



### PHASE 2 – PROJECT APPRAISAL

Preliminary design 

Test technical feasibility Socio-economic feasibility (or CBA) Assess bankability and affordability



#### PHASE 3 – STRUCTURING

Define the contract structure 

Risk allocation Finalize design, tech. requirements and output specs.; include KPIs and/or climate certification

PHASE 4 – TENDER Prepare RFQ/RPF 

Launch the tender 

Qualify bidders

# PHASE 1: PROJECT SELECTION AREAS OF GUIDANCE

- Translating Paris Agreement NDC commitments into pipelines of investments
- Understanding the impacts of climate on the project

**Climate Models** Global; Regional models; downscaling methods to obtain local climate information

**Economic Models** to understand the economic implications of climate change on the project & the broader environment

6000L

Hazard & Impact Models to account for exposure and vulnerability



# PHASE 2: PROJECT APPRAISAL AREAS OF GUIDANCE

- Understanding climate hazard projections, uncertainties, climate externalities and designing measures
- Assess **future climate hazards** using global and regional climate models
- Designing climate (adaptation + resilience+ mitigation) measures to account for climate variability
- **Technical Performance** is assessed over a range of plausible scenarios
- The selection of the preferred adaptation strategy is both a technical and a financial decision

### **Climate Scenarios**

### **Global projections** – RCP scenarios



**Regional/Local projections** 



# PHASE 3

Structuring Considerations

### **KEY QUESTIONS**

What are the nuances of climate risks from a contractual viewpoint?

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How does climate change affect traditional risksharing approaches and FM provisions?

Are there financial instruments , structures or amendments to the payment mechanism of PPPs to support financing of climate mitigation /adaptation works?

What technical design, KPIs and/or certifications should be included in the contract and tender documents to enable a PPP to tap into climate and sustainable finance?

# **AREAS OF GUIDANCE**

- Including climate KPIs, Targets in project documentation and tapping into climate/sustainable finance
- Introducing climate-smart output indicators (KPIs) to be included in reporting and enhance the ability to tap into climate and sustainable finance a rapidly growing market



### Introducing Standards & Taxonomies

### Design standards for increased climate resilience (including environmental and social safeguards)

- Each country will have **specific engineering, construction and built environment standards**, codes or rating systems focused on climate and disaster risk mitigation.
- Standards may vary regionally within countries.
- Many of these standards are often based on historical trends rather than future scenarios

### Task Force on Climate Related Disclosures (TCFD) -Framework

GOVERNANCE Disclose the organization's governance around climate-related risks and opportunities.	STRATEGY Disclose the actual and potential impacts of climate- related risks and opportunities on the organization's businesses, strategy, and financial planning	RISK MANAGEMENT Disclose how the organization identifies, assesses, and manages climate-related risks.	METRICS & TARGETS Disclose the metrics and targets used to assess and manage relevant climate- related risks and opportunities.
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### **Climate taxonomies & Rating Systems**

**EDGE** developed by IFC: evaluates location-specific, climate-related risks for a real estate project or portfolio

**SuRE** developed by GIB Natixis and Iseal Alliance: integrates

climate/environmental requirements for infrastructure projects

**Envision/FAST label:** Third-party rating system; identifies requirements of sustainable infrastructure; incentivizes higher performance beyond minimum requirements.

PHASE 4 Tender Process

### **KEY QUESTIONS**

How can the qualification/evaluation criteria incentivize the integration of innovation and green/sustainable practices during the project development?

) What is to be included in an RFP package to properly cover the climate aspects of the project?

What are the alternatives to the least cost approach? Are there ways to promote resilient infrastructure providers?

# HIGH-LEVEL VS. SECTOR-SPECIFIC TOOLKITS



