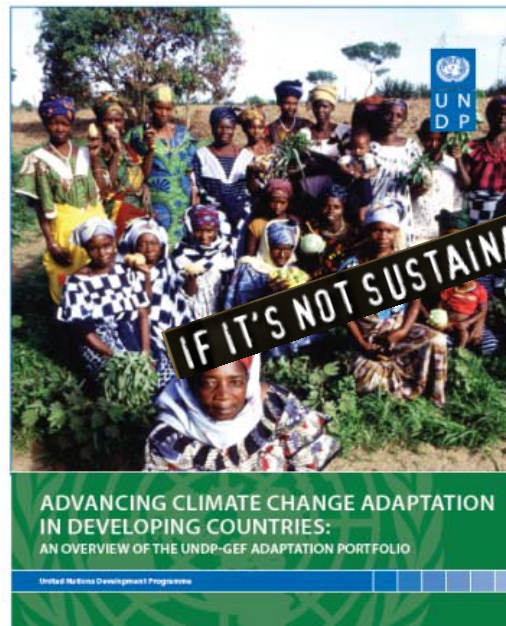




Financing the Transition to Low Emission and Climate Resilient Development



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Bangkok, Thailand



Charting a course away dangerous climate change: A shrinking window of opportunity

To keep within 2C threshold CO₂e concentration should stabilize at **450 ppm**

The UNDP 2007/2008 HDR estimated that the 21st Century carbon budget is set at **1,456 Gt CO₂**

A sustainable emissions pathway will require the world to cut emissions by at least **50 percent by 2050**

Global GHG emissions, Gt CO₂e per year

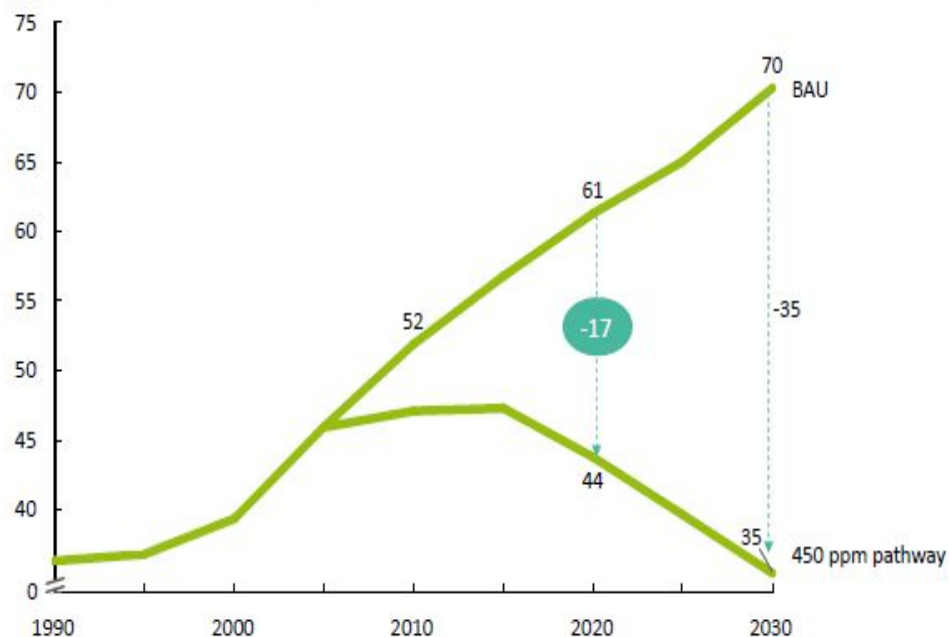


Fig. 3.1. 17 Gt of reductions below the reference pathway in 2020 are required to stay on a 450ppmv pathway. (Source: McKinsey Global GHG Abatement Cost Curve v2.0 (2009); M. G. J. Den Elzen and M. Meinshausen, *Multi-gas emission pathways for meeting the EU 2°C climate target*, 2006; IEA World Economic Outlook 2007; Project Catalyst analysis)

Costs of Managing Climate Change in Developing Countries

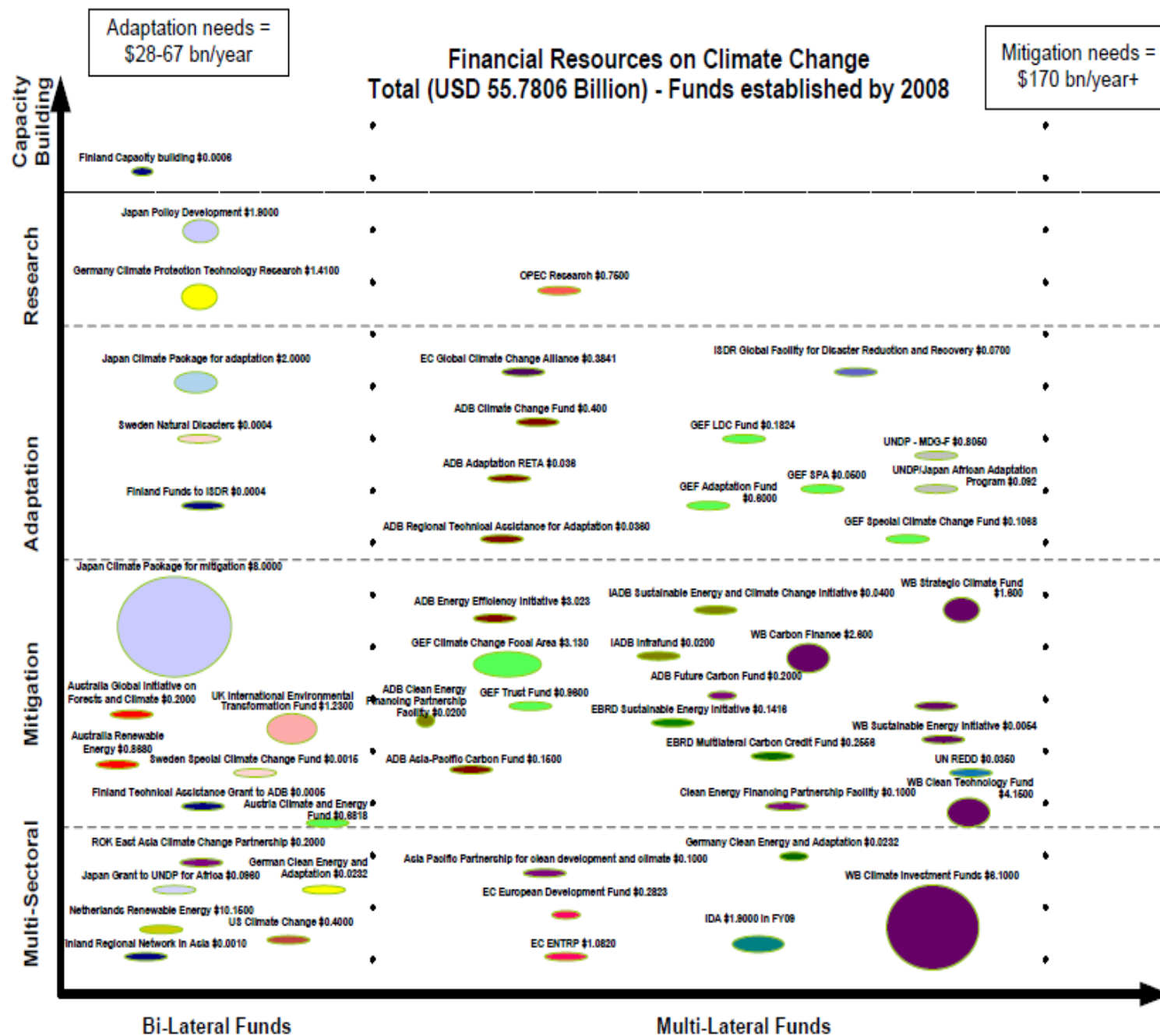
US \$100 billion
per year by 2020



Costs of Adaptation (World Bank and UNFCCC, \$billions to

Sector	UNFCCC (2007)	EACC Study Scenario	
		NCAR (wettest)	CSIRO (driest)
Infrastructure	2-41	27.5	13
Coastal zones	5	28.5	27.6
Water supply and flood protection	9	14.4	19.7
Agriculture, forestry, fisheries	7	2.6*	2.5*
Human health	5	2	1.5
Extreme weather events	—	6.7	6.4
Total	28-67	81.5	71.2

Source: EACC, WB 2010



Consolidated overview; UNEP - 2009 NOTE: This includes only those Funds that have specific institutions attached. It does not include all private venture capital, innovative financial mechanisms, voluntary carbon markets, and private foundations.



Potential Sources of Innovative Climate Finance

1. Public finance from climate sources

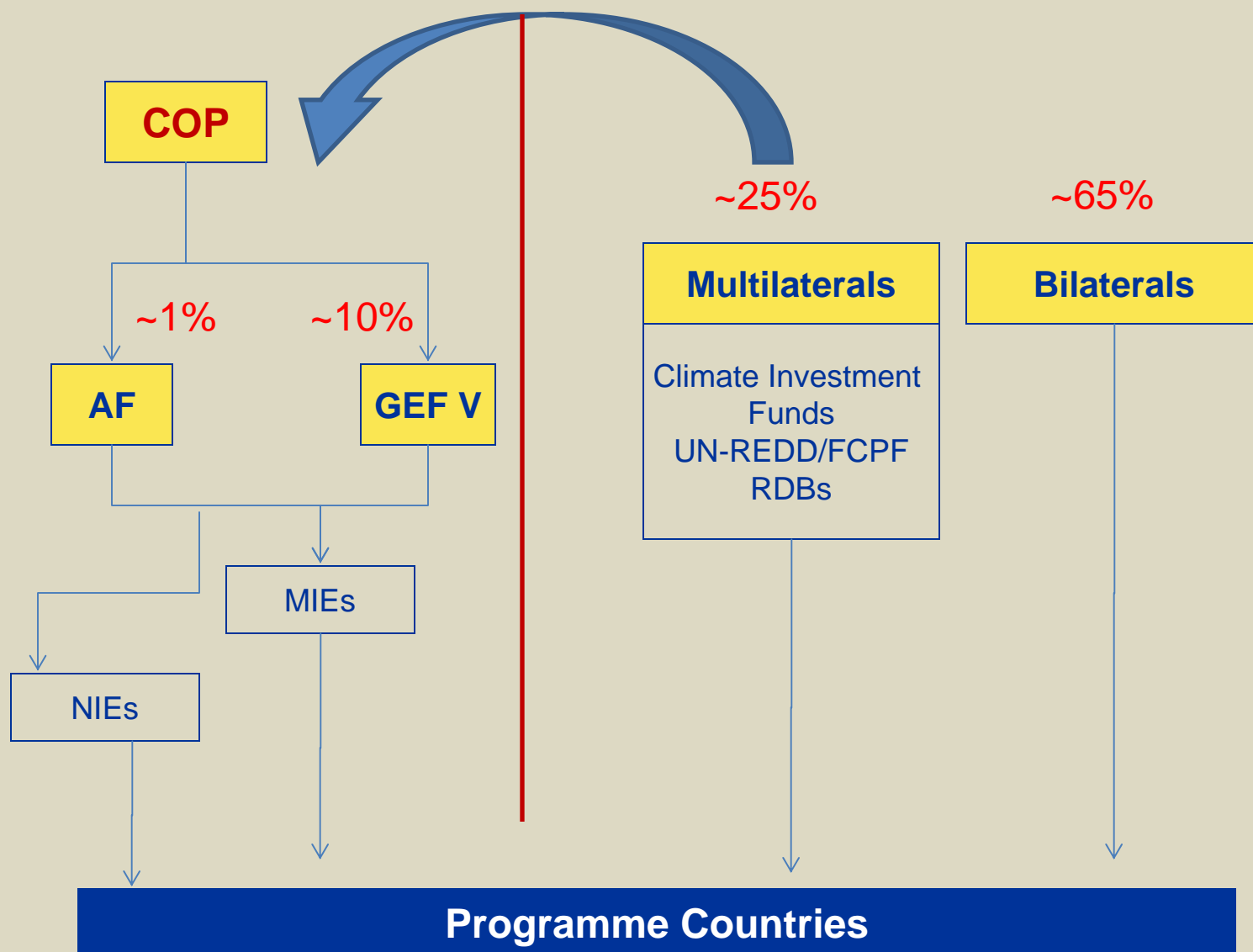
- Phase out of regressive fossil fuel subsidies
- Fossil fuel extraction royalties/licenses
- AAU auction proceeds
- Emission Trading Schemes (ETS) auction proceeds
- Carbon taxes/Carbon export optimization taxes
- Marine and aviation/bunker fuel levies
- Offset levies
- Wires charge on electricity production

2. Public finance from non-climate sources

- 'Tobin' tax, taxing revenues from financial transactions
- Leveraging of IMF Special Drawing Rights



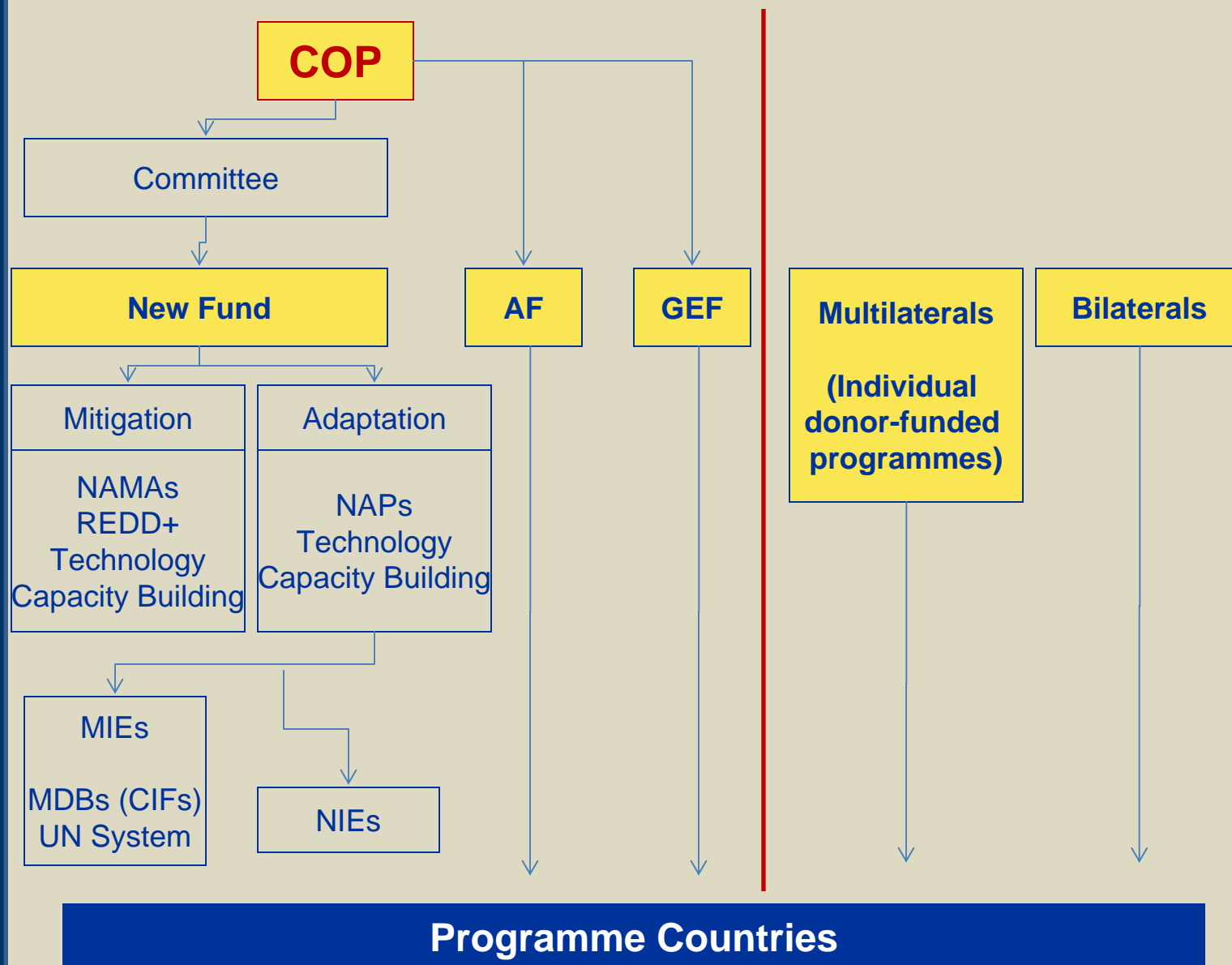
Public Climate Finance Landscape



Source: Simon Billet, UNDP, 2010



The Evolving UNFCCC Funds Architecture



Source: Simon Billet, UNDP, 2010

Sources of Finance for Adaptation



GLOBAL ENVIRONMENT FACILITY
INVESTING IN OUR PLANET

Least Developed Country Fund

Available: \$130m

Over \$150 million after December

**Funding Approvals:
\$190m**

(Only for LDCs)

Source of Funding

Replenished Voluntarily Donor Contributions

**2010-2014 Expectation
\$500m**

Governance

GEF LDCF/SCCF Council

Special Climate Change Fund

Available: \$22m

(reflects pledged amounts)

**Funding Approvals:
\$112m**

(For all non-annex 1 Parties)

Source of Funding

Replenished Voluntarily Donor Contributions

**2010-2014 Expectation
\$250m**

Governance

GEF LDCF/SCCF Council



Adaptation Fund

DIRECT ACCESS

Available : \$164m

(as of Sept 21, 2011)

**Funding Approvals:
\$76m**

(For all Parties to Kyoto)

**Source of Funding
CER Sales**

**2010-2012 Expectation
\$300-400m**

**Governance
AF Board (Parties)**



Sources of Finance for Adaptation (continued)

Least Developed Country Fund

Available: \$130m

Over \$150 million after December

**Funding Approvals:
\$190m**

(Only for LDCs)

Source of Funding

Replenished Voluntarily Donor Contributions

**2010-2014 Expectation
\$500m**

Governance

GEF LDCF/SCCF Council

- Established under the UNFCCC in 2001
- **Top priority:** financing the implementation of National Adaptation Programmes of Action in Least Developed Countries
- Support projects addressing the **urgent and immediate adaptation needs of LDCs**
- **Key sectors:** water, agriculture and food security; health; disaster risk management and prevention; and infrastructure, as identified and prioritized in their National Adaptation Programmes of Action.
- Proposals reviewed and approved by the LDCF/SCCF Council on a rolling basis throughout the year



Sources of Finance for Adaptation (continued)

Special Climate Change Fund

Available: \$22 m

Over \$80 million after December

**Funding Approvals:
\$130m**

(For all non-annex 1 Parties)

Source of Funding

Replenished Voluntarily Donor
Contributions

**2010-2014 Expectation
\$250m**

Governance

GEF LDCF/SCCF Council

- Established under the UNFCCC in 2001
- Top Priority: support the implementation of adaptation actions in **non-annex I parties**.
- The Parties to the UNFCCC identified **adaptation to climate change** as the **top priority of the SCCF**.
- The SCCF serves as a catalyst to leverage additional resources from bilateral and other multilateral sources.
- Proposals reviewed and approved by the LDCF/SCCF Council on a rolling basis throughout the year



The Adaptation Fund

Available (as of June 30, 2011): \$164m

Funding Approvals:
\$76m

(For all Parties to Kyoto)

Source of Funding
CER Sales

2010-2012 Expectation
\$300-400m

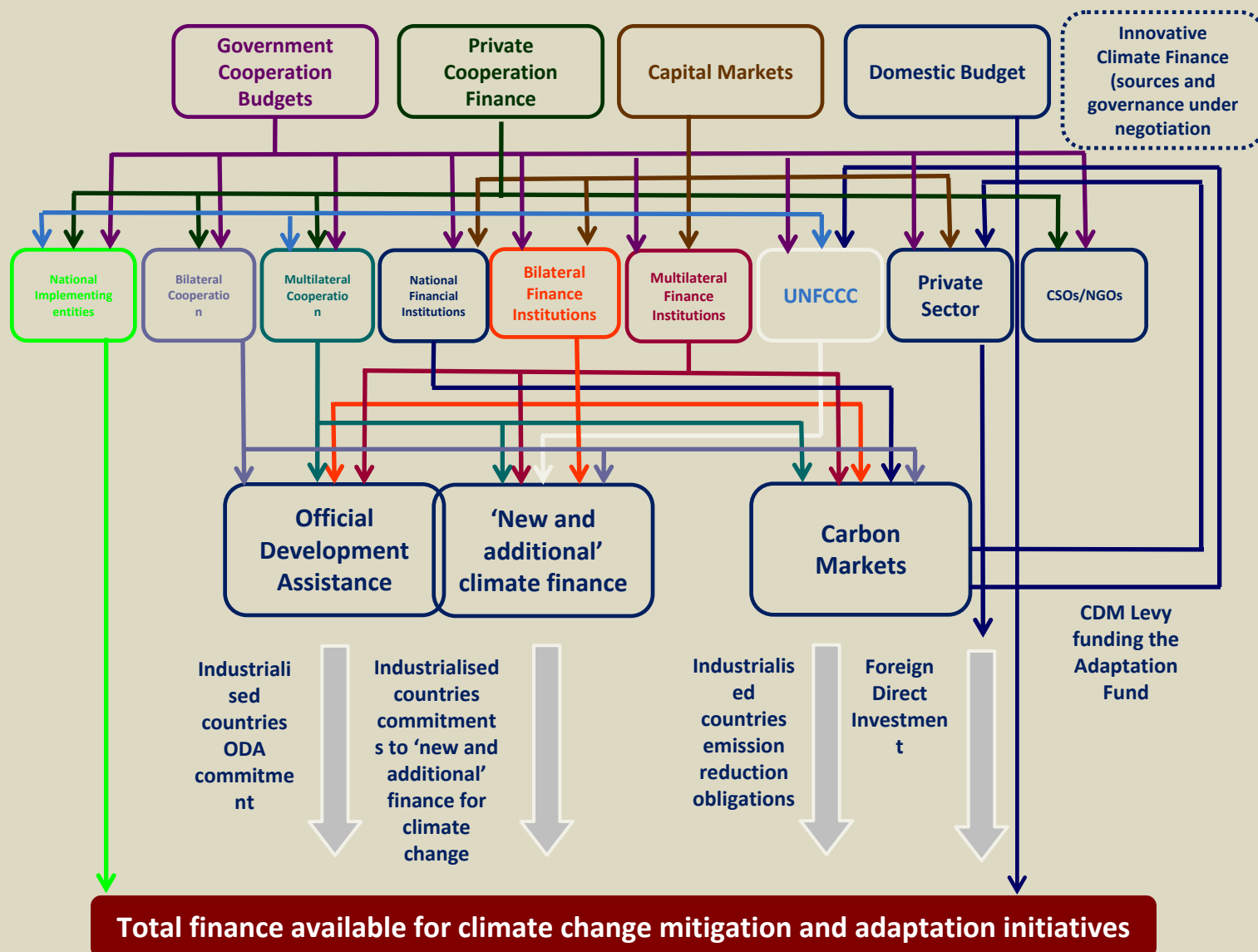
Governance
AF Board (Parties)

Sources of Finance for Adaptation (continued)

- Established by the Parties to the Kyoto Protocol (UNFCCC)
- Key priority: to finance **concrete adaptation projects and programmes** in developing countries that are Parties to the Kyoto Protocol.
- **Source of funding:** financed with 2% of the Certified Emission Reduction (CERs) issued for projects of the Clean Development Mechanism (CDM) and other sources of funding.
- Two modalities for accessing resources:** National Implementing Entity or Multilateral Implementing Entity
- Implementing entities (IEs) accredited**
 - National IE (direct access) 6: Jamaica, Belize, Uruguay, Benin, South Africa, Senegal; Regional IE 1 BOAD
 - Multilateral IE 9 ADB, AFDB, IFAD, UNDP, UNEP, WFP, World Bank, WMO, IDB

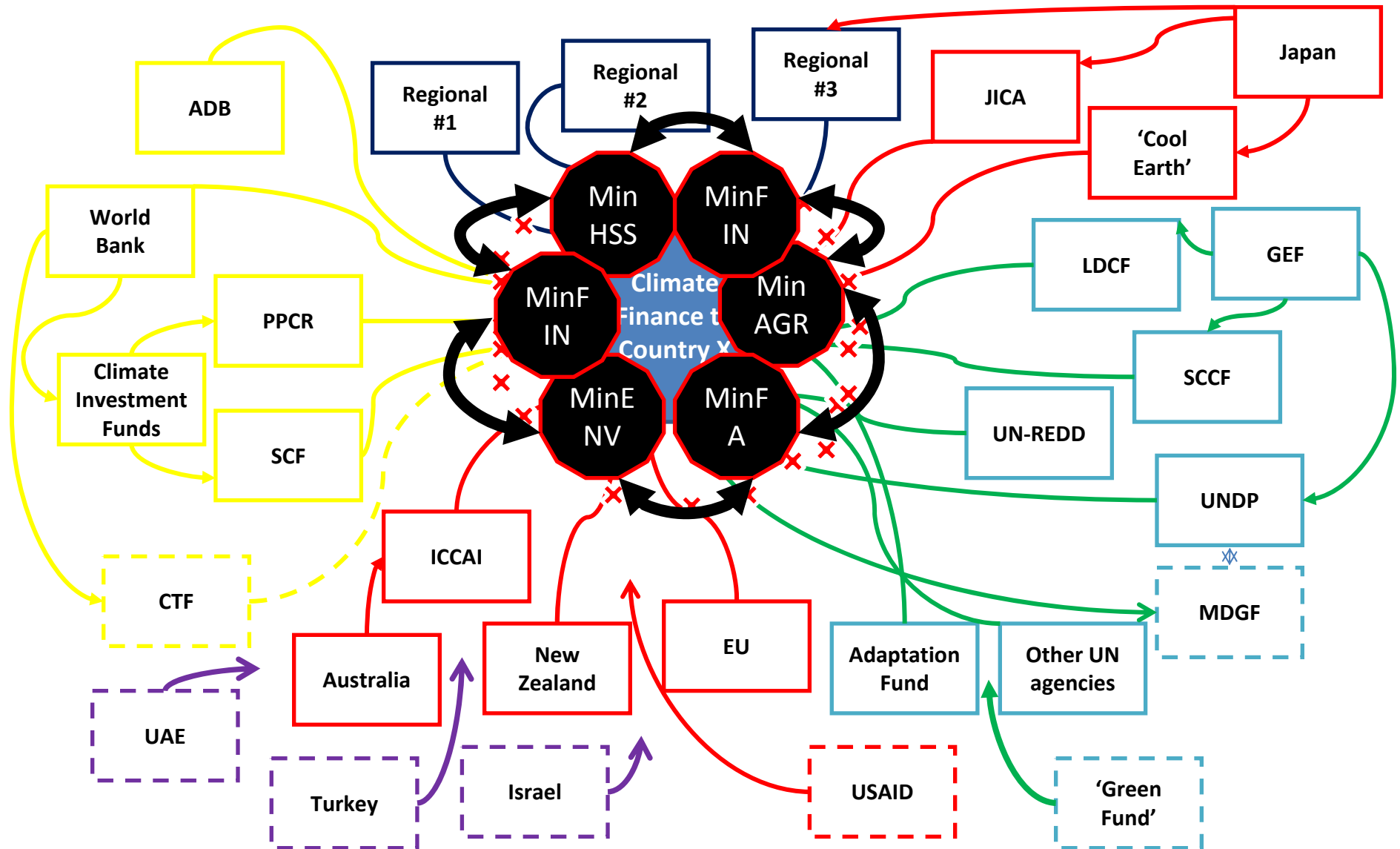


Climate Change Finance: Sources, Agents and Channels



Source: Adapted from SEI 2009

From country perspective



Key Challenges in Climate Finance

- **National Ownership and Synergies between Development and Climate Finance**
- **Catalytic Use of International Public Finance**
- **Balanced and Fair Access to Finance**
- **Coordinated Implementation and Reporting Mechanisms**

Challenge #1: National Ownership and Synergies between Development and Climate Finance

- **National ownership is the key prerequisite** for effective action to combat climate change
- **Alignment of proposed activities with national and local priorities and needs**
 - This alignment is critical to ensuring synergies between climate and development finance
- Climate change finance **framework should be able to support a country-driven, development-oriented transformation of the economy** in the face of great climate uncertainty
- Objective: to **create a double dividend** of both climate and development impacts
 - In practice, this equates to the internalization of climate change response into national development processes

Challenge #2: Catalytic Use of International Public Finance

- **Actual scale of investment needed is immense**
- Such climate change investments can often be **commercially attractive**
 - It is estimated, for example, that energy efficiency in transport, buildings and industry could reduce energy bills by over \$8.6 trillion globally over the period 2010-2030
- The **bulk of climate investment will ultimately be made by business, households and national governments**
 - The IEA (2009) estimates that approximately 40% of the global additional investment needed in 2020 will come from households, 40% from businesses and the remainder directly from governments
- A key objective of an climate change finance **frameworks should be to enable countries to establish the optimal mix of policy and financing tools to reduce regulatory uncertainty and investment risks**

Challenge #3: Balanced and Fair Access to Finance

■ Access currently is uneven

- Although an estimated 575m people still rely on traditional biomass for cooking in Sub-Saharan Africa, the region accounts for less than 1% of total private investment in clean energy
- Similarly for most new market-based sources of climate change finance (export credits, green bonds, weather derivatives, etc.)

- **Uneven access to financial resources could worsen in the coming years** as climate change financing shifts from project-based to programmatic / sector approaches and as the innovative sources of funds multiply

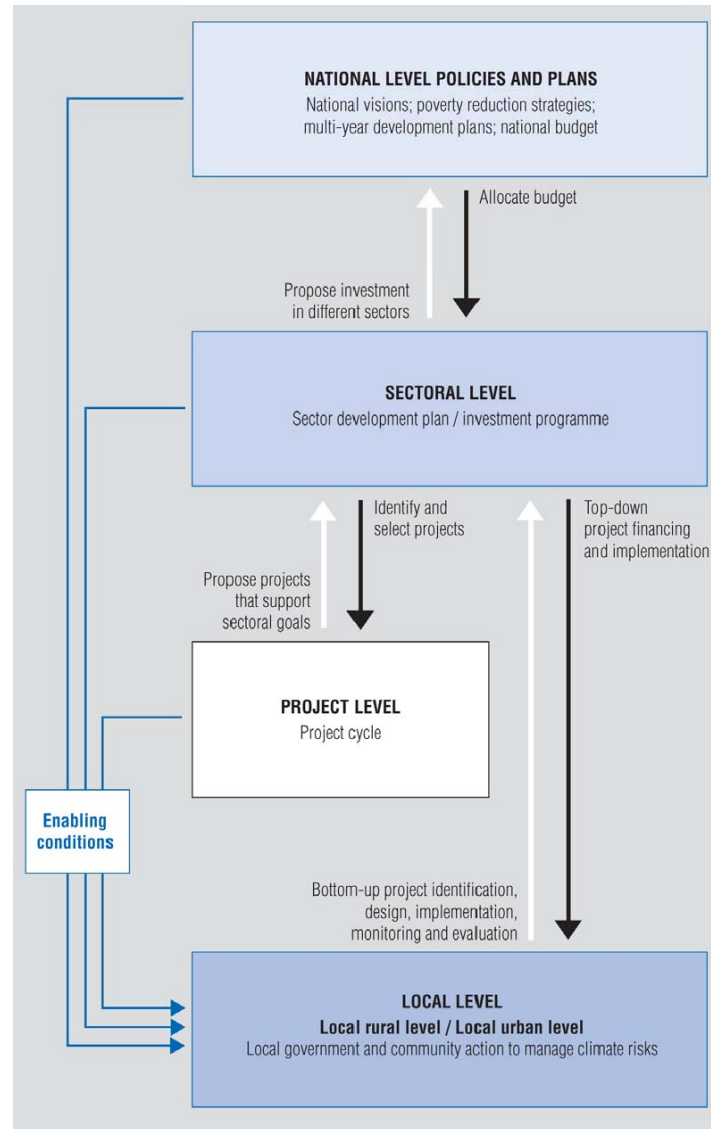
■ political discussions of balanced and fair access to public financing

Challenge #4: Coordinated Implementation and Reporting Mechanisms

- Climate finance required will entail an **unprecedented level of implementation and reporting complexity**
- National **climate change activities will need to be updated** on a regular basis
- A **monitoring framework will need to be put in place** to assess progress and evaluate the need for remedial measures and new strategic approaches
- Climate finance framework will need to encourage coordinated, effective implementation and reporting to
 - **Avoid duplication and fragmentation**
 - **Inform the formulation of several generations of strategies, programs and projects**
 - **Optimize** the use of international finance

Mainstreaming Climate Change at National Level

- Stand alone adaptation not likely to be sufficient
- Will also need to internalize climate change risk management as part of a broader suite of measures within existing development processes and decision cycles
- At all levels (national, sectoral and local)



Source: OECD (2009) *Policy Guidance on Integrating Climate Change Adaptation into Development Co-operation*

Emerging Trends

National and sub-national Governments able to attract and direct public and private investment towards catalyzing and supporting sustainable economic growth



Supporting Low-Emission Climate Resilient Development

Develop LECRD Strategies

Establish Enabling Environment

Generate and Share Knowledge

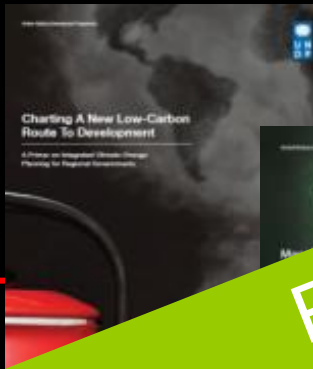
Catalyse Finance

UNDP Support

- Technical and Policy Advice
- Developing and Applying Methodologies
- Oversight and Financial Management
- Training
- Multi-stakeholder Dialogues
- Convening and Coordination

Do you believe in a low-carbon, poverty-free future for everyone on the planet?
We do.

Addressing barriers to Low Carbon & Climate Resilient Development Strategies



Reducing Risks
Managing Uncertainty
Promoting Green Jobs



Partnership & Coordination Structure

Climate Change Impact Scenarios

scenarios
scenarios
scenarios

Adaptation Scenarios

Identification of priority M&A options

Assessment of financial flow requirements and additional costs

Identification of possible policies and financial instruments to implement priorities

Climate Change Policy & Investment Roadmap

Facilitating national transition to low emission and climate resilient development

Low Carbon
Economic
Development

Access
US\$

Global/
Regional
GEF
SGP
SCCF
MDG/CF
MP
ICI
RBLAC
Bilateral
GC
AGF
AF
TTF
UNDP
Local
WB
IDB
Gvnmnt

Implementation of Sectorial Policies and Consensus Towards a Low Emission and Climate Resilience National Plan

Objective:
Support market transformation towards low-emission economies

Objective:
Promote climate resilient economies and ecosystems

Sustainable
Transport

Energy
Renewable
and
efficiency

Low
emission
tech.

Infra-
structure
and
Climate
Change

LULUCF
/SFM
Mitigation/
Adaptation

Sector
based
adaptation

Ecosystem
based
adaptation

Increasing
ecosystem
resilience
to CC

Biodiesel train
model

Cost Analysis
of Adaptation
in Railroad
Transport.

National
Railroad
Infrastructure

Feasibility of
forestry
energy

Bioenergy
Development
in North-East
Region

Mitigation
Cost Analysis
in agriculture

Mitigation in
Rural
production
systems.

Vulnerability
analysis of
public
investments

Climate
proofing
infrastructure

Gran Chaco
Subregional
Program

Forests &
biodiversity

UN REDD
Observer

Energy
Adaptation
Cost Analysis

Rural
Adaptation
Cost Analysis

Rural
Adaptation
Intervention
Framework

Payment for
Ecosystem
services

Land Use on
Yungas
Ecosystem

Marine
Protected
Areas

Fresh-water
fisheries

Conserving
agro-BD
Patagonia

FREPLATA

Take Home Messages

- **Multiple funding windows** – Emerging CC architecture; Need strategy to access
 - **Private finance** expected to dominate over public finance (Businesses and households will account for over 80% of the additional climate investment required in 2020).
 - **Direct Access** – new and emerging reality in parallel to option of access through **Multilateral** Instruments
 - Internally **coordinated and holistic solutions** (integrated adaptation/mitigation/ ecosystems resilience); multiple benefits (promote synergies between development, climate and ecosystems finance)
 - Use limited sources of public finance to **catalyze much larger private flows.**
 - **Prepare countries to benefit** from emerging architecture
- (Low Emission Climate Resilient Development Strategy)**



CLIMATE

IF HIGHER TEMPERATURES LOWER OUR CROP YIELDS, IS THAT DEVELOPMENT?



As the global climate changes, the world's poorest people are the hardest hit. More frequent droughts and floods, increasingly intense storms, and slow-onset, long-lasting changes such as rising temperatures are expected to lead to the progressive loss of crucial crop spaces, declining soil fertility, and shortages in water supply, threatening food security, livelihoods and job opportunities in rural communities.

That's not sustainable.

That's why the United Nations Development Programme is helping countries develop the capacity to transform their national and sub-national rural development strategies and institutional frameworks to the pursuit of low carbon, climate-resilient paths out of poverty. Securing the environmental basis of human well-being is crucial to reducing poverty. It's just part of what UNDP delivers on the ground through our 135 Country Offices throughout the developing world.

IF IT'S NOT SUSTAINABLE, IT'S NOT DEVELOPMENT.

UNDP

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