

Climate compatible development

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What's the problem?

2 C not realistic

40% gap in mitigation pledges to achieve 2 C

200mn people displaced

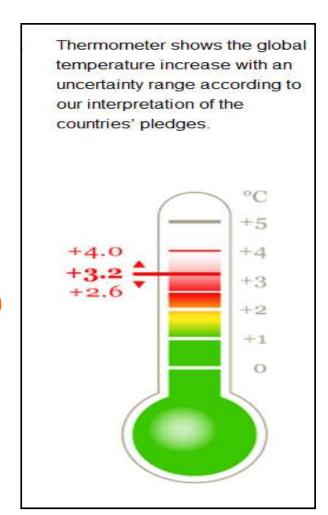
Tuvalu runs out of water this week

20-30% of species at risk of extinction

Reduce emissions per productive unit 8 times by 2050

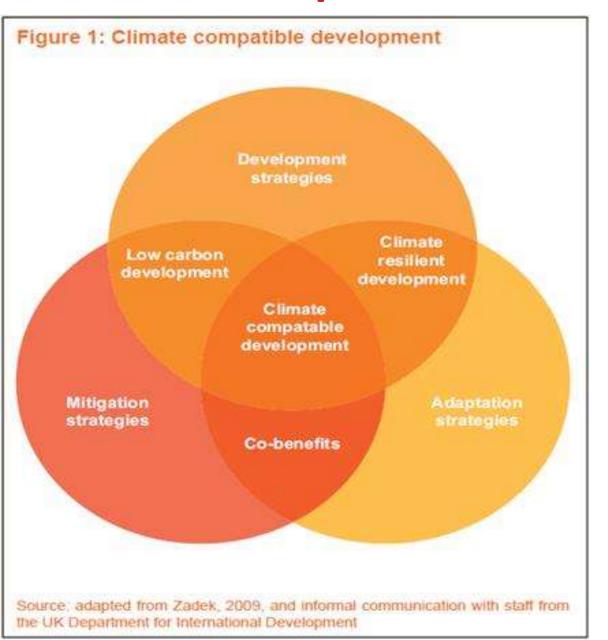
Poor political conditions – in US and elsewhere

Nauru going to International Court of Justice





Climate Compatible Development



'Climate compatible
development' means
development that minimises
the harm caused by climate
impacts, while maximising
the many human
development opportunities
presented by a low
emissions, more resilient,
future.



Dimensions of Change

Changes in institutions and institutional capacity to respond to CCD needs and demands

Changes in the understanding and commitment of decision makers around CCD issues

Changes in quality relevance and usability of CCD evidence base

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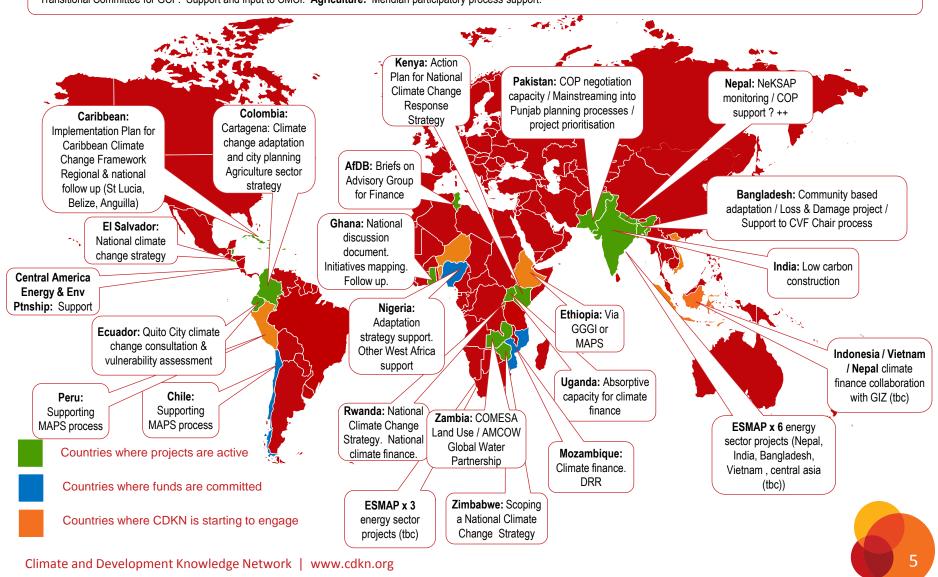
Changes in coordination, collaboration and mobilisation amongst key CCD stakeholders

> Changes in the ability of decision makers to leverage and channel CCD resources strategically

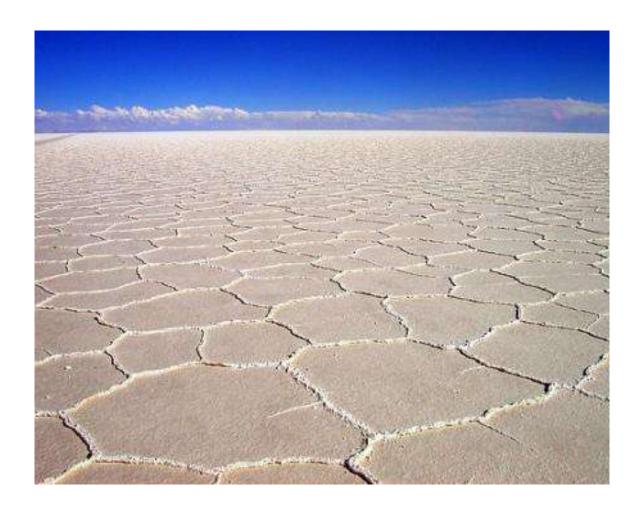


CDKN portfolio

Global: CCD: Comparative analysis of CCD methodologies & tools - user guide for decision-makers. LEDS Global Partnership. Green Growth Best Practice Initiative. Finance: Support to Transitional Committee for GCF. Support and input to CMCI. Agriculture: Meridian participatory process support.



Climate compatible development: where and why?





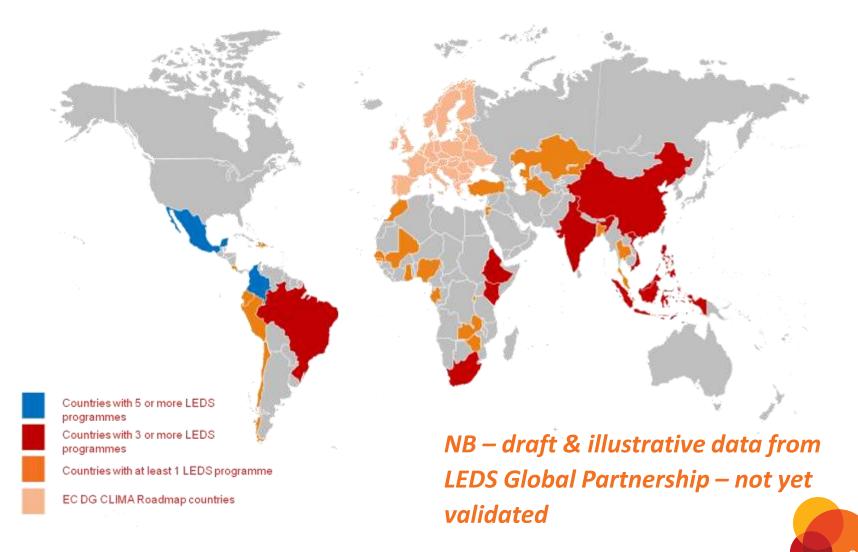
Climate Smart Agriculture

- Need to feed 9bn people by 2050
- Sector most vulnerable to climate change: 10-12% average crop losses in Africa by 2050
- > 14% of global GHG from agriculture
- ➢ Green growth in Africa depends on agriculture − 30% of GDP and 60% of workforce
- Triple win of climate smart agriculture
 - Increased productivity and food security
 - Increased resilience
 - Reduced emissions
- Examples at scale:
 - Low till agriculture in Zambia, Brazil and Canada
 - Agroforestry in Niger
 - Soil fertility and landscape restoration in China's loess plateau

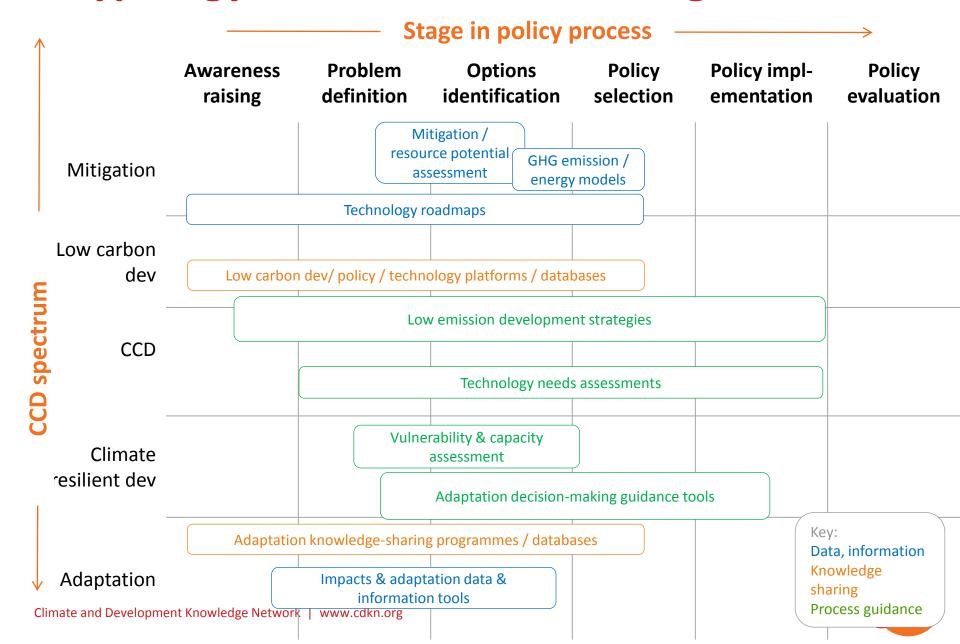


Mapping different CCD programmes

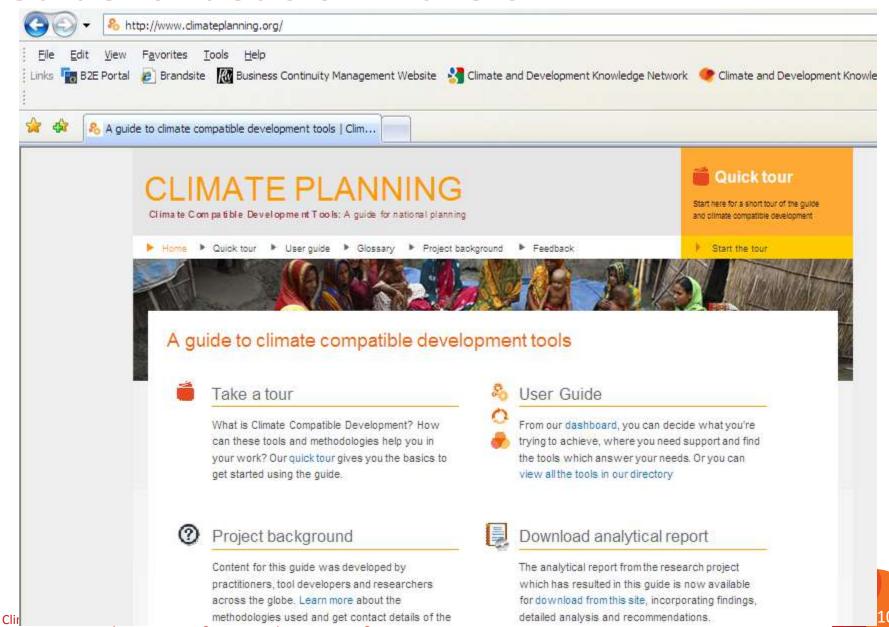
Many countries have several programmes – why?



A typology of tools & methodologies



Guide for decision-makers



CCD planning process

Vision

Guiding principles (e.g. Economic growth, poverty reduction, gender equality)

Sectoral action (e.g. Agriculture, transport, health)

Strategic pillars enabling framework e.g.

Governance

Policy & regulatory

NAMAs NAPs MRV

Finance

Research & technology transfer

Capacity building

Baseline, evidence & analysis (e.g. Emissions inventories, vulnerability assessments, scenario-based macroeconomic low carbon & climate resilient pathways)

Participatory and political process involving wide range of stakeholders

	National	International
Incentive and regulatory	Climate Change Act	New post-Kyoto international targets
framework	Independent Climate Change Commission	International cap and trade
	Low carbon transmission plan or roadmap	International carbon tax
	National cap and trade	International standards for fuel efficiency
	Carbon tax	and emissions
	Portfolio regulation of energy companies	Extend emissions targets to aviation and
	Targeted tax incentives for private sector R and D	shipping
	Regulate emissions from vehicles	Regulate trade (e.g. in forest products)
	Regulate other emissions	New international treaties on water
	Strengthen forest law to reduce deforestation	sharing
	Strengthen planning laws on housing design and	
	location	
	Decoupling utility profits from gross sales	
Public expenditure	Increase R and D budget	Fund N-S technology transfer
•	AMCs for renewable technologies	Fund S-S cooperation
	Subsidise retro-fitting of buildings	Extend scope of CDM
	Subsidise new technologies (e.g. CCS)	Regional risk facilities
	Subsidise renewables at domestic level	
	Provide subsidies to offset fuel poverty	
	Extend social protection for vulnerable groups	
	Invest in strengthening critical infrastructure	
	Invest in new infrastructure	
	Subsidise insurance mechanisms	
	Cut traditional fuel subsidies	
	Improved extension and entrepreneurial	
	education	
	Education and consumer benchmarking	

RWANDAN: GREEN GROWTH AND CLIMATE RESILIENCE STRATEGY

Vision 2020 <u>objectives</u>: middle income country by 2020: 9% p.a growth transformation of economy to high-value agriculture to industry and services

Climate change <u>impact</u>: up to 2.5 degrees hotter and up to 20% higher wetter by the mid-2050; 1% of GDP annual loss by 2030

Climate-resilient and low carbon economy strategy includes:

- Geothermal energy to reduce dependence on imported oil, which currently costs
 4.7% of GDP potential of 700MW (cf current electricity generation of only 95 MW)
- Reduced dependency on imported inorganic fertilisers
- High density, walkable cities
- Irrigation infrastructure
- Robust road network
- Improving climate data and evidence for policy-making.



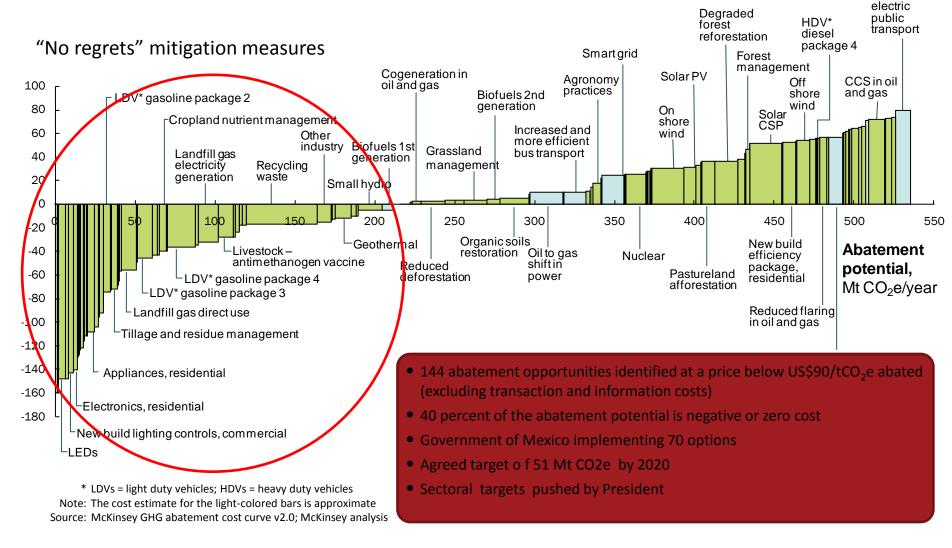
Low Carbon Growth is the growth story

- Renewable industry \$US 250 bn a year (2010) growing at 30% a year.
- Global renewables investment is about the same as in fossil fuels.
- Prices come down as a result: for solar, doubling in volume reduces cost by a factor of 2
- Chinese 12th 5 Year Plan low carbon areas; renewables and clean tech growth targets; national carbon price and emissions trading
- Denmark 40% emissions reductions by 2020; carbon neutral by 2050;
- Korea 30% reductions by 2020; national emissions trading scheme
- Mexican Low Emissions Development Strategy adaptation, mitigation and economic growth



GHG Abatement Cost Curve for Mexico in 2030 (USD/t CO₂e)

Increased



Global Deal Matters - UNFCCC Negotiations

Political conditions for a deal not before....???

Durban could achieve something:

- arrangements for Green Climate Fund
- agreement on a Technology Mechanism
- bringing order on adaptation mechanism.

Challenges

- Delay increases the cost of adaptation and mitigation
- Kyoto expires 2013; possible in principle agreement for Second Commitment Period but without some key countries
- Differences on finance
- Making finance real—delivering the \$100bn with private and public money.

Global Deal Matters - UNFCCC Negotiations continued...

Global negotiations matter because

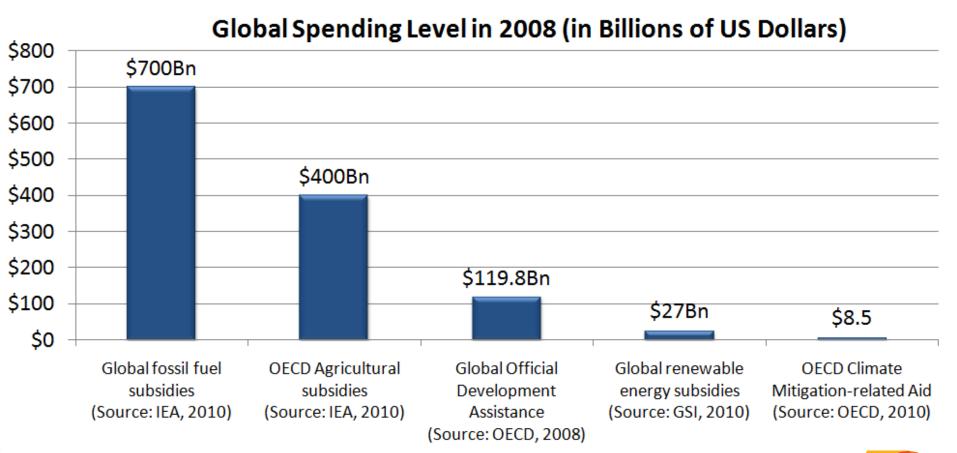
- it's a global problem!
- set and promote national standards and incentives

Success in spite of lack of deal:

- Poorest countries financing their own adaptation (eg Nepal 8% of govt expenditure; 50% own resources)
- 80 countries have FITs
- Growth of renewables



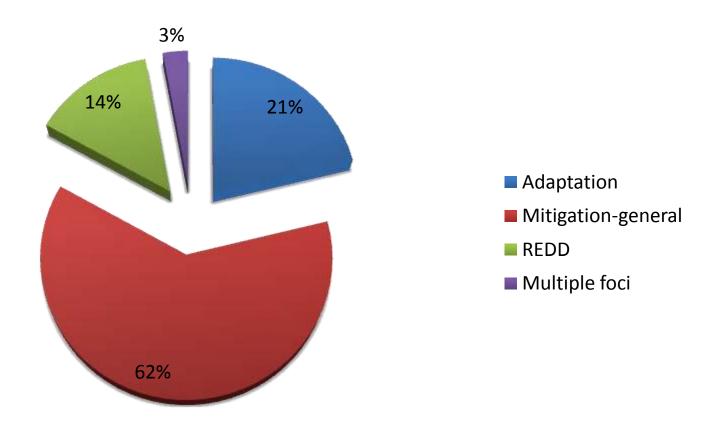
Comparing Climate Finance with other flows

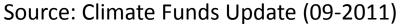


Demand: Costs of Adapting to Climate Change

Source	US\$ billion p.a.	Comments
World Bank (2006)	9 - 41	Cost of climate-proofing FDI, GDI and ODA flows
Stern (2006)	4 - 37	Update, with slight modification of World Bank (2006)
Oxfam (2007)	> 50	Based on World Bank, plus extrapolation of costs from NAPAs and NGO projects
UNDP (2007)	86 - 109	World Bank plus costing of PRS targets, better disaster response
UNFCCC (2007)	49 - 171	\$28-67 Billion of this would be in developing countries. Sectors such as mining, energy, retail, finance and tourism were not included.
World Bank (2009)	75 - 100	Higher estimates under the wetter NCAR scenario than the drier CSIRO scenario
Parry <i>et al</i> . (2009)	~100 - 500	Includes estimates for mining, finance and other sectors + adaptation deficit

Distribution of Funds







Pledges vs. Disbursement





Applications to CCD: a six step programme

- 1. Both international and national action is needed
- 2. Economy wide approach growth/industrial policy.
- 3. Finance is key especially for LDCs
- 4. Emphasise win-wins, co-benefits and action in sectors e.g. Energy efficiency; renewables, Climate smart agriculture, reduced pollution, energy security.
- 5. Build and use civil society e.g. 'reverse lobbying'.
- Leadership national and international private and public sectors.



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