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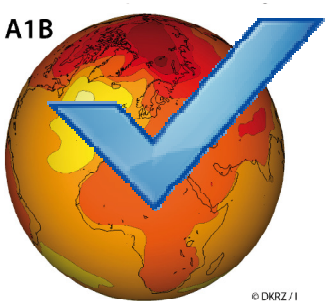
Integrating Climate Change into Development Cooperation

GTZ Climate Check



Lorenz Petersen, gtz

Why a climate check?

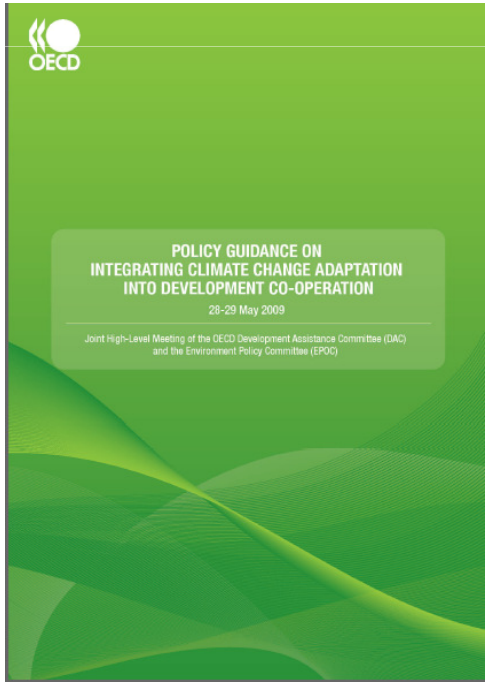
- **BMZ-Climate Action Programme**
  - ***„… systematic assessment of climate risks in all relevant programmes, and if necessary adaptation.“***
  - ***„All… programmes and projects are assessed in regard to their impacts on the climate – and if necessary in regard to their need for modification – in the future.“***

BMZ Directive Aug 2009

- Obligatory Climate Check for all German Implementing Agencies
  - Climate Screening (Sep 2009)
  - Sector Strategy Papers (SSP) (Jan 2010)
  - Detailled Climate Check (Aug 2010)
    GTZ starting with voluntary checks (Jan 2010)

OECD Policy Guidance on Integrating Climate Change adaptation into Dev. Cooperation

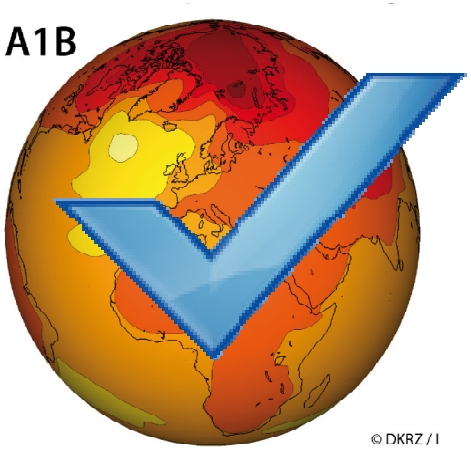
- Intended for **policy makers and practitioners** in both donor countries and developing countries
- Based on principles of *Paris Declaration on Aid Effectiveness*
- Suggested **approaches** to integrating adaptation, addressing four levels of decision making:
    1. National
    2. Sector
    3. Project
    4. Local



GTZ Climate Check - objectives

- **Climate Proofing** = systematic climate risk reduction & increase of adaptive capacity
- **Emission Saving** = systematic maximisation of contributions to GHG reductions

- Broad awareness raising on climate challenges



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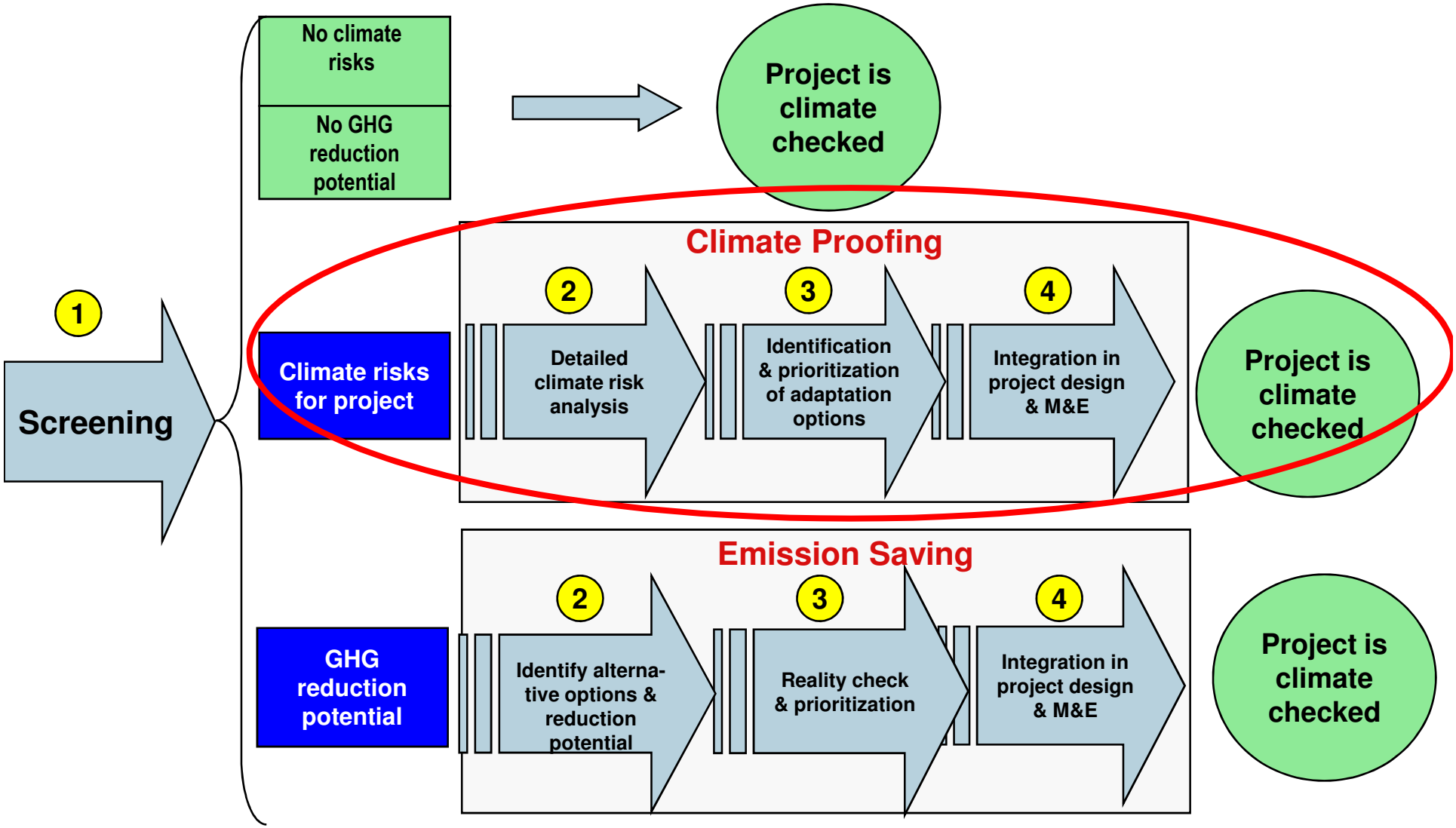


Step 1: Screening

- Selection of programmes with high climate risks
- simple
- Checklist & significance test
- =>cost efficiency

Step 1: Screening

Question	Yes	No
Is the project active in one of the following sectors?		
• Agriculture and rural development		
• Forests / Forestry		
• Natural Resource Management & Biodiversity		
• Water		
• Disaster Risk Management		
• Urban /municipal / regional development		
• Health		
• Energy		
Is the project situated in one of the following geografic regions?		
• Coastal zones		
• Flooding areas		
• Areas affected by hurricanes / typhoons		
• Arid regions		
• Mountain regions		
Does the impact of the project depend on important climate parameters like e.g. temperature, precipitation, wind, etc.?		
Does the project provide opportunities to increase the adaptive capacity by the target group or ecosystems significantly?		

Step 2: Risk Analysis

- Pre-structured steps of analysis
- Flexible (1 to 5 days)
- Participation of different stakeholders possible (partner, project staff, target group, scientists, etc.)
- In workshop- or interview format
- Support material / guidance provided
  - Guidance to lead through the process
  - Guidance for different sectors (about 4 pages each)
  - Manual on climate change information (with PIK)

Step 2: Risk Analysis

A: Exposure unit	B: Climate trends (stimuli)	C: Direct impact	D: Indirect impact
§Agriculture	§Temperature rise §Prolonged dry season §More concentrated rainfall	§Lower yields / fewer foodstuffs §After floods higher yields	§Insecurity about seasons, food insecurity §Migration into cities §Conflict: human/animals
§Infrastructure	§Concentrated rainfall §Increased intensity of cyclones	§Floods	§Loss of investments §Destroyed roads, further disadvantage to remote areas

E: Link to project objective	F: Risk / opportunity for project	G: Adaptation Options
§Goal of component 1: reducing effects of drought in arid regions => direct link	=> Medium risk of not achieving one objective of project	§Diversification of crops §Erosion control §Water cisterns §Small-scale irrigation
§Goal of component 2: Strengthening early warning systems => indirect link	=> CC poses indirect but high risk;	§Early warning systems consider CC predictions §Cyclone and flood resistant buildings

Exposure Units and Climate Stimuli

Category	Exposure Unit
Ecosystem services	• Water resources • Agriculture • Biodiversity • Forestry
Anthropogene Systeme	• Buildings and settlements • Infrastructure and transport • Industry and production • Energy supply • Services • Tourism • Health (systems)
Specific risk regions	• Coastal zones • Flooding areas • Arid regions • Mountain regions
…	• …

Climate stimuli	Trend
Annual mean temperature	
Temperature in critical season	Ø
Annual precipitation	
Precipitation in critical season	
Annual water availability	
Duration of vegetation period (drought / rain season)	Ł
Extreme rainfalls	Ł
Sea level	
Floods	Ł
Hurricanes / typhoons	Ł
Heat waves	
Droughts	

Climate proofing sector support material: agriculture (draft)

Climate stimuli	Direct impact	Indirect mpact	Options	Concreate adaptation measures (selection)
Change in vegetation period	Reduction of productivity in rainfed and irrigation based agriculture and pasture; Increase of productivity in some regions especially northern lattitudes	Reduction of income; in the medium term: shift of production zones: shift of trade flows	Protection of existing production systems	•Weather based insurances •Early warning systems for droughts / floods •Support for metreological services •Improvements of seasonal weather forecasts •Build up climate change expertise in extension services •Measures to protect agrobiodiversity and support of gene banks •…
			Support of diversification of production patterns	•Support agriculture policy •Breeding new varieties and protection of agrobiodiversity •Support of diversified crop rotation •Support of climate sensitive land use planning
			Diversification of income options	•Market and potential analyses •Support of income-generating off-farm activities and vocational training •Social protection systems •…

Step 3: Priorization of adaptation options

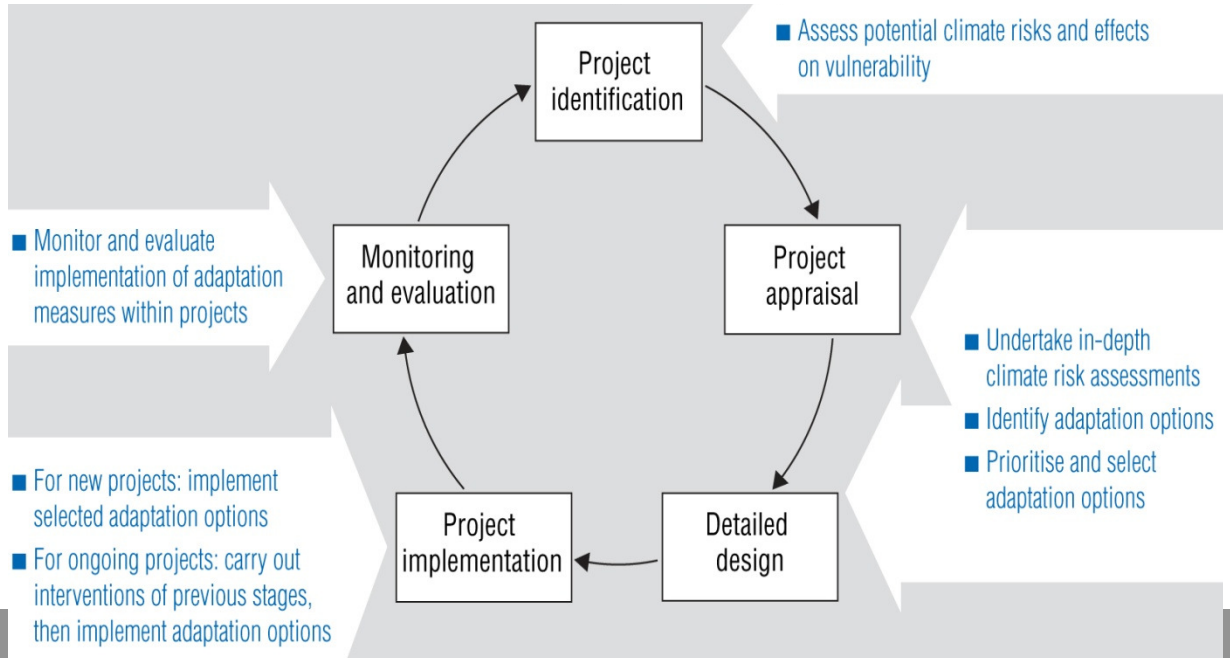
- Priorization with criteria like e.g.
  - Cost-benefit approximation
  - Political feasibility
  - Co-benefits
  - No-/low-regret
  - Do no harm (biodiversity, etc.)
  - Probability of impact occurring
  - Etc.

  => No formal guidelines

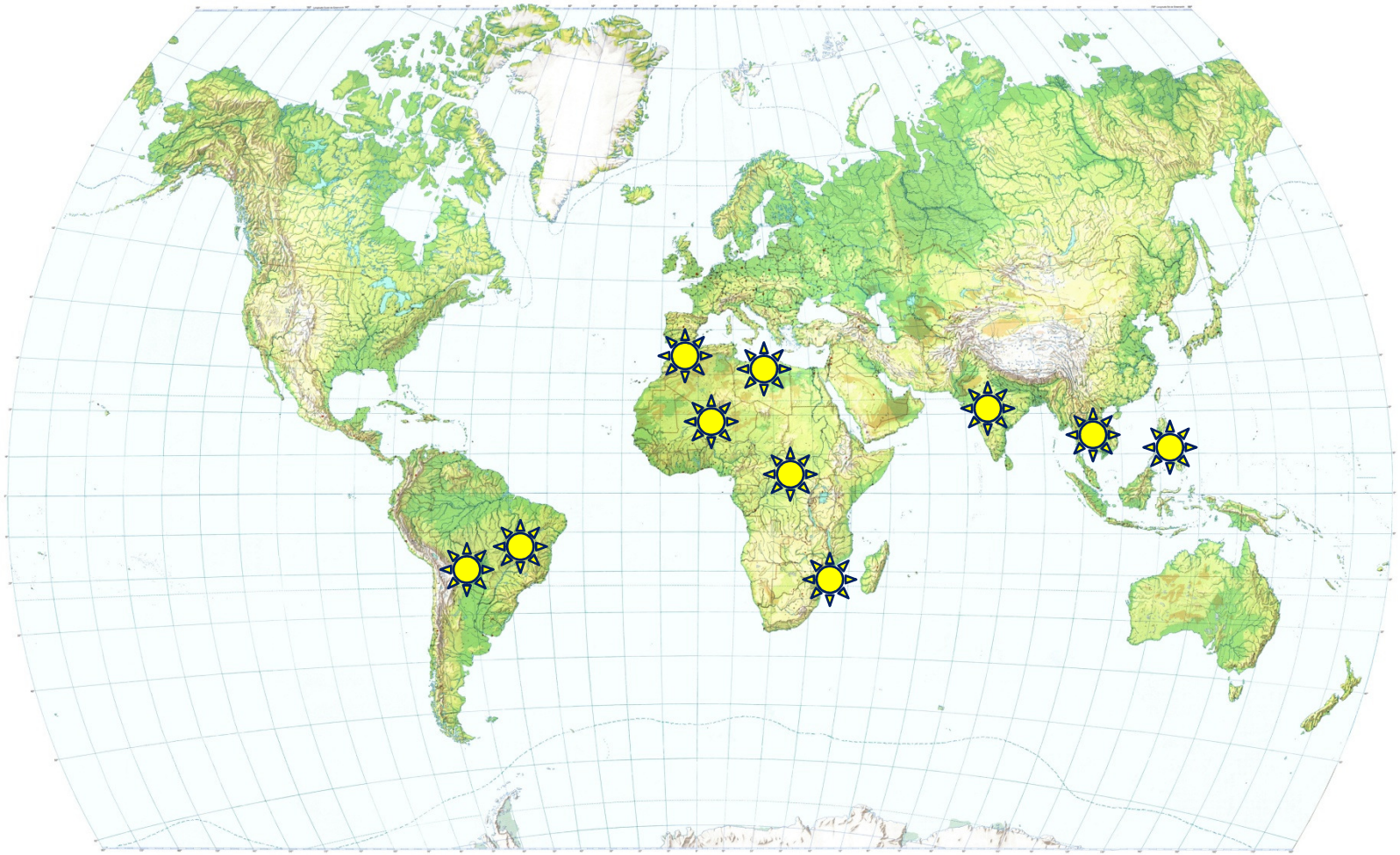
Step 4: Integration into project

- Integrate results at important entry points of project cycle:
  - Project proposals, formulation of indicators
  - Impact chain, operational planning and implementation
  - Monitoring and evaluation

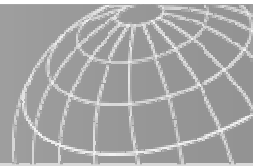
=> increase binding character



Climate Proofing - GTZ Pilots



Climate Proofing Mosambik



Thank you for your attention

- GTZ Climate Check:
  www.gtz.de/climate

- OECD Policy Guidance on Integrating Adaptation to Climate Change into Development Co-operation:
  http://www.oecd.org/env/cc/adaptation/guidance