CLIMATE INTEGRATION TOOL

FOOD SECURITY, AGRICULTURE AND NATURAL RESOURCES



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HOW TO USE THIS CLIMATE INTEGRATION TOOL

This climate integration tool is primarily intended for assisting organisations, which are not having climate change actions as their core area of operation. As CISU, we want to support our member organisations to further integrate climate action in their development work. Integrating climate actions is defined as the process of inclusion of climate change related actions into sector implementation, outcomes and policies.

How to use this tool

The climate tool has two main sections, one on ENTRY POINTS with KEY QUESTIONS FOR YOUR ANALYSIS related to climate action integration when developing your intervention. Here you will also find inspiration on where to look for relevant information.

The second section OPPORTUNITIES FOR INTEGRATION has examples and practical inspiration on ACTIVITIES AND APPROACHES, as well as examples on outcomes and indicators for climate action integration.

When should we think climate?

In the intervention preparation phase, ask yourselves and your partners the following questions to find out whether climate actions are relevant:

- Is the target group impacted by climate change?
- Is the thematic focus impacted by or impacting on climate change?

If you can answer yes to any of these questions, this climate tool can provide inspiration on how to get started with integrating climate actions in your intervention!

CLIMATE ACTION

It covers adaptation, mitigation, risk reduction and resilience building. It is linked to disaster risk reduction and closely linked to green economy and environmental

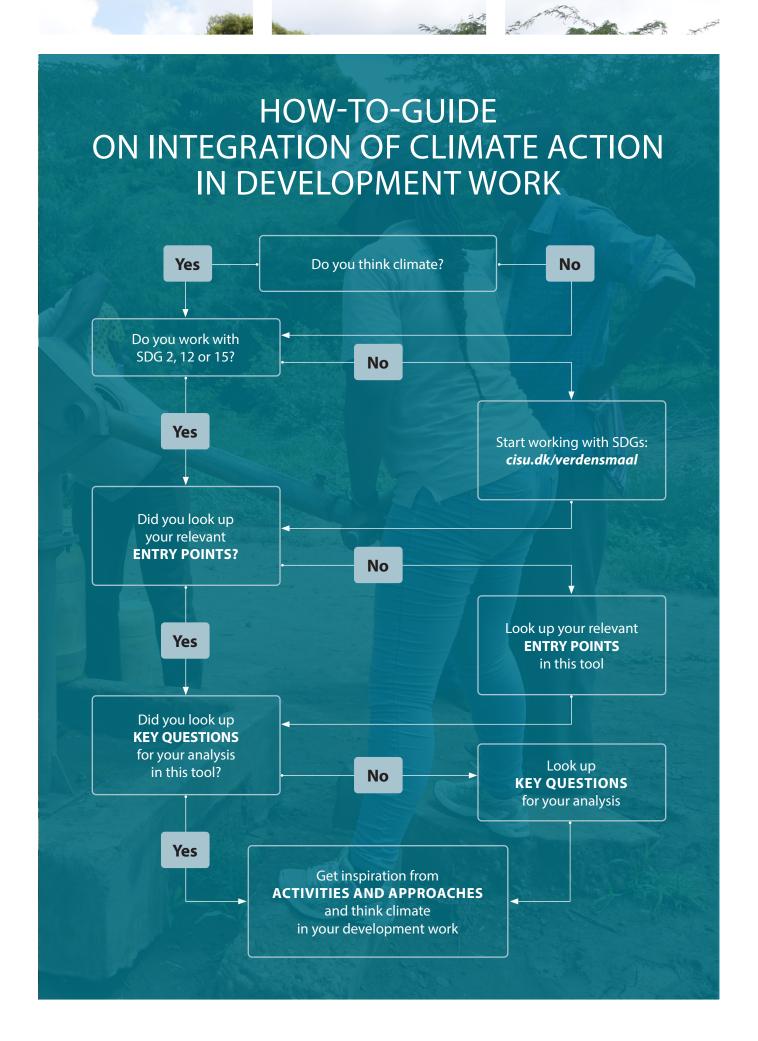
ADAPTATION

Climate change adaptation is the in climate by making changes in production systems and social and economic organisation in order to reduce vulnerability to changing closely linked to building resilience of societies and contributes to people's adaptive capacity. In many ways, it resembles good sustainable development.

MITIGATION Mitigation is limited to the

reduce emission of greenhouse gas. With CISU funded interventions action integration will naturally be

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ENTRY POINTS

Interventions that addresses agriculture are typically also addressing food security (SDG 2). And they are often linked to value chain development and farmer organisation (SDG 12). Agriculture, food security and regarding climate change. Thus, here they

crop, livestock, fisheries and forestry proefficient in resource use (use less land, water and inputs to produce food more sustainably combined with reducing food loss and waste) to meet the future challenges.

people, communities and ecosystems. This is key to sustainable agriculture and key to the

relation to integration of climate action. Typior likely to be impacted by climate change.

Sector Policies

The entry points for seeking information on integrating climate action include the agricultural sector policies, plans and protor documents related to forestry and natural resources are relevant.

National Climate Plans

Other entry points are the NAPs, the NAPAs, the NDCs and the National Communications for the respective countries. The NAPs can be accessed here: UNFCCC-NAPs. The NAPAs can be accessed here: UNFCCC-NAPAs. The NDCs can be accessed here: UNFCCC-NDCs, nications. All the documents will have infor-

sector. In the NDCs, there are good sections

World Bank

Another entry point, where a good amount of is the World Bank Climate Change Knowledge WB CC knowledge – country profiles (go to country heading and select a country). On as: natural hazard affecting the country, the and adaptation options. This information might help you integrate climate change information

Local Development Plans

tions, which are addressing specific activities in defined geographic areas will be the local development plans. The local development plans – typically the district or municipal climate related actions described in the sec-

Other Entry Points

There might be other plans, assessments They include possible Disaster Risk Reducvery relevant climate actions for the sector. use plans for the district, province or other local administrative level might exist and give some guidance on actions within agriculture,

range of different assessments covering the target area including vulnerability assessments or participatory poverty assessments. They might have valuable information to be used in terms of integrating climate actions.

There is a range of guidance notes or tools

When seeking to integrate climate action

- What are the impacts on agriculture that cli-
- ities contribute to sustainable land use
- What are the strategies used by farmers to manage risks and their impact on the envithe communities?
- ity to climate change and extreme events
- How is the institutional and policy environ-

TYPICAL IMPACTS FROM CLIMATE **CHANGE**

- Negative impacts on yields and production capacity from changing weather patterns and increased hazards
- Decreasing resilience of farmers as a result of decreasing production and increasing climate shocks
- Increased food insecurity and undernourishment among vulnerable communities

CHECKLIST







Information sources in food security, agriculture and natural resources	To be found? Yes/No	Consulted? Yes/No	Relevance of information? High/Medium/Low
Sector policies, strategies, plans			
Country documents submitted to UNFCCC — NDC, NAPA, NAP, National Communications			
World Bank CC Knowledge Portal			
Local development plans			
Disaster Risks Reduction plans			
Spatial plans			
Vulnerability assessments/Poverty Assessments			
Planning for undertaking Vulnerability Assessment			

OPPORTUNITIES FOR CLIMATE INTEGRATION

ACTIVITIES AND APPROACHES

security, agriculture and natural resource management are often closely related and share opportunities for integrating climate

climate adaption but often also include mitigation benefits. For example, synergies improved land use goes hand in hand with

related to reduction of vulnerability and including rights of women, must be part of

are linked to actions within many of the other sectors. Most directly they are related to actions within water and sanitation and within value chains and microcredit.

- Introduction or further promotion of **crops or** livestock that are more resilient to current floods, higher temperatures). Typically, this
- Diversification of crops grown by target groups and further emphasis on intercropping and with further emphasis on agroforestry and perennial crops and trees grown $\ \, \textbf{on farms}. \\ \textbf{This address both adaptation and}$ mitigation and is relevant in capacity development as well as in strategic services.
- Promoting soil and water conservation ing or further promoting various sustainable farming practises including building soil qualcould be addressed in capacity development
- Improving the management of forest and **natural ecosystems** that are supporting
- Addressing improved crop irrigation ed to capacity development and strategic
- Addressing range land management for increased range land productivity and resilience. To be addressed through capacity development and strategic services.
- Diversification of rural livelihoods to include a wider range of productive strate-gies. Seek opportunities for rural incomes from improving the status and productivity system services and carbon storage. To be included in capacity development and stra-
- Advocacy for appropriate policies and ing development of agriculture and natural resource management that are promot-
- Promoting policies and plans in support of sustainable food system and building of local resilience. Primarily within advocacy and in relation to capacity development activities.

- · Addressing land use planning, land rights, tenure and governance directed at local level on how to ensure sustainability and access in
- In interventions dealing with value chains and market access related to agriculture/ natural resources, climate actions can be sustainable natural resource management. This includes also **certification and value** addition of such products. Can be addressed through advocacy, capacity development
- Addressing institutional capacity devel**opment** for farmer organisations, sector departments and for extension agents in
- When supporting organising of farmers, seek to integrate the promotion of climate **action** issues in the operation of farmer
- Promote risk transfer through the development of weather insurance, increasing climate change adaptive capacity and **social** transfers/food. Typically related to advoca-
- Including climate relevant actions in farmer **training processes** such as farmers field schools and extension support. To be addressed through capacity development
- Promote better use at local level of climate and weather forecasting information as well as early warnings. Related to advocacy and capacity development activities.
- Investing in social security systems and in improving access to finance (microfinance) will contribute to improved resilience with-in the rural farming communities. Through its contribution to adaptation capacity it is also a way of integrating climate action. This is linked closely with work in other sectors. Related to advocacy, capacity development and strategic services.
- Promoting climate proofing of infrastructure relevant for agriculture and food systems.

MONITORING: FORMULATION OF INDICATORS

CHECKLIST







the impact of the chosen approaches in the example selected a climate integration focus something written on improved resilience of

that reflect the integrated climate actions. target group? And whether the indicators

Examples of indicators

- Adoption of sustainable and climate-resilient
- ogies and resources by vulnerable groups e.g. soil conservation, seed selection etc.

Integration activities in food security, agriculture and natural resources	To be found? Yes/No	Consulted? Yes/No
Crop/livestock introduction		
Crop diversification, intercropping, agroforestry		
Soil and water conservation measures		
Management of forest and natural ecosystems		
Improved crop irrigation		
Range land management		
Diversification of rural livelihoods		
Advocacy for appropriate policies		
Promoting policies and plans		
Land use planning, land rights, tenure and governance		
Resilience and greening of value chains, markets access, certification		
Institutional capacity development		
Promotion of climate action in farmer organising		
Risk transfer, weather insurance, social transfers/food		
Farmer training processes to include climate action		
Climate and weather forecasting		
Linking to social security and access to microfinance		
Climate proofing of infrastructure		







CROP VARIETY MANAGEMENT FOR CLIMATE ADAPTATION

A CISU member and their Indian partner promote agricultural development and farmer organisation. They have jointly decided to integrate climate action in the planning for a new CISU-funded intervention. The partners have been able to access information on relevant climate actions within their field of work from several entry points.

In the adaptation information by India to UNFCCC and the agricultural sector documents, it is stressed that **introduction of greater crop variety**, including further stress on **drought resilient crops**, are relevant adaptation measures.

Information on which specific types of crops and crop varieties that are relevant for the district has been found in the more localised entry points, including the development plans and the disaster risk reduction plans for the districts.

The objectives and outputs of the proposed intervention are formulated so that **increased resilience** of the agricultural production and among the farmers is part of the results framework. Indicators are formulated around **crop variation and increased farming of drought resilient crops.**

The practical example is constructed based on experiences from interventions of different CISU members organizations.

