



**WINROCK**  
INTERNATIONAL



Environment: Forestry, Energy & Ecosystem Services

Climate Change Adaptation

### **Climate-Resilient Planning and Disaster Risk Reduction**

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At Winrock, we believe knowledge is the key to coping with climate change. We educate communities and governments to recognize climate impacts and empower them to take action.

Through participatory vulnerability assessments, Winrock helps communities improve their understanding of specific hazards and how to reduce the risk of erosion, landslides and flooding. We provide training on short-term disaster response and help communities develop early warning systems to improve their resilience. The training is supplemented with long-term climate change adaptation plans that reduce exposure and sensitivity and increase adaptive capacity to specific hazards.

Government leaders can play a pivotal role in tackling climate change. Winrock works closely with local, regional and national authorities to improve their knowledge of climate change and integrate climate change considerations into formal planning processes, such as land use, zoning, and socio-economic development planning. We build the capacity of governments to share climate information, and help authorities improve the quality and dissemination of hydrometeorological information.

### **Climate-Smart Livelihoods**

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We know climate change disproportionately affects those who rely on natural resources to earn a living. Our activities help communities improve their man-

agement of natural resources and pursue alternative livelihoods.

Climate-smart agriculture is key to our approach. Winrock has a long history of training farmers on new agricultural inputs and techniques that help increase their resilience to more frequent and severe drought, saltwater intrusion, and other effects of climate change. We promote crop diversification, as a path to reliable income and food security.

Winrock uses value chain analyses of various agricultural products to determine where and how targeted interventions can provide more sustainable income to farmers, including aggregation points, cold chain development, and provision of market information.

Access to alternative sources of income can raise farmers' living standards and increase their chances for success.





Winrock facilitates access to incentives for conservation or rehabilitation through payments for ecosystem services or REDD+, or through ecotourism and sustainable harvesting of high-value non-timber forest products, such as fruits, vegetables, fish, bamboo, and other fibers.

Our basic literacy and numeracy training opens up alternative income streams for marginalized groups, such as rural women. We engage the private sector to help find opportunities for resource-dependent communities.

### **Capacity Building and Tools**

By building the capacity of individuals and institutions, Winrock is creating a legacy of resilience in the places where we work. Winrock teams up with universities and think tanks to develop and implement climate change curricula that are creating a cadre of knowledgeable teachers and students.

In addition, Winrock supports the development of technical knowledge by facilitating research, new techniques for understanding climate risk and im-

pacts, and tools that help leaders and communities take action. These include using GIS and mapping, technical studies that build knowledge of specific climate impacts, and manuals for practitioners.

We work to raise awareness at schools, public meetings, and other venues to educate and empower communities about combatting climate change, adapting to its effects, and strengthening their resilience.



Winrock International is a nonprofit organization that works with people in the United States and around the world to empower the disadvantaged, increase economic opportunity, and sustain natural resources.