

	<p><i>Action pledge to the Nairobi Work Programme of the UNFCCC</i></p>
<p>Name of project</p>	<p><i>Regional Visualization & Monitoring System (SERVIR)</i></p>
<p>Overall objectives</p>	<ul style="list-style-type: none"> ▪ Support Nairobi Work Programme implementation in the areas of: <ul style="list-style-type: none"> ○ <i>Methods and tools</i> ○ <i>Data and observations</i> ○ <i>Climate modeling, scenarios and downscaling</i> ○ <i>Climate related risks and extreme events</i> ○ <i>Technologies for adaptation</i> ▪ Supporting the respective Calls for Action regarding: <ul style="list-style-type: none"> ○ <i>Enhance the use of climate information for adaptation to climate change impacts on agricultural production</i> ○ <i>Improve guidance for adaptation planning at the national level</i> ○ <i>Promote and enhance adaptation planning and practices at the water basin level</i> ○ <i>Map vulnerability to climate change in urban areas</i>
<p>Project purpose</p>	<p>Develop regional capacity in use of satellite-based monitoring and forecasting applications for improved adaptation to climate change, at the level of Mesoamerica and the Caribbean</p>
<p>Activities</p>	<ul style="list-style-type: none"> ▪ Provision of access to environmental and climate data through the SERVIR Data Portal, including regional downscaled climate scenario data developed through the SERVIR partnership ▪ Mapping areas affected by extreme events, in collaboration for the International Charter on Space and Major Disasters ▪ Provision of decision support in select Societal Benefit Areas such as: <ul style="list-style-type: none"> ○ Biodiversity ○ Ecosystems ○ Agriculture ○ Climate

	<ul style="list-style-type: none"> ○ Disasters ○ Health ○ Water ○ Weather <p>These decision support products include satellite-based observations of environmental and climate-related variables, and forecasts and projections related to the weather and climate.</p> <ul style="list-style-type: none"> ▪ Visualization of environmental data for improved decision support ▪ Mapping of areas vulnerable to climate change according to the range of available downscaled climate scenario data ▪ Spatial modeling of the impacts of land-based activities on water quality in watersheds across the region ▪ Satellite-based observations of water contamination ▪ Capacity-building through regional- and national-level workshops in the application of the various applications available through SERVIR, including training in the application of climate modeling and vulnerability assessment and modeling ▪ Regional master’s degree courses in climate change and Earth Observation Systems are being developed by CATHALAC ▪ Public dissemination of information on climate change adaptation strategies and climate change scenarios, among others
Expected results	<ul style="list-style-type: none"> ▪ Increased awareness about the current and potential future vulnerability of natural ecosystems and agricultural systems to climate change ▪ Increased use of SERVIR products in national and regional decision making processes ▪ Utilization of decision support systems such as SERVIR for the development of climate change adaptation strategies ▪ Increase in the number of people, institutions, and countries utilizing satellite-based applications for making resource management decisions ▪ Incorporation of satellite-based products and applications into national decision-making processes across Mesoamerica and the Caribbean ▪ Improved management of critical watersheds across Mesoamerica and the Caribbean
Indicators of achievement	<ul style="list-style-type: none"> ▪ Number of climate-related decision support tools made available to regional decision-makers through SERVIR (www.servir.net)

	<ul style="list-style-type: none">▪ Number of climate-related datasets for (i) Latin America and the Caribbean and (ii) Africa publicly available through the SERVIR Data Portal▪ Number of workshops held (national and regional level) addressing climate change adaptation▪ Number of national experts trained in utilization of adaptation-related decision support tools▪ Number of assessments developed on climate change vulnerability, and publicly available through SERVIR
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