

SERVIR GLOBAL

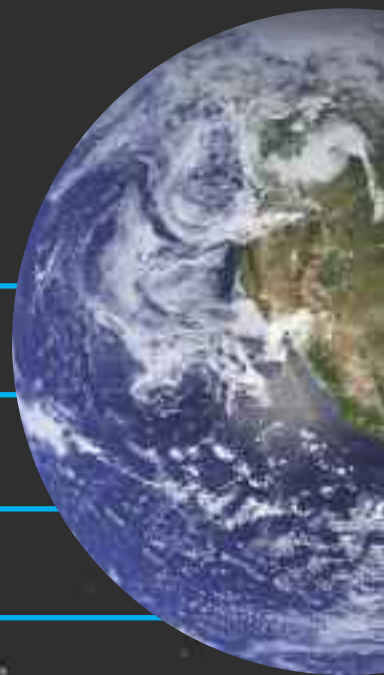
SERVIR

CONNECTING SPACE TO VILLAGE

SCIENCE & TECHNOLOGY

SERVING THE NEEDS OF

DEVELOPING COUNTRIES



A collaboration of USAID, NASA, and partners around the globe.



WHO WE ARE

SERVIR connects space to village by making geospatial information, including Earth observation data from satellites, Geographic Information Systems, and predictive models useful to developing countries. SERVIR is a joint development initiative of NASA and USAID, working in partnership with leading regional organizations around the globe. SERVIR helps those most in need of tools for managing climate risks and land use.

SERVIR global hubs include:

- SERVIR-Eastern and Southern Africa, hosted by the Regional Centre for Mapping of Resources for Development (RCMRD)
- SERVIR-Himalaya, hosted by the International Centre for Integrated Mountain Development (ICIMOD)
- SERVIR-Mekong, hosted by the Asian Disaster Preparedness Center (ADPC). Launched October 2014.



NASA

WHAT WE DO

SERVIR strengthens the ability of governments and other development stakeholders to incorporate Earth observations and geospatial technology into their decision-making.

SERVIR advances free and open information sharing through national and regional platforms and collaborations.

SERVIR develops innovative, user-tailored analyses, decision-support products, and trainings that advance scientific understanding to deliver information to those who need it.

INCREASING THE USE OF INFORMATION

SERVIR bridges the gap between data and decision-making by bringing together relevant local and regional institutions. SERVIR partners share their expertise and train government analysts in Earth observation technologies and geospatial information systems.

Together, SERVIR partners use science and technology to address critical needs: preparing for extreme events, improving resilience to climate change, managing water resources, increasing food security, and encouraging better management of land and forest resources to promote sustainable growth.



SERVIR IN ACTION

SERVIR has developed approximately 40 decision-support tools and analytical products, including:

- Land cover mapping and classification products for a growing list of countries including Kenya, Malawi, Namibia, Nepal, Rwanda, and Zambia to support greenhouse gas emissions inventories and sustainable landscape management.
- Satellite-derived forest fire-alert system in Nepal with web-based, e-mail, and SMS alerts for early detection of fires so forest managers can better protect lives and property, and analyze fire patterns to improve preparedness.
- Algal bloom monitoring system for El Salvador so environmental officials can alert fishermen of unsafe conditions and protect the public from toxic seafood.
- Improved hydrologic modeling for eastern African countries, giving government officials the capability to forecast floods, visualize the spatial extent of floods, and inform irrigation permitting and hydropower planning.
- Satellite-derived frost monitoring and early warning in East Africa to mitigate damage to crops like tea and coffee, and inform the insurance industry about frost risk and damage.

STATE-OF-THE-ART TECHNOLOGY

SERVIR uses data from a suite of Earth-observing satellites, ground-based data, and advanced geospatial information technology in innovative ways to inform development decisions. Custom SERVIR tools integrate information in real-time, and the SERVIR website offers access to a range of environmental information, maps, satellite and sensor data, and other analysis tools. Some applications send alerts and information directly to users via Internet and mobile technology.

A POWERFUL COLLABORATION

SERVIR connects information from space to village by complementing satellite data with ground observations to make analyses more useful. Satellite data shows the “big picture.” Ground information and local knowledge are critical to validating satellite-derived information and models, and integrating historic local data.

Bringing these data sources together results in improved geospatial models that show what's happening in the region. Through SERVIR partnerships, NASA and other scientists, SERVIR hub staff within regional institutions, and local decision-makers collaborate to develop tools, products, and services that strengthen capacity for evidence-based decision-making, advance low-emission development, and build resilience to climate change.





GOVINDA SIWAKOTI



AMVITALE PANOS



USAID

WHAT LIES AHEAD?

SERVIR will help nations monitor and manage forests to reduce emissions from land use change and safeguard ecosystem services.

SERVIR will support countries in Africa and Asia to generate timely information about food production and climate conditions to support preparedness for both agricultural surplus and shortage.

SERVIR will help local experts track and analyze water resources, pollution, and biodiversity in transboundary systems to improve the sustainable management of shared natural resources.

SERVIR will monitor epidemics and map disease vectors and weather conditions, helping health officials reduce disease incidence and save lives despite increasing climate variability.

SERVIR Earth observations and site-specific data collection and analysis will help decision-makers use science and technology to implement evidence-based planning as they address societal needs in these areas and others.

FIND OUT MORE AT
www.servirglobal.net



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