

Building Resilience through Science and Satellite Data

SERVIR connects space to village

by helping developing countries use satellite data to address challenges in food security, water resources, weather and climate, land use, and natural disasters. A partnership of the National Aeronautics and Space Administration (NASA), the U.S. Agency for International Development (USAID), and leading technical organizations, SERVIR develops innovative solutions to improve livelihoods and foster self-reliance in Asia, Africa, and the Americas.



Photo: DFID

SERVIR BY THE NUMBERS



50 Countries



390 Partners



32 Custom Services in Development or Delivery Stages



Partnered with over **20** US universities and Research Centers located in more than **15** states



6,625 People Trained

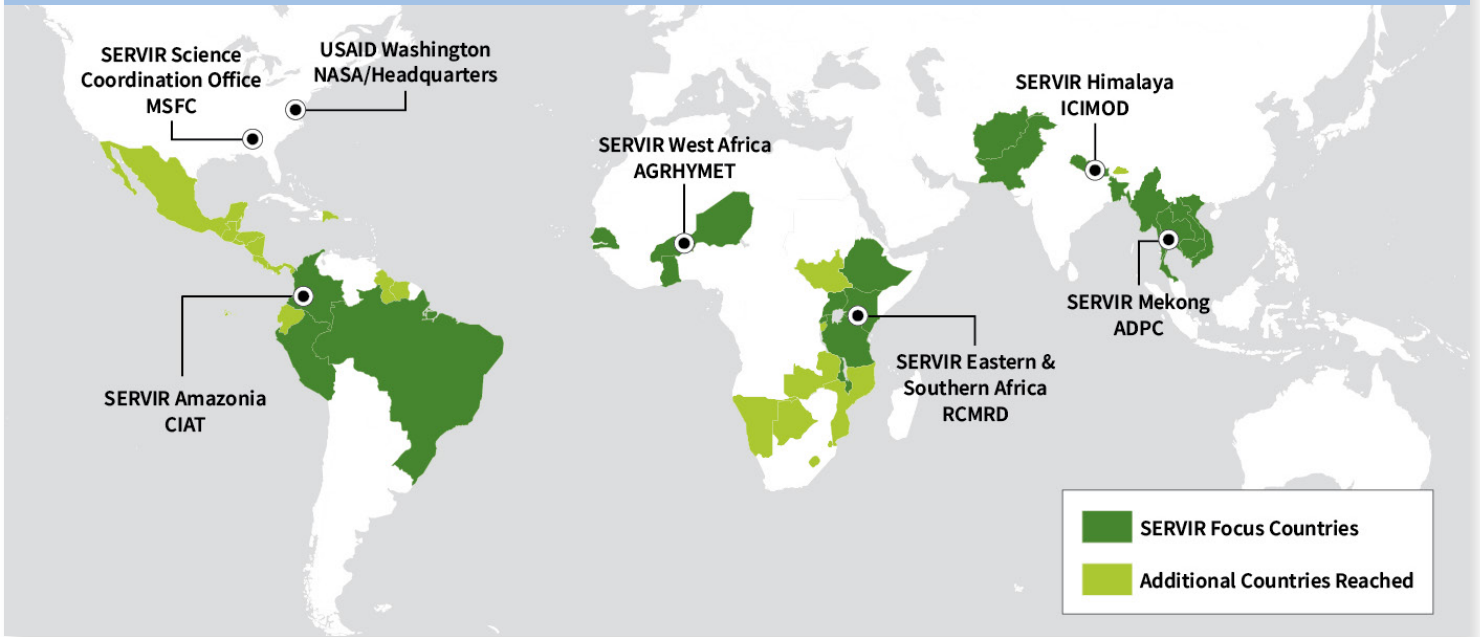


27 Satellites and Sensors

Since its launch in 2005, **SERVIR has grown into a global network** of five active hubs that are improving awareness, increasing access to information, and supporting analysis to help people across Africa, Asia, and the Americas to better manage today's complex development and environment challenges. With activities in more than 50 countries and counting, SERVIR has 42 custom services in development or delivery stages, collaborated with over 390 institutions, and trained more than 6,625 individuals, improving the capacity to develop local solutions. SERVIR also collaborates with over 20 US-based universities and research centers located in more than 15 states, and partners with five leading US technology companies.

SERVIR uses data from a suite of Earth-observing satellites, ground-based data, and geospatial information technology in innovative ways. Custom SERVIR tools integrate historic, real-time, and modeled data, and SERVIR tools are open access and open source. For example, flood alerts using satellite rainfall data for several watersheds in Kenya, Tanzania, and Uganda are generated in close collaboration with the respective departments of water resources; seasonal crop productivity assessments are performed in collaboration with the Ministry of Agriculture in Nepal using a new digital agricultural atlas and satellite-derived greenness data; and high-resolution land cover maps and forest inventories are developed together with local authorities using satellite imagery in 15 countries across Africa and Asia.

CURRENT SERVIR HUB NETWORK



Through the combined efforts of the five regional hubs, and with technical support from USAID, NASA, and U.S.-based science collaborators, SERVIR is at the forefront of demonstrating the value of using Earth observations and geospatial data, products, and tools to advance international development through science and technology.

SERVIR brings together a variety of specialists from diverse backgrounds to create a unique team for addressing complex environmental issues and providing solutions to local decision makers and stakeholders around the globe. The heart of this team is SERVIR's global network of five technical intuitions, or hubs:

- » **SERVIR-West Africa**
Hosted by the Agrometeorology, Hydrology and Meteorology Regional Center (AGRHYMET) in Niamey, Niger
- » **SERVIR-Eastern and Southern Africa**
Hosted by the Regional Centre for Mapping of Resources for Development (RCMRD) in Nairobi, Kenya
- » **SERVIR-Hindu Kush Himalaya**
Hosted by the International Centre for Integrated Mountain Development (ICIMOD) in Kathmandu, Nepal
- » **SERVIR-Mekong**
Hosted by the Asian Disaster Preparedness Center (ADPC) in Bangkok, Thailand
- » **SERVIR-Amazonia**
Hosted by the International Center for Tropical Agriculture (CIAT) in Cali, Colombia

Building and relying upon this growing network of partners is fundamental to SERVIR. Beyond the sponsorship and active participation of NASA and USAID, SERVIR collaborates with a number of other U.S. government agencies and projects as well as government agencies in SERVIR regions. SERVIR also engages in joint research with universities and non-governmental organizations, and promotes capacity building with these expert groups.

With new tools in development, innovative partnerships, cutting-edge science, and an expanding network of hubs, SERVIR is committed to increasing the use of Earth observing data to help more people in developing countries adapt to a changing environment by connecting space to village.

SERVIR SERVICE AREAS



Agriculture and Food Security

Agriculture, rangeland management and pastoralism, and fisheries and aquaculture.



Land Cover

Sustainable landscapes through natural capital accounting and ecosystem services.



Water and Disasters

Water quantity, sediment transport, water quality, and water-related disasters.



Weather and Climate

Short-term predications, seasonal forecasts, and interannual climate scenarios.

CONNECTING SPACE TO VILLAGE



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