Title of case study	**Disaster preparedness, local capacity building, and planning**
Name of organization(s)	**Riverside Technology**
Business sector	Consulting & Environmental Services
Region(s) relevant to case study	☐ All regions ☒ Africa and the Arab States ☒ Asia and the Pacific ☐ Caribbean and Central America ☒ Europe ☒ Least Developed Countries ☐ North America ☐ Polar regions ☐ Small Island Developing States ☒ South America
Country(s) relevant to case study	Ethiopia, Sudan, Romania, Bangladesh, Morocco, Brazil
Adaptation sector(s) relevant to case study	☐ Business ☒ Education and training ☒ Food security, agriculture, forestry and fisheries ☐ Human health ☐ Oceans and coastal areas ☒ Science, assessment, monitoring and early warning ☐ Terrestrial ecosystems ☐ Tourism ☐ Transport, infrastructure and human settlements ☒ Water resources ☐ Other (please specify):
Adaptation activity	Riverside assists organizations with collecting, analyzing, managing, and disseminating environmental information so managers and policy makers can formulate strategic and knowledgeable decisions related to critical water resources. Riverside has been working in the fields of water resource management and disaster risk reduction in the US and globally for 25 years. In Ethiopia and Sudan, Riverside has partnered with local consulting firms to identify and map the flood-related vulnerabilities and hazards of communities along flood-prone stretches of the eastern Nile River. The

	company is also helping governments along the Nile develop a framework for working together around water resource planning. Riverside worked with local communities in Romania to establish and develop more than 90 water user associations. Through intensive hands-on training sessions, Riverside helped build the capacity of these groups of water users to manage their organization, finances, and irrigation water effectively. Working with local partners in Bangladesh, Riverside adapted the latest flood warning technologies (remote sensing, hydrologic models, and geographic information systems) to the Bangladeshi context. In order to generate and disseminate accurate and timely flood warning messages to the village level, Riverside used a text message-based model for flood warning dissemination that gave vulnerable communities access to expert science. In arid and semi-arid places such as Morocco and northeastern Brazil, Riverside used innovative technologies and methods to assist water resource planners and decision makers. In Morocco, Riverside developed evapotranspiration estimates using remote sensing techniques to assess irrigation performance. In Brazil, Riverside quantified water losses through evaporation utilizing satellite imagery, mapping numerous small reservoirs, and then evaluating the impact of the water loss. Riverside typically includes local partners and communities—from both the private and public sectors—during project design and implementation, ensuring that these local engineering, consulting, and planning entities build their own capacity and resilience to respond to climate change scenarios.
Cost-benefit	Riverside is a rapidly growing company with a business model based on its expertise in hydrologic forecasting, environmental and natural hazard monitoring, information technology, vulnerability assessments, and climate change analysis. These services assist communities to assess and prepare for the impact of climate change on water supplies, natural streamflows, and timing and volume of hydrologic runoff, among other impacts.
Case study source(s)	A Fresh Look at the Green Economy: Jobs that Build Resilience to Climate Change (Oxfam)

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Eastern Nile Planning Model
Source: www.riverside.com