Community-Based Flood Early Warning System: Reaching the Most Vulnerable







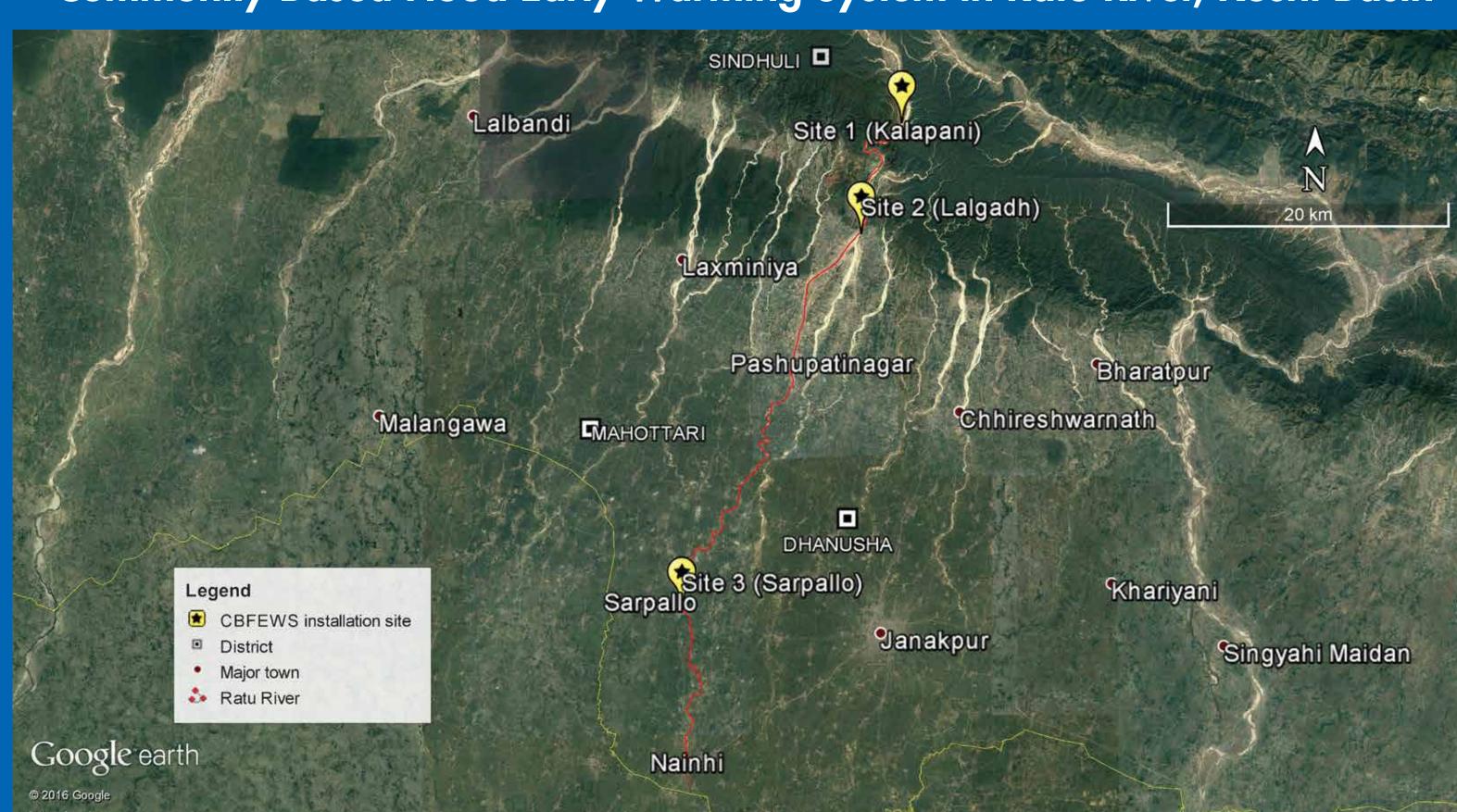




A community based flood early warning system (CBFEWS) is a system of tools and plans to detect and respond to flood risks by the communities. The CBFEWS, developed by ICIMOD, is based on a simple instrument installed upstream to detect flood automatically, and provides the real time flood warning to the vulnerable communities downstream. In Nepal, CBFEWS is jointly implemented by the Department of Hydrology and Meteorology / Community Based Flood and Glacial Lake Outburst Risk Reduction Project and ICIMOD.



Community Based Flood Early Warming System in Ratu River, Koshi Basin



Four Elements of CBFEWS: More than just a prediction...

1. RISK KNOWLEDGE AND SCOPING Systematically collect data and undertake risk assessments and scoping

2. COMMUNITY
BASED
MONITORING
AND EARLY
WARNING

Install early warning instrument and flood monitoring by upstream communities

3. DISSEMINATION
AND
COMMUNICATION

4. RESPONSE
CAPABILITY AND
RESILIENCE

Communicate flood

information by up-

stream and provide

early warnings to

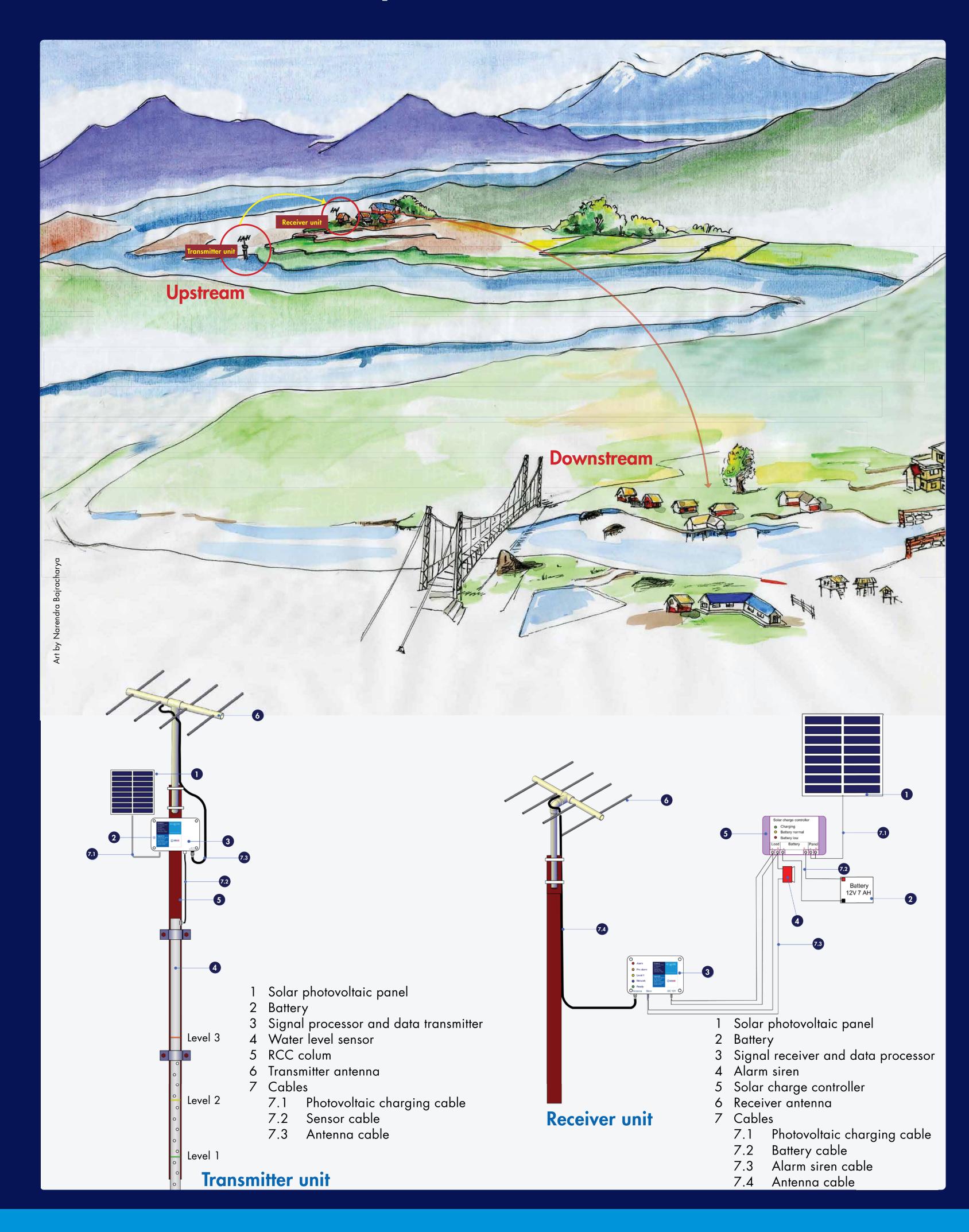
downstream

communities

Enhance
community response
capabilities and
build resilience

Source: Based on UNISDR, 2006, http://www.unisdr.org/2006/ppew/whats-ew/basics-ew.htm

System Schematics



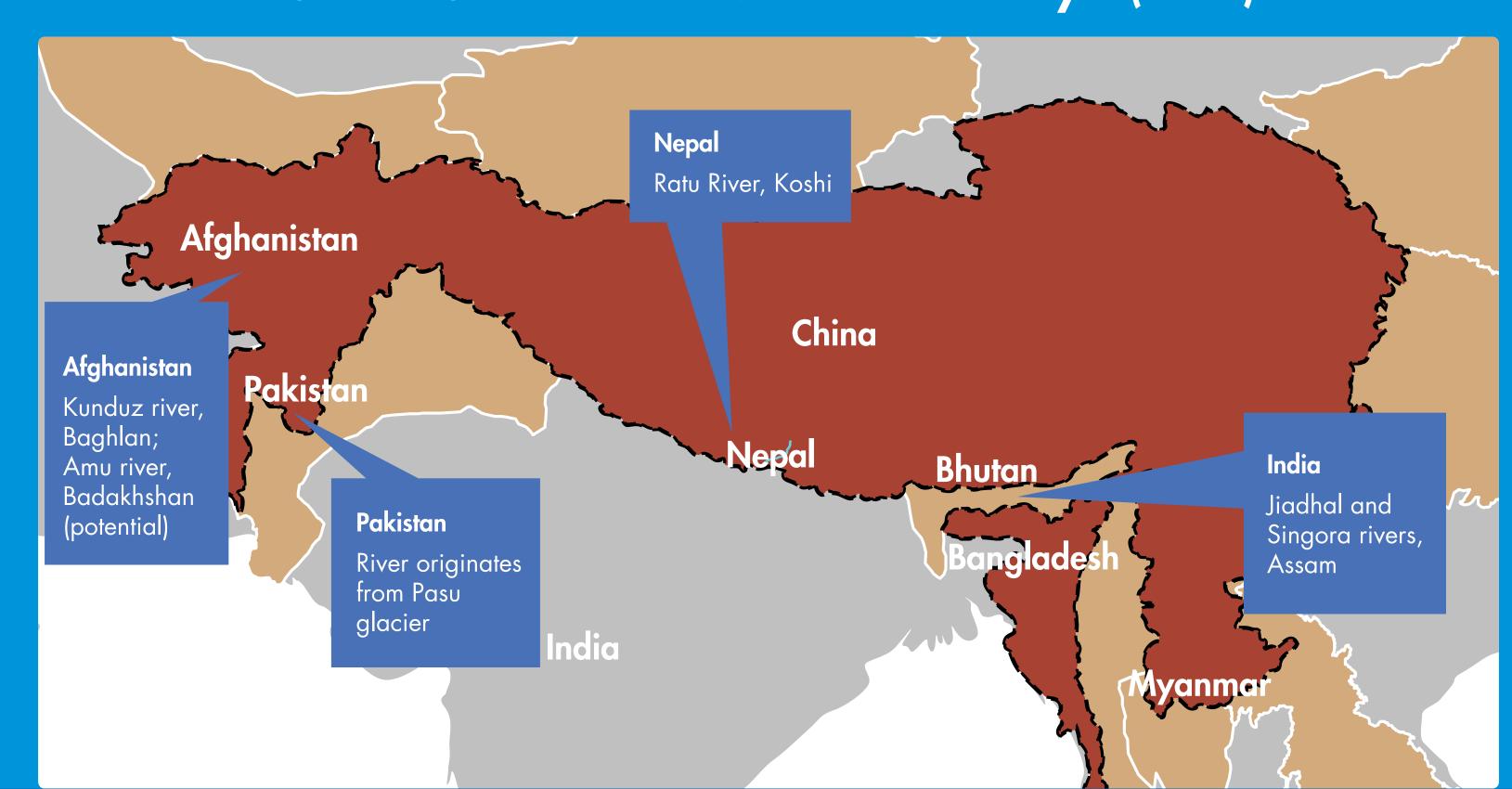




Impact on the ground

With over 1,000 households, Sarpallo VDC has a close-knit community where a large number of women bear responsibility for disaster preparedness. A heavy flood reached Sarpallo in July 2016, but the early warning system enabled all the villagers to relocate to higher ground with their children, elderly, important documents, and livestock. The success of the flood information system has made quite an impact for some local communities. For them, the system has become a source of relief. "Floods have become part of our lives and most female residents have gained much knowledge on how to be better prepared for the flood disasters through this project," said a 30-year old local woman farmer who has first-hand experience guiding villagers to rescue.

CBFEWS in the Hindu Kush Himalaya (HKH)



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