Technology Justice: Technologies exist with the potential to ensure wellbeing for all people on the planet, but these technologies are not available to those who need them most. Overcoming these technology injustices demands a radical shift in how technology is governed. Technology research and innovation efforts need to be refocused on meeting humanity’s basic needs, increasing wellbeing and protecting the planet.

In Nepal, DHM has been piloting a low data probabilistic approach to flood forecasting in partnership with Practical Action, Lancaster University, Water Numbers and Zurich Insurance. This has now been rolled out across major and minor river basins in Nepal, extending current lead time by an additional 5 hours (Smith et al. 2017).

In Chosica, Peru, modular and low-cost monitoring stations have been installed. The web platform and the mobile network are also used to communicate notices, warnings and alarms. 3D printing is used for sensor covers. Solar panels provide independence from the electricity supply.

In Nepal, DHM sends mass SMS messages via telecom providers to the mobile phones in areas at risk. These alerts are simple: ‘be alert’, ‘prepare to evacuate’, ‘evacuate now’.

In Nepal, DHM issues a daily bulletin on flood. The bulletin is produced in Nepali and sent via email to selected national, sub-national and district level stakeholders. The bulletin is fairly well trusted by high-level decision makers at national and district level, but needs further development and tailoring to ensure the information is easier to understand and use to make decisions.

Gender study (Brown et al., est. 2018): Gender inequality in economic capital, access to technology, and social capital impacts on access to early warning.

Practical Action has recently completed a study on gender in EWS in Peru and Nepal (Brown et al., est. 2018).

**EARLY WARNING SYSTEMS AND TECHNOLOGY JUSTICE**

**RISK KNOWLEDGE**

**CONSIDERATION OF GENDER PERSPECTIVES AND CULTURAL DIVERSITY**

**MONITORING AND WARNING**

**DISSEMINATION AND COMMUNICATION**

**RESPONSE CAPABILITY**

**GENDER PERSPECTIVES**

**FURTHER INFORMATION**


