

## Technology Fact Sheet for Adaptation

### Technology for Early Warning Systems and networking for information exchange on Extreme Weather events and other climate change related events <sup>i</sup>

| <i>Sector</i>                                        | <i>Health</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Adaptation needs</b>                              | Use of Early Warning System and networking between different agencies for information sharing on Extreme Events and other climate change related events to contain adverse health effects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Technology name</b>                               | Generation and sharing of information using Early Warning Systems and networks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>How this technology contributes to adaptation</b> | <p>Risk knowledge gained following risk assessments help to develop preventive mechanisms and further enhance Early Warning Systems and networking among different agencies.</p> <p>Systems with monitoring and predicting capabilities provide timely estimates of the potential risk faced by communities, economies and the environment.</p> <p>Communication networks are needed for delivering warning messages to the potentially affected locations to alert local and regional governmental agencies. The messages need to be reliable, synthetic and simple to be understood by authorities and public.</p> <p>Coordination, good governance and appropriate action plans are a key point in effective early warning. Likewise, public awareness and education are critical aspects of disaster management.</p> <p>The technology through diffusion will contribute to climate change adaptation through providing sufficient time for health personnel to prepare action plans based on contingency plans to minimize, respond to expected effects</p> <p>Provide Health and administrative authorities to make preparations along with the support of NGO, UN agencies, Private sector and Community organizations</p> <p>The general public at individual, family, community and country level will be informed to participate in adaptation activities.</p> |
| <b>Background/Notes, of the</b>                      | UNFCCC (2006). <i>Application of environmentally sound technologies</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| technology option sourced from ClimateTechwiki, Seminars etc.                                     | <p><i>for adaptation to climate change</i>. Technical Paper FCCC/IP/2006</p> <p>Grasso, VF., Singh, A., Early Warning Systems: State-of –Art analysis and Future Directions; UNEP</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Implementation assumptions, How the technology will be implemented and diffused across the sector | <p>The population of Sri Lanka is served by adequate number of personnel such as Doctors, Nurses, and Public Health Midwives and Public Health Inspectors. One of the priority functions of the PHII is to control of Communicable Disease in his respective range. This include identification, confirmation, contact tracing, treatment, health education and many other activities of outbreak control and as in Sri Lanka there is a widespread network of hospital and public health network the outcome of the technology will diffuse from top-to-bottom and other way around efficiently.</p> <p>The information sharing networks should be established between all agencies and Health and the health information shall be provided to the other agencies as well.</p> <p>In addition the alerts can be diffused through the print, electronic mass media and mobile phones.</p> <p>Same can be done by supporting the existing health information at different levels ( Country, Provincial, District and Divisional).</p> |
| Cost                                                                                              | 1500 \$US per district                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b><i>Impact Statement- How this option impacts the country development priorities</i></b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Country social development priorities                                                             | <p>Income generation due to technology per se is low.</p> <p>The knowledge earned by the health personnel and general public will assist in averting effects of major extreme events (Floods, Landslides, Cyclones, drought, and disease outbreaks etc.).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Country economic development priorities                                                           | The number of jobs created will be minimal and most of the time temporary as the event warrants.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Country environmental development priorities                                                      | <p>GHG emissions will be low as the energy use is minimal</p> <p>There will be nil or minimal pollution and effect on ecosystems.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b><i>Costs</i></b>                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Capital cost                                                                                      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Operational & Maintenance costs                                                                   | 500 \$ US                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Daily Supply capacity per                                                                         | Continuous 24/7 at Central and District levels. Other levels on the needs basis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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| <b>facility</b>                |                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Up-scaling potential</b>    | 80% of the country can be covered in three years.                                                                                                                                                                                                                                                                                                                               |
| <b><i>Local context</i></b>    |                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Opportunities/ Barriers</b> | The technology is available in the health sector but usually functions only where there is an emergency. The disease EWS as well as other form shall be implemented in the health sector. The opportunity is there as many health workers are provided with awareness. Private sector shall be incorporated. Reluctance to share information. Other Barriers should be studied. |
| <b>Country status</b>          | Technology is available at various levels at different administrative levels. It is not continuous or not a real EWS. Networking shall be made compulsory as a policy measure.                                                                                                                                                                                                  |
| <b>Timeframe</b>               | Mid 2012-end of 2015                                                                                                                                                                                                                                                                                                                                                            |

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<sup>i</sup> This fact sheet has been extracted from TNA Report – Technology Needs Assessment Reports For Climate Change Adaptation – Sri Lanka. You can access the complete report from the TNA project website <http://tech-action.org/>