

Technology Fact Sheet

Flood warning systemsⁱ

1) Technology description

- Have been developed to predict the situations of storms and floods in order to plan in time to minimize negative impacts.
- Have an important role in developing countries with poor infrastructure and prone to flood.
- Coastal flood warning systems in Vietnam are not efficient and advanced due to out of date technologies.

2) Socio-economic benefits

- Reducing risks for community.
- Helping to evacuate vulnerable people.
- Protecting people's properties to safety places.
- Operating protection structures in time and strengthening infrastructure.

3) Environmental benefits

Providing access to information and guidelines to cope with natural hazards to community, reducing damages and providing sanitation guidelines to avoid epidemic.

4) Status of technology

- In Vietnam the flood warning system has been built in some coastal areas, but these systems do not really work effectively. There are no conditions for the application of advanced technologies.

5) Application potential

There have been many projects on upgrading and modernization of flood warning systems in Vietnam, especially in the Central Coast.

6) Barriers

- Limited community understanding.
- Demanding high warning accuracy.
- Underdeveloped information and communication systems.

7) Costs

Implementation and technology application costs

- Depending on the investment costs of equipment and building monitoring systems, data analysis, forecasting floods, building communication networks, training and communication to raise awareness of local communities.

Incremental costs to adapt to climate change (compared to conventional technology)

- Depending on the operating costs in extreme weather conditions due to climate change.

ⁱ **This fact sheet has been extracted from TNA Report - Adaptation for Vietnam. You can access the complete report from the TNA project website <http://tech-action.org/>**