

A Last Mile Hazard Warning System for Disaster Risk Reduction in Sri Lankan Villages: Community Organization

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What is the HazInfo Pilot Project?

- Evaluate the suitability of five ICTs deployed in varied conditions in selected villages for their suitability in the last mile of a national disaster warning system for Sri Lanka and possibly to other developing countries



Technologies and Community Organization

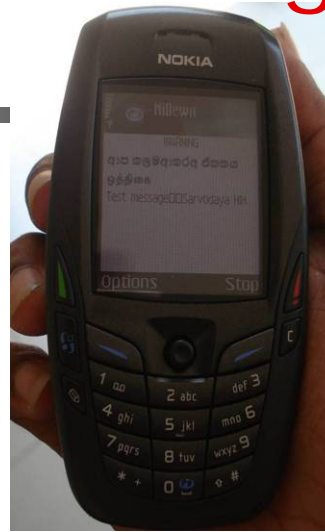
	With ERP Training				No ERP Training			
Sarvodaya Stage 1, 2, 3	VSAT Urawatha (Galle)	MoP Nidavur (Batticalo)	FxP Thirukadalar (Trincomalee)	AREA Moratuwella (Colombo)	MoP Meddhawatha (Matara)	MoP Thambiluvil (Kalmunai)	FxP Oluville (Kalmunai)	AREA Maggona (Kalutara)
	AREA + RAD Modarapallasa (Hambantota)	AREA + FxP Wathegama North (Matara)	AREA + MoP Palmunnai (Batticalo)	Control Village Abeyasinghepura (Ampara)	AREA + RAD Thondamanar (Jaffna)	AREA + FxP Karathivu (Kalmunai)	AREA + MoP Munnai (Jaffna)	Control Village Modara (Colombo)
Sarvodaya Stage 4	VSAT Modaragama (Hambantota)	MoP Diyalagoda (Kalutara)	FxP Periyakallar (Batticalo)	AREA Panama North (Ampara)	MoP Satur-kondagnya (Batticallo)	MoP Samodhagama (Hambantota)	FxP Indivinna (Galle)	AREA Brahamanawattha (Galle)
	AREA + RAD Kalmunai II (Kalmunai)	AREA + FxP Samudragama (Trincomalee)	AREA + MoP Valhengoda (Galle)	Control Village Mirissa South (Matara)	AREA + RAD Venamulla (Galle)	AREA + FxP Kottegoda (Matara)	AREA + MoP Thallala South (Matara)	Control Village Thalpitiya (Kalutara)



ICTs used in reaching communities



CDMA Fixed Phone



GSM Mobile Phone



Remote Alarm Device



Addressable Radios for Emergency Alerts



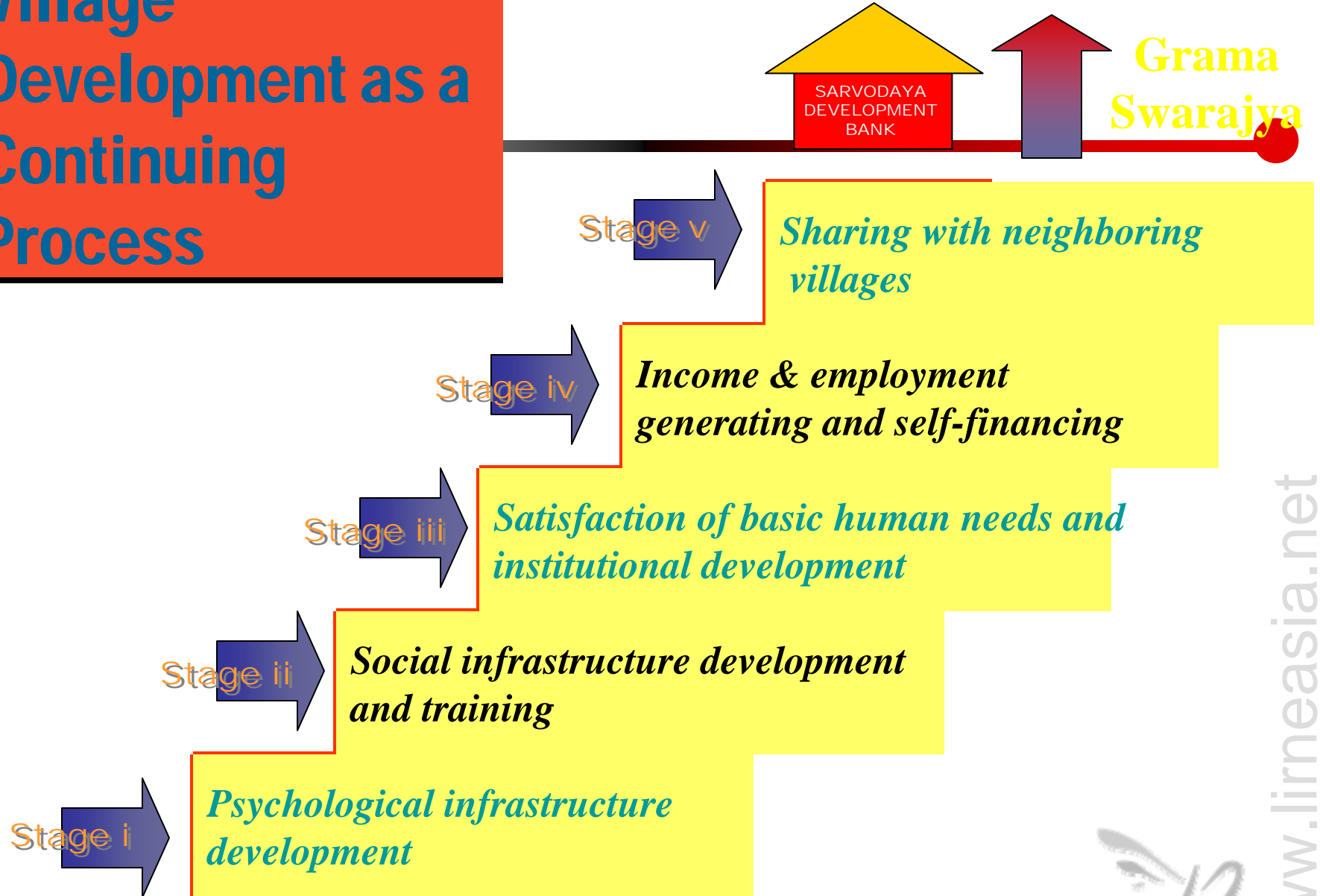
Very Small Aperture Terminals

Hypothesis

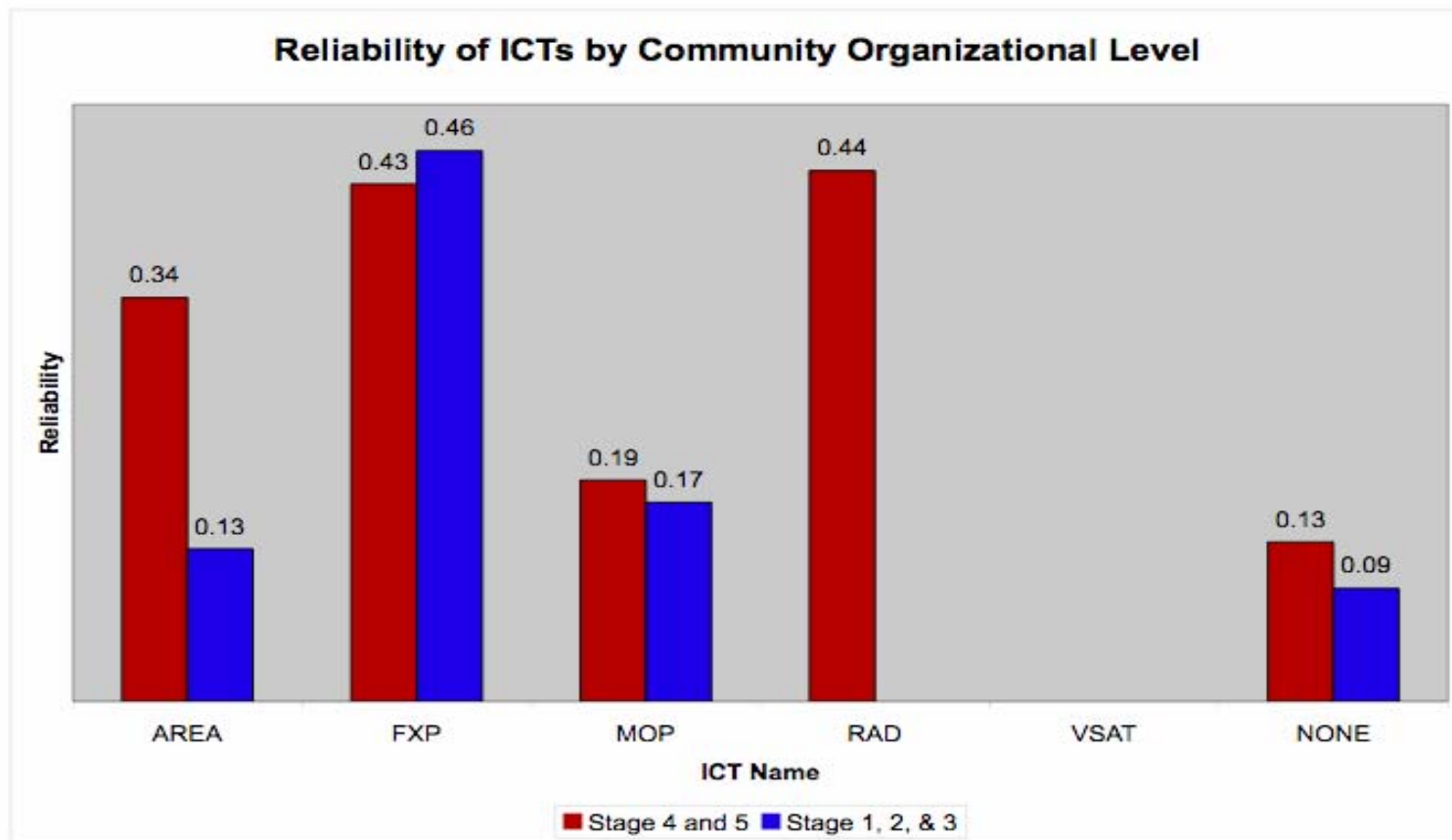
- Sarvodaya level 4 villages participating in the pilot project will use and perform better than Sarvodaya villages in levels 1-3 selected to participate in the pilot. Village Development as a Continuing Process



Village Development as a Continuing Process



ICT Reliability & Community Organization



Correlation between Community Organization and Technology



Leadership

Participation and Responsiveness

Self-Empowerment

Advanced Technology

New Technologies



Recommendations: National Disaster Management Centre

Join all last-mile type early warning initiatives in the country

Capitalize upon signed MoUs with relevant community-based organizations (CBOs) to promote knowledge transfer and cross-pollination for an optimal early warning system

Develop a viable all-hazards early warning system that coordinates with the last-mile



Recommendations: Sarvodaya

Increase capacity building in the Hazard Information Hub (HIH) by training personnel and obtaining necessary hardware and software for the HazInfo project

Seek a mutually beneficial partnership with the National Disaster Management Center through an MoU

Build capacity in disaster risk reduction throughout the organization and especially with communities where HazInfo will be implemented

Assist partners in maintaining and upgrading the HazInfo system through a feedback mechanism

Institute disaster public awareness in HazInfo communities and throughout the network of Sarvodaya communities

Update community organizational level requirements to include the adoption of HazInfo early warning system to become level 4 communities

Suggest ways in which HazInfo communities can use HazInfo technologies for daily use

Recommendations: Partner Organizations

Continue adapting technologies to fit capabilities and uses of target communities

Link with regional and international initiatives in last-mile hazard warning systems to obtain best practices with regard to communities and applicability to the Sri Lankan context

Include all-hazards evacuation plans

Assist Sarvodaya with training both HIH personnel and communities

Provide updated technical hardware and software suitable to communities, as necessary

