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GIS Use for Planning and decision Making in Development Program

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Introduction

- Save the Children is a non-profit organization focusing on development and humanitarian aid in more than 50 countries worldwide.

- Use of GIS initiated getting experience from the USAID funded partnership project – NSDP (Pathfinder International).

- Started in the Food Security program preparing program coverage maps and GPS coordinates of different components of the program to show in the map.

- Extensively used during cyclone SIDR (15 Nov 2007) response for rescue and relief operation.

- Used to submit project proposals and project amendment.

- Used for sampling of conducting survey/assessment.
Linking GIS with Monitoring and Evaluation for showing program services

- Monitoring of installation of service points showing exact GPS location

- Assessing the appropriateness of installation

- Monitoring of partner NGO activities
Linking GIS with Monitoring and Evaluation for showing program coverage to see the outcome

- Showing the coverage of nutritional status in gradient color to measure outcome
- This is helpful to assess geographical relationship with nutrition
- Helps to introduce further intervention for better outcome
Emergency Preparedness

- Categorize the condition of the shelter center and identify them based on the area of vulnerability

- Estimating accommodation capacity of the shelter center in the vulnerable areas which helps to make evacuation plan

- Current use of shelter centers helps to understand the maintenance status

- Prioritize of rehabilitation of shelter centers considering the vulnerability
Use of GIS during cyclone SIDR response planning

Detail map with transportation information makes easy for the planning of relief operation

Prioritization of responding areas

Prioritized Area for Immediate Assistance
Use of GIS during cyclone SIDR response planning

Showing damages and losses in the map based on the initial rapid assessment

Showing service points such as water treatment plant, warehouses, helicopter landing places
Using GIS equipments and software

- ArcGIS 9, ArcPad 7.1.1 software for single user
- 01 unit of Juno ST handheld
- 09 units of e-trex HC Vista
- 03 units iQue 300 Garmin GPS PDA
- 01 unit HP DesignJet 3100 map printer
Lesson Learned

- Linking GIS with Monitoring and Evaluation in the development program helps to assess program progress considering geographical characteristics.

- Helps the program implementation managers for making quick and correct decisions.

- Helps to distinguish program performance by geographical differences.

- Helped tremendously during emergency response particularly for rapid planning and immediate relief and rescue preparation/operation.

- Helps in emergency preparedness planning which contributed to save lives and properties.
Recommendations

- GIS software should be less expensive for the non-profitable and development organizations
- Availability of the software need to be flexible
- Linking procedure of other databases with GIS should be more flexible and compatible
- Developing and promoting the software as a monitoring tool
- Low cost training need to be offered at regional level
THANK YOU!!