

Esri National Security Summit

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GIS Fuses Aid and Emergency Response in the Philippines

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RESPONDING TO TYPHOON HAIYAN

WORLD VISION INTERNATIONAL



WORLD VISION INTERNATIONAL

Photo Credit: Mark Nonkes

Humanitarian & Emergency Affairs



TYPHOON HAIYAN

Photo Credit: Crislyn Felisilda

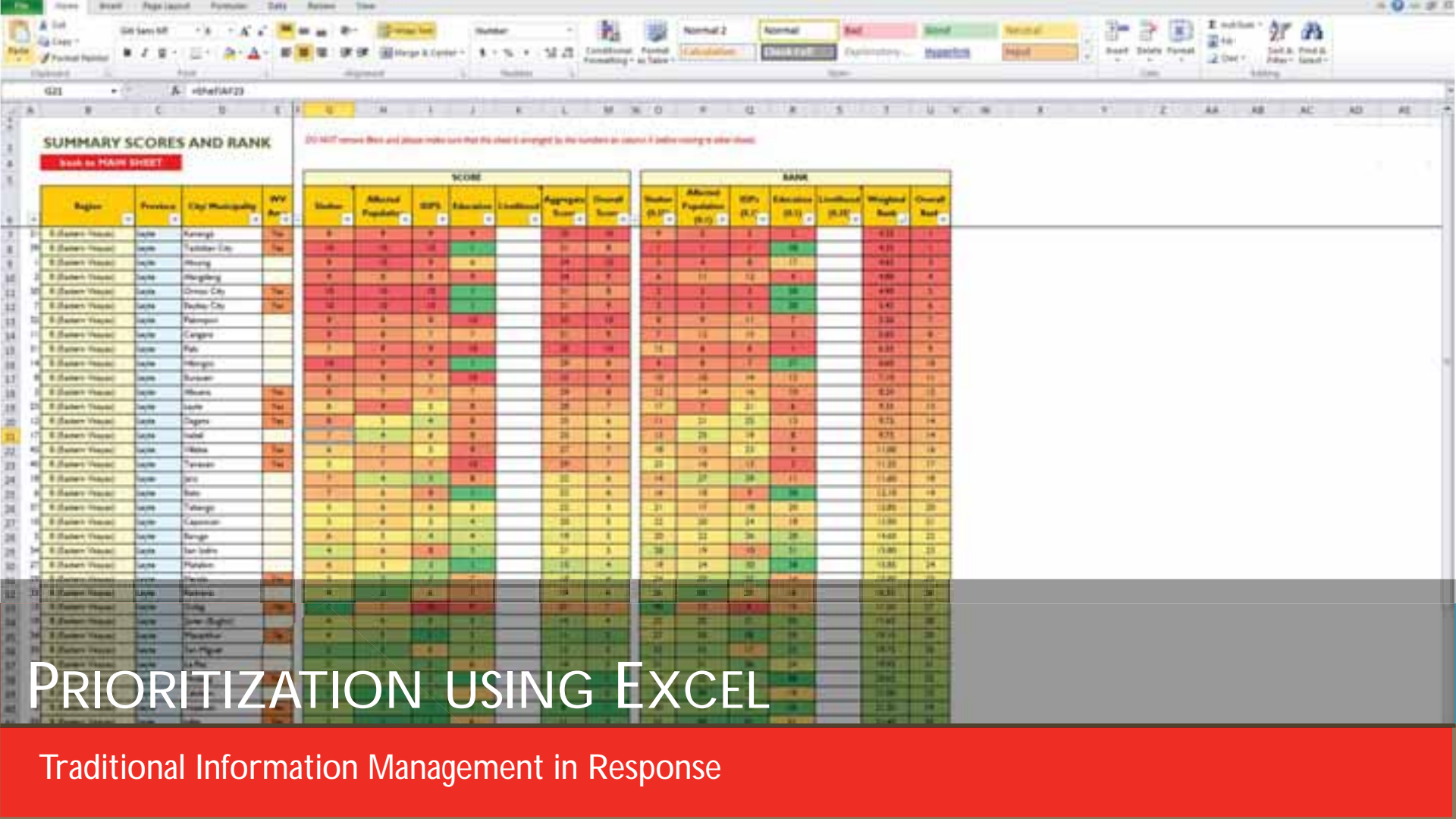
12 Million Affected in the Philippines



WORLD VISION RESPONSE

Photo Credit: Eugene Combo

Initial Goal: Reach 100,000 People



SUMMARY SCORES AND RANK

Click to MAIN SHEET

DO NOT remove Blue and Yellow notes but that the sheet is arranged by the numbers in column 4 below using the other sheets

Region	Previous	City/Municipality	WV	SCORE					RANK							
				Number	Adjusted Population	WPI	Education	Unemployed	Aggregate Score	Overall Score	Number (R1)	Adjusted Population (R2)	WPI (R3)	Education (R4)	Unemployed (R5)	Weighted Rank
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30

PRIORITIZATION USING EXCEL

Traditional Information Management in Response

- Details Add Reverse
- Print Content Legend
- Contents
- Add Distribution Locations
 - Score: Overall HFA Score
 - Food: % HFA with income below food threshold
 - Food: % HFA who experienced food shortage
 - Population: % Poverty Incidence (World Bank, 2008)
 - Population: Population Density
 - Population: Affected villages
 - Population: Affected Families
 - Population: Affected Persons
 - Casualties: Dead, Injured, and Missing
 - Casualties: Dead
 - Casualties: Missing
 - Casualties: Injured
 - Land Area: Square miles
 - Land Area: Hectares (NOCK, 2007)
 - WASH: % HFA with access to safe water supply
 - WASH: % HFA with access to sanitary toilet facilities
 - Housing: Total Damaged Housing Units
 - Housing: Partially Damaged Housing Units
 - Housing: Total + Partially Damaged Housing Units
 - Housing: Total # of Housing Units
 - Score: Shelter
 - Score: IDP
 - Score: affected Population
 - Schools and Hospitals (100% from 2008/09)
 - Schools: % of Schools
 - Hospitals: % of Hospitals



ARCGIS ONLINE WEB MAP

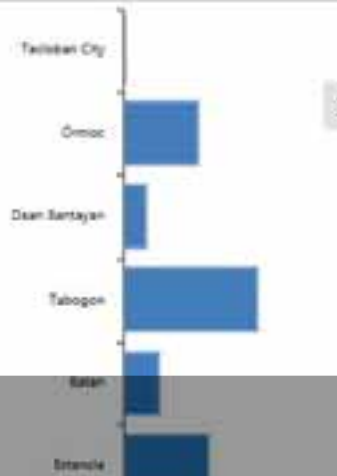
From a Spreadsheet to Interactive Data Visualization

Families Served vs. Target Goal



Target Goal: 140,000

of Kits Distributed by City



OPERATIONS DASHBOARD

Faster Situational Awareness



RESPONSE SUCCESS

Transitioning From Response to Recovery



from EMERGENCY to RECOVERY

WV Haiyan Response-assisted areas

3 CITIES

4 PROVINCES

9 MUNICIPALITIES

10,000

people reached in the
RECOVERY PHASE

713,150

people reached in the
EMERGENCY PHASE



587

students received
learner's kit



2,659

people participated
in Cash for Work project



5

WASH facilities in schools
repaired/reconstructed



9,674

beneficiaries of the
Shelter Program who joined
the Build-Back-Better workshops

1,625

families received shelter tools
and materials



ROAD TO RECOVERY

Photo Credit: Annila Harris

GIS for Recovery and Future Response Efforts



GIS PILOTING IN EAST AFRICA

Photo Credit: Lindsey Minerva

Dashboards for Emergency Monitoring

GIS STRATEGY FOR GLOBAL COORDINATION

Planning	Preparedness	Response	Recovery
Community Risk (Vulnerability) Assessment	Inventory/Asset Management	Routing	Damage Assessment
Program Planning	Target Hazards	Mobile/Field Intelligence	Logistics
Situational Awareness	Target Mitigation	Multidisciplinary Coordination	Deployment Analysis
Public Information	Public Information	Incident/Resource Management	
		Personnel/Asset Tracking and Staging	
		Evacuation/Shelter/Mass Care	
		Public Warning and Notification	

THANK YOU

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Questions?