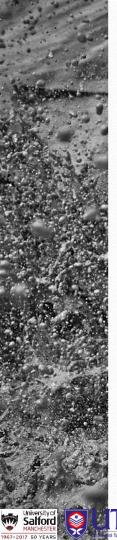
8 80 **Becoming a Better** (Digital) Humanitarian **MOBILISE** team



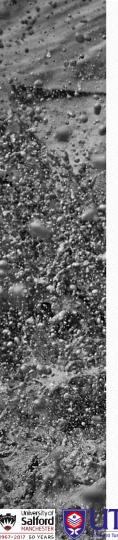


Outline



- •What/who is a Humanitarian?
- •Past
- •Present Disaster Response Cycle
- •Examples of Community Engagement platforms
- Digital Humanitarianism





What/who is a Humanitarian?



hjʊˌmanı'tɛːrɪən/

adjective

humanitarian

1.concerned with or seeking to promote human welfare."groups sending humanitarian aid"synonyms: compassionate, humane;

noun

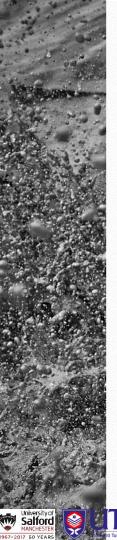
1. a person who seeks to promote human welfare.

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synonyms: philanthropist, altruist, benefactor, social reformer, do-gooder, good Samaritan; *historical* almsgiver;



adp







Kashmir Earthquake 0850hrs 8th October 2005

•Developed to address 2 of the major problems of disaster response: rapid dissemination of information and real-time coordination.

•It provided town-level demographic information (i.e. # of people, roads & schools) for the affected region.

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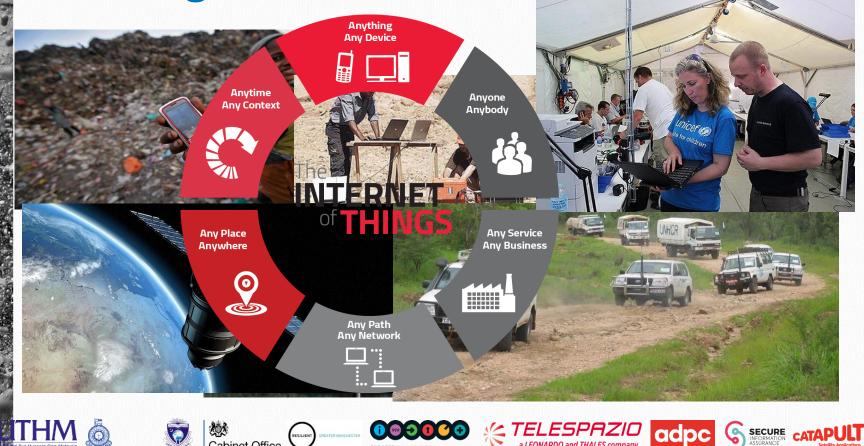
S GGE INFO GGE INFO NEW INFORMATION 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	This filt provides and gathers Demographic, Disaster, Access, and Assistance data and maps on all Extinguake Affected Villages to Help Coordinate Relief Efforts A powerful 7.6-magnitude earthquake at 8:42 AM on Saturday 8th October 2006 has claimed mary lives in Norther Paristan. 80 percent of the affected areas are rural and there is illie information about them. This information-hang web point complex distance 30 percent data, damage, access and relief updates at the villapationn livel to ensure that no one is overlooked in the relief dorts. The information is provided in a flexible and searchable format and is based on data from oppulation statistics, satellites, geographical systems, and relief agencies, workers, and Ical officials. The portal is maintained by a consortium of experts from US and Paixstan UNeventiles, the World Bank, NGOs, and the private sector, with support from the Government of Paixstan. ANY INFORMATION FROM RELIEF WORKERS. VOLUNTEERS, THE GOVERNMENT AND THE MEDIA NEEDS TO BE POSTED IMMEDIATELY YOU CAN DO THIS BY POSTING A NOTICe THE VIESBITE, CALLING US AT 2003 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-473351, 0304 (-
	Important links/buttons Information DataBase Builetin Board Add Rew Information How to Help
	I am in a village and have some information about this village. <u>What should I do?</u> I am a relief worker with an NSO. We are distributing relief in some villages. <u>What should I do?</u> I am a volunter/relief worker. We want to know what village tog to to. <u>What should I do?</u> I shan a volunter/relief worker. We want to know what village tog to to. <u>What should I do?</u> Disclaimer We have no means of vertifying reports from the ground or elicited from our notice-boards. We cannot accred the set to the suite in the strip. Please use the site is the site.

adb



Digital Humanitarianism

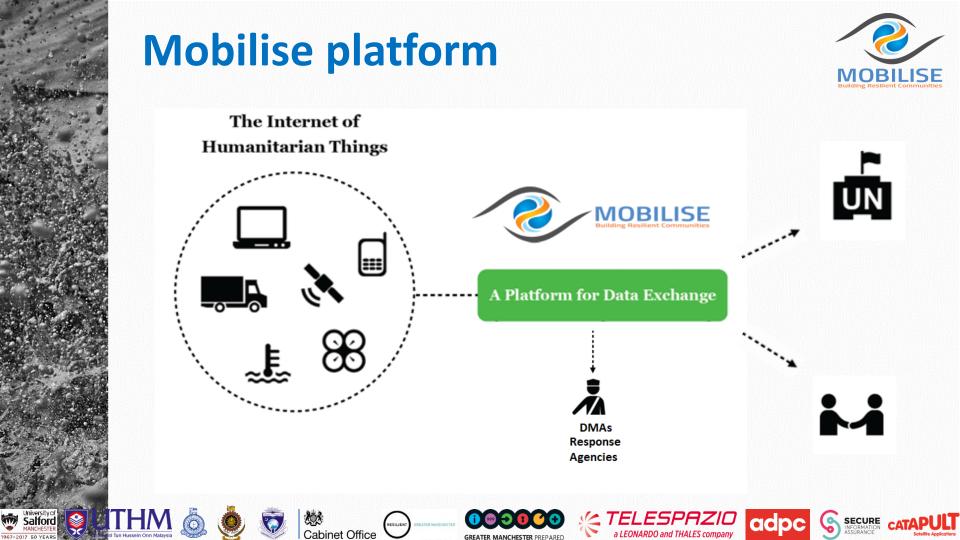
MOBILISE



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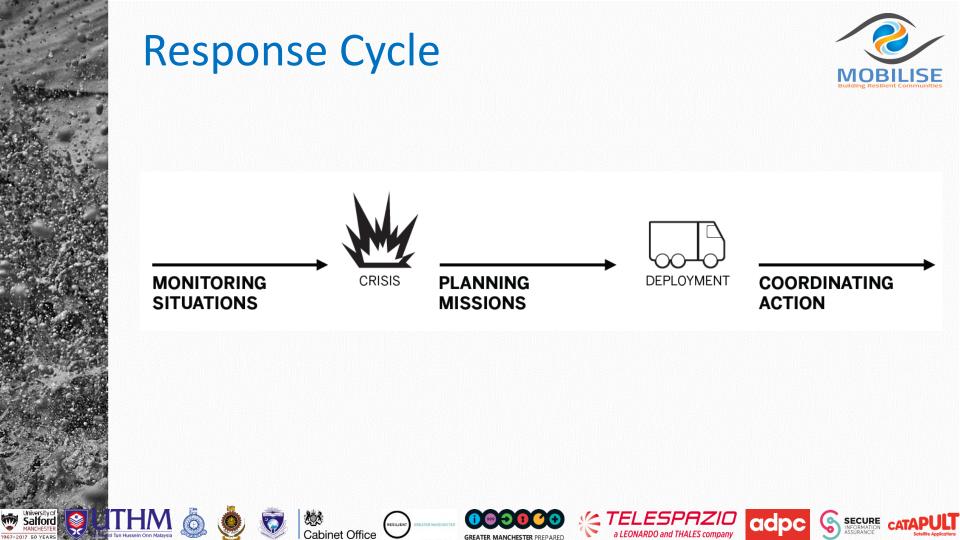


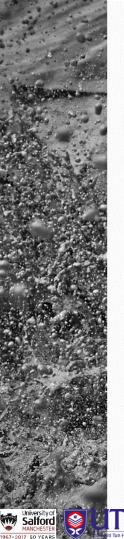
RESILIEN





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MONITORING SITUATIONS



Assess vulnerability and preparedness

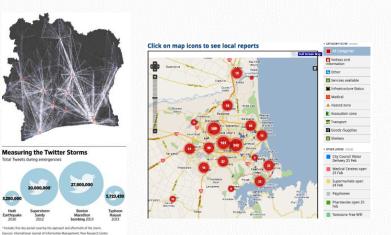
e.g. Environmental sensor reporting on frost risk in Kenya



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Example 1

Anticipate trajectory of evolving disaster e.g. Phone data mapping population movement in Ivory Coast



e.g. Social media tweets or posts regarding developing situation in New Zealand earthquake





THE WALL STREET JOURNAL





1. Ushahidi: Tweets in Disaster Response



Ushahidi (Meir, 2015)

- Founded 2008
- Launched by Kenyan entrepreneurs

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RESILIEN

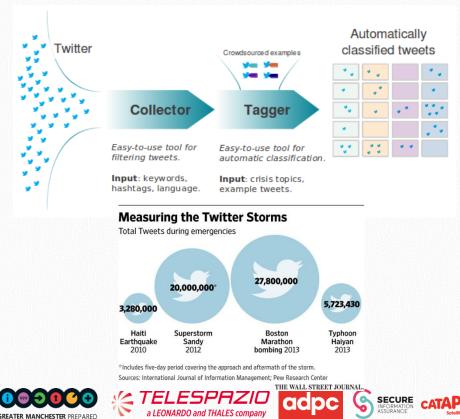
- Estimated 90,000 projects worldwide
- Used in 159 countries and 31 languages



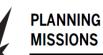
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3

Artificial Intelligence for Disaster Response (AIDR)







CRISIS

DEPLOYMENT



Communicate with victims and responders e.g. Emergency updates sent from DMC to public and responders



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Example 2

Evaluate physical environment

e.g. Satellite imagery from Turkey and Japan showing earthquake pre-post damage

ELESPAZIC

) and THALES company

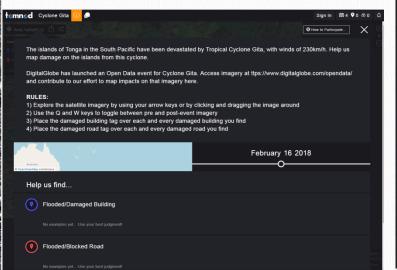


adpc

2. Tomnod: Using Crowd sourcing to sort Satellite data for damage assessments

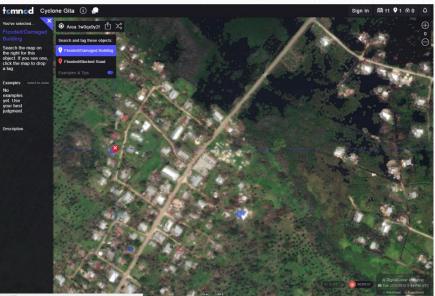


https://www.tomnod.com/



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COORDINATED ACTION

DEPLOYMENT



Track workers and supplies

e.g. Vehicle trackers monitoring distribution of goods



Example 3

Report on the situation e.g. Flood affected people registration in the field in Pakistan



e.g. MOBILISE post disaster impact reporting app



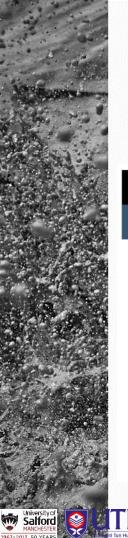












3. KoboToolbox: Using Crowd sourcing for situational awareness



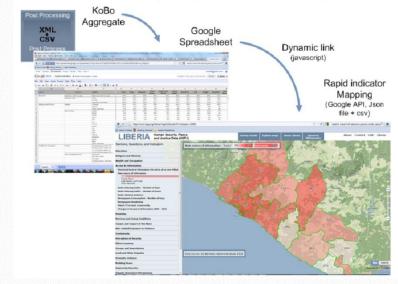
Data collection through



Ø.

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KoBoMap allows you to display the results of your research on a map with user selectable indicators.

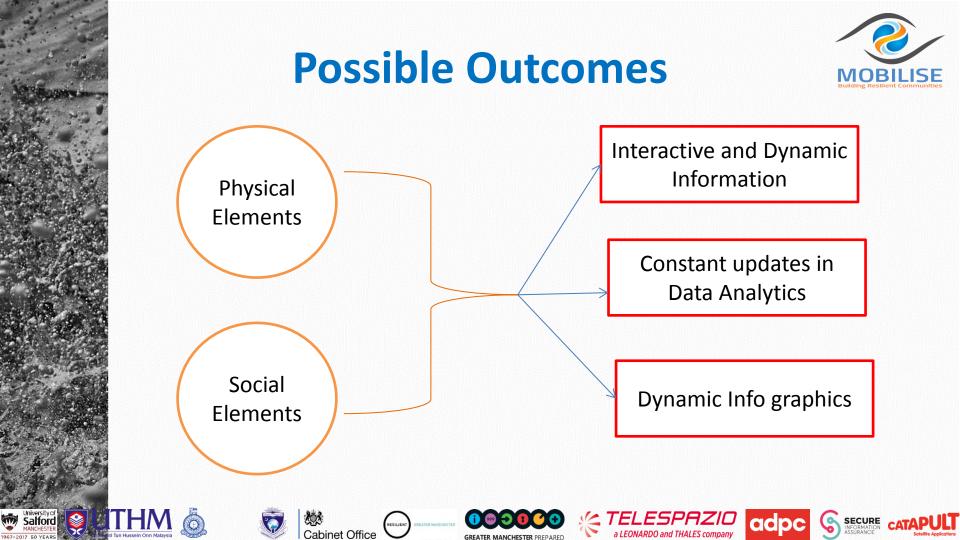




Other Tools

	MOBILISE				
Platforms (Authors)	Preparedness	Response	Recovery	Open Source	Mobile App
City-Share (<u>Ludwig et</u> al., 2017)	-	✓	-	-	✓
TwitInfo (<u>Marcus et</u> al., 2011)	-	✓	✓	✓	-
Twitcident (<u>Abel et al.,</u> 2012)	-	✓	~	-	-
Ushahidi (<u>Okolloh,</u> <u>2009</u>)	✓	\checkmark	V	\checkmark	\checkmark
Mobile4D (<u>Frommberger and</u> <u>Schmid, 2013</u>)	 ✓ (Early warnings) 	✓	✓	-	 ✓
CROSS (<u>Chu et al.,</u> <u>2012</u>)	✓	✓	✓	-	 ✓
OpenStreetMap (<u>Poblet et al., 2014</u>)			a LEONARDO and THALES	~	ASSURANCE Control Association
ti Tun Hussoin Onn Malavsia			a LEONARDO and THALES	rompany	ASSURANCE Satellite Applications









Members









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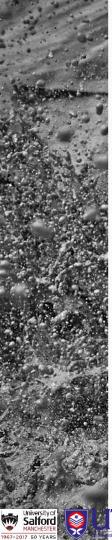
RESILIENT



form plants represent same s.







Thank you



"The change has come – and we (the disaster response agencies in the public sector) need to embrace the change from analogue to digital in our processes if we are to do our jobs better."

M.Khalid, DG, PDMA, Chair Steering Committee (Pakistan), MOBILISE project



