Technology, Disaster Management and The Future

Dr. Jemilah Mahmood

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Humanitarian Futures Programme
King's College London

For the purpose of this meeting

- The futures perspective of disasters
- Challenges in Asia Pacific
- Technology Use – Who, How, When?
- Organizations for the Future
- Going the Last Mile

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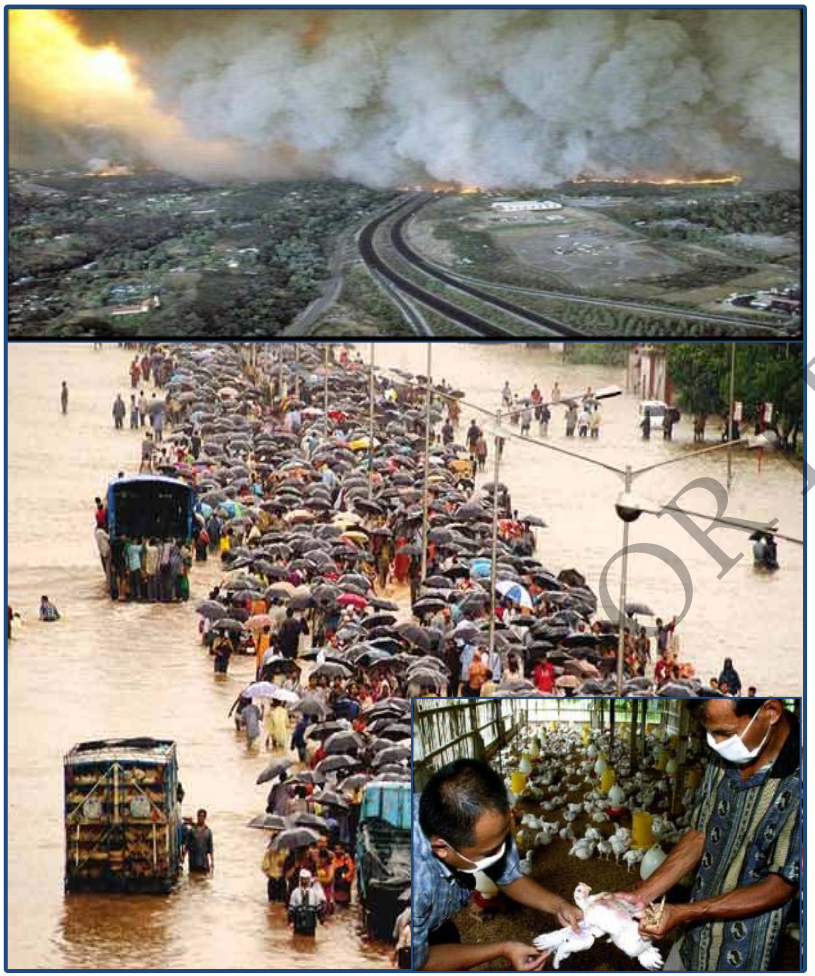
Changing nature of humanitarian crises



- ✓ Types of disasters
- ✓ Dimensions of disasters
- ✓ Dynamics of disasters

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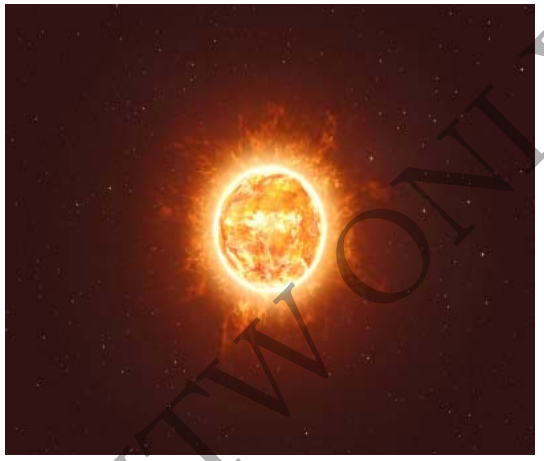
Humanitarian *futures*



Changing nature of humanitarian crises

Future crises in a global context

The 21st century humanitarian organisation

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Some Statistics for Asia Pacific Region

- Asia Pacific countries suffer about a third of all global disasters annually but account for up to half of all deaths, damage and losses.
- From 2006-2011, developing countries in the region experienced 34% of world's recorded disasters, 44% of deaths, 87% of people affected, and 33% of disaster-related economic losses.
- Annual economic cost of disasters averages $53.8 billion in Asia and the Pacific.
- More than half the world's slum dwellers live in Asia.
- High levels of urban poverty and informal settlers, and weak planning and regulation heighten disaster risks in cities

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Who Uses Technology?

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Technology in Disaster Management

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The Rio de Janeiro Human Rights and Technology Conference, hosted by Access, in partnership with the Center for Technology and Society from Fundação Getulio Vargas' Law School, will examine and explore how the information and communications technology (ICT) industry can better plan for and manage the human rights implications of their technologies. Intended as an outcome-oriented event, the conference will be

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Technology and Disaster Preparedness

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Early Warning

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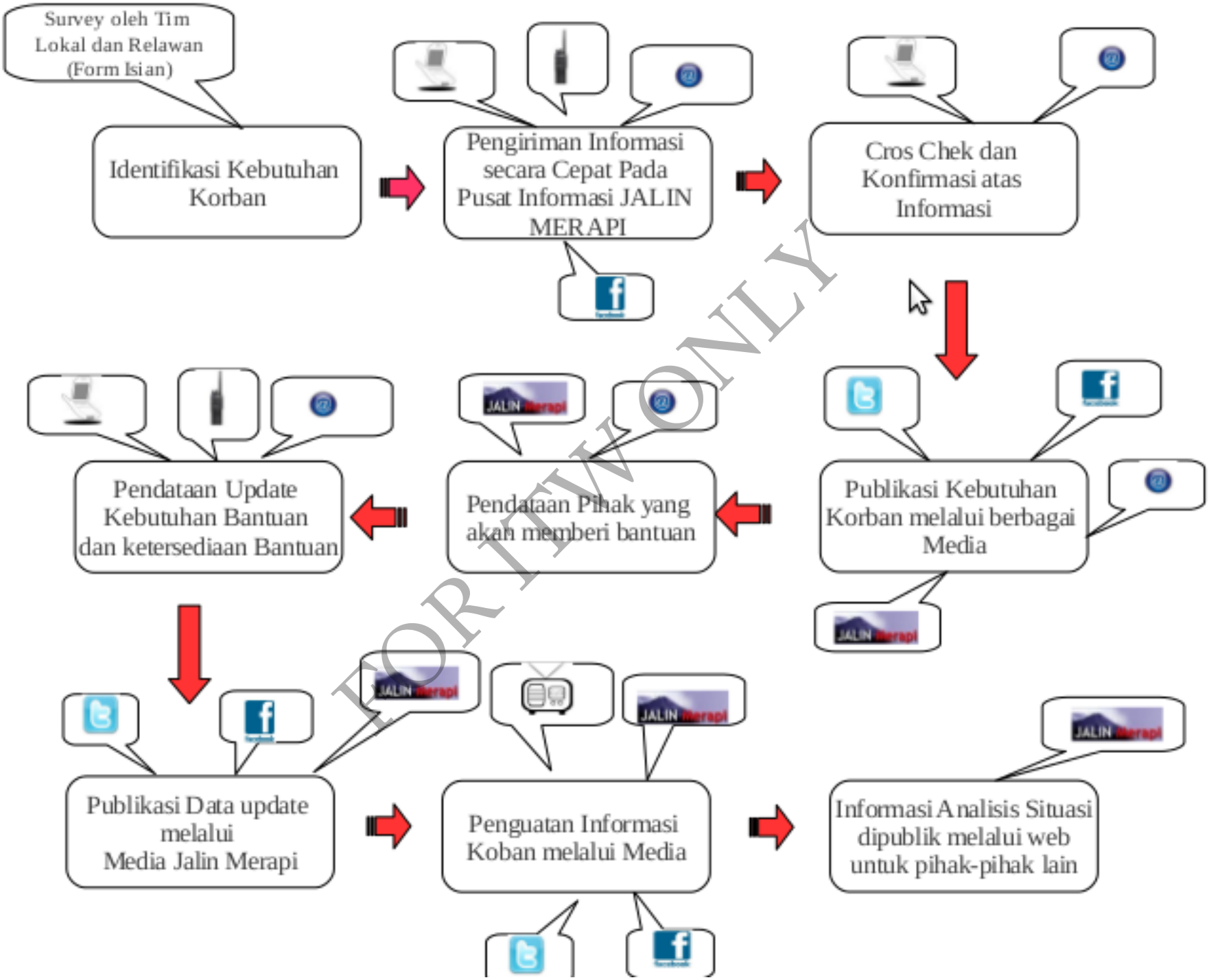
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Cros Chek dan Konfirmasi atas Informasi
Publikasi Kebutuhan Korban melalui berbagai Media
Pendataan Pihak yang akan memberi bantuan
Pendataan Update Kebutuhan Bantuan dan ketersediaan Bantuan
Publikasi Data update melalui Media Jalin Merapi
Penguatan Informasi Koban melalui Media
Informasi Analisis Situasi dipublik melalui web untuk pihak-pihak lain

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Early Warnings pay off after Indian Ocean tsunami alerts

CRAIG | APRIL 11, 2012

The 8.7 earthquake that struck off the coast of the Indonesian Island of Sumatra on April 11 brought a sense of foreboding that the region might see a repeat of the 2004 Indian Ocean tsunami which caused widespread devastatio to coastal communities across thirteen countries. Fortunately the...

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Technology in Humanitarian Response

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Use of Technology in Humanitarian Response

- Mapping
- Assessments
- Food Assistance
- Information
- Accountability

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Information is Aid & Two-Way Communications is Crucial

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"A tremendous amount of time, energy and resources is devoted to reporting on activities in the field for the benefit of private and institutional donors far from the people living in the communities we are trying to assist.
All of this is done in the pursuit of accountability, but

very little information actually reaches the beneficiaries

of our aid programs."

Jason Cone, Communications Director

MEDECINS SANS FRONTIERES
DOCTORS WITHOUT BORDERS

Source: http://bit.ly/JhlYnW

“We are simply not keeping up and are failing to understand how important communication is. Communications technology is reshaping the world that we live in, and is, by extension, reshaping humanitarian space. It’s also redefining the role that we, as aid agencies, UN, NGOs, Red Cross, whatever, can play. But we’re not really noticing. People have grown to expect interaction. We do it every day – email, social media, sms. And yet when it comes to the work that we do our general perception seems to be that communication is about us communicating our message to the people that we are aiming to assist”.

- Oliver Lacey-Hall, UN OCHA ROAP

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POLICY BRIEFING #6 MARCH 2012

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Still left in the dark?

How people in emergencies use communication to survive – and how humanitarian agencies can help

Organisations fit for the future

- Anticipation
- Adaptation
- Innovation
- Collaboration
- Strategic leadership

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The humanitarian organisation fit for the future

Anticipation

Adaptation

Innovation

Collaboration

Strategic leadership

Robust and responsive strategic planning and trend monitoring capacities

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The humanitarian organisation fit for the future

Anticipation

Adaptation

Innovation

Collaboration

Strategic leadership

The organisational flexibility to regularly review strategies and programmes and adapt to changing environments

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The humanitarian organisation fit for the future

Anticipation

Adaptation

Innovation

Collaboration

Strategic leadership

The ability to draw on innovative practices from a wide range of disciplines to prepare for future threats

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The humanitarian organisation fit for the future

Anticipation

Adaptation

Innovation

Collaboration

Strategic leadership

Dynamic interactions across a range of internal & external networks

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The humanitarian organisation fit for the future

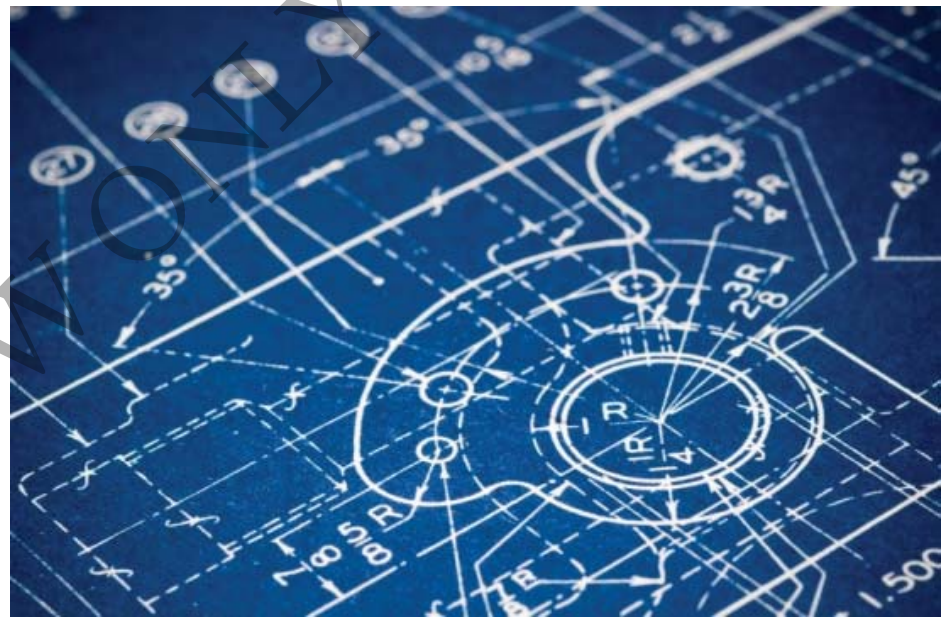
Anticipation

Adaptation

Innovation

Collaboration

Strategic leadership



Achieving a set of objectives that reflect a clear purpose over time, based on abiding goals and values

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Going the Last Mile - The Role of NGOs and CSOs

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TSUNAMI SIREN DAMAGED AFTER FALSE ALARM
Guardian, 07/06/2007

Thursday June 7, 2007 12:31 PM JAKARTA, Indonesia (AP) – Angry villagers stoned a tsunami warning siren in Aceh province after it accidentally went off, triggering panic in the region hardest hit by the 2004 killer waves, an official said Thursday.

Several false alarms in Kaju district early Monday sent thousands of people fleeing to high ground before they were finally urged by police to return home. Roads were clogged with motorbikes and cars for more than an hour.

When another siren sounded in nearby Lhoknga later that afternoon, frustrated residents threw rocks at its electrical panel, said Syahnan Sobri of the local Meteorological and Geophysics Agency.

It was too high up, so they stoned it,“ he said, adding that technicians were being sent to the scene to survey the damage.

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In 2012, ADRRN celebrates 10 years as a network. From its inception in 2002, it has evolved from a few core members to a network of 37 Asian organisations and continues to grow, even involving some international civil society organisations as Associate Members. Harnessing the combined energies and vibrant membership from 18 Asian countries, ADRRN is at the forefront of risk reduction efforts.

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Key questions

- ✓ What priority and space should we give to thinking about the future?
- ✓ How sensitive are our policies to global transformations?
- ✓ What if we fail to prioritise longer-term strategic thinking?

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Disasters: top technology to save more lives

10 APRIL 2012

The UK Government will fund a range of innovative projects to save more lives in emergencies such as earthquakes, floods and famines.

Smart phone 'apps', super buckets and satellite technology could soon be helping people survive major disasters as part of a British Government scheme that will champion breakthroughs in innovation and science over the next three years.

The strategy will focus on improving the use of cutting-edge technology and innovation in responding to large scale earthquakes, floods and famines in a bid to get more help to more people in the aftermath of a disaster.

International Development Secretary Andrew Mitchell has warned that the world must become more resilient to future shocks if it is to cope with the predicted increase in natural and man-made disasters. He will bring together a group of world leaders on 20 April at the World Bank to ensure there is much more focus

Changing lives through technology: a

Humanitarian INNOVATION FUND

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Capturing the humanitarian imagination

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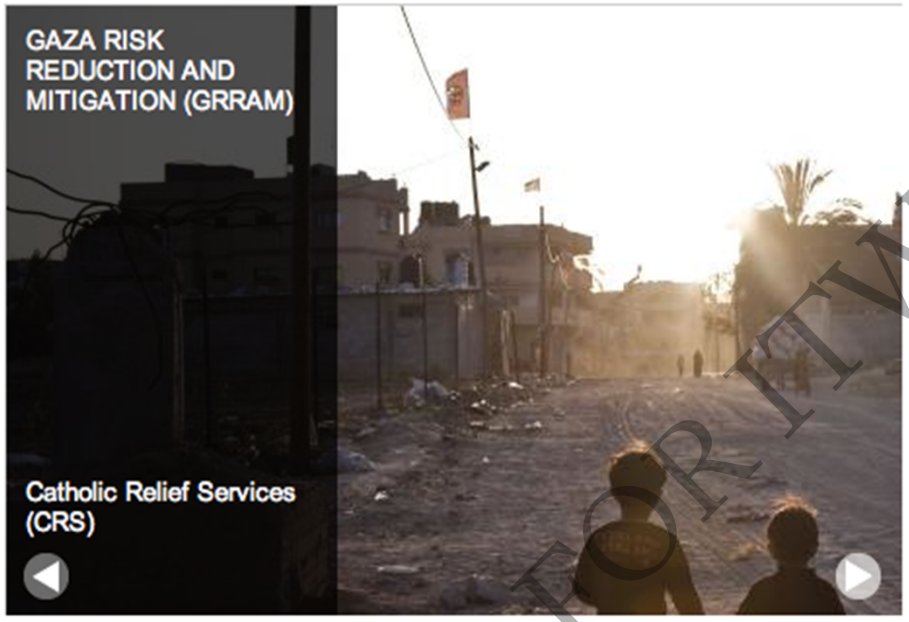

News

Introducing the HIF Challenge! Earthquakes, tsunamis, flash floods and...

HIF Information Event in Kenya 23rd May 2012 - Kenya Nairobi Kindly hosted...

Our Motivation small grant project ends Our small grant project 'Appropriate and...

QUICK LINKS

INNOCENTIVE

Our $15,000 Challenge

HIF has joined forces with InnoCentive to find a new, better way to contain or dispose of human waste during emergency response situations.

HIF film

An informational video (available in **English** and in **French**) to explain the how the HIF works, and how innovation is being used to help in humanitarian crises.

Funding status

Humanitarian INNOVATION FUND HIF

Small grant facility: **OPEN**

Large grant facility: **CLOSED**

Click here for more information...

Blog

Identifying Socio-Technical Trends for Rural water supply schemes using Case-based Reasoning (CBR)
Mon 14 May 2012

Radio Zereda: A Voice for LRA Affected Communities in Obo
Fri 11 May 2012

Freedom Fone and Sahana case study presented at the CDAC Technology Fair
Thu 10 May 2012

Twitter feed

The_HIF Supporting Innovation in African News: bit.ly/K229BR

The_HIF Use of bamboo for emergency shelter in South Sudan bit.ly/JcMzBl lnkd.in/g582dV

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Page last updated at 13:32 GMT, Friday, 9 March 2012

Tsunami steers Japan tech innovation

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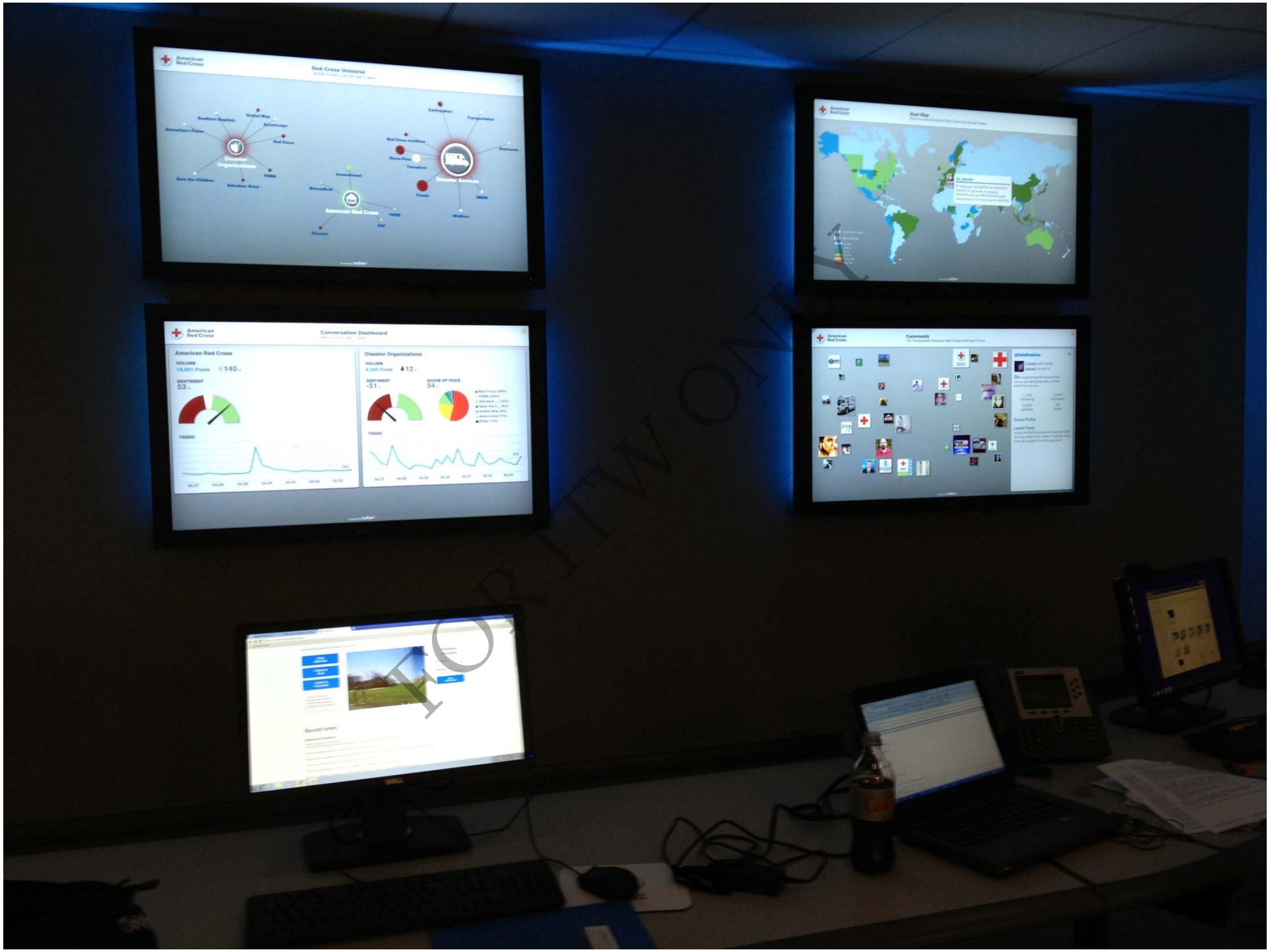
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GLOBE MAGAZINE

Inside Harvard's spy lab

April 29, 2012 | By Michaël Blanding

THIS STORY APPEARED IN The Boston Globe

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Satellite images by DigitalGlobe; group portrait by Bob Packert; and Clooney photograph by Jonathan Hutson

Nathaniel Raymond, Brittany Card, Isaac Baker, Ziad Al Achkar, Jody Heck,... (bob packert)

LATE-AFTERNOON LIGHT slants outside the windows of a Harvard Square conference room where half a dozen twenty- and thirtysomethings huddle around a table covered with laptops, several cups of coffee, and one falafel sandwich. It could be a grad student study session, at least until a young woman named Brittany Card stands up in front of a white board covered in drawings of soldiers and tanks in Sudan.

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Thank you

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