Table ronde 5 :
Cartographie d'urgence
Emergency Mapping
MapAction is an international NGO that provides maps and other information services to help humanitarian relief organisations in the field.
MapAction essentials

- Deliver mapped information to responders at field level
- Rapid deployment, interoperable with UNDAC and Humanitarian Clusters
- Humanitarian needs-driven; tech-agnostic
- 34 emergency deployments since 2004
Maps are important for...

Reference and navigation during the assessment phase of an emergency

Creating a ‘common operational picture’

Targeting relief assistance: avoiding gaps and overlaps
Geodata types

- Archived base map data
- Topographic mapping as available
- Pre- and post-event imagery
- Locally-acquired situation data (geocoded or not)
The disaster risk reduction cycle

Source: RIBA 2009
MapAction’s capability

Within 24 hours a MapAction emergency team can be at the disaster scene, gathering data and issuing maps showing crucial information for responders
Mission mobilisation
- Team alerts
- Base map data
- Equipment etc

Field data collection with UN assessment groups
- GPS survey

Field Base in affected country
- Collate/analyse info
- Assemble data layers & produce maps

Support Base

Maps issued to relief agencies in field

Maps uploaded to online platforms
MapAction’s operational partners

- Governments of affected countries
- Humanitarian Clusters
- UN agencies
- National and international Red Cross/Red Crescent
- Disaster relief NGOs
- Humanitarian donors
MapAction support services in the field

- Data collection, collation and analysis (with UNDAC IM function)
- Assistance with field assessments (planning, navigation, GPS survey)
- Design and setup of reference datasets – settlement locators, p-code tables, who-what-where
- Map preparation and production
- Advice to partner organisations for continued use of GIS during recovery phase
Map distribution

- Printed maps – local distribution
- Images – local distribution
- MapAction website download
- Local web services/feeds: WMS, WFS, KML

Formats

Users

- Humanitarian agencies
- Local agencies
- Local population
- International/national media
- Fundraisers
Data flows

MapAction Support Team

MapAction Field Base

OSOCC

Base map data

Situation data

In-country / field level

KML, WFS

Paper maps, JPGs
MapAction’s operational experience: humanitarian emergencies

2003 Lesotho food crisis
2004 Asian tsunami
2005 Niger famine
2005 Pakistan earthquake
2006 Suriname floods
2006 Java earthquake
2006 Dominican Rep hurricane
2006 Kenya floods
2007 Ghana floods
2007 Jamaica hurricane
2007 Mexico floods
2008 Bolivia floods

2008 Myanmar cyclone
2008 Haiti hurricanes
2009 Namibia floods
2009 Pakistan IDP crisis
2009 Sri Lanka post conflict
2009 Benin floods
2009 Burkina Faso floods
2009 Philippines typhoons
2009 Sumatra earthquake
2009 El Salvador flash floods
2010 Albania floods
2010 Haiti earthquake

2010 Pakistan floods
2010 Saint Lucia hurricane
2011 Libya conflict
2011 Japan earthquake
2011 Cote d’Ivoire crisis
2011 Nicaragua floods
2012 Philippines floods
2012 Sahel food crisis
2012 Madagascar floods
2012 Brazzaville explosions
2012 Comoros floods
2012 Paraguay floods
Complex Emergency: Cote d’Ivoire 2011
Surveying humanitarian needs in a challenging post-conflict environment
Reference maps
Early warning and risk assessment
Evacuation planning
Mapa que muestra las inundaciones y deslizamientos que se extendieron en la zona de San Vicente y el volcán de San Vicente o Chichontepec.

Damage extent and hazards
Kyrgyzstan: Civil Conflict | as of 16 June 2010

- 75,000 refugees
- IDPs with host families 260,000 (planning figure)
- IDPs requiring shelter 40,000 (planning figure)

Map Sources: UNCS, ESRI, OCHA

The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations. Map created on 16 June 2010
Population movements
Impact assessment
Logistics planning
Statistical mapping: Needs and relief deliveries
Congo:
Brazzaville Munitions Depot Explosion - Allocation of Sub-Sectors by Organisation (as of 24 Mar 2012)

Maps show the distribution allocation of teams to each sub-sector. Top map shows initial investigating team. Map below shows team issued or planned to carry out community liaison work. Table also shows allocation by sub-sector.

Data sources:
- Situational data: United Nations Mine Action Team
- Demining teams: UNM, HMCA International Deminer, (ICRC, French, FAC), MapAction

Special tasks: EOD
Who-What-Where (3W)

Pakistan WASH Cluster - Who, What, Where

<table>
<thead>
<tr>
<th>Province</th>
<th>PCode</th>
<th>Known Total Number of Organisations Providing Assistance in Province</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balochistan</td>
<td>2272</td>
<td></td>
</tr>
<tr>
<td>FATA</td>
<td>2273</td>
<td></td>
</tr>
<tr>
<td>Gilgit Baltistan</td>
<td>40409</td>
<td></td>
</tr>
<tr>
<td>Khyber Pakhtunkhwa</td>
<td>2275</td>
<td>14</td>
</tr>
<tr>
<td>AJ&amp;K</td>
<td>40408</td>
<td></td>
</tr>
<tr>
<td>Punjab</td>
<td>2276</td>
<td></td>
</tr>
<tr>
<td>Sindh</td>
<td>2277</td>
<td>35</td>
</tr>
</tbody>
</table>

Provincial Summary Table

Abstract:
Map shows total numbers of agencies providing WASH Cluster assistance, compiled by the WASH Cluster as of 19/06/2010. The organisations have been aggregated and displayed in the map at a District level. The organisations have also been summarised in a provincial table ensuring no double counting has occurred (note some agencies did not specify which district they were working in, and are included in Province totals).

Disclaimers:
The designations employed and the presentation of material on this map do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

Note:
Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.

Sources:
Gaul, WASH Cluster
Map Data: WHS_WASH_SM_V1 AS_118000010
GLC2000: World Geodetic System 1984
Creation Date: 18/06/2010
Projection/Datum: WGS84
Normal Scale at All Paper Size: 1: 1,200,000
Disaster preparedness

MapAction’s primary focus is its ability to respond quickly and effectively to disasters through:
- training
- data preparedness
- partnerships
- appropriate equipment

MapAction also builds GIS and Information Management know-how to improve disaster resilience through:
- training
- capacity-building
- regional partnerships
- systems and documentation
Researhing and disseminating new methods

MapAction Field Guide to Humanitarian Mapping

First edition published 2009

Field tested in Papua New Guinea
MapAction gratefully acknowledges the support of

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