22-23 Septembre – Centre de Congrès Le Manège – Chambéry

4th Forum of Geographic Information for Relief and Development

GeonG 2014

Turning data into actionable knowledge

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1. INTRODUCTION

With the Haiyan typhoon in the Philippines, the Ebola crisis in West Africa and the Syrian crisis, we can see that humanitarian interventions are numerous and very different one from the other. Technologies like the cloud and mobile data collection tools are more and more present to help field effort. Data is also more widespread than before as well as more accessible thanks to these new technologies and to new data sources (crowdsourcing, satellite imagery, UAV…). The Haiti earthquake of 2010 helped bring to the fore these new tools and data in emergency management.

However, a number of international organizations are yet trying to adapt to these new possibilities: the GeOnG is a privileged moment to share best practices and be trained to new tools for increased response efficiency.

1.1. GeOnG, a not-to-be-missed event!

The GeOnG, organized by CartONG every even-numbered year since 2008, is a unique event where the humanitarian and development community exchange with geographic information professionals to share new advances in mapping and information management technologies and approaches. Meeting, sharing, and being trained are the key aspects of the GeOnG, that dwells on the issues and challenges of the humanitarian sector concerning geographical information.

The 2008 edition focused on the role of GIS as a decision-making tool in humanitarian crisis. The next edition followed up on the question of data collection during emergencies with the new available GPS and smartphone tools. 2012 was focused on the ways and the tools to make the data available accessible to the field with the different technical constraints involved.

1.2. “Turning data to actionable knowledge”

After the success of the previous editions, CartONG has decided to yet again unite the actors of geographical information and humanitarian aid in 2014. This time, we decided to take a step back and reflect on data and its meaning.

Given the proliferation of data collection tools and means of access and storing data, such as cloud solutions, we must

question our capacity to assimilate and understand all the data available. Indeed, being able to process data and turn it into relevant information has become a crucial skill.

By "Turning data into actionable knowledge" GeOnG will make you think about the different ways through which data collection can make analysis easier as well as how to make sense of your data, taking into account the targeted audience and the context. With the quantity of data accessible, the quality of the analysis is all the more important to avoid misinterpretation.

1.3. Program and aims

The conference will begin with a keynote speaker, Dr Philippe Calain, who will cover the question of the ethics associated to the data we use. Then, after a plenary session on our key subject "From data to actionable knowledge" to understand the process through which data can become information, the conference will continue with different roundtable sessions (both general and technical) and hands-on workshops.

This year, the workshops will be longer and in reduced groups, to favor skills transfer. They will concern data management and geographical information tools, as well as new field innovations.

We will also have a 2014 novelty, a speed geeking session which will provide an opportunity to meet differently, with project managers presenting their ideas and discussing them in small groups. This session will make it possible to exchange opinions and feedback on the projects in a relaxed atmosphere.

2. WHO IS CARTONG?

Founded in 2006, CartONG is a French Non-Governmental Organization based in Chambéry, whose staff and volunteers are committed to furthering the use of geographic information systems (GIS) to improve data gathering and analysis for emergency relief and development programs around the world.

2.1. Our aim

We provide to the relief and development actors the tools they need to acquire and manage data they can use to plan rationally, implement efficiently and assess the impact of their interventions. Thus our goal is to improve the quality of the services delivered to vulnerable populations, and to induce a sustainable growth for developing countries.

We were initially specialized on the theme of IDPs & refugees, and have now widened our interventions to a variety of fields: post-disaster emergency mapping, struggle against deforestation, crop management, public health, mobile data collection, etc.

Our teams work with state-of-the-art tools, using the innovative applications offered by new technologies (smartphones, GPS, remote sensing, Internet etc). They allow us to collect precisely key information on the needs of the people and of their environment.

We work with local, national and international organizations, in particular with NGOs specialized in emergency recovery and development, and with United Nations agencies such as the United Nations High Commissioner for Refugees.

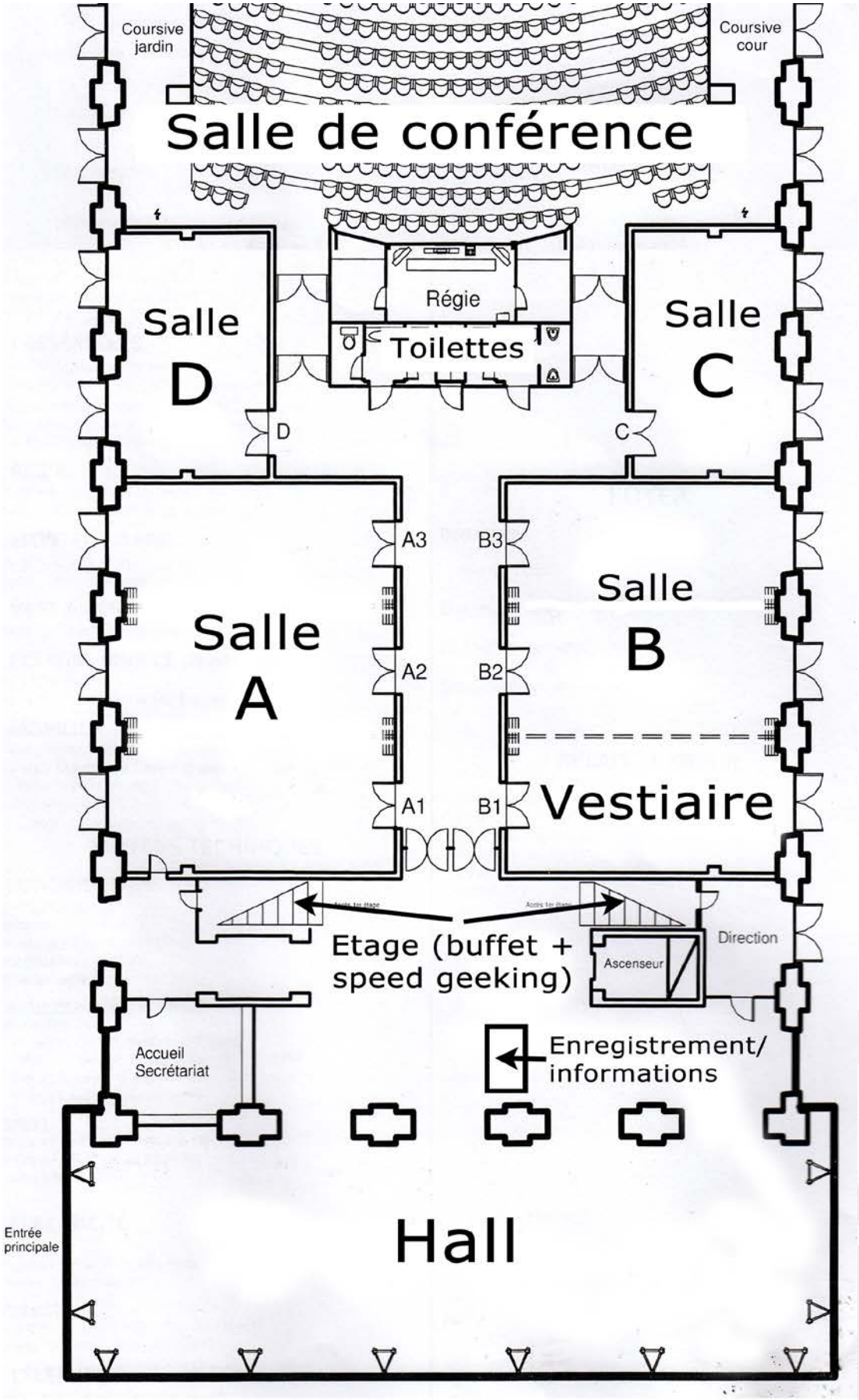
Integration of communities and capacity building for local staff are a major part of our interventions, in order to develop projects sustainable and fitting the needs of the beneficiaries.

2.2. Our actions

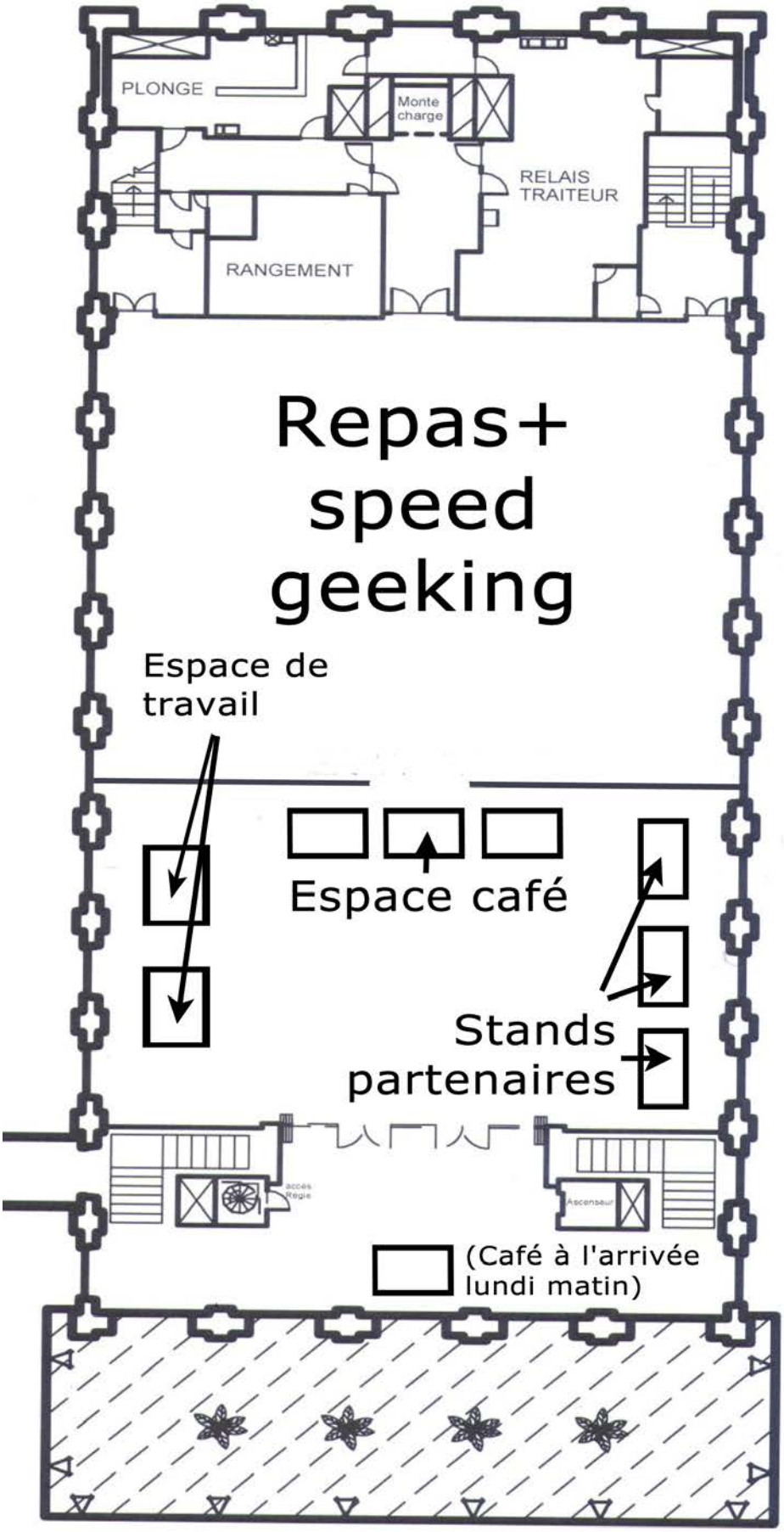
- ➔ Capitalization of geographical information to facilitate decision-making, constitute data repositories and communicate.
- ➔ Services of expertise in mapping, GIS and management of information linked to field humanitarian projects.
- ➔ Training of national and international staff (classroom-based or e-learning).
- ➔ Promotion of innovative solutions accessible to all. For this, we defend the use of GIS and new technologies by NGOs, but also the pooling of data and coordination of actors.

3. CONFERENCE CENTER MAP

3.1. Ground floor



3.2. 1st floor


PLONGE
Monte charge
RELAIS TRAITEUR
RANGEMENT
Repas+ speed geeking
Espace de travail
Espace café
Stands partenaires
accès Regie
Ascenseur
(Café à l'arrivée lundi matin)

4. AGENDA AND SESSIONS

Day 1		Salle
8.00	Doors opening and workshops registration	
8.45	GeOnG opening	
9.00	**Keynote speech**	
	Data ethics. Ethic challenges in the collection and use of geographic data for public health	
9.45	**Coffee break**	
10.15	**Plenary session**	
	René Saameli (ICRC) - Paul Spiegel (UN HCR) - Paola de Salvo (Esri)	
11.15	**Round tables**	
	Epidemiological mapping in emergency context: what for and how to proceed ?	Amphi
	Data for donors: their needs, yours and how to make them match	B
	Satellite imagery: it's for you too	A
12.30	**Lunch break**	
14.00	**Workshops**	
	ArcGIS ; a tool to turn data into actionable knowledge	B
	Simple data collection for mixed desktop and smartphone environments	C
	Use UAV imagery for mapping and risk management	D
	Collecting data with OSM	A
16.00	**Coffee break**	
16.30	**Workshops**	
	Making dashboards with d3.js and dc.js	C
	Aerial mapping in every circumstances: hot air and helium	B
	From data collection to analysis with Kobo Toolbox	A
	QGIS introduction for humanitarian workers	D
18.00	**End of the day**	

Day 2		Room
8.00	Doors opening	
8.30	**Speed Geeking session and Breakfast**	
10.00	**Round tables**	
	Sharing 2.0: have we started to share data instead of reports ?	Amphi
	Indicators on the go: maintaining and knowing when to change	B
	When citizens get involved: volunteers and crowdsourcing, what to expect ?	A
11.15	**Workshops**	
	Export and use OSM data	B
	Coding ODK forms with Excel	C
	PSI Mobile Fusion's: a mobile solution for beneficiary management, aid distribution and data collection	A
	R: a free software for statistical analysis	D
13.15	**Lunch break**	
14.45	**Round tables**	
	Data visualization: does data need to be beautiful to be useful ?	A
	Integrating the systems or the workflows: can we really automate everything ?	Amphi
16.00	**Coffee break**	
16.30	**Workshops**	
	Designing a basic data collection survey with ODK 2.0	D
	Humanitarian eXchange Language	A
	Easy web-mapping with CartoDB	C
	How to create a survey when several actors are involved	A
18.00	**End of the day**	

5. KEYNOTE SPEAKER

Data ethics. Ethic challenges in the collection and use of geographic data for public health

Dr Philippe Calain (MSF-Switzerland)

Philippe Calain is a medical doctor specialized in infectious diseases and tropical medicine. He also holds a doctorate in biology (virology). He has worked in Rwanda, Afghanistan and Laos and is currently a senior researcher at the Research Unit on Humanitarian Stakes and Practices (UREPH) of MSF Switzerland. His current research focuses on humanitarian medicine, research ethics, public health ethics, global health governance, public health surveillance, and extractive industries.

- The collection of geographical data has always been essential to inform public health activities. GIS and mapping technologies offer new developments and great benefits to public health, particularly in the case of outbreak investigations and control.
- From an ethics perspective, GIS data collected for public health purposes is not different from other data. Depending on use and purpose, mapping peoples' features (including health conditions) can have benefits but can also be harmful. For example, the collection or disclosure of information may lead to psychological distress, discrimination, economic loss, or loss of dignity. In extreme cases, the mapping of individuals or communities affected by stigmatizing diseases can entail a risk for their physical security.
- Are there specific ethical considerations to keep in mind for GIS data collection, data sharing or publication? How can potential burdens and harm be minimized when collecting and sharing GIS data? When should individual and community consent be sought?

6. PLENARY

Paul Spiegel (UNHCR)

Paul Spiegel is the Deputy Director of the Division of Programme Support and Management at the United Nations High Commissioner for Refugees (UNHCR), as well as a Senior Fellow for the Harvard Humanitarian Initiative and Adjunct Professor at Bloomberg School of Public Health. In addition to a substantial involvement as Medical consultant for numerous organizations, he published many papers on HIV, epidemiological methods and health information systems.

UNHCR contributes to coordination and informed decision-making in refugee operations by providing accurate, relevant and timely data and statistics. This key resource is used by all partners to respond to the needs of refugee populations.

Paul Spiegel will introduce the global strategy of the Division of Programme Support and Management for data management. Responsible of 3 technical sections, this Division manages important volumes of data from the field, and has to produce high-quality information to support decision-making both internally for UNHCR and with partners.

Paola de Salvo (Esri)

Environmental Biologist with 12 years of experience as Geospatial Analyst within various United Nations agencies (mainly the FAO and World Food Program) involved at Head Quarter and field locations.

Passionate user of GIS technology in support of evidence-based decision-making, Paola joined Esri 2 years ago as technical Account Manager within the Non Profit and Global Organization Team, based in Geneva, Switzerland.

All the information in the world is useless if it cannot be acted upon and technology does not have a mind of its own. The humanitarian community has been called upon to provide reliable, timely key information to decision makers; this will allow for decisions that will impact people's lives and livelihoods.

Geo Spatial Technology should no longer be considered the bottleneck that prevents the humanitarian community and decision makers from understanding and reaching their targets. Now more than ever, Esri Geo Spatial Technology is ready in all of its components, (desktop, server, mobile and cloud technology, open data). It is a strong, reliable and totally interoperable platform that will support operational and decentralized complex layouts to identify and reach millions of beneficiaries worldwide, allowing data to be brought into easy consumable information and therefore foster decision making and action. A variety of real time web mapping applications will be shows at the plenary.

René Saameli (ICRC)

René Saameli joined the International Committee of the Red Cross (ICRC) in 2000. He was initially sent as an ICRC Water and Habitat project engineer to Kenya, Sudan, and the Democratic Republic of Congo. He then took over Water and Habitat program coordination in Israel, the Occupied Palestinian Territories, and then Eritrea. In 2006, he joined the ICRC headquarters in Geneva, where he set up a mapping and geographic information management team. He now supervises a distributed team of over 25 GIS officers working in the headquarters and major ICRC operations. René Saameli has a masters degree in Civil Engineering from EPFL

ICRC manages many projects, in many countries on various themes: Protection to water and sanitation projects. With more than 25 GIS officers based on the ground, the ICRC GIS HQ unit within the Water and habitat section, has become more and more a cornerstone in the coordination of information management within the organization. René Saameli will present the methods developed by the ICRC to manage geographic information, through examples of tools and projects used on different operations and headquarters.

7. ROUND TABLES

7.1. Epidemiology mapping: what for and how to proceed?

Chair: Pierre Micheletti (MDM-Sciences Po Grenoble)

Maps and data visualization are often not the priority when a crisis hits: first we have to act. However, they can prove to be precious allies when it comes to facilitate the intervention and can even improve its efficiency while helping decision makers. What is the role of GIS during emergency interventions in epidemiology, what basic data is required, who should have access to the maps produced, is there any restriction to the displaying of such potentially sensitive maps, and even to their simple production? These questions will be raised, and our speakers will try answering them.

Ana Sanchez (ACF-Spain)

Dorothée Palayan (MSF-Belgium)

Mathieu Soupart (MSF-Switzerland)

7.2. When citizens get involved: volunteers and crowdsourcing, what to expect?

Chair: Andrew Braye (British Red Cross)

Widely available satellite imagery and social networks have allowed mapping to be one of the few sectors where individuals can make an actual contribution to humanitarian efforts remotely. Many global or local volunteer networks have emerged in the past few years, with the objective to provide aid actors with more accurate and up-to-date geographic information, but NGOs and international organizations often have questions on how to collaborate with these actors, and what to expect from the data they're producing. Is the communication flow good between humanitarian community and the crowdsourcing community? What is expected from both sides? Which data/end results are expected and in which format?

Christophe Billen (People's Intelligence)

Pete Masters (MSF-UK & Missing Maps Project)

Jorieke Vyncke (HOT) & Ivan Gayton (MSF-UK)

Pierre Béland (HOT)

7.3. Satellite imagery: it's for you too!

Chair: Josh Lyons (Human Rights Watch)

Many agencies specialize in satellite imagery processing and many products are now available: are you aware of the satellite imagery analysis being produced? Are the products useful to you or would you need something else? Are the products available to your organization? Can you access the georeferenced data or is it only an end product? This user friendly round table will review these questions but others will also be raised: do we have sufficient access to satellite imagery as background data, is it cost prohibitive, how quickly can you really access to the analysis you need, what to do when satellite imagery is not sufficient or not usable (clouds)?

Stefan Lang (Salzburg University)

Jean-Claude Courteille (CNES)

Arnaud Durand (SERTIT)

7.4. Sharing 2.0: have we started to share data instead of reports and are the others able to make sense of it?

Chair: Maeve de France (CartONG)

Have we taken a step further in data sharing? More than reports do we actually share data? With is the most useful? What are the prerequisites to insure that the data is usable by others? What are the differences between base maps and business data?

Laurent Pitoiset (UN HCR)

CJ Hendrix (OCHA)

Mathieu Becker (Isogeo)

Helen Campbell (MapAction)

7.5. Integrating the systems or the workflow: can we really automate/integrate everything?

Chair: Audrey Lessard-Fontaine (CartONG)

How effective are integrated systems, is using a single tool always the best solution, can we get rid of the human part of data analysis? Is it better to have an integrated system under a single overarching architecture or is it better to have a suite of tools? What are the pros and cons of the two solutions and what have been the choice of different NGOs for different projects? Where do you stop integrating the system?

Nick Imboden (OCHA)

Jean-Martin Bauer (WFP)

Simon Quet (RRM-ACTED)

Stéphane Vouillamoz (Novel-T)

7.6. Data visualisation: does data need to be beautiful to be useful?

Chair: Jacopo Ottaviani (Tactical Tech)

Collecting and analyzing data is important, but, to share information, data often needs to be displayed in an attractive way. Our round table will focus on the importance of an esthetic representation of the information VS the usefulness of such a representation. Indeed, is a beautiful presentation always a useful one? Is visualization as important as the analysis and the content of the information?

Jean-Charles Denain (IRD– 3Liz)

Andrew Braye (British Red Cross)

7.7. Indicators on the go: maintaining them and knowing when to change

Chair: Natalia Baal (JIPS)

It is always challenging to find indicators that you will be consistently reporting on. Some indicators are needed at a given moment, for example to plan new activity, but are impossible to assess repetitively (too much energy/time wasted). How do you choose indicators that can serve for assessment as well as for monitoring activities? Can the two be fully compatible? Do you systematically need to define a different set of indicators for monitoring?

Victoria Sauveplane (ACF-Canada)

Christophe Dupont (Caritas)

7.8. Data for donors: their needs, your needs, how to make them match

Chair: Lisa Guppy (ELRHA/HIF)

Reporting and accountability are now part of humanitarian work but how do we succeed juggling with donors' need for data and reports and our own, to what extent can these needs match, how do donors use the data collected? These questions will be raised during our round table by both donors and NGO representatives.

Luvini Ranasinghe (IFRC)

Chloé Stirk (Global Humanitarian Assistance)

Luke Caley (DFID)

Vincent Annoni (REACH)

8. WORKSHOPS

8.1. ArcGIS: a tool to turn data into actionable knowledge

The workshop will be focused on a real scenario, understanding how through the ArcGIS Platform components data can be easily converted into actionable data and dynamically consumed by everyone.

Esri Maps for Office, ArcGIS Online and Operation Dashboard will be show-cased and exercises will be provide to attendees who will like to test the technology for their scope of work.

Paola De Salvo (Esri)

Environmental Biologist with 12 years of experience as Geospatial Analyst within various United Nations agencies, mainly FAO and World Food Program involved at Head Quarter and field locations.

Passionate user of GIS technology in support of evidence based decision making, Paola joined Esri 2 years ago as technical Account Manager within the Non Profit and Global Organization Team, based in Geneva Switzerland.

8.2. QGIS introduction for humanitarian workers

QGIS is an Open Source GIS supported by an international community of users and developers. This workshop aims at training humanitarians and professionals to use QGIS for humanitarian purposes.

Anthony Scott (Map Action)

Antony Scott is a Geospatial Consultant for Astun Technology Ltd. He volunteers at MapAction where he delivers GIS and GPS training for humanitarian operators, and works to build preparedness and GIS capacity.

8.3. Designing a basic data collection survey with ODK 2.0

OpenDataKit is one of the most complete tools for mobile data collection and is largely used in the aid sector. Using smartphones and tablets makes the survey process easier, accelerates synchronization and produces more accurate information. This training will give all the knowledge needed to start using ODK and present some of the possible applications. It will also introduce ODK 2.0 new features.

Francis Vachon (CartONG)

Francis Vachon has a physical engineering training for the Laval University. Specialized in information and databases, he's done various field missions for CartONG and other organizations for different NGOs-work that he alternates with a tree planting team management job in Quebec.

8.4. From data collection to analysis with Kobo Toolbox

KoBo Toolbox is a solution for integrated data collection, including a questionnaire creation tool, a mobile data collection application, a synchronization platform as well as a mapping and data visualization platform easy to use. Based on OCHA's experience this workshop will teach you how to create a survey with Kobo from coding the questionnaire to the analysis of the collected data.

Nick Imboden (OCHA)

After a Masters of Sciences in Development studies at the London School of Economics, and a Master of Engineering from the University of Oxford, Nick Imboden hold several positions as IT Manager for UNDP, OCHA, UNRWA. He is now Humanitarian Program Officer at United Nations OCHA.

8.5. Collecting data with OSM

One of the numerous assets of OpenStreetMap is that it allows everyone to contribute, even without knowledge or experience in mapping. OSM community has contributed to the development of numerous tools which permitted to render mapping easier, remotely as well as on the field, even if Internet access is limited. This training will be an occasion to learn how to use field data collection tools, with smartphones (OSM tracker) or just paper and a pen (walking papers), and then how to digitalize the data obtained.

Léo Martine (CartONG) & Guillaume Allègre (OSM-Fr)

Intern at CartONG since April 2014, Léo Martine is currently completing his studies in Territorial Development Engineering at the Institut de Géographie Alpine, Grenoble.

Part 1: Presentation of OSM and its uses in humanitarian contexts

Part 2: Introduction to contribution using HOT's Tasking Manager

Part 3: Collecting data outside with various tools

Part 4: Uploading your data in OSM with JOSM

8.6. Export and use OSM data

OpenStreetMap is often the most complete geographic database for developing countries, especially when the OSM community is mobilized during a crisis. But humanitarian GIS officers rarely know how to export and use the data. This training will aim at presenting different exportation methods (Geofabrik.de, HOTExports, BBBike,

Overpass) and several examples of the possible uses, for mapping, GPS and even smartphones (OSMAnd).

Pierre Béland (HOT)

Pierre Béland, economist, is member of the Humanitarian OpenStreetMap Team (HOT). That organization applies the principles of open source for humanitarian response and economic development. In 2013, he has joint the Board of HOT after many years of active volunteering and coordinating on projects for the Democratic Republic of Congo and Mali.

8.7. R: a free software for statistical analysis

R is the leader open source platform for statistical analysis and displaying of data sets. This workshop will help you discover the analysis, visualization and mapping functions based on concrete examples. It will also integrate how to import data from other open source tools.

Hélène Mathian (CNRS-EVS / Lyon), Robin Cura (Géographie-cités / Paris)

Having a background in statistics, Hélène Mathian is research ingenior at CNRS in Lyon, France. She is specialized in spatial analysis and modeling. She has been working with geographers for many years but also collaborated to several national and international interdisciplinary projects. Robin Cura is a GIS specialist, and PhD student involved in the research program TransMonDyn on the evolution and the changes in the settlement system on the long run.

8.8. Humanitarian eXchange Language

This workshop will review the alpha version of the Humanitarian Exchange Language (http://hxlstandard.org) and guide participants in a practical exercise of HXLating their own data. A primary goal of the exercise is to provide a practical test of the alpha standard and provide input to future development.

CJ Hendrix

CJ Hendrix is technical lead on UN OCHA's Humanitarian Data Exchange project (http://hdx.rwlabs.org), which aims to improve interoperability of humanitarian data and access to decision-support analytics. He has spent over 15 years working in information management in humanitarian, development, and land-use management contexts.

Part 1: Why standards?

Part 2: Who will use HXL?

Part 3: How can HXL succeed where other standards initiatives have failed?

Part 4: What does HXL look like?

Part 5: What can we do with it? Exercise

8.9. Use UAV imagery for mapping and risk management

UAV are getting more and more accessible and their utility in the humanitarian sphere recognized. CartONG's experience will be at the base of this training which aims at explaining how UAVs can be used for mapping and spatial analysis. To be seen: how does the Sensefly eBee function, a Pix4D post-treatment demonstration and explanations on when the produced images can be used for the follow-up and risk-management with INASafe (a QGIS plug-in)

Coordination: Fred Moine & Aurélien Jacoutot (CartONG)

Aurélien Jacoutot, graduated in GIS, conducted various GIS projects in many fields before joining CartONG. He was in Haiti in May 2014 to train local communities (COSMHA) to use an UAV, in order to enhance participatory mapping with OpenStreetMap. Frédéric Moine has worked in a number of NGOs, and works today at Terre des Hommes-Suisse; he is also an experimented OSM contributor and a CartONG volunteer. He has been experimenting UAV technology and its use in OSM communities since 2010.

8.10. Aerial mapping in every circumstances: hot air and helium

Aerial imagery has become one of the most useful sources of information in contexts of emergency, but it isn't always easy to access satellite imagery or to have a civil UAV flying. Balloons are a good alternative in these cases: cheap, light and easy to deploy they allow the production of quality aerial imagery in short time frames. This workshop will aim at showing how to use balloons and to treat the images they produce for mapping and monitoring. A hot air balloon construction exercise will also be proposed. These balloons can be used almost freely in any country, providing the weather is suitable.

Chris Hepp (APDER)

Chris Hepp is a medical Doctor with a Master in Humanitarian Assistance and a Master in Health Policy Planning and Finance. He has worked for NGOs, various United Nations Agencies, the European Commission (ECHO) and for the International Red Cross mainly in Coordination and Planning and lecturing occasionally Humanitarian Affairs in the University of Barcelona. Chris made his first experience with mapping and rudimentary GIS in 1996. In 2010 Chris was one of the founders of APDER which is a small non-profit – NGO specialized in supporting Coordination and Planning processes with visual Information in Disasters, Emergencies and Recovery, thus focusing on low cost – high tech application tailored for developing countries. In 2012 APDER made the first field test in Haiti. In the view of using adapted technology first experience with Solar balloons followed in 2012

Part 1: General Information about balloons and aerial photography

Part 2: Legal aspects of flying a balloon

Part 3: Launching and landing

Part 4: Building a solar balloon: The participants will be divided into smaller groups. Each group will have the possibility to put their hands on each of the production steps.

Part 5: Launching the balloon

At the end of the workshop, the participants should understand how to build a solar balloon and basics such as weather conditions to launch the balloon. If the conditions allow it the group will launch the Solar balloon and probably make some aerial photos (even if we have to use a hairdryer).

Appendix: Sensor&Systems article: « Quick and in 3D: High-resolution Aerial Photos for Disaster Response and Recovery» - (https://www.sensorsandsystems.com/article/features/30506-quick-and-in-3d-high-resolution-aerial-photos-for-disaster-response-and-recovery.html#sthash.2hZ51jMK.dpuf)

8.11. Making dashboards with d3.js and dc.js

Want to discover and understand the basics of D3 and DC, two tools dedicated to data visualisation, particularly with interactive infography? This workshop will help you familiarize yourselves with the tools.

Simon Johnson (British Red Cross)

Simon Johnson is a Technical Project Coordinator at the British Red Cross.

Part 1: What is d3.js, what is dc.js? When to use each one?

Part 2: Using dc.js

8.12. Easy web-mapping with CartoDB

CartoDB is an easy-to-use tool to create nice-looking webmaps. At the end of the workshop, you will know how to upload your data in various formats, style it as you want and share it as a webmap on your website. Please bring your laptop and create a free account on cartodb.com before attending to the workshop

Léo Martine (CartONG)

Intern at CartONG since April 2014, Léo Martine is currently completing his studies in Territorial Development Engineering at the Institut de Géographie Alpine, Grenoble.

Part 1: Presentation of CartoDB and the possibilities it offers.

Part 2: Uploading data.

Part 3: Styling data: symbology, legends, popups …

Part 4: Sharing your map.

8.13. PSI Mobile's FUSION - A Mobile Solution for Beneficiary Management, Aid distribution and Data Collection

PSI Mobile's Fusion is an enterprise grade mobile application platform which is currently deployed with multiple humanitarian organizations in Syria, Haiti, DRC and other trouble spots**.** The solution enables NGOs to register large numbers of beneficiaries, automatically assess vulnerability status, record all interventions, securely manage the distribution of cash vouchers, support cash-for-work programs and provide management and donor reporting. Our workshop will take you through the solution in detail and all attendees will receive free evaluation license to enable a hand's on review.

Kieran O'Toole (PSI Mobile)

Kieran has over 20 years of experience working in the technology sector. Over the last 5 years Kieran has worked with PSI's NGO partners supporting the deployment of mobile applications across Africa, Asia and Central America.

Part 1: Introduction to PSI Mobile

Part 2: Introduction to Fusion

Part 3: Demonstration of the Beneficiary Management Application

8.14. Simple data collection for mixed desktop and smartphone environments

Wepi is a free web-based application created from the infrastructure of EpiConcept's health information systems platform. It is an easily approachable web-based form creation and data collection system. The workshop will bring you though the process of creating a new form, sharing it with others, entering information – via a PC or ODK collect (including GPS), and exporting the data for analysis. Bring your laptop and roll your own web database with us. Wepi is ideally suited for; case report forms, prevalence studies, registrations, surveys, questionnaires, outbreak investigations, and other flat file collection tasks. Wepi can be used as an Xforms editor as well.

Curtis Broderick (Epiconcept)

Curtis has been with EpiConcept since 2010 creating user documentation and training, user experience design and managing the Wepi project. His background is in mobile hardware, instructional design and education.

8.15. Coding ODK forms with Excel

It is no longer necessary to have advanced coding knowledge to design forms! Thanks to Enketo's converter, you can design your forms in Excel which later can be used in ODK, Formhub, KoBo Toolbox... During this workshop, you will learn all the controls to design a form, plus a few tips from our experts!

Sylvie de Laborderie

Sylvie joined CartONG in May 2013. As a GIS Officer, she regularly goes to the field for ODK trainings and GIS missions. Committed to the Humanitarian Sector since October 2011, she has a background in cartography. She facilitates CartONG's trainings and is involved in HQ projects.

Part 1: Introduction to xls file and to the converters.

Part 2: Simple coding – Practical Exercise – Your first Xlsform

Part3: Advanced coding for more complex forms – Practical Exercise – Advanced form

Part 4: Tips and Tricks

8.16. Conducting a survey with multiple actors involved

It is very common to set up a survey with multiple actors involved, whether they are UN agencies, international NGOs, or local non-profit or for-profit partners. But coordinating these various actors who have different interests and cultures is not always easy. This workshop will present some useful techniques to conduct this process, from the questionnaire definition to the implementation and analysis, with JIPS' seasoned training material.

Natalia Baal (JIPS)

Natalia has been working at JIPS since its early days in 2010. She now oversees the delivery of field support at JIPS and works as Deputy Coordinator of the Service. During her time with JIPS she has supported a number of operations conducting collaborative profiling exercises in countries including Myanmar, Mali, CAR, Afghanistan, Colombia, Kosovo and Somalia. Before JIPS Natalia worked with UNHCR's durable solutions unit in Geneva. She studied social sciences and human rights at Edinburgh University and the London School of Economics.

9. SPEED GEEKING

The speed geeking session will be an opportunity for project managers to present and discuss their ideas with small groups of participants: like a speed dating, but with ideas!

Among the presentations:

Aurélien Jacoutot – CartONG volunteer

Unmanned Aerial Vehicule (UAV) are increasingly affordable, and their usefulness in the humanitarian sector is increasingly acknowledged. Participative mapping is a powerful tool to enhance the communities' resilience facing natural disasters, but also to engage a dynamic for the local development of the territory. Building on CartONG's field experience in Haiti, this speed geeking will demonstrate how to use an UAV for participatory mapping.

Madagascar project team – CartONG volunteer

Numerous NGOs are active in Madagascar but for most of them they are working discretely and without coordination, which limits their efficiency as well as their local and international visibility. A map of these solidarity actions might play a role in improving the visibility of these NGOs. The mapping tool would give a general overview of all actions both at the local and global level, gather the means of action as well as the practical teachings, ensure a better follow-up of the actions lead on the field and therefore would contribute to the greater efficiency of international solidarity. The aim is to set up an **online platform gathering the information on solidarity projects in Madagascar**, which would be accessible thanks to an intuitive, complete and collaborative mapping interface.

Frédéric Jacon – Camptocamp

GeOrchestra is an interoperable and secure open spatial data infrastructure created in 2009, initially to answer the INSPIRE directive requirements in Europe. This prosoftware has been deployed in France and at the International level in order to handle the important amount of geospatial data to catalogue, display and valorize.

Assanke Koedam - JIPS

The **Dynamic Analysis and Reporting Tool (DART)** is a web-based data management system where humanitarian and development actors can explore, analyse and visualise displacement data collected through profiling exercises supported by the Joint IDP Profiling service (JIPS). The aim of DART is to improve the dissemination, access and analysis of profiling data of displacement situations.

Jean-Martin Bauer – WFP

The **mVAM project** is piloting food security data collection from households through short mobile phone surveys, using live telephone interviews and an Interactive Voice Response (IVR) system. The objective of the pilot is to learn about the suitability of voice calls for survey research in the humanitarian world, and to see if voice calls can make food security monitoring surveys more time and cost efficient. The high frequency data collected is used to track trends in vulnerability and support decision making processes.

Karen Kisakeni – Danish Demining Group

Access to timely and accurate information is often very limited in areas where mines and other explosive remnants of war (ERW) pose hazards to the local population. The Danish Demining Group (DDG) is therefore piloting a two-way communication web portal and parallel SMS service that will improve the information provision and exchange between the people living in the affected communities and the Mine Action (MA) operators assisting these communities.

Olivier Sarrat – Sigmah

Sigmah is an open source software for the shared management of international aid projects. The software is simple, flexible and intuitive and allows each organisation to organize its own work methods, and thereby improve the quality of its programs. Sigmah is the result of a participatory project facilitated by a group of international aid organisations, which released the software in the public realm so that it is available to all. Sigmah has two aims: primary and foremost: to help organisations to identify the critical points in project management and build a project database of actionable information; secondary: to encourage organisations to share non-confidential information from this database with their peers in order to improve coordination in the sector.

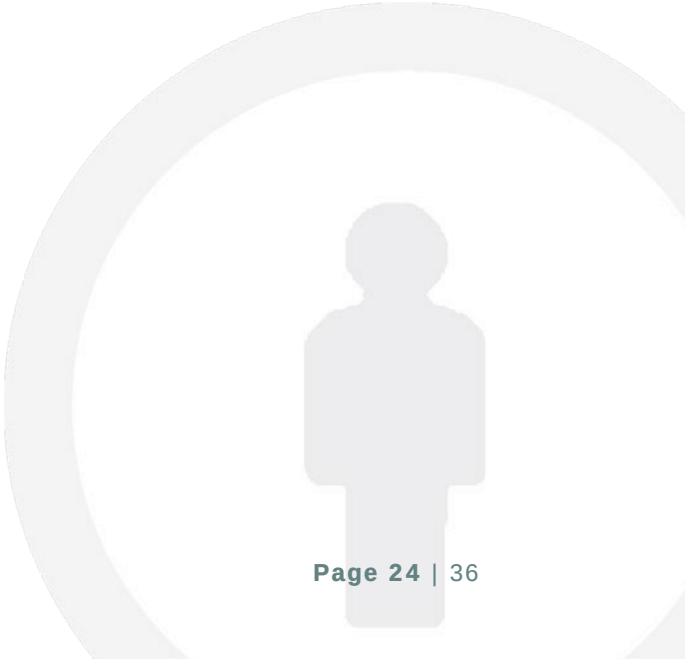
Nicolas Chavent – HOT

In 2013, the **Espace OSM Francophone** project aimed at consolidating the OpenStreetMap community in Senegal, strengthening the community in Chad and creating as well as stimulating communities in Burkina Faso and Togo. These OSM objectives will be reached through the implementation of training and mapping activities based on OSM and the implementation of support programs for the animation and organization of local OSM communities.

Maëlle Aubert – UNOSAT

In 2009 the Chadian government asked the Swiss Agency for Development and Cooperation (SDC) to prepare a detailed concept paper addressing how to map Chad´s water resources. This is how **ResEAU**, a project implemented and managed by the Ministry and the United Nations Operational Satellite Applications Programme (UNITAR-UNOSAT), with the support of the Federal Office of Topography (swisstopo) and the Centre d'Hydrogéologie et de Géothermie (CHYN), was created. The first phase focuses on developing a knowledge base for the northern and eastern regions of Chad. The

ResEau team has created a GIS and water library database, including geological, hydrological and well/borehole information for Chad. From this database two hydrogeological atlases are being prepared by UNOSAT.



10. THEY SUPPORT GEONG 2014

10.1. Platinum Partner

Esri® develops geographic information systems (GIS) solutions that function as an integral component in nearly every type of organization. We believe that geography is at the heart of a more resilient and sustainable future, and allows a deeper understanding of how we can positively impact our future. On any given day, more than a million people around the world use Esri's ArcGIS to improve the way their organizations conduct business. Esri software is used by more than 350,000 organizations worldwide to design more effective programs, built trust from donors to beneficiaries, and increase their operational efficiency. We're passionate just like you. Together we can transform our world.

10.2. Gold Partners

Founded in 1961, the Centre National d'Etudes Spatiales (CNES) is the government agency responsible for shaping and implementing France's space policy in Europe. It designs and launches satellites, invents the space systems of tomorrow and fosters the emergence of new services of practical use in daily life. CNES conceives and executes large-scale space programs, launch vehicles and satellites, which it commissions industry to manufacture. It also works closely with scientific partners and is involved in many international cooperation programs. France, represented by CNES, is the largest contributor to the European Space Agency (ESA), tasked by its 20 member states to conduct Europe's space policy.

EpiConcept is a private company located in Paris and founded in 1996 by individuals from the NGO environment. With 48 employees, it is comprised of physicians, epidemiologists, pharmacists, biostatisticians and software engineers who create custom ICT solutions and provide epidemiological expertise for public health organisations. This double competence in ICT and medicine has allowed EpiConcept to create IT solutions that include epidemiological surveillance systems, contact tracing, follow-up/monitoring and others. EpiConcept's web application platform Voozanoo™ is certified by the ministry of health for hosting personal health data.

Novel-T is a company providing IT consulting services specialized in solutions for humanitarian and public health sectors. Founded by World Health Organization former employees, Novel-T works across the continents to bring innovative solutions adapted to the field.

PSI-Mobile is all about innovative use of mobile technologies that enhance data driven decision making. Our solutions improve efficiencies, while providing greater control of business processes, with a focus on Humanitarian (International NGO's), Governement & Utilities (including Telco's). PSI's Fusion Application Platform is at the heart of everything we do, allowing for large scale, data rich, complex business process and codeless application to be delivered to a secure container on multiple types of devices with different form factors.

10.3. Silver partner

Created in 2009, Isogeo aims at helping public organisations, private companies and organisations to optimize the use, sharing and valorisation of their geographical data. Isogeo Platform, cloud computing architechture and SaaS modules, allows easy identification, documentation and sharing of data.

Employing Open Source specialists, Camptocamp is an innovative company working in the intergration of softwares used to present geospatial data, completely manage companies and manage IT servers. In order to be fully adapted to your needs, Camptocamp builds tailor-made solutions using the best Open Source technologies since 2001. A large range of services is offered by its three departments: advice, research and development, creation and implementation of projects, software support and training.

Our accountancy and audit cabinet has been constructing a full offer of service around financial information and performance measurement for companies. We implement methodologies adapted to our client's needs, which make it possible for us to accompany a variety of clients: business creators, micro-business, small and medium-sized businesses, group of small and medium-sized businesses, charities as well as more complex organizations, based in France and abroad, which we can accompany via our RSM France and RSM International networks.

Chambéry is a small city with a bit more than 100,000 inhabitants, situated between the Bauges massif and the Chartreuse mountain range in the Alpes. Enjoying both the benefits of the quality of life of a human-sized town and of equipment worthy of a large city, Chambéry is today deliberately looking to the future. Come and enjoy the French atmosphere… and an atypical environment for an humanitarian meeting!

11. 2014 PARTICIPANTS LIST

Surname	First name	Organization	Position	Email address
Abelshausen	Ben	HOT	Volunteer	
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12. PARTICIPATING ORGANIZATIONS


acaps
ACF
APDER
cartong
esri
HOT
Humanitarian OpenStreetMap Team
ICRC
MapAction
MEDECINS SANS FRONTIERES
OpenStreetMap France
Cartographions le monde rue après rue...
SCIENCES PO
Grenoble
SOLIDARITÉS INTERNATIONAL
Terre des hommes
WASH Cluster
Water Sanitation Hygiene
UNHCR
The UN Refugee Agency
HUMAN RIGHTS WATCH
UNOSAT
satellite imagery for all
www.unosat.org
People's Intelligence (PI)
Networked Reporting and Verification by the People
sertit
cnrs
ÉPI concept
isogeo
INTERNATIONAL RESCUE COMMITTEE
JIPS
3Liz
SOS ATTITUDE
OCHA
Novel-t
HANDICAP INTERNATIONAL
cnes
IRD
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enhancing learning & research for humanitarian assistance
gr tius
INTERNATIONAL
ALTERMAP
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Thanks to our partners who support the organization of GeOnG: