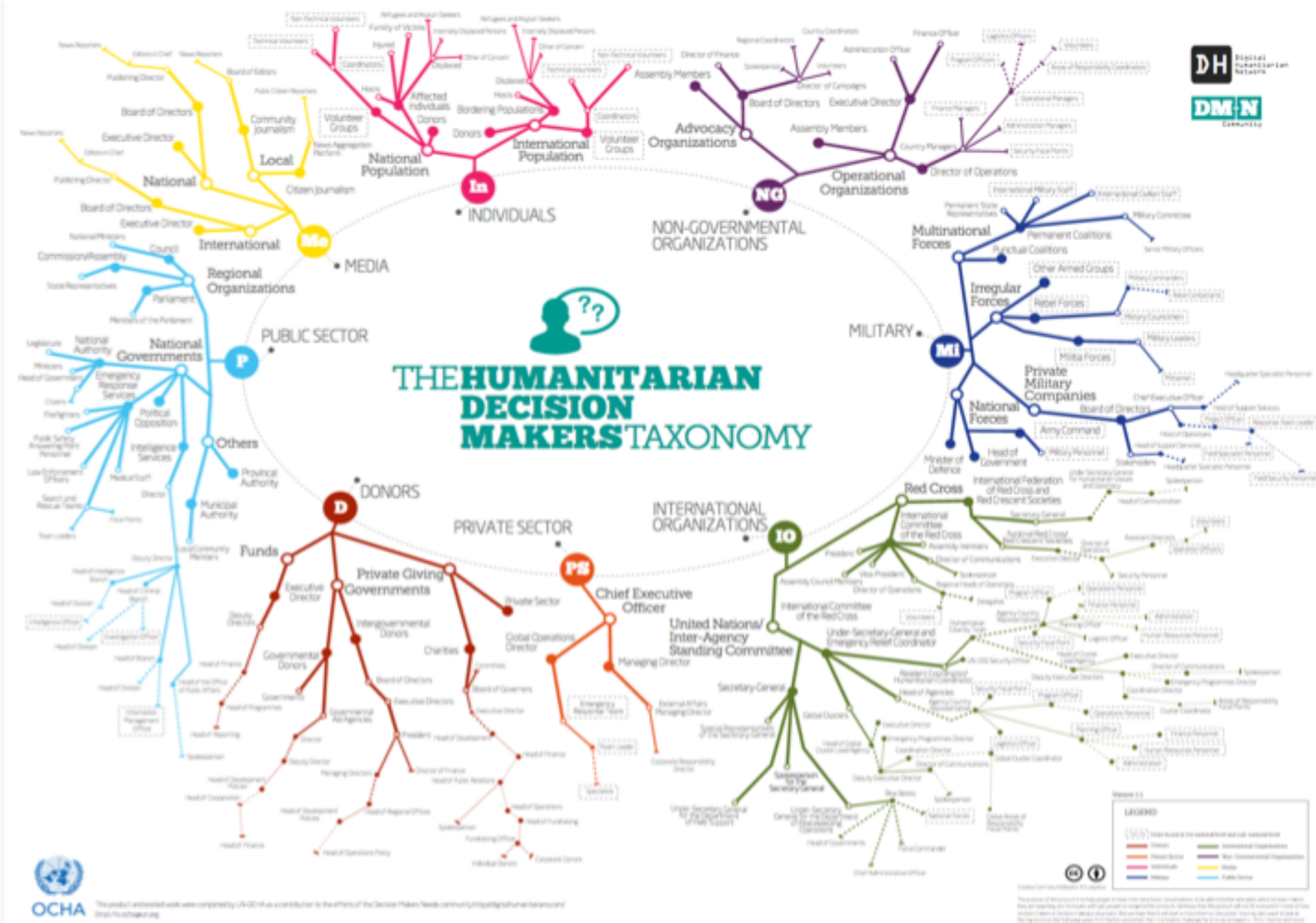
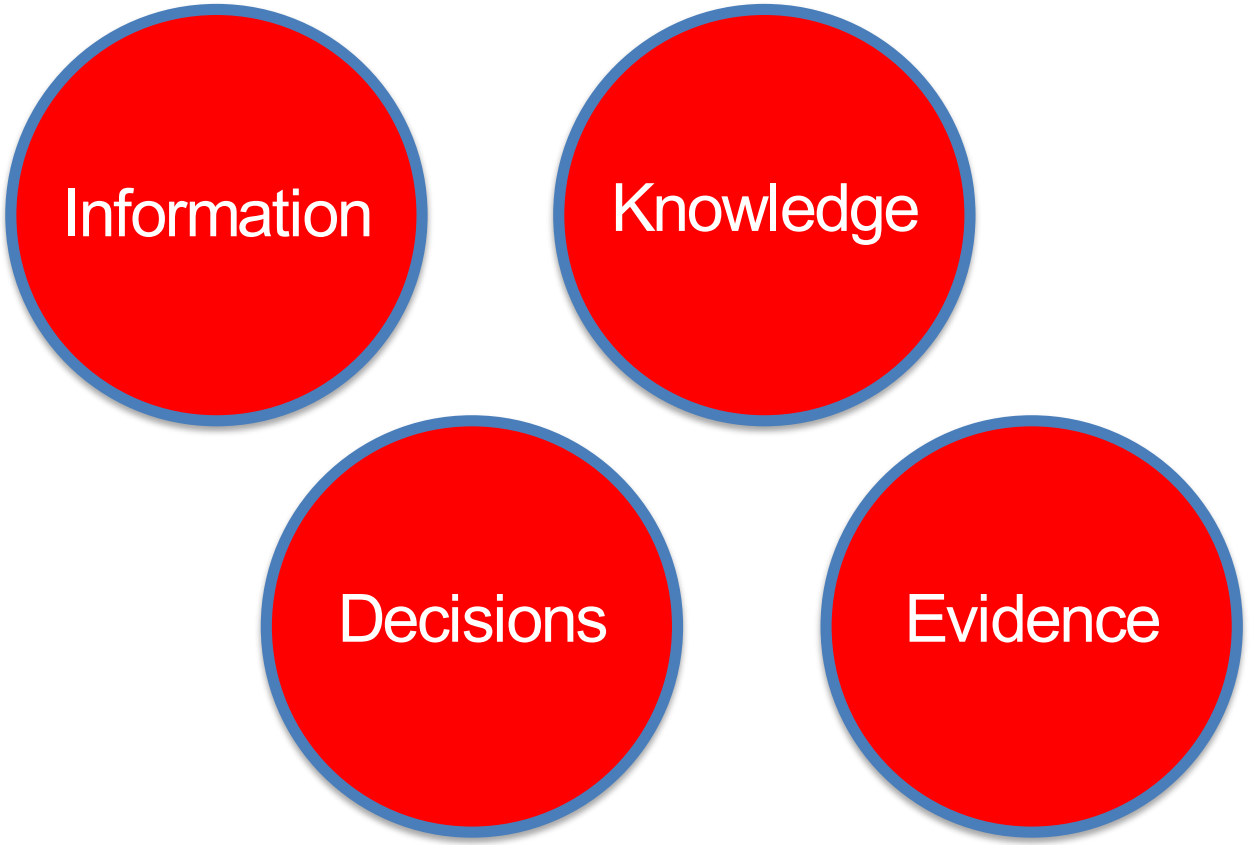
Data Sharing with Humanitarian Data Exchange (HDX)

Heather Leson, Data Literacy Lead
RCRC Forum 2017


THE HUMANITARIAN DECISION MAKERS TAXONOMY
INDIVIDUALS
In
National Population
International Population
Affected Individuals
Donors
Bordering Populations
MEDIA
Me
Citizen Journalism
Local
National
International
Community Journalism
Volunteer Groups
PUBLIC SECTOR
P
National Governments
Regional Organizations
Others
Provincial Authority
Municipal Authority
Political Opposition
Intelligence Services
DONORS
D
Funds
Private Giving Governments
Intergovernmental Donors
Governmental Donors
Charities
Private Sector
PRIVATE SECTOR
PS
Chief Executive Officer
Managing Director
NON-GOVERNMENTAL ORGANIZATIONS
NG
Advocacy Organizations
Operational Organizations
Assembly Members
Director of Operations
MILITARY
Mi
Multinational Forces
Permanent Coalitions
Irregular Forces
Other Armed Groups
Rebel Forces
Militia Forces
Private Military Companies
National Forces
Army Command
Minister of Defence
Head of Government
INTERNATIONAL ORGANIZATIONS
IO
Red Cross
International Federation of Red Cross and Red Crescent Societies
International Committee of the Red Cross
United Nations/ Inter-Agency Standing Committee
Under-Secretary-General and Emergency Relief Coordinator
Secretary-General
OCHA
DH
DMN

Data can lead to:



centre for humdata

centre for humdata

The mission of the Centre is to work with partners to increase the use and impact of data in the humanitarian sector.

Focus Areas for the Centre

Data Services

Data Policy

Data Literacy

Network Engagement

centre for humdata

Humanitarian Data Exchange

Partners Engaged

The Humanitarian Data Exchange is OCHA's open platform for sharing humanitarian data.

Our objective is to make humanitarian data easy to find and use for analysis.

What does HDX offer?

We simplify data sharing

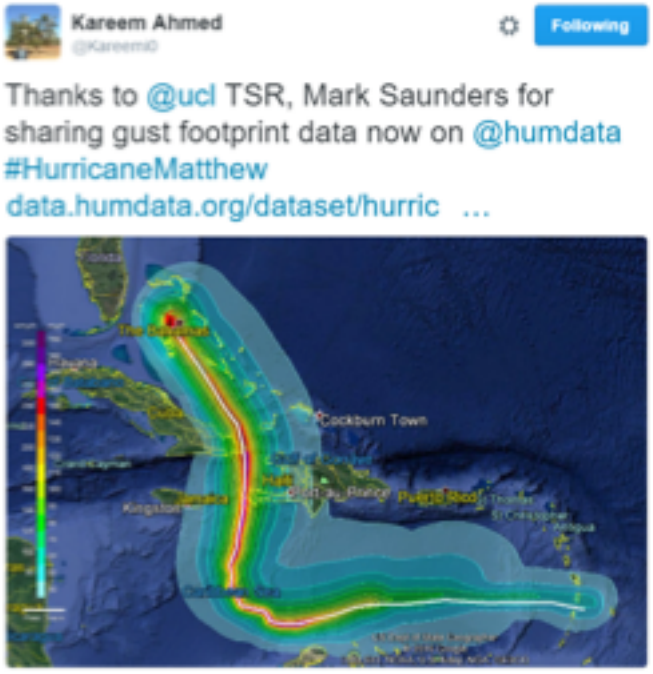
We extend the impact of data

We tell the story of data

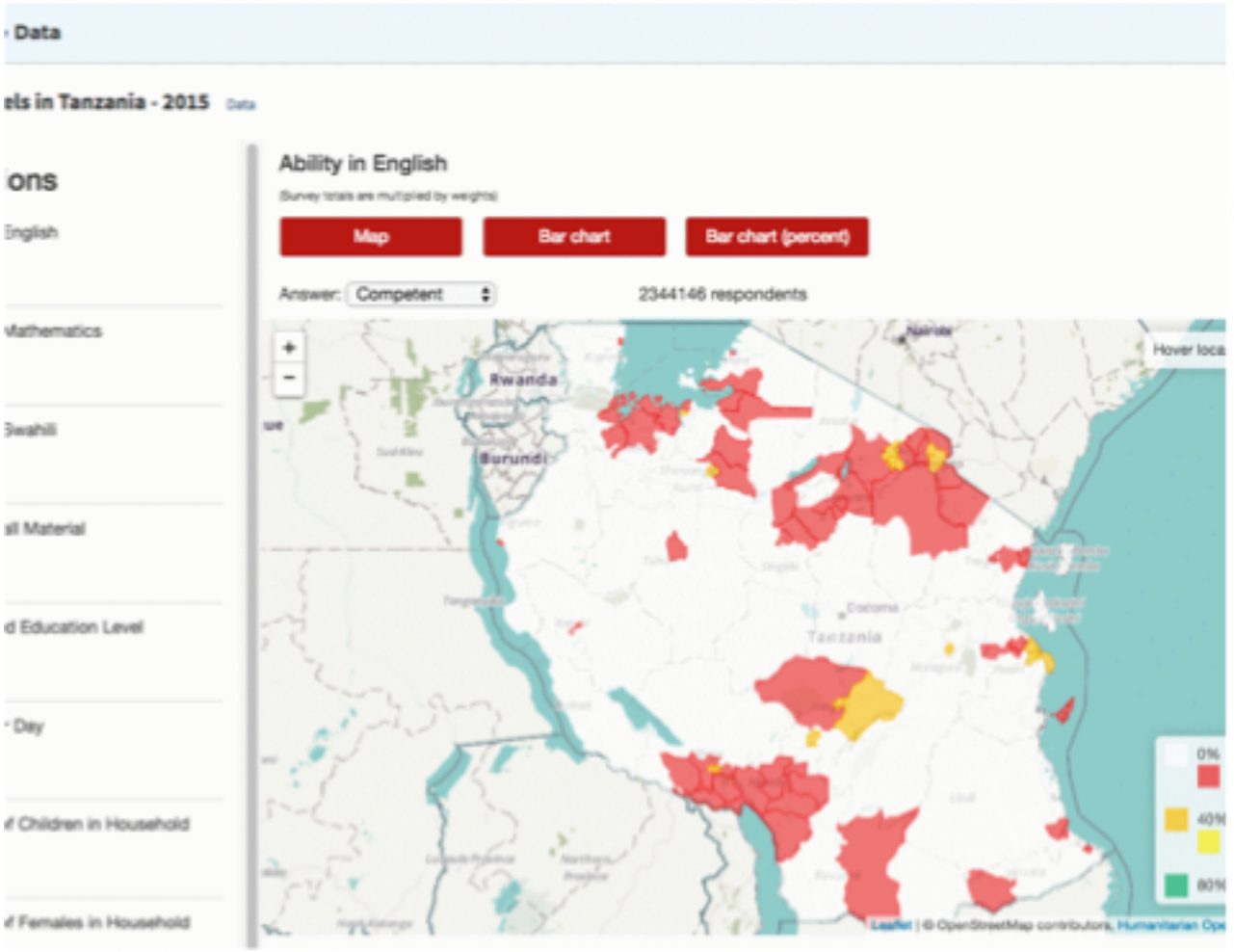
We help standardize data

Help standardize data across the operation

Simplify Data Sharing



Tell the story of your dataset



Extend the impact of your data

Increase your data visibility

Reach a larger audience

Get users feedback

Allow your data to be combined with other sources

Example Types of Data in HDX

Baseline Data

Population

Statistics

Geospatial Data

Infrastructure

FTS

HDX in figures

Over 288 organisations sharing relevant humanitarian data on HDX

More than 4,900 datasets shared on HDX

5170 users registered in HDX

Over 250,000 unique visitors

Humanitarian Exchange Language (HXL)

Humanitarian Exchange Language
hxlstandard.org

#HXL

What is HXL?

HXL is a different kind of data standard, designed to improve information sharing during a humanitarian crisis without adding extra reporting burdens.

Adding HXL tags

Organisation	Cluster	District
#org	**#sector**	**#adm1**
Org A	WASH	Coast
Org B	Health	Mountains
Org C	Education	Coast

Add HXL tags between the last row of headers and the first row of data.

Use attributes like +code to refine tags.

If you need to create new tags, start them with #x_ (e.g. #x_virulence).

Some suggested attributes

People	Dates	Impact
+f	+start	+killed
+m	+end	+injured
+i	+reported	+infected
+infants		+displaced
+children	Geography	+idps
+adolescents	+lat	+refugees
+adults	+lon	+incamp
+elderly	+bounds	+noncamp

Tag + attribute examples

#adm2 +code	admin 2 p-code
#affected +f	females affected
#geo +bounds +url	link to shape file
#description +fr	French description
#meta +source	data source

Humanitarian Exchange Language
hxlstandard.org

#HXL

Places

#region	multi-country region
#country	country name
#adm1	administrative
.. #adm5	subdivisions
#adm1+code	admin level 1 p-code
#loc	place (camp, building, etc.)
#geo	geographical info
#geo+lat	latitude
#geo+lon	longitude

People and households

#affected	number affected
#inneed	number in need
#targeted	number targeted
#reached	number reached
#population	population category
#beneficiary	beneficiary category

hxlstandard.org

Responses and other operations

#activity	project or activity name
#org	organisation name
#contact	contact info
#sector	sector or cluster name
#subsector	subsector name
#indicator	indicator name
#capacity	response capacity
#output	activity output
#operations	operation-related info

Crises and incidents

#crisis	crisis/emergency name
#cause	crisis or incident cause
#impact	crisis or incident impact
#severity	crisis or incident severity

Extras

#date	day or period
#status	e.g. active
#description	general text
#meta	general meta data

HXL is a different kind of data standard, designed to improve information sharing during a humanitarian crisis without adding extra reporting burdens.

How it works:

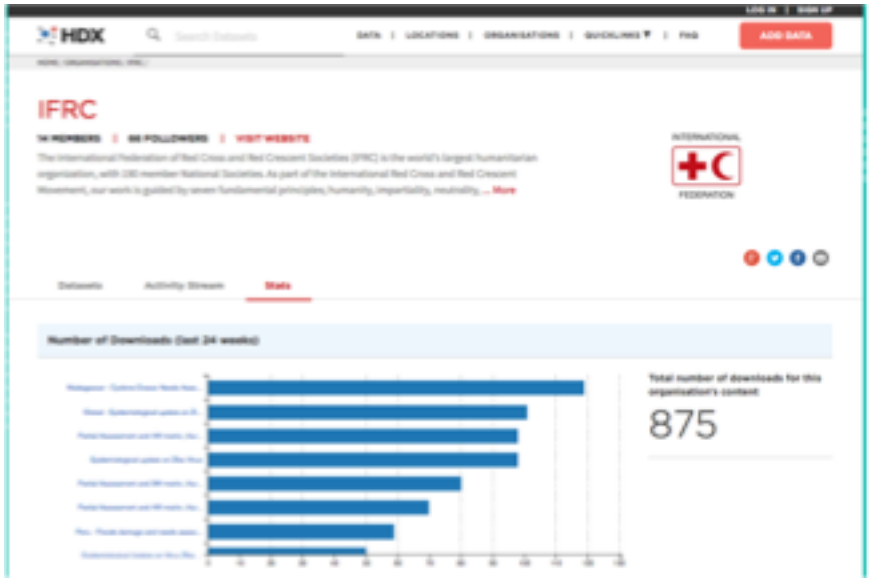
Add a row to your columns for HXL tags based on the suggest attributes. This will ‘convert’ the data when uploaded to the Humanitarian Data Exchange.

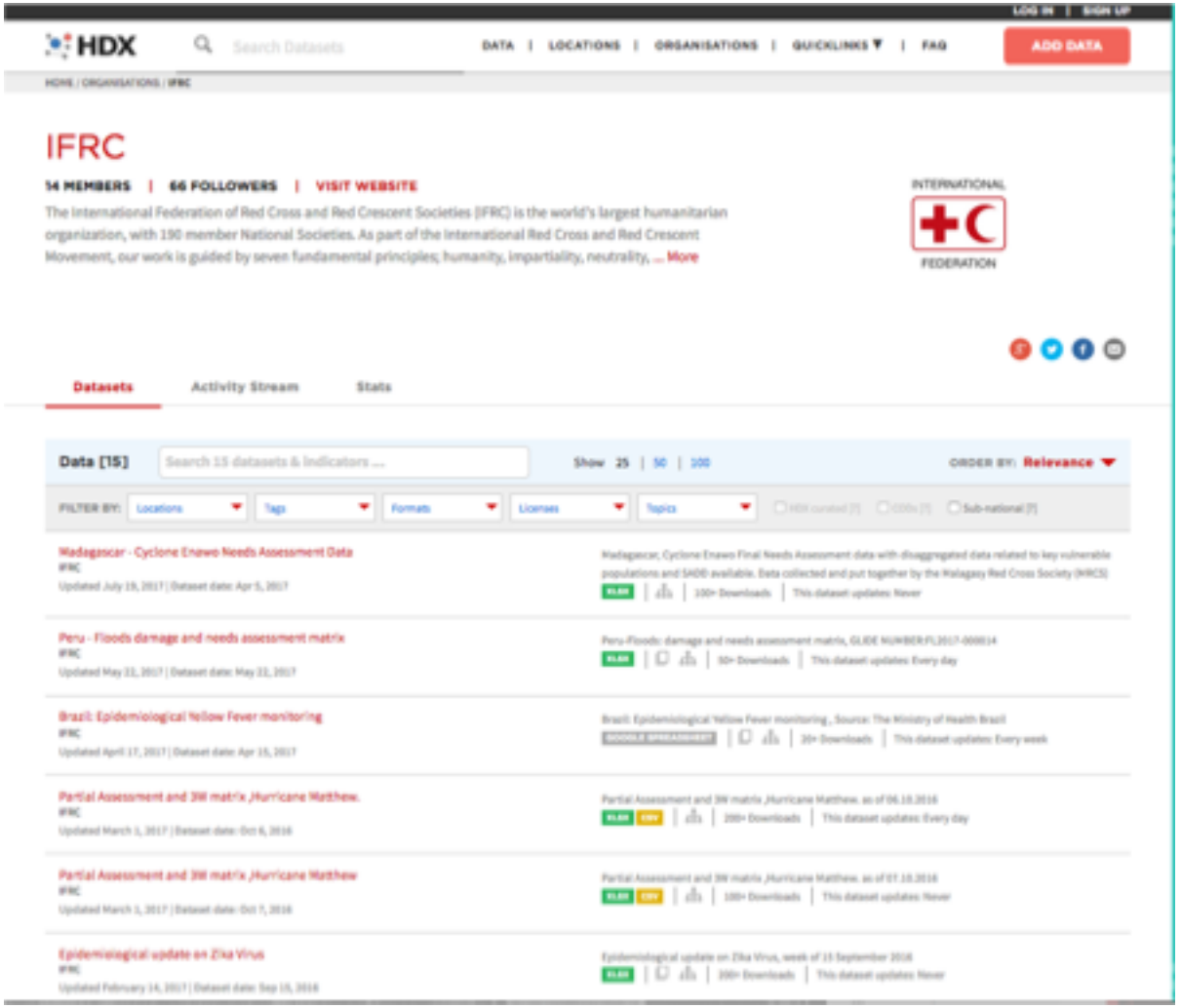
Data is part of our Leadership

IFRC is the Secretariat, National Societies, and volunteers.

We aim to be a data-driven organization making evidence-based decisions. It is cited in our 2020 strategy.

IFRC organization profile





National Societies Engaged

American Red Cross
Asia Pacific Disaster Resilience Centre
British Red Cross
Canadian Red Cross
Cote D'Ivoire Red Cross
Danish Red Cross
Finnish Red Cross
French Red Cross
Kenya Red Cross Society
Nepal Red Cross Society
Netherlands Red Cross
Senegal Red Cross

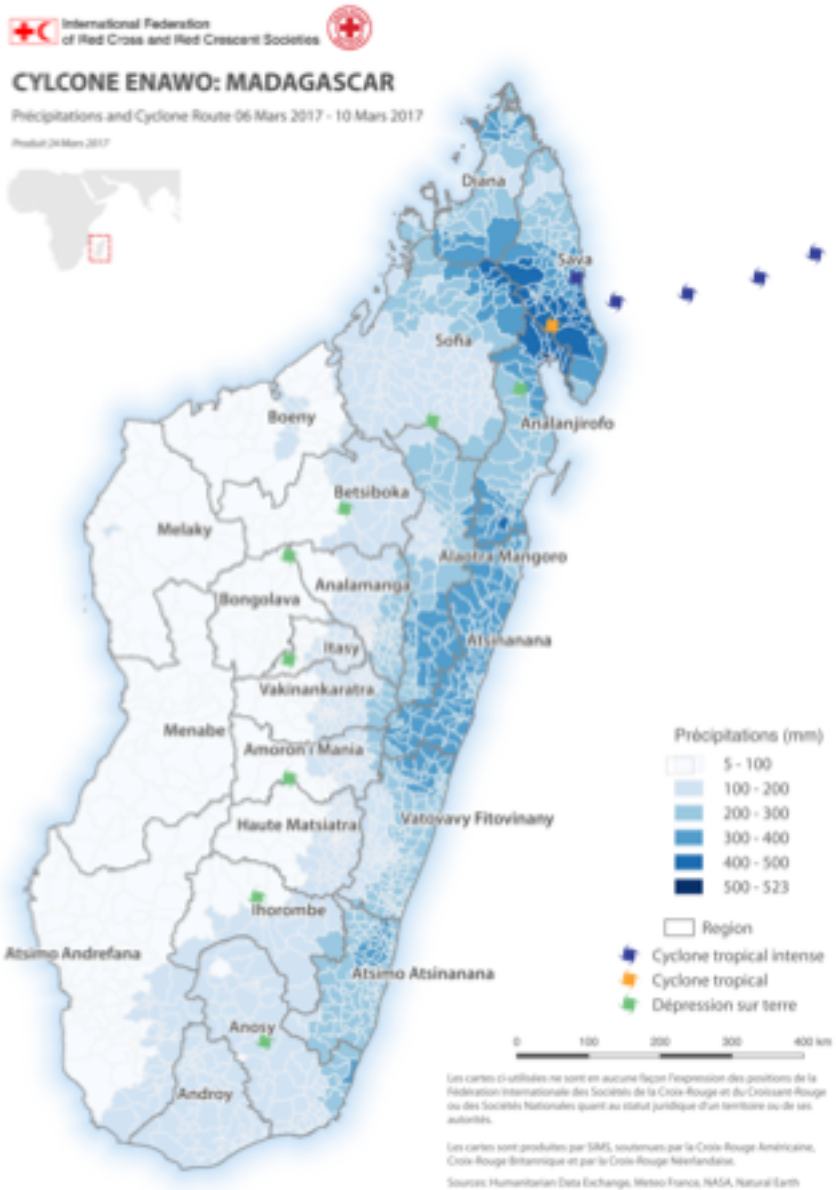
Madagascar Cyclone Ewano Response Training

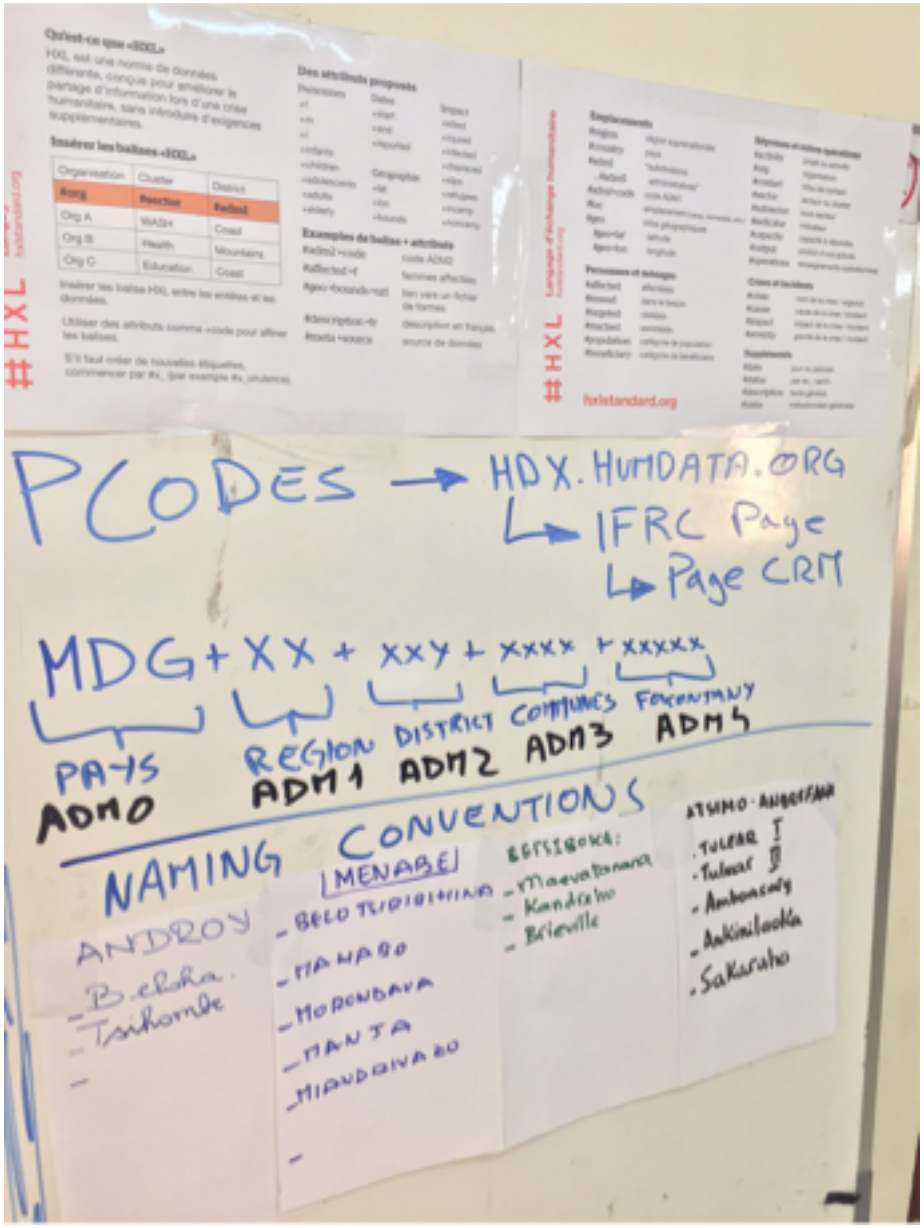
“Only through sharing accurate and timely data we can experience the real added value of Information Management”.

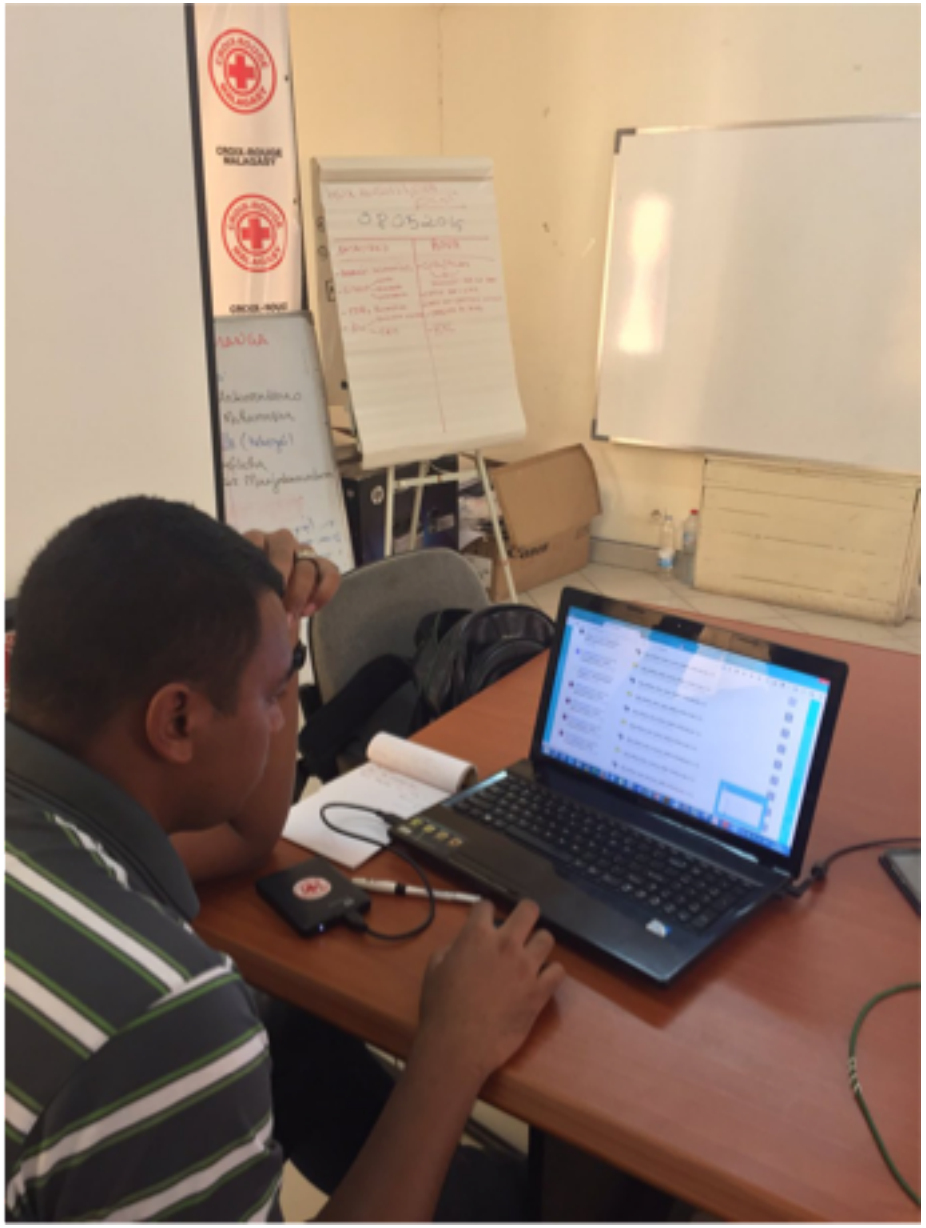
“I believe that sharing data with agreed upon standards is crucial to allow all actors engaged in a humanitarian response to easily access and analyse those datasets”.

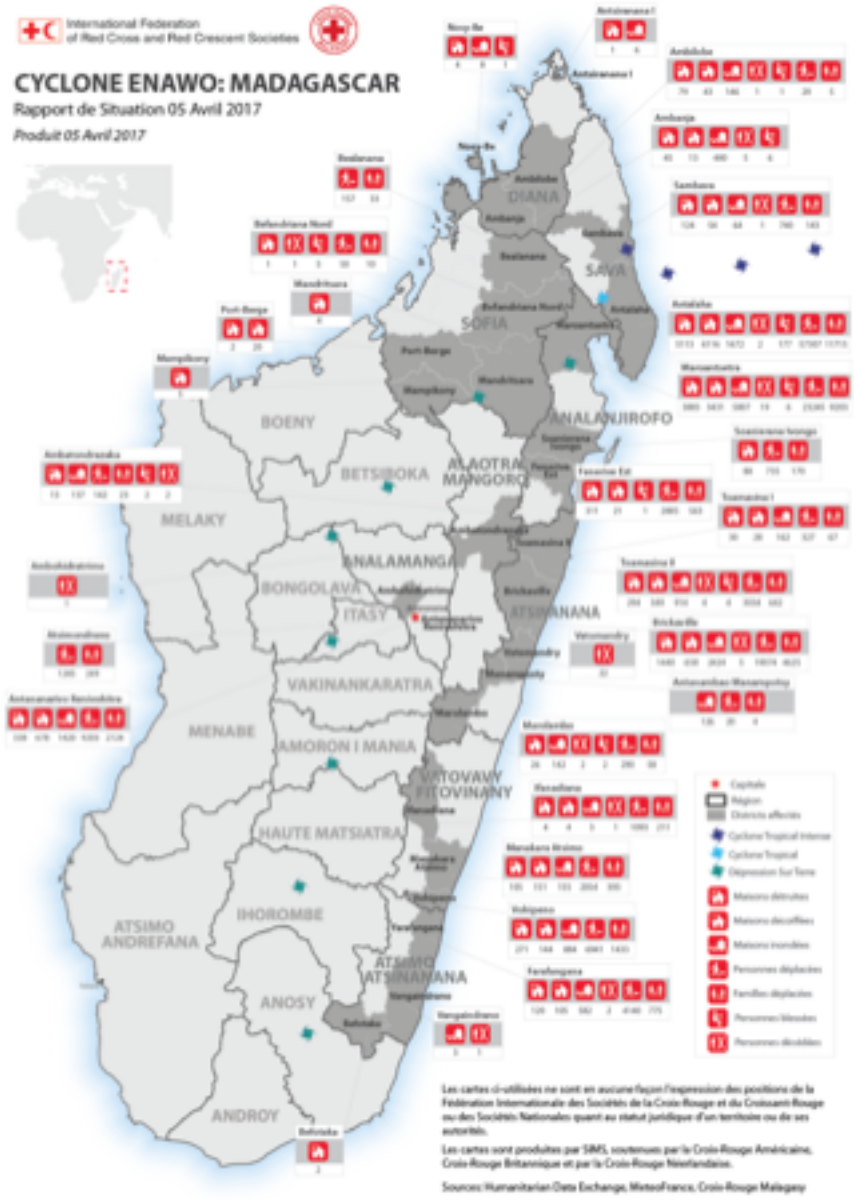
“What is the added value of having high quality data, if we do not share it among the actors engaged in the response?”

MADAGASIKARA
STRATÉGIE 2011-


International Federation of Red Cross and Red Crescent Societies
CYCLONE ENAWO: MADAGASCAR
Précipitations and Cyclone Route 06 Mars 2017 - 10 Mars 2017
Diana
Sava
Soña
Boeny
Analanjirofo
Betsiboka
Melaky
Alaotra Mangoro
Analamanga
Bongolava
Itasy
Atsinanana
Vakinankaratra
Menabe
Amoron i Mania
Haute Matsiatra
Vatovavy Fitovinany
Ihorombe
Atsimo Andrefana
Atsimo Atsinanana
Anosy
Androy
Précipitations (mm)
5 - 100
100 - 200
200 - 300
300 - 400
400 - 500
500 - 523
Region
Cyclone tropical intense
Cyclone tropical
Dépression sur terre
0 100 200 300 400 km
Les cartes ci-utilisées ne sont en aucune façon l'expression des positions de la Fédération Internationale des Sociétés de la Croix-Rouge et du Croissant-Rouge ou des Sociétés Nationales quant au statut juridique d'un territoire ou de ses autorités.
Les cartes sont produites par SIMS, soutenues par la Croix-Rouge Américaine, Croix-Rouge Britannique et par la Croix-Rouge Néerlandaise.
Sources: Humanitarian Data Exchange, Meteo France, NASA, Natural Earth

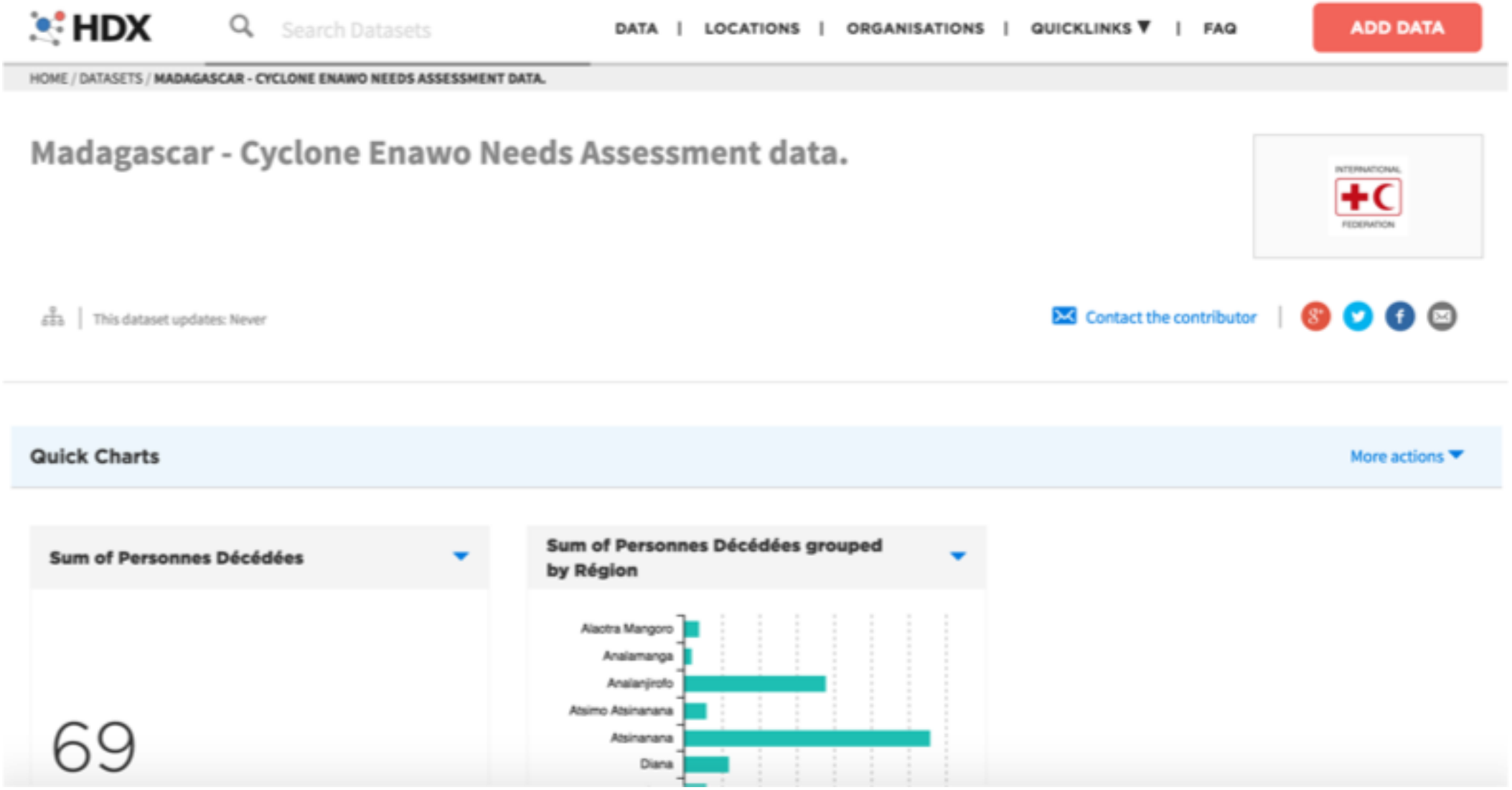

#HXL
hxlstandard.org
PCODES → HDX.HUMDATA.ORG
IFRC Page
Page CRM
MDG+XX+XXY+XXXX+XXXXX
PAYS
REGION
DISTRICT
COMMUNES
FOKONTANY
ADM0
ADM1
ADM2
ADM3
ADM4
NAMING CONVENTIONS
MENABE
ANDROY
- Beloritsibihina
- Manabo
- Morondava
- Manja
- Miandrivazo
- Belo
- Tsihombe
- Maevatanana
- Kandrizo
- Brieville
- Ambanoly
- Ankinilaoka
- Sakaraha



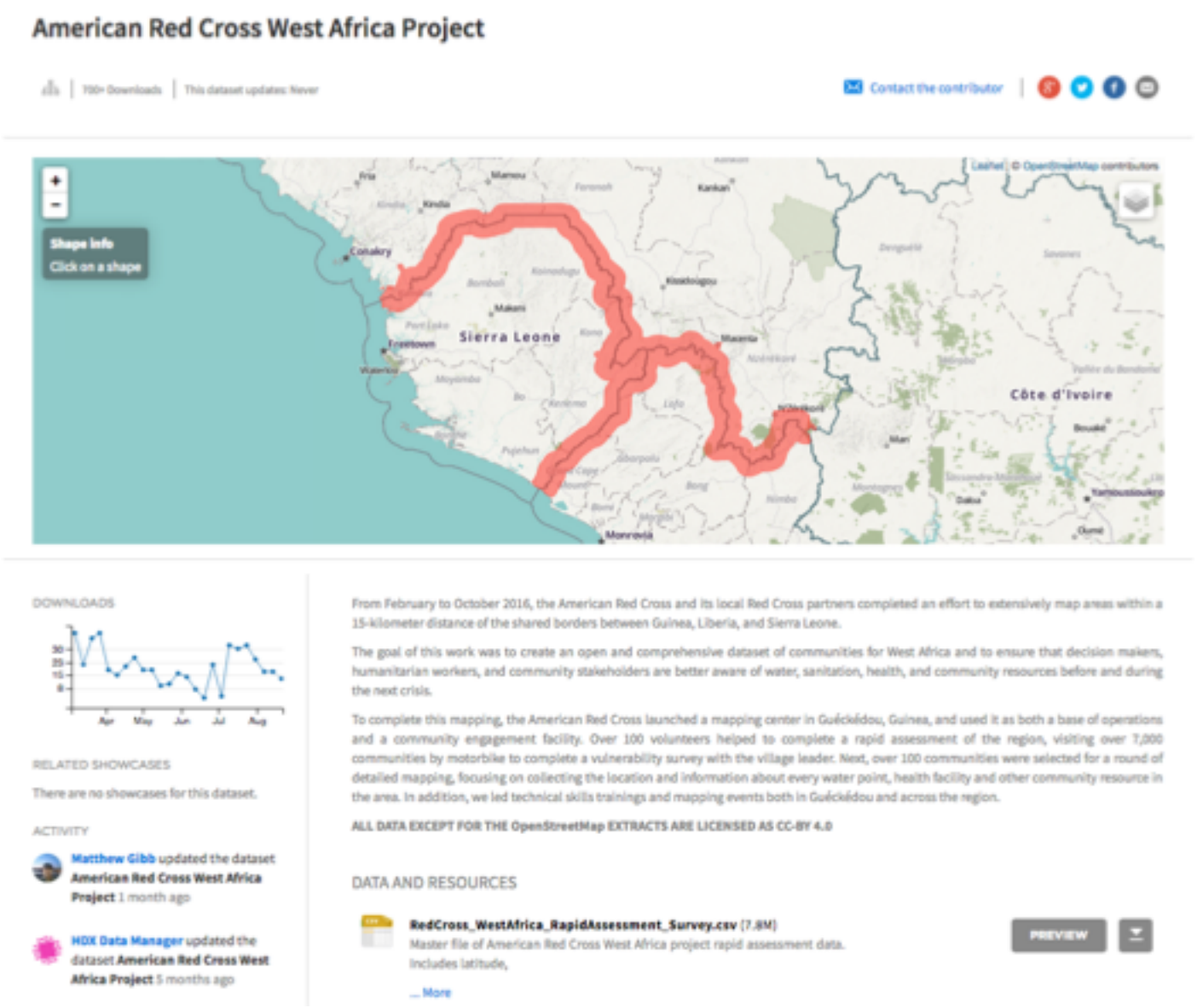


Standardize the dataset with HXL tags

E	F	G	H	I	S	T
Pcode District	Communes	Pcode Communes	Fokontany	Pcode Fokontany	Moins de 05 ans	Enceinte
#adm2+code	#adm3+name	#adm3+code	#adm4+name	#adm4+code	cted+idps+individuals+inf	dps+individuals+I
MDG72711	Sambava Cu	MDG72711010	Ambodisatrana	MDG72711010011	86	19
MDG72711	Farahalana	MDG72711079	Farahalana	MDG72711079001	63	23
MDG72711	Farahalana	MDG72711079	Antohomaro	MDG72711079002	0	0
MDG72710	Antalaha Ambonivohitr	MDG72710010	Ambondrona	MDG72710010006	689	49
MDG72710	Antalaha Ambonivohitr	MDG72710010	Ankoalabe	MDG72710010012	539	56
MDG72710	Antalaha Ambonivohitr	MDG72710010	Ambatofisaka	MDG72710010002	220	43
MDG72710	Antalaha Ambonivohitr	MDG72710010	Antsonasona	MDG72710010011	257	27
MDG72710	Antalaha Ambonivohitr	MDG72710010	Anjiamangotroka	MDG72710010016	128	11
MDG72710	Antalaha Ambonivohitr	MDG72710010	Tanambao	MDG72710010001	236	10
MDG72710	Antalaha Ambonivohitr	MDG72710010	Tanambaon'ampano	MDG72710010003	114	14
MDG72710	Antalaha Ambonivohitr	MDG72710010	Ambatoratsy	MDG72710010008	144	6
MDG72710	Antalaha Ambonivohitr	MDG72710010	Maherifody	MDG72710010013	517	221
MDG72710	Antalaha Ambonivohitr	MDG72710010	Ambatomitraka	MDG72710010005	595	71
MDG72710	Antalaha Ambonivohitr	MDG72710010	Antsirandambo	MDG72710010007	118	19
MDG72710	Antalaha Ambonivohitr	MDG72710010	Ambodibonara	MDG72710010004	298	28
MDG72710	Ambinanifaho	MDG72710190	Tsarahonenana	MDG72710190005	108	21
MDG72710	Ambinanifaho	MDG72710190	Ambodimanga	MDG72710190002	41	28
MDG72710	Ambinanifaho	MDG72710190	Beanamalao	MDG72710190004	9	3
MDG72710	Ambinanifaho	MDG72710190	Ampanatsovana	MDG72710190003	132	12
MDG72710	Ambinanifaho	MDG72710190	Ambinanifaho	MDG72710190001	44	4
MDG72710	Lanjarivo	MDG72710230	Lanjarivo	MDG72710230001	7	4
MDG72710	Lanjarivo	MDG72710230	Analanantsoa	MDG72710230010	28	6
MDG72710	Lanjarivo	MDG72710230	Vohitrarivo	MDG72710230004	15	2
MDG72710	Lanjarivo	MDG72710230	Vohitsoa	MDG72710230009	9	0
MDG72710	Lanjarivo	MDG72710230	Sarahandrano	MDG72710230003	12	5



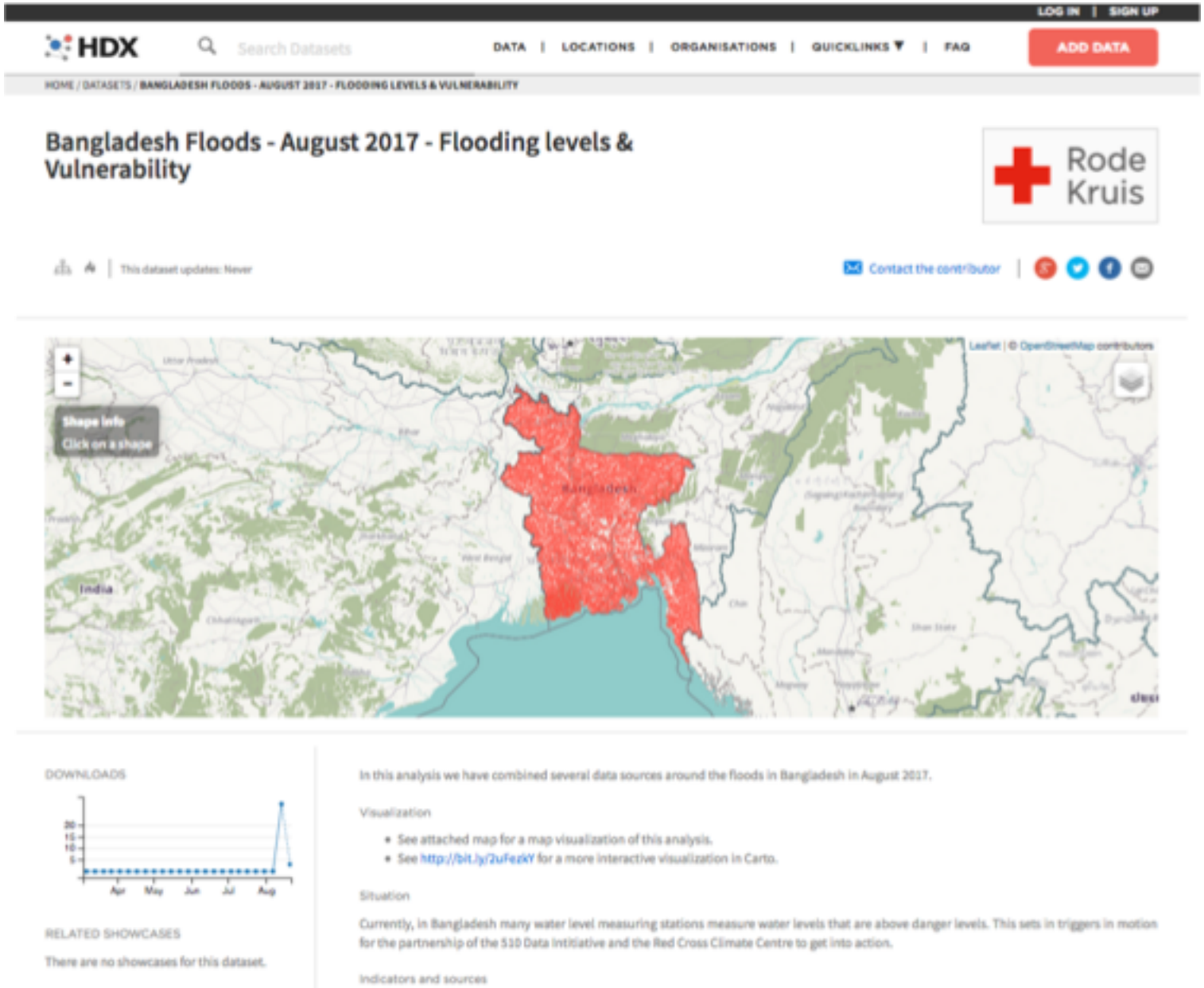
Link to Madagascar dashboard on Go: http://ifrcgo.org/appeals/mdrmg012/



7000 Villages

100 Volunteers

700 Downloads



Ongoing Response

The Humanitarian Data Exchange has an FAQ with guides to help you get started: https://data.humdata.org/faq

We are here to help:

- Connect with your Regional IM Lead
- Talk with the SIMS team
- Reach out to the IFRC GO Team
- Talk with one of the National Societies already using HDX

SHARING DATA: BASIC CONSIDERATIONS

- WHO: Need the data? What is their role?
- TYPES: What type of data is it? Is there personally identifiable information?
- LICENSE: Who owns or has access to the data? What is the license for data use?
- WHY: What is the purpose of sharing? Who can share the data?
- HOW: What is the format/ Can it be exported? Where will it be stored? How will you track usage/feedback?

- ☐ Consent
- ☐ Aggregated? Disaggregated?
- ☐ License/ Format

- ☐ Minimization (Only what you need)
- ☐ Owner/ Data Controller
- ☐ Feedback Loop: How Data Was Used

THANK YOU

Heather Leson, Data Literacy Lead

Data Blog:
http://media.ifrc.org/ifrc/theme/data/

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@heatherleson About HDX - @humdata

skype: heatherleson