



NYC PREPARED

Syncing Data Between Institutional and
Grassroots Relief and Resilience Groups

The Storm



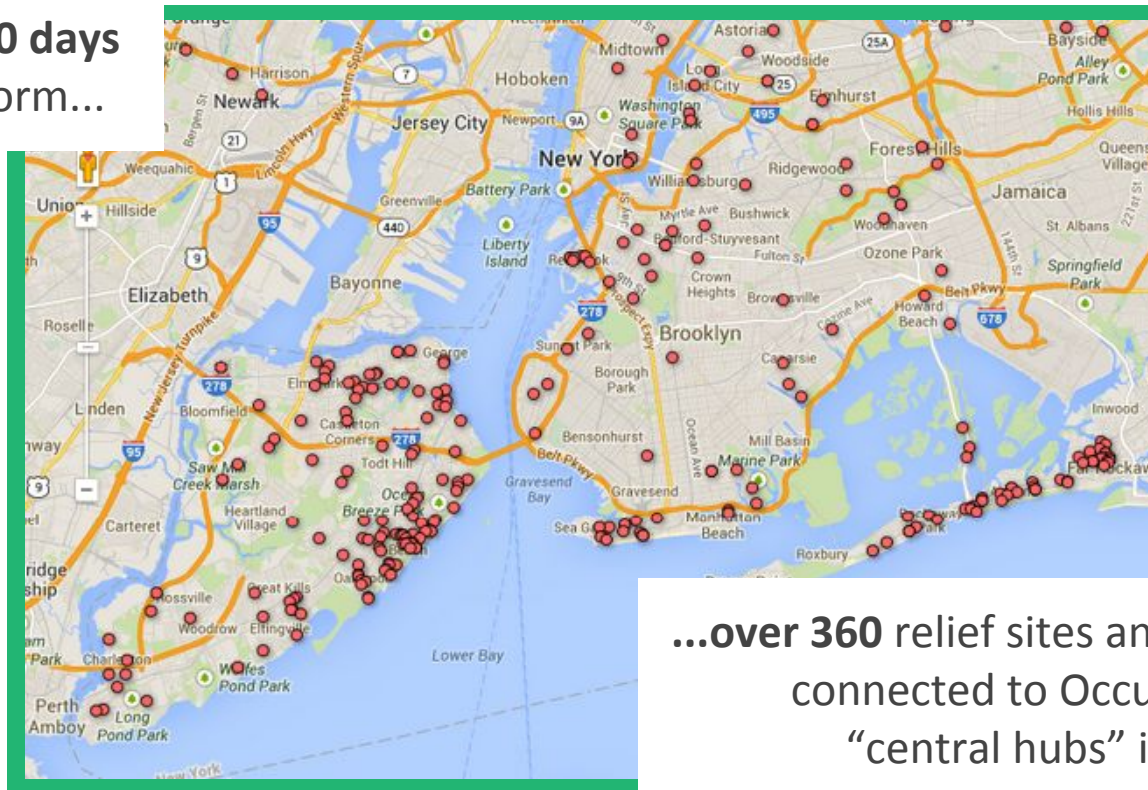
Superstorm Sandy hit New York City on October 30th, 2012.

Dozens died.
Thousands of people
lost their homes.
Millions were affected.



Grassroots Response

Within **30 days**
of the storm...



...over 360 relief sites and organizations
connected to Occupy Sandy
“central hubs” in NYC.

Many of these hubs were started by people who had never been involved in disaster preparedness or relief efforts before.

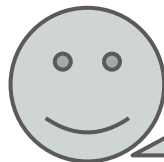
Grassroots Volunteers Are Different

Conventional Volunteers	Grassroots Volunteers
<ul style="list-style-type: none"> ● Trained ● Show up on time ● Directed by managers ● Perform a simple task ● Go home with “schwag” 	<ul style="list-style-type: none"> ● Untrained (hopefully oriented) ● Show up whenever they want ● Perform whatever tasks they want - simple or complex ● Self-directed and work collaboratively as equals ● Might go home...
Show up in the hundreds.	Show up in the thousands.

Grassroots and Institutional Collaboration

Grassroots has valuable information and local capabilities.

Social Media



Web Apps

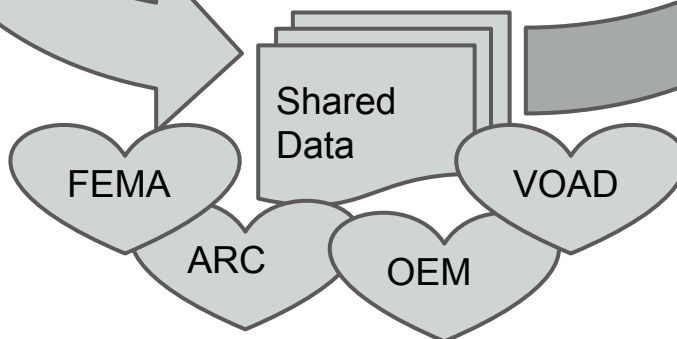
Hubs

Information

Resources

How do we move information from the local to the global...

Institutions have valuable resources and global capabilities.

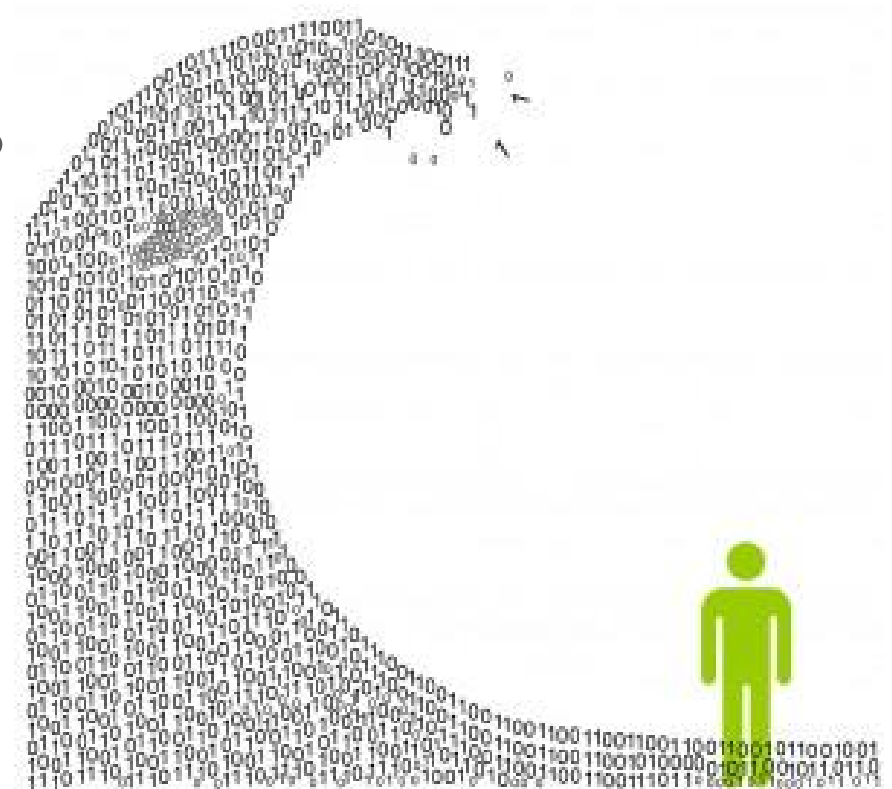


... and move resources from the global to the local?

A Massive Information Challenge

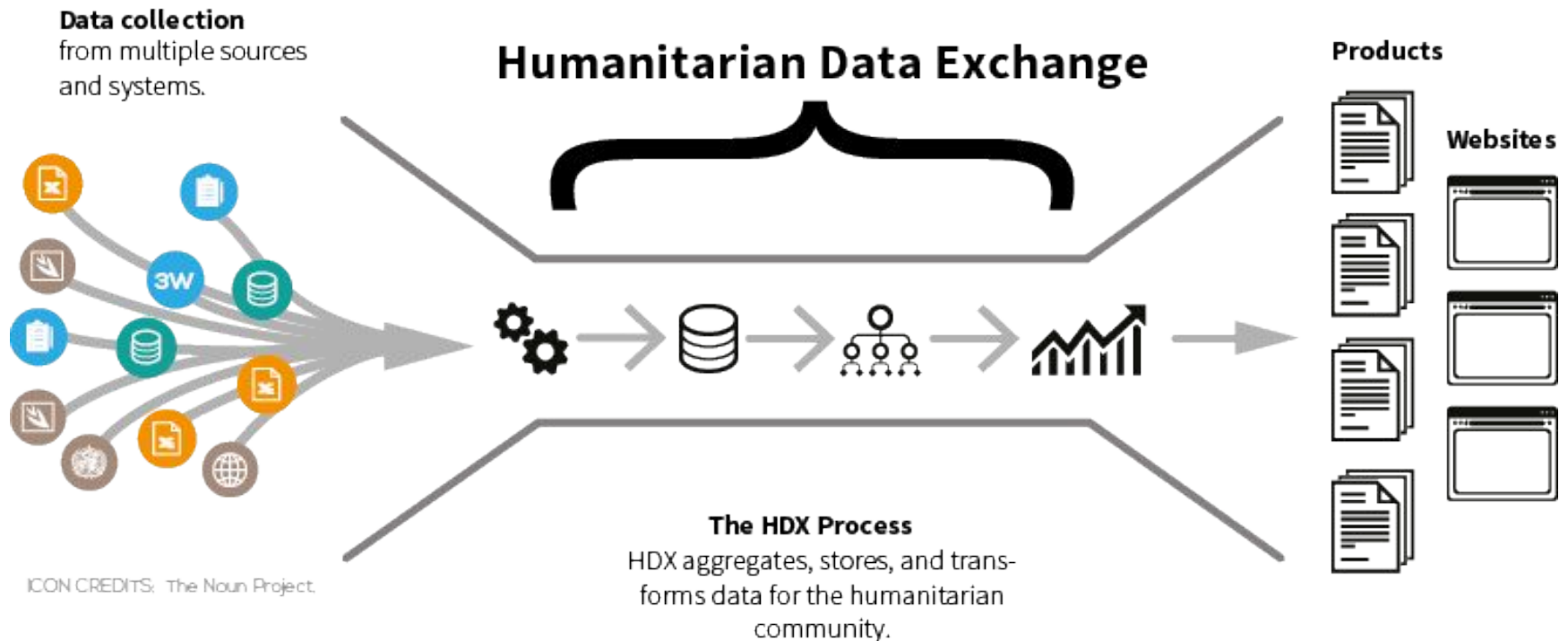
Communications **between professional relief organizations and “prepared” nonprofits** is complicated.

Now, we also need to coordinate between **institutions and emergent grassroots groups.**



We're Not Alone

The United Nation's Office of Coordination of Humanitarian Affairs is tackling this challenge.



ICON CREDITS: The Noun Project

<http://docs.hdx.rwllabs.org/>

nycprepared.org/presentations



The Key

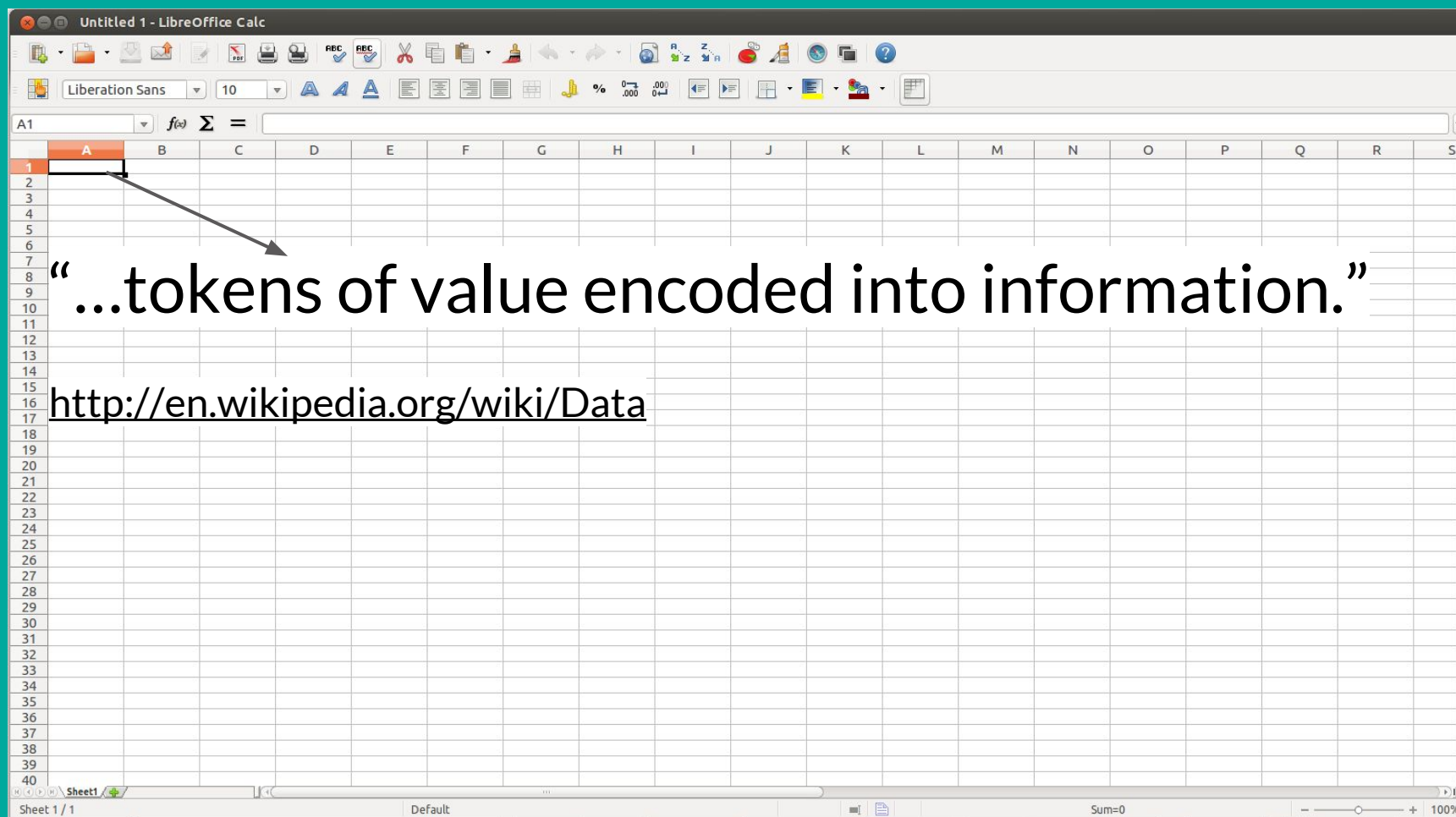


Humanitarian Data Exchange

requires

Data Standards!

What is Data?



How Data Works

Data often comes in the form of a key-value pair:

- **Key** defines what is being described
- **Value** does the describing

Unstructured Information

TWEET:
we need diapers of all
sizes at YANA!!

Structured Data

Key	Value
Type	Request
Location	112-34 Rockaway Beach, Queens, NY
Item	Baby Diaper
Quantity	300

Machine Readable Data (.CSV)

Type,Location,Item,Quantity
Request,"112-34 Rockaway
Beach, Queens, NY",Diapers,
30

Same Data, Different Views

Row View

se...	name	alternative_name	alt_type	parent_s...	service_type	organization	short_desc
1	Access to Home Program		Access and Functional Needs, Aging, Disabilities	Assistance for Organiza...	Resources for Non-profits, Non-profit Financial Assistance	New York State Homes & Community Renewal	State program that provides funding to non-profits for accessibility-focused retrofits
2	Accessible Taxi Dispatch Program		Access and Functional Needs, Aging, Disabilities	Services	Transportation Services	Accessible Dispatch	Wheelchair-accessible dispatch service (trips originating in Manhattan only)
3	Medical Equipme... Service - AmeriCare		Access and Functional Needs, Aging, Disabilities	Material Donations	Other Material Donations	AmeriCares	Partnering with Independent Living Services centers to provide medical equipment and supplies to those with functional medical needs/disabilities.
4	Case Manage... - ANIBIC		Access and Functional Needs, Aging, Disabilities	Services	Case Management	ANIBIC	Advocacy group/service provider for children and adults with developmental disabilities
5	NYS Justice Center for the Protection		Access and Functional Needs, Aging, Disabilities	Services	Referral Services, Adult Care, Benefits Assistance	NYS Justice Center for the Protection of People with Special	Referral line for New York State residents seeking disability services

Card View

Assistance for Organizations >> Resources for Non-profits, Non-profit Financial Assistance

#1: Access to Home Program

Provided by: New York State Homes & Community Renewal
For people in: New York State
Who-identify as: Municipalities, Non-profits
And are: Accessible dwelling units
And are: Municipalities, Non-profits which have disabled service provision experience

State program that provides funding to non-profits for accessibility-focused retrofits

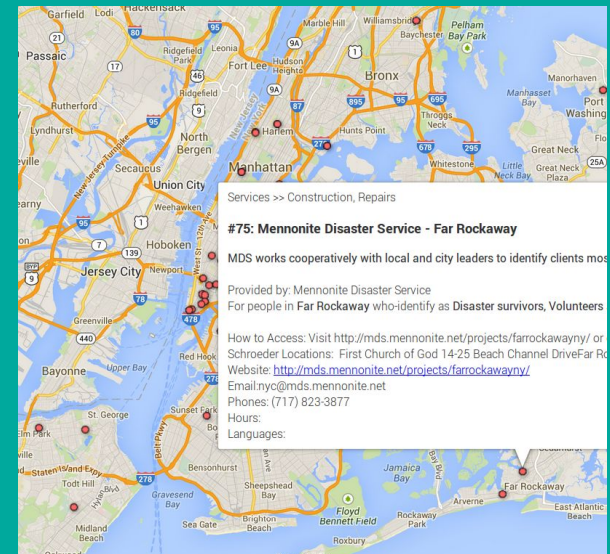
How to Access

Once a NOFA is made available, applicants are encouraged to submit Access to Home Program application exhibits and attachments electronically over the web using the Community Development On-line application system (CDOL). Paper or OmniForm applications may also be submitted. Complete directions on use of the online application system are found on the website at www.nyshcr.org. Requirements: Organizations must have been in existence for at least a year before applying; Must have experience providing services for the elderly and disabled

Contact Info

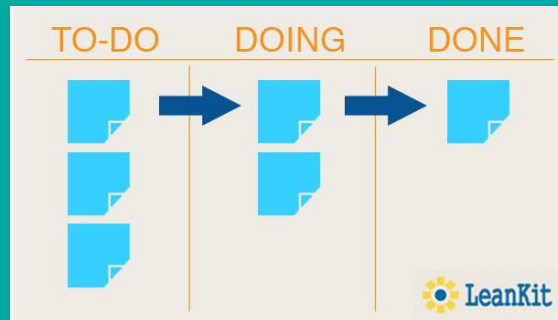
Locations:
Website: <http://www.nyshcr.org/Programs/accesstohome/>
Email:
Phones:
Hours:
Languages:
Contacts:

Map View



Limitless Interaction Possibilities

Workflows



Reporting

Total Funding to the Syrian Crisis 2014
(appeals & other reported funding)*

US\$ 2,084,768,894

Pledges: US\$ 1,073,215,785

Total funding to the appeals (SHARP and RRP)



Revised
Requirements:
US\$ 6,540,867,065

Funding Received:
US\$ 1,638,804,448

Unmet Requirements:
US\$ 4,902,062,617

**Syria Humanitarian Assistance
Response Plan (SHARP)**



**20%
funded**

Revised Requirements:
US\$ 2,276,149,354

Funding Received:
US\$ 461,105,043

Unmet Requirements:
US\$ 1,815,044,311

**Syria Regional Refugee
Response Plan (RRP)**



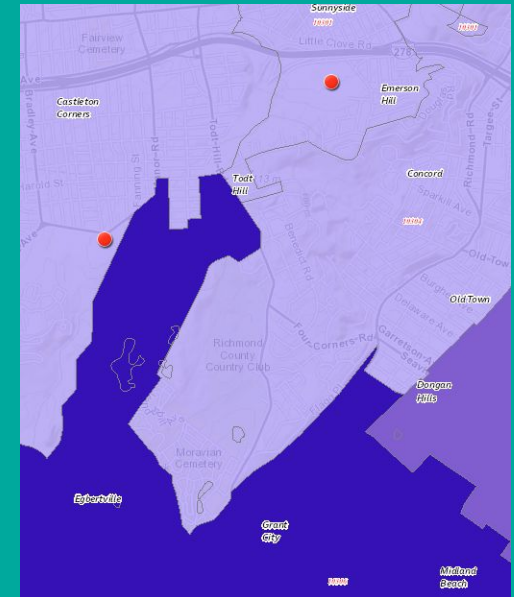
**28%
funded**

Revised Requirements:
US\$ 4,264,717,711

Funding Received:
US\$ 1,177,699,405

Unmet Requirements:
US\$ 3,087,018,306

Insights



<http://fts.unocha.org/pageloader.aspx?page=special-syriancrisis>

Software People Want Structured Data

Developers want structured (organized) data so they can build apps that use it



What's the Problem?

	Can't Use It	Can't Share It	Can't Merge It
Problem	Difficulty producing and/or utilizing data.	Have useful data but aren't sharing it with each other.	Want to share data but their data isn't interoperable with that of their peers.
Solutions	A strategy utilizing the most accessible technologies (i.e. spreadsheets).	Explicit criteria that orgs can use to make data sharing decisions.	Data standards & templates that make it easy for orgs to create interoperable data.

Data Standards are NOT Technical

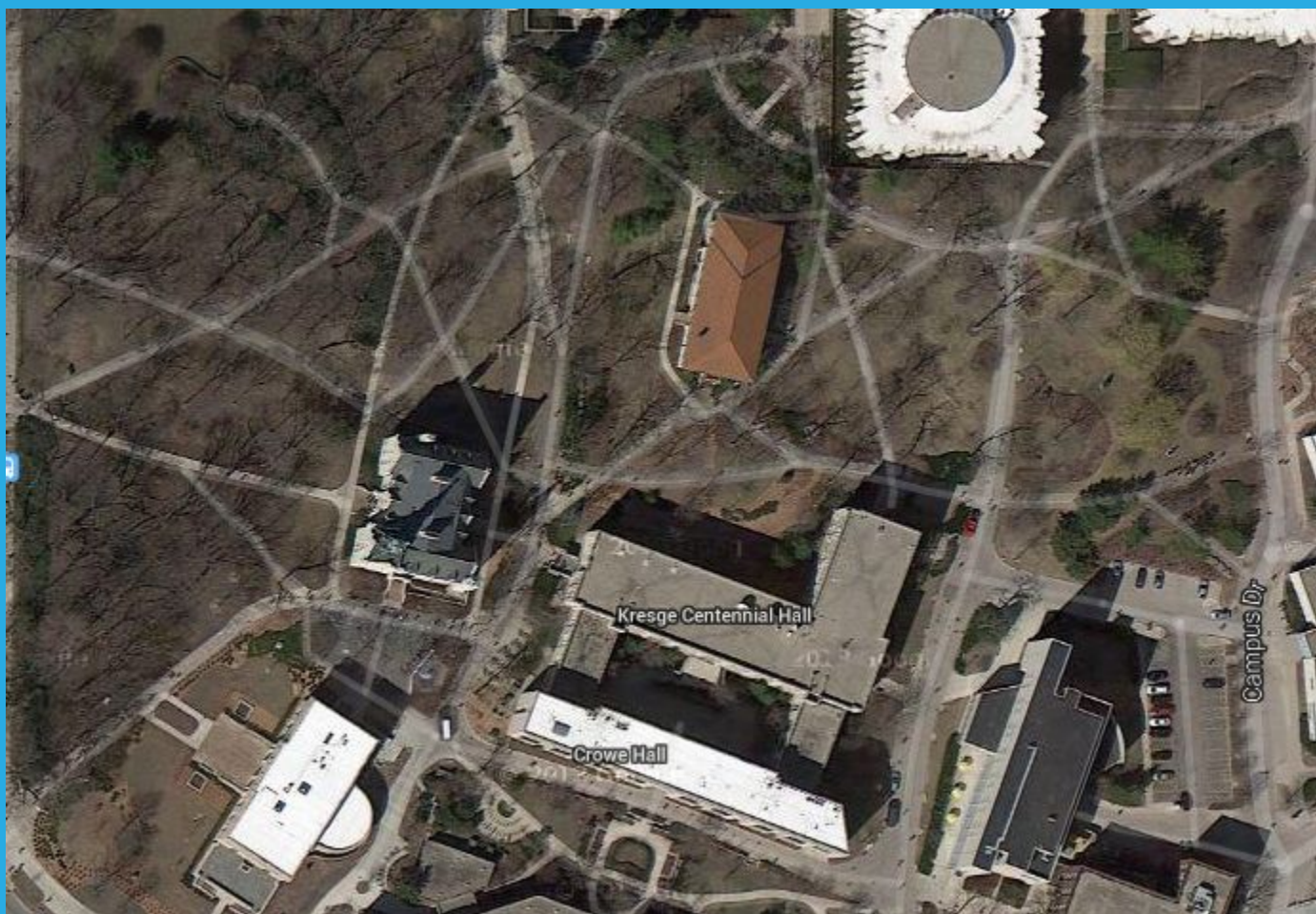
They answer questions like:

- How do you describe something?
- What terms do you use to classify that thing?
- What information do you need to know to make a good decision?

We all, as a community, need to answer these questions.

Our answers don't need to be the same, but we need to compare and contrast them.


Data Standards are Pathways



Anatomy of a Data Standard

Schemas

Column headers define the data in each row.



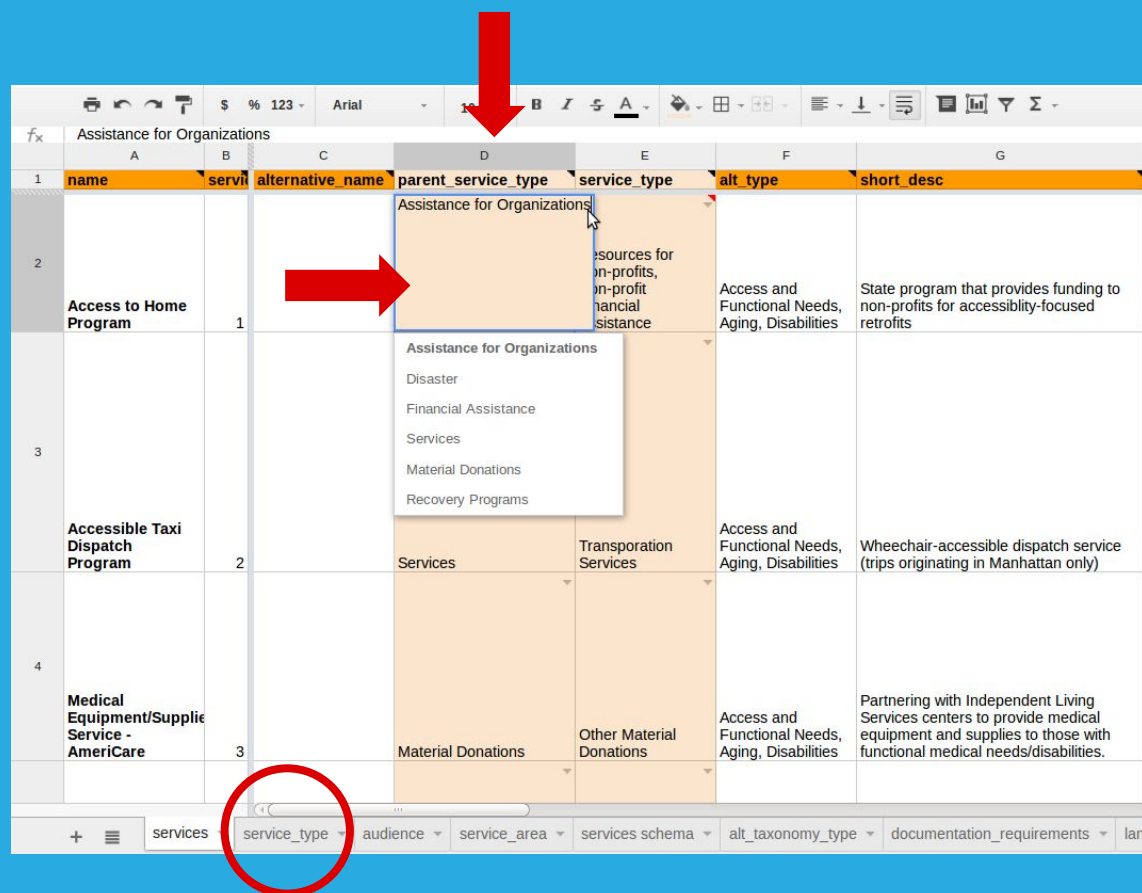
	A	B	C	D	E	F	G
1	name	servi	alternative_name	parent_service_type	service_type	alt_type	short_desc
2	Access to Home Program	1		Assistance for Organizations	Resources for Non-profits, Non-profit Financial Assistance	Access and Functional Needs, Aging, Disabilities	State program that provides funding to non-profits for accessibility-focused retrofits
3	Accessible Taxi Dispatch Program	2		Services	Transportation Services	Access and Functional Needs, Aging, Disabilities	Wheelchair-accessible dispatch service (trips originating in Manhattan only)
4	Medical Equipment/Supplies Service - AmeriCare	3		Material Donations	Other Material Donations	Access and Functional Needs, Aging, Disabilities	Partnering with Independent Living Services centers to provide medical equipment and supplies to those with functional medical needs/disabilities.
5	Case Management - ANIBIC	4		Services	Case Management	Access and Functional Needs, Aging, Disabilities	Advocacy group/service provider for children and adults with developmental disabilities
6	NYS Justice Center for the Protection of People with Special Needs				Referral Services, Adult		

Anatomy of a Data Standard

Taxonomies

Set of terms used to classify items.

These terms can be defined in another sheet and made accessible through “data validation” functions.



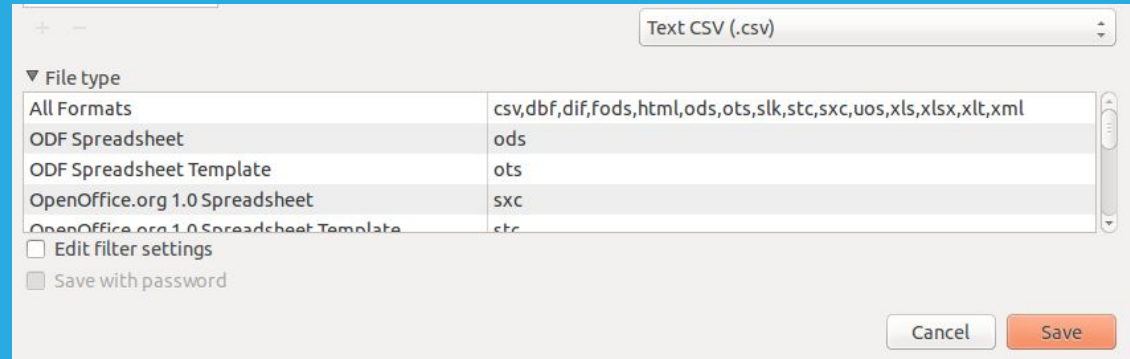
The screenshot shows an Excel spreadsheet titled 'Assistance for Organizations'. The table has columns: name, service_id, alternative_name, parent_service_type, service_type, alt_type, and short_desc. A red arrow points to the 'parent_service_type' dropdown menu, which is currently open, showing a list of options: Assistance for Organizations, Disaster, Financial Assistance, Services, Material Donations, and Recovery Programs. Another red arrow points to the 'service_type' column. A red circle highlights the 'service_type' dropdown menu in the bottom row.

	A	B	C	D	E	F	G
	name	service_id	alternative_name	parent_service_type	service_type	alt_type	short_desc
1				Assistance for Organizations			
2	Access to Home Program	1		Assistance for Organizations	Resources for non-profits, non-profit financial assistance	Access and Functional Needs, Aging, Disabilities	State program that provides funding to non-profits for accessibility-focused retrofits
3	Accessible Taxi Dispatch Program	2		Services	Transportation Services	Access and Functional Needs, Aging, Disabilities	Wheelchair-accessible dispatch service (trips originating in Manhattan only)
4	Medical Equipment/Supply Service - AmeriCare	3		Material Donations	Other Material Donations	Access and Functional Needs, Aging, Disabilities	Partnering with Independent Living Services centers to provide medical equipment and supplies to those with functional medical needs/disabilities.

Anatomy of a Data Standard

Format

All spreadsheet export/save data into .csv format, which is compatible with almost all databases.



Anatomy of a Data Standard

Licenses

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<http://opendefinition.org/>

OPEN DATA

The Licenses



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Standardized Data is Interoperable

If datasets share **schema**, **taxonomies**, **formats** and have the same or compatible **licenses**, they can be merged together to create canonical resources and can be manipulated by the same software systems.

In other words: it makes seamless sharing of information possible among groups that choose to conform to the standard.

Conforming to data standards doesn't mean your data is automatically shared — just that it can be shared easily, should you choose to share it.







Data Standards for NYC

A set of data standards for emergency management information in NYC that is widely accessible to institutions and grassroots groups alike.

- News & Events
- Requests
 - Supplies
 - Assets
 - People
- Facilities
- Organizations
- People
- Resources
 - Assets
 - Inventories
 - Services
- Assessments
 - Canvass
 - Individual needs
 - Damage
 - Unmet needs

It Begins With...

... a series of spreadsheets, form templates and simple training materials that defines how information should be collected and what should be done with it.

<input type="checkbox"/>	TITLE
<input type="checkbox"/> ☆	 Data Standards Introduction Shared
<input type="checkbox"/> ☆	 Assessments Template Shared
<input type="checkbox"/> ☆	 Resources Template Shared
<input type="checkbox"/> ☆	 Organizations Template Shared
<input type="checkbox"/> ☆	 Facilities Template Shared
<input type="checkbox"/> ☆	 Requests Template Shared

Site *
The name of the location that supplies are to be sent.

Address *
The address of the site that the supplies are to be sent.

Site Contact (Primary) *
Name, Phone, Email (This is very important information to gather)

Site Contact (Secondary)
Name, Phone, Email

Site Resources

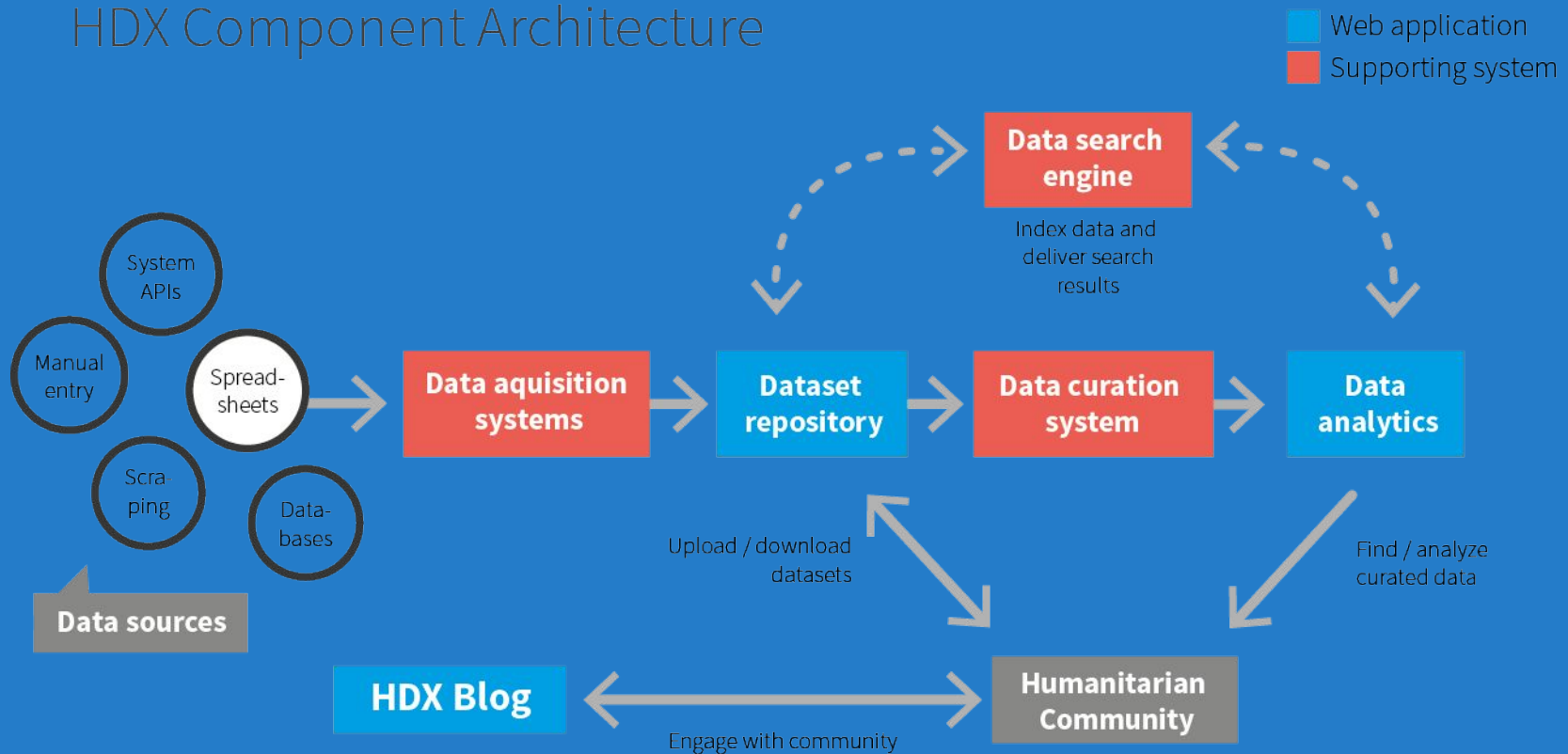
Cell Service?
Does the site have reliable cell service?
☐ Yes
☐ No
☐ Unreliable / Unsure

Has Electricity?
Does the site have electricity?
☐ Yes
☐ No
☐ Partial / Unreliable

It Matures Into

... a comprehensive set of solutions for information sharing.

HDX Component Architecture



<http://docs.hdx.rwlab.org/>

It Requires a Commitment

- For “non technical” people to come to the table and to come to some level of agreement on how to describe things.
- We need a process to keep these standards flexible and up to date.
- For institutions to build capabilities for sharing information with each other and with the grassroots.
- For those with resources to fulfill requests that originate from reputable groups and conform to established standards.

Connect with Us

Learn More
nycprepared.org

Contact Us
info@nycprepared.org

Register Your Org
nycprepared.org/register

Follow Us on Twitter
[@nycprepared](https://twitter.com/nycprepared)

Being Done: Directory of Services

Turning PDFs into spreadsheets enable us....

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se...	name	alternative_name	alt_type	parent_s...	service_type	organization	short_desc	description	outcomes
1	Access to Home Program		Access and Functional Needs, Aging, Disability...	Assistance for Organiza...	Resources for Non-profits, Non-profit Financial Assistance	New York State Homes & Community Renewal	State program that provides funding to non-profits for accessibility-focused retrofits	The Access to Home Program provides financial assistance to property owners to make dwelling units accessible for low- and moderate income persons with disabilities. Loans are made to non-profits and municipalities, which then provide loans to homeowners. Adaptation work must meet the needs of those with physical disabilities and seniors with an age-related disability. Examples include: wheel chair ramps and lifts, handrails, easy-to-reach kitchen work and storage areas, lever handles on doors, roll-in showers with grab bars, etc.	Accessible dwelling units
2	Accessible Taxi Dispatch Program		Access and Functional Needs, Aging, Disability...	Services	Transportation Services	Accessible Dispatch	Wheelchair-accessible dispatch service (trips originating in Manhattan only)	• Wheelchair-accessible taxis respond to trips originating in Manhattan and ending anywhere in New York City's five boroughs. • There are no extra costs to passengers. Passengers pay the regular metered taxi fare in New York City from the point of pick-up to their destination. • Accessible vehicles in the NYC fleet include both rear and side-entry minivans and side-entry MV-1 mobility vehicles. • All drivers who operate wheelchair-accessible taxicabs have been trained in wheelchair assistance, boarding and de-boarding protocols, disability awareness and passenger sensitivity.	Wheelchair accessible transportation
3	Medical Equipme... Service - AmeriCare		Access and Functional Needs, Aging, Disability...	Material Donations	Other Material Donations	AmeriCares	Partnering with Independent Living Services centers to provide medical equipment and supplies to those with functional medical needs/disabilities.		Medical equipment, Medical supplies
4	Case Manage... - ANIBIC		Access and Functional Needs, Aging, Disability...	Services	Case Management	ANIBIC	Advocacy group/service provider for children and adults with developmental disabilities	For over 50 years, The Association for Neurologically Impaired Brain Injured Children, ANIBIC, has been providing services to people with special needs. ANIBIC is dedicated to enabling individuals to reach their potential so that they may live as productively as possible. We encourage integration and inclusion in the community and are committed to a person-centered process as we work to serve consumers and their families. We offer a broad range of services for children as young as five and throughout adulthood. We understand that people with special needs are people first and that their individual challenges are just part of what makes them special.	Case Management services

Example: Directory of Services

... to create applications that help people to help themselves.

English
Español
Tagalog
中文
العربية
Русский

I need...
what are you looking for?
Search

Government Assistance

- CalFresh/Food Stamps
- Health Insurance
- Medi-Cal
- Medicare
- SFMNP/Food Vouchers For Seniors
- WIC/Women, Infants, & Children

Human Services

Children and Family Services

San Mateo County Human Services Agency

Accepts referrals about situations in which children age 17 or under are in jeopardy because of abuse, abandonment or exploitation.

Description: Takes reports of situations in which children age 17 or under may be in jeopardy because of abuse, abandonment, sexual molestation, exploitation or neglect. When the home situation is such that the child needs to be placed under the protection of the juvenile court, this unit initiates court action, conducts an investigation and supervises children who have been removed from parental custody. Can ... <more>

Location

Public Transit: SAMTRANS stops within 3 blocks.

Contact

- Marsha Beaman (Court Investigations)
- Matt Radisch (Licensing)
- Pravin Patel (Shelter Care)
- Marie Morris (Adoptions)

(800) 632-4615
Hotline
(24 hours daily)

(650) 802-5001
Fax

Homepage

www.smchsa.org

Mailing Address

Children and Family Services
1 Davis Drive
Belmont, CA 94002

Service Categories

- Emergency
- Emergency Shelter
- Housing
- Emergency Shelter
- Care
- Adoption & Foster Care