

Diseño de una aplicación web para gestionar y visualizar datos de acciones humanitarias

Proyecto Final del Máster en Tecnologías de la Informació Geogràfica, 19a edició, 2016-17

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Index

1. Introducción
2. Metodología
3. Resultados
4. Conclusiones

I. Introducción

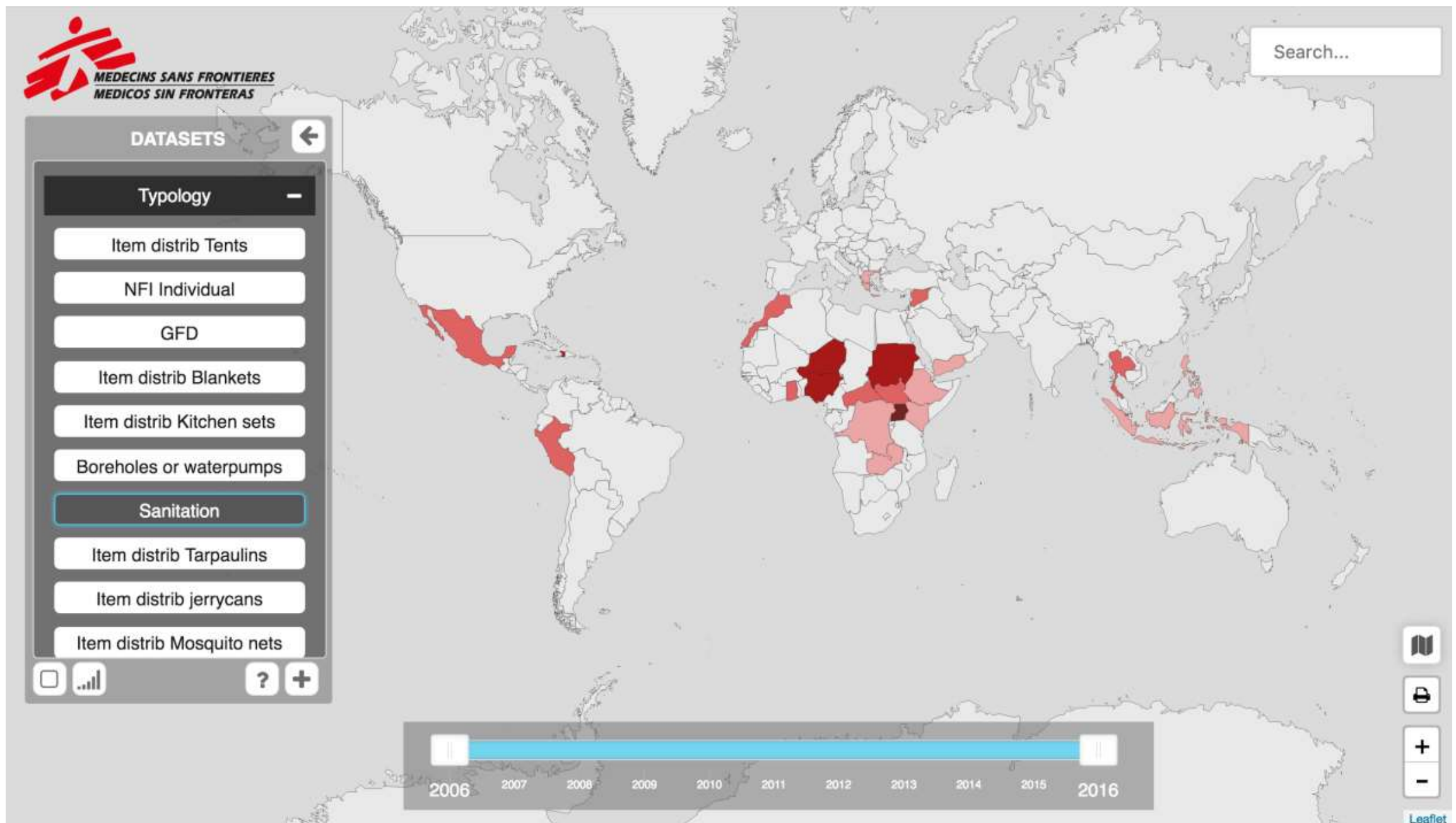
Planteamiento del proyecto

- Visor web de mapas
- Datos de acciones humanitarias de MSF-OCBA
- Punto de inicio - datos de tipología logística
 - Distribuciones de recursos
 - *Datasets* – conjuntos de datos

Objetivos

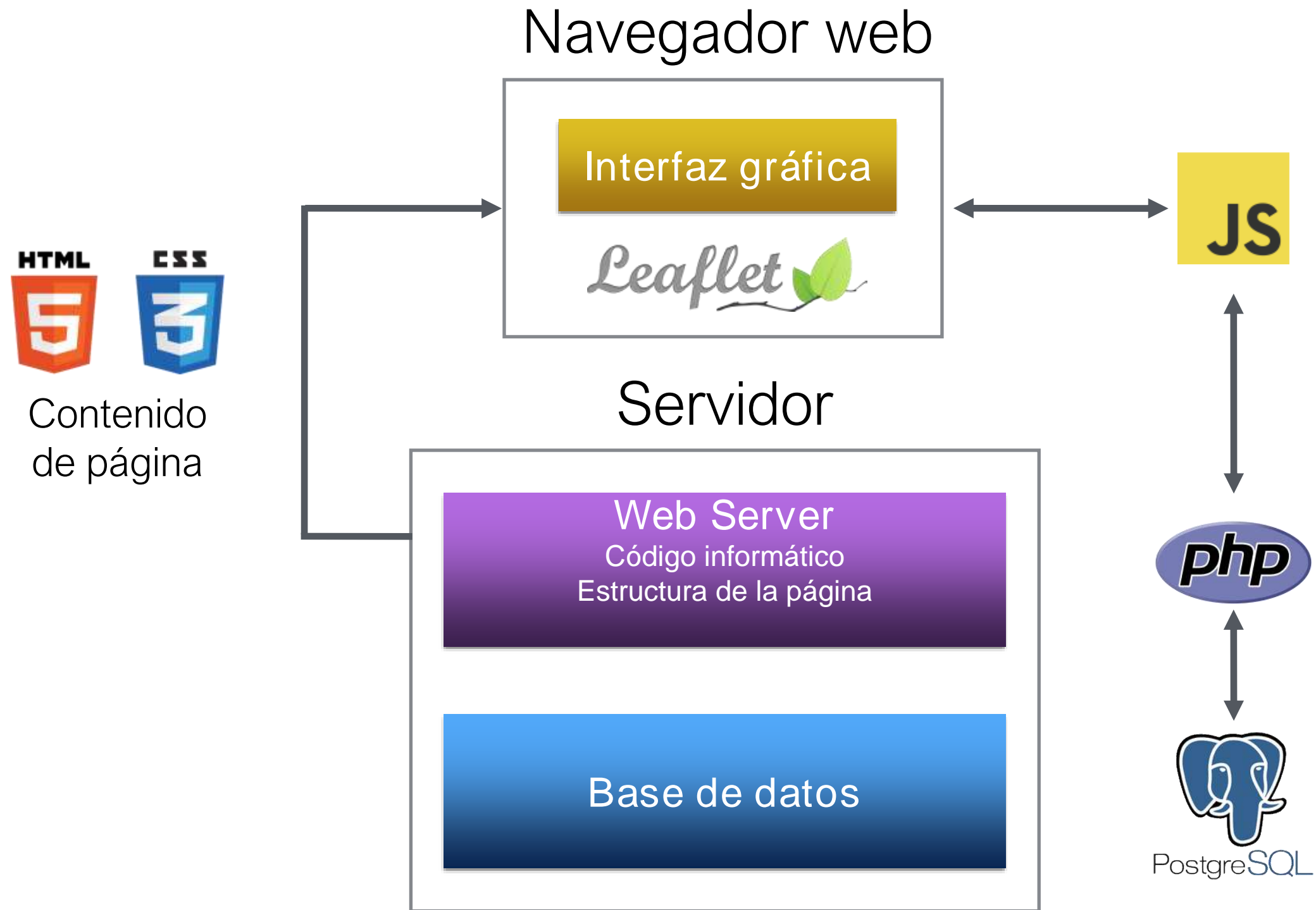
- Crear base de datos adaptable
- Crear visor de mapas
 - Visualizar datos:
 - por año y tema
 - En mapa y numéricamente
- Interfaz “User-friendly”

ID	Header	Mission	Project	y2006	y2007	y2008	y2009	y2010	y2011
1	LOG NFI Family	BOLIVIA	Gualberto Villaroel	600,00	0	0	0	0	0
2	LOG NFI Family	BOLIVIA	LA PAZ, base	0	0	0	0	0	0
3	LOG NFI Family	BOLIVIA	BENI, Inundaciones 2014	0	0	0	0	0	0
4	LOG Item distrib Higiene kits	BOLIVIA	BENI, Inundaciones 2014	0	0	0	0	0	0
5	LOG Item distrib jerrycans	BOLIVIA	BENI, Inundaciones 2014	0	0	0	0	0	0
6	LOG OPS mass distributions	BOLIVIA	BENI, Inundaciones 2014	0	0	0	0	0	0
7	LOG NFI Family	CAR	Kabo & Batangafo	11.500,00	0	0	0	0	0
8	LOG NFI Family	CAR	Batangafo, Kabo, Kagabandoro	0	11.500	0	0	0	0
9	LOG Sanitation	CAR	Kagabandoro, Medical Assistance	0	0	93	0	0	0
10	LOG NFI Family	CAR	Kagabandoro, Medical Assistance	0	0	675	0	0	0
11	LOG NFI Family	CAR	Kabo, IDPs emergency	0	0	449	0	0	0
12	LOG NFI Family	CAR	Kabo, medical assistance	0	0	0	0	0	1.522
13	LOG NFI Family	CAR	Ndele, medical assistance	0	0	0	0	0	135
14	LOG NFI Family	CAR	BATANGAFO, emergency IDPs	0	0	0	0	0	0
15	LOG NFI Family	CAR	OUANDAGO, emergency NFI	0	0	0	0	0	0
16	LOG Boreholes	CAR	Farasala	0	0	0	0	0	0
17	LOG NFI Family	CAR	CAR, NFI distribution 2013	0	0	0	0	0	0
18	LOG NFI Family	CAR	Dekoa Emergency Intervention	0	0	0	0	0	0
19	LOG Sanitation	CAR	BANGUI, Emergency Response	0	0	0	0	0	0
20	LOG Sanitation	CAR	CAR, Dekoa Emergency Intervention	0	0	0	0	0	0
21	LOG Water Distr	CAR	BANGUI, Emergency Response	0	0	0	0	0	0
22	LOG Item distrib Blankets	CAR	CAR, Dekoa Emergency Intervention	0	0	0	0	0	0
23	LOG Item distrib Tarpaulins	CAR	CAR, Dekoa Emergency Intervention	0	0	0	0	0	0
24	LOG Item distrib Mosquitonets	CAR	CAR, Dekoa Emergency Intervention	0	0	0	0	0	0
25	LOG Item distrib jerrycans	CAR	CAR, Dekoa Emergency Intervention	0	0	0	0	0	0
26	LOG OPS mass distributions	CAR	CAR, Dekoa Emergency Intervention	0	0	0	0	0	0
27	LOG OPS mass distributions	CAR	KABO, Medical Assistance	0	0	0	0	0	0
28	LOG NFI Family	CAR	KABO, Medical Assistance	0	0	0	0	0	0
29	LOG Item distrib Mosquitonets	CAR	KABO, Medical Assistance	0	0	0	0	0	0
30	LOG GFD	CAR	KABO, Medical Assistance	0	0	0	0	0	0
31	LOG NFI Family	CAR	KABO, Medical Assistance	0	0	0	0	0	0
32	LOG Item distrib Mosquitonets	CAR	KABO, Medical Assistance	0	0	0	0	0	0
33	LOG NFI Family	CAR	BATANGAFO, Medical Assistance	0	0	0	0	0	0
34	LOG Item distrib Mosquitonets	CAR	BATANGAFO, Medical Assistance	0	0	0	0	0	0
35	LOG Item distrib Mosquitonets	CAR	NDELE, medical assistance	0	0	0	0	0	0
36	LOG Item distrib Mosquitonets	CAR	CAR, EURECA - MERT	0	0	0	0	0	0
37	LOG OPS mass distributions	CAR	KABO, Medical Assistance	0	0	0	0	0	0
38	LOG OPS mass distributions	CAR	BATANGAFO, Medical Assistance	0	0	0	0	0	0
39	LOG OPS mass distributions	CAR	NDELE, medical assistance	0	0	0	0	0	0
40	LOG OPS mass distributions	CAR	CAR, EURECA - MERT	0	0	0	0	0	0
41	LOG Boreholes	CHAD	Salamat	0	0	0	0	0	0
42	LOG NFI Family	CHILE	Earthquake	0	0	0	0	5.083	0
43	LOG NFI Family	COLOMBIA	Bogota & Soacha	350,00	0	0	0	0	0
44	LOG GFD	COLOMBIA	Barbacoas	0	172	0	0	0	0
45	LOG GFD	COLOMBIA	Huila	0	140	0	0	0	0
46	LOG NFI Family	COLOMBIA	Barbacoas	0	323	0	0	0	0
47	LOG NFI Family	COLOMBIA	Soacha	0	292	0	0	0	0
48	LOG NFI Family	COLOMBIA	Huila	0	140	0	0	0	0
49	LOG OPS mass distributions	COLOMBIA	CAUCA, Violencia	0	0	0	0	0	0



II. Metodología

Arquitectura del sistema



Los datos

- Alfanuméricos
- Cartográficos

Tablas de datos



Header	Mission	Project	y2006	y2007
NFI Family	BOLIVIA	Gualberto Villaroel	600,00	0

Cartografía GeoJSON





	id [PK] Integ...	header text	mission text	project text	y2006 integer	y2007 integer
<input type="checkbox"/>	599	LOG NFI Family	CAR	Kabo & Batangafo	11500	0
<input type="checkbox"/>	600	LOG NFI Family	SOMALIA	Jowhar (emergency)	7516	0
<input type="checkbox"/>	601	LOG NFI Family	ETHIOPIA	South Gondar	4000	0
<input type="checkbox"/>	602	LOG NFI Family	SYRIA	Damascus	3500	0
<input type="checkbox"/>	603	LOG NFI Family	KENYA	Samburu	3294	0
<input type="checkbox"/>	604	LOG NFI Family	ETHIOPIA	Guji	3112	0
<input type="checkbox"/>	605	LOG NFI Family	KENYA	Tana River*	1309	0
<input type="checkbox"/>	606	LOG NFI Family	BOLIVIA	Gualberto Villaroel	600	0
<input type="checkbox"/>	607	LOG NFI Family	ECUADOR	Tungurahua	430	0
<input type="checkbox"/>	608	LOG NFI Family	KENYA	Busia	400	0
<input type="checkbox"/>	609	LOG NFI Family	COLOMBIA	Bogota & Soacha	350	0
<input type="checkbox"/>	610	LOG NFI Individual	MOROCCO	Tanger	259	0
<input type="checkbox"/>	611	LOG NFI Family	DRC	Pweto, Kipushi	200	0

fichero GeoJSON:

Coordinadas

Nombre de país

BD Postgres:

Datos tipología

Nombre de país



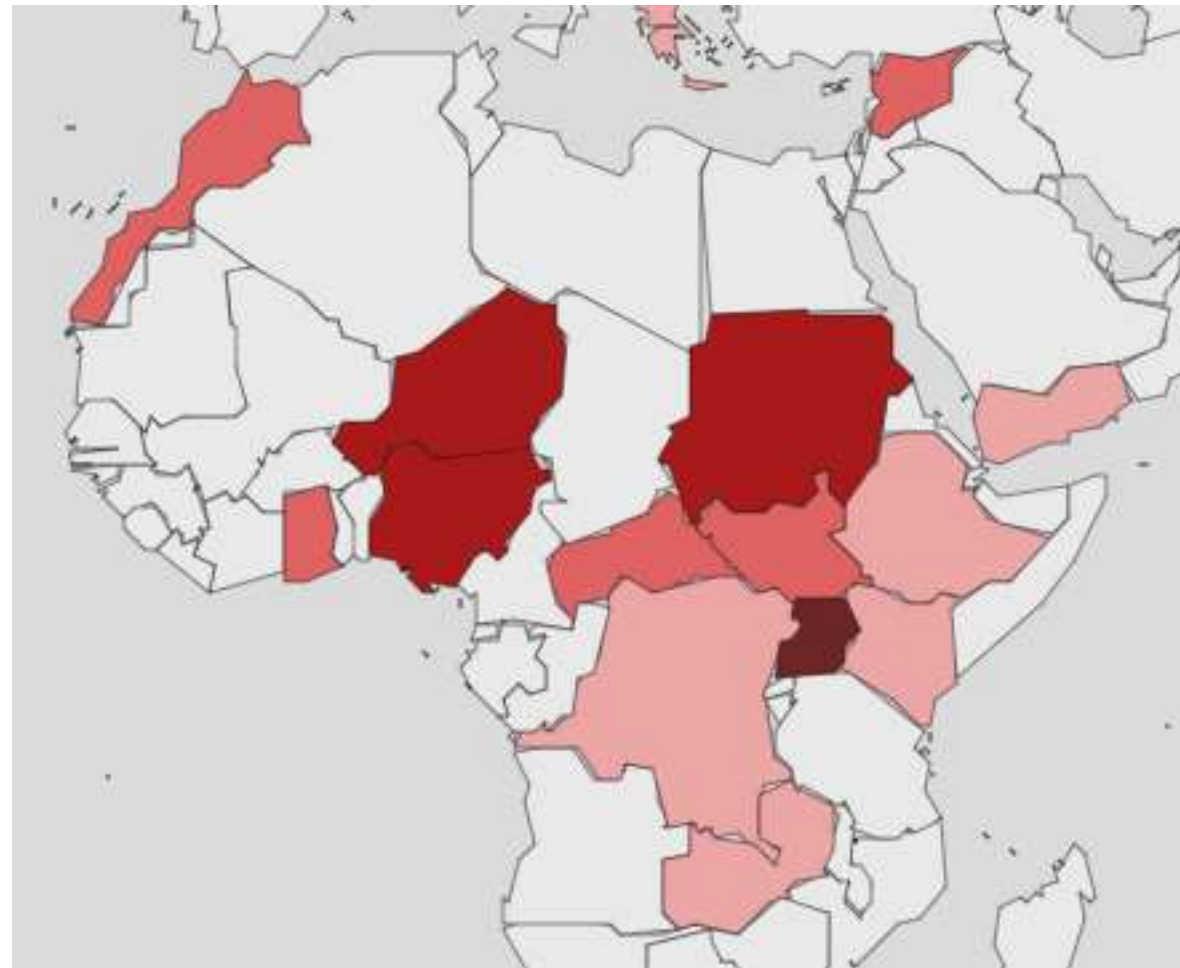
Simbolización



#D12121



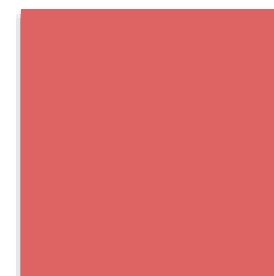
1 dataset



#6D2626



#A71A1A

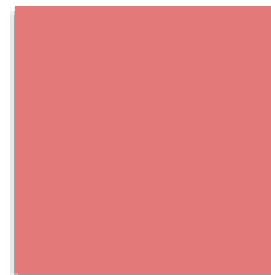
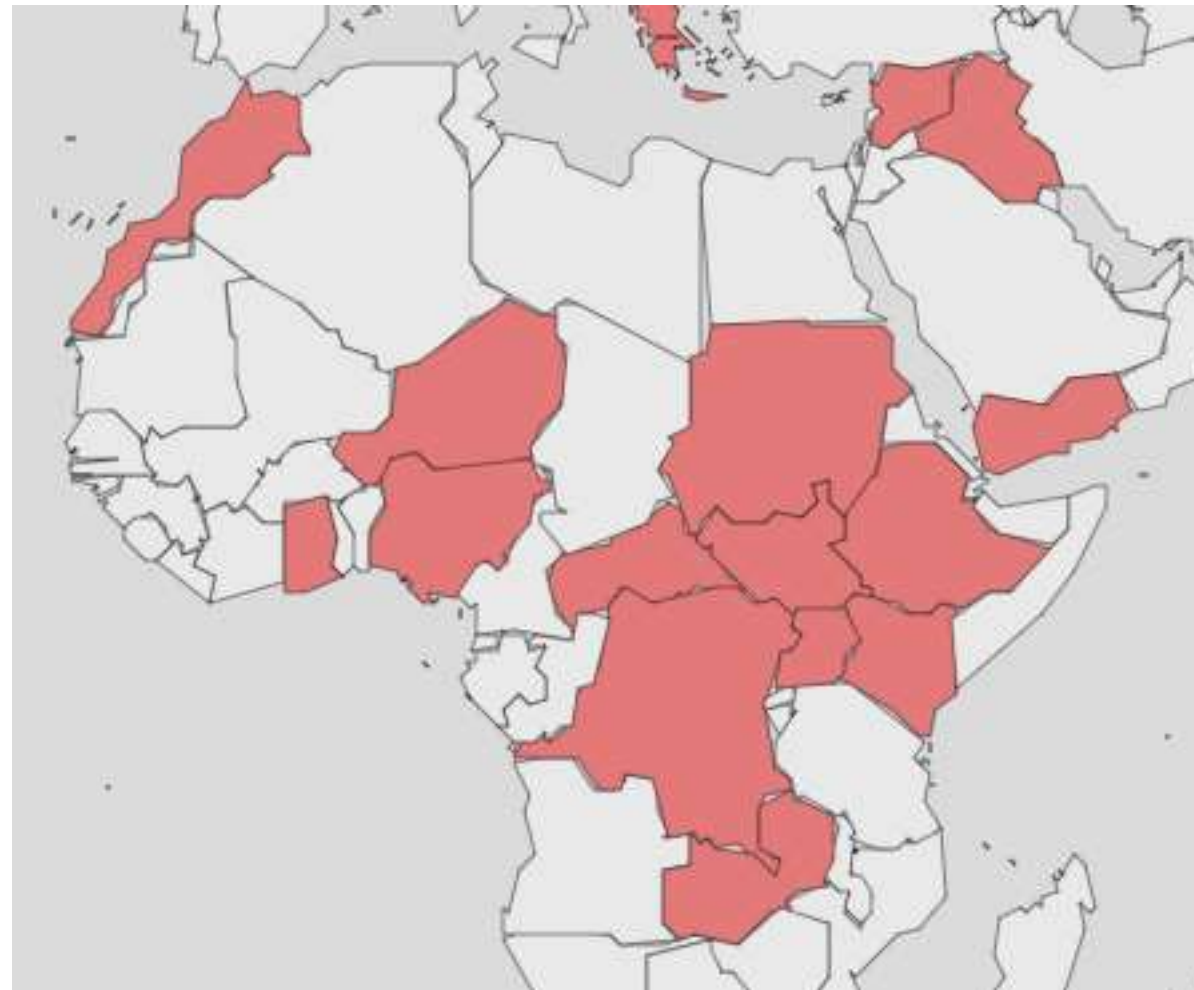


#DE6363



#ECA6A6

Más que 1 dataset



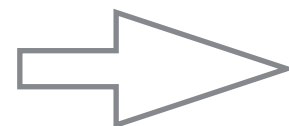
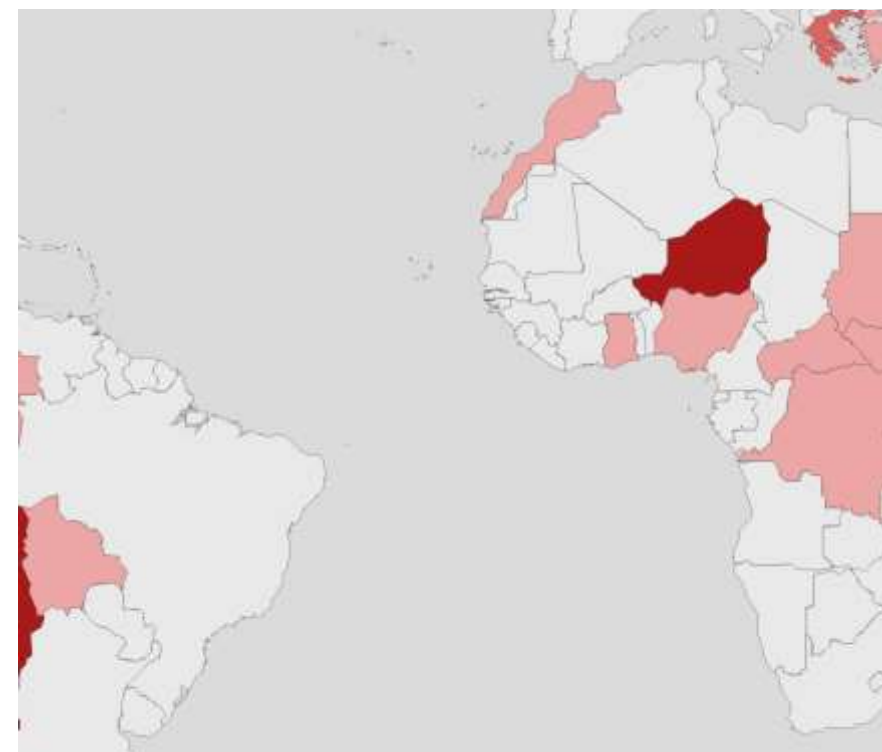
#E37979

Interacción con la base de datos

1. Interfaz, sin datos



6. Polígonos toman color correcto



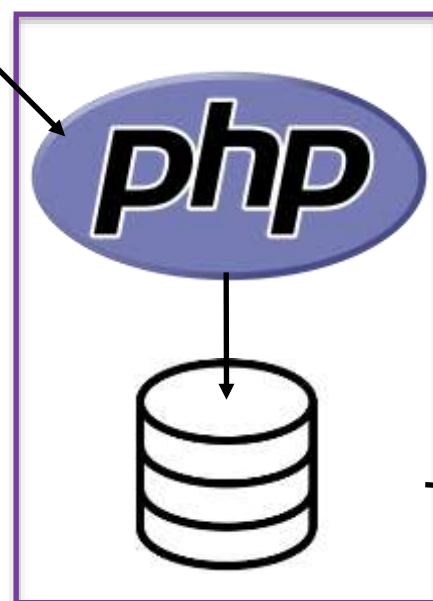
sin refrescar página

2. Llamada a fichero PHP

5. Datos vinculados con
nombres de país

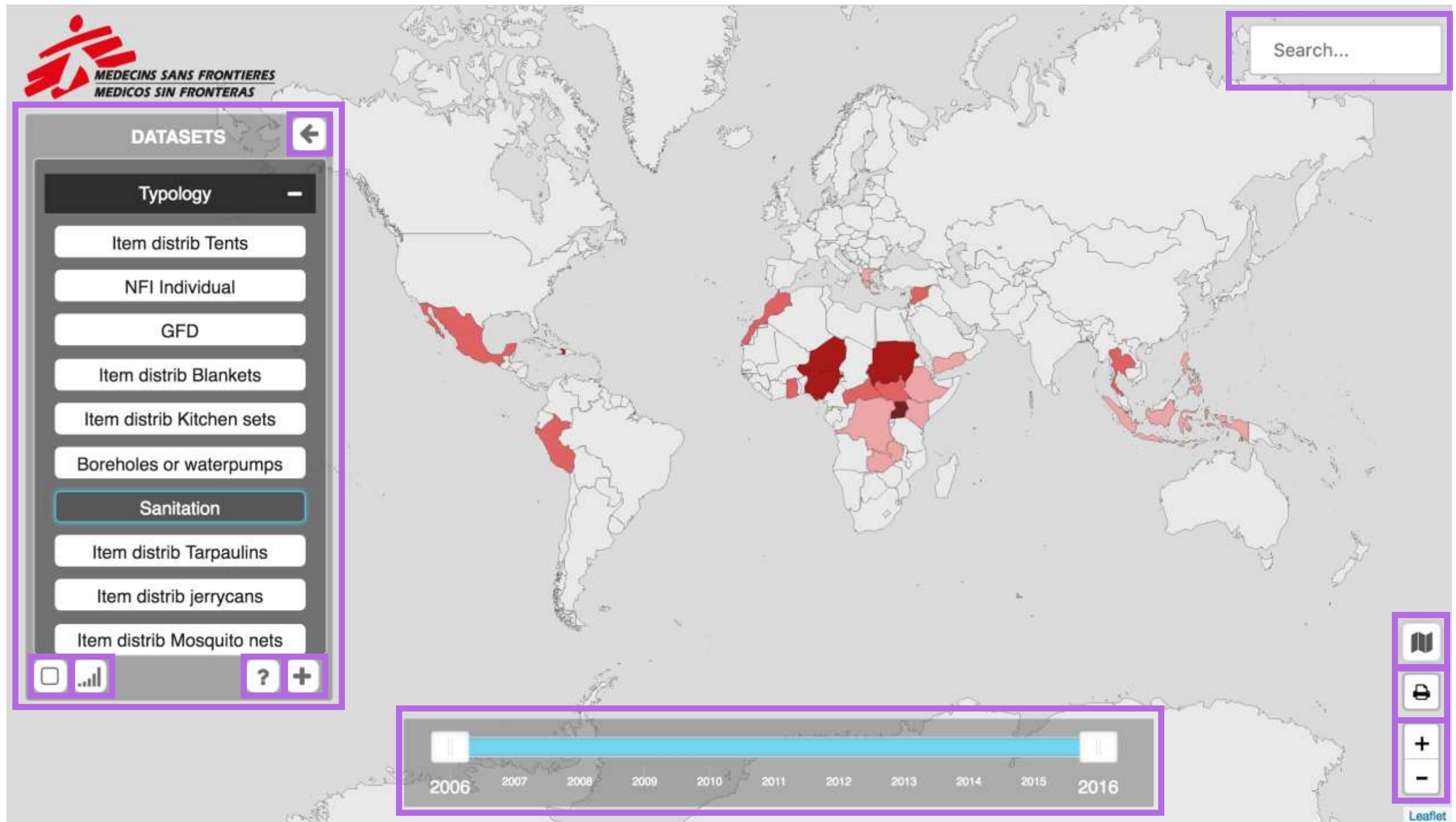
3. Consulta SQL se
construye de variables

4. Consulta
ejecutada,
Datos devueltos a
la interfaz

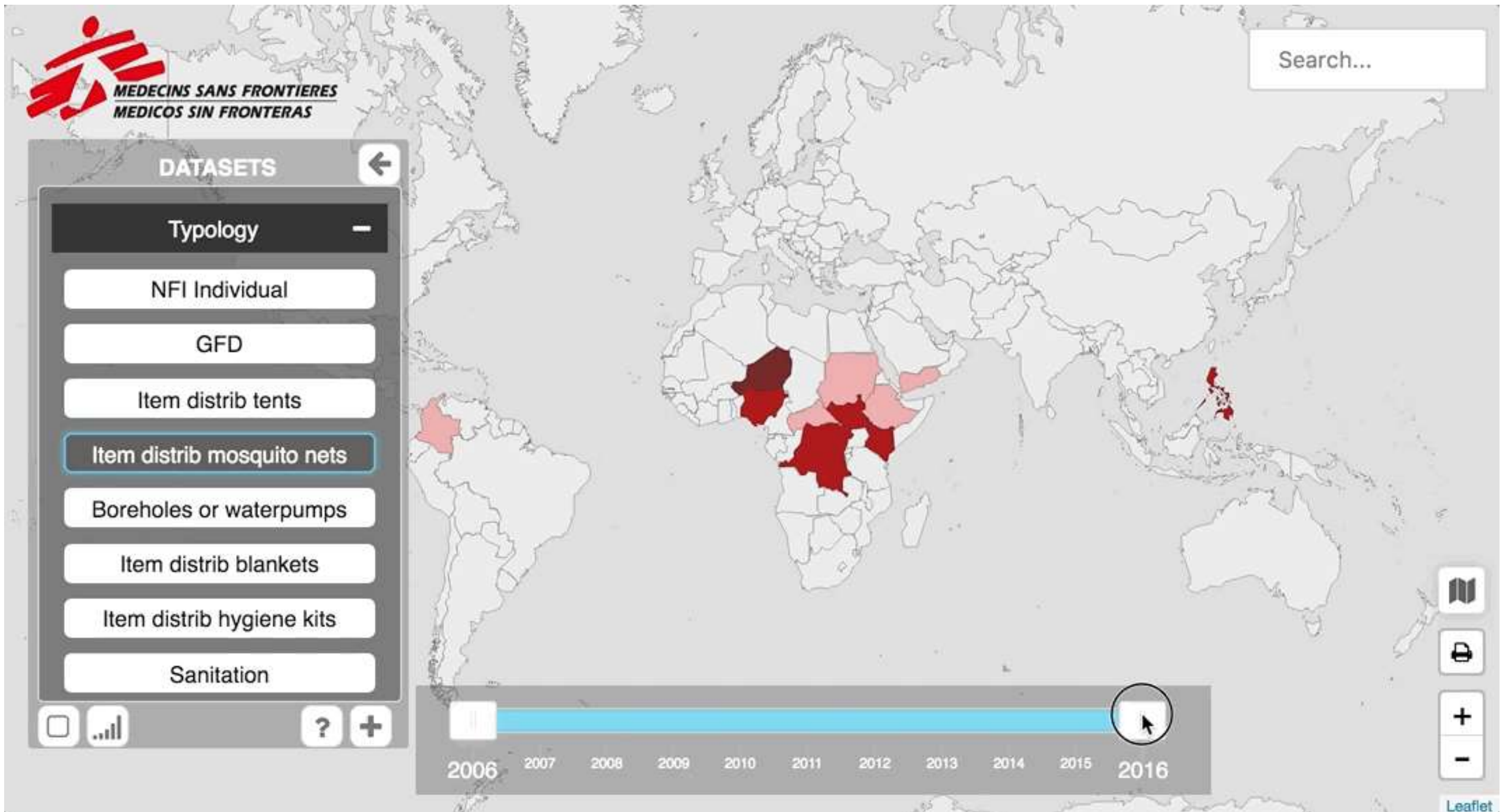


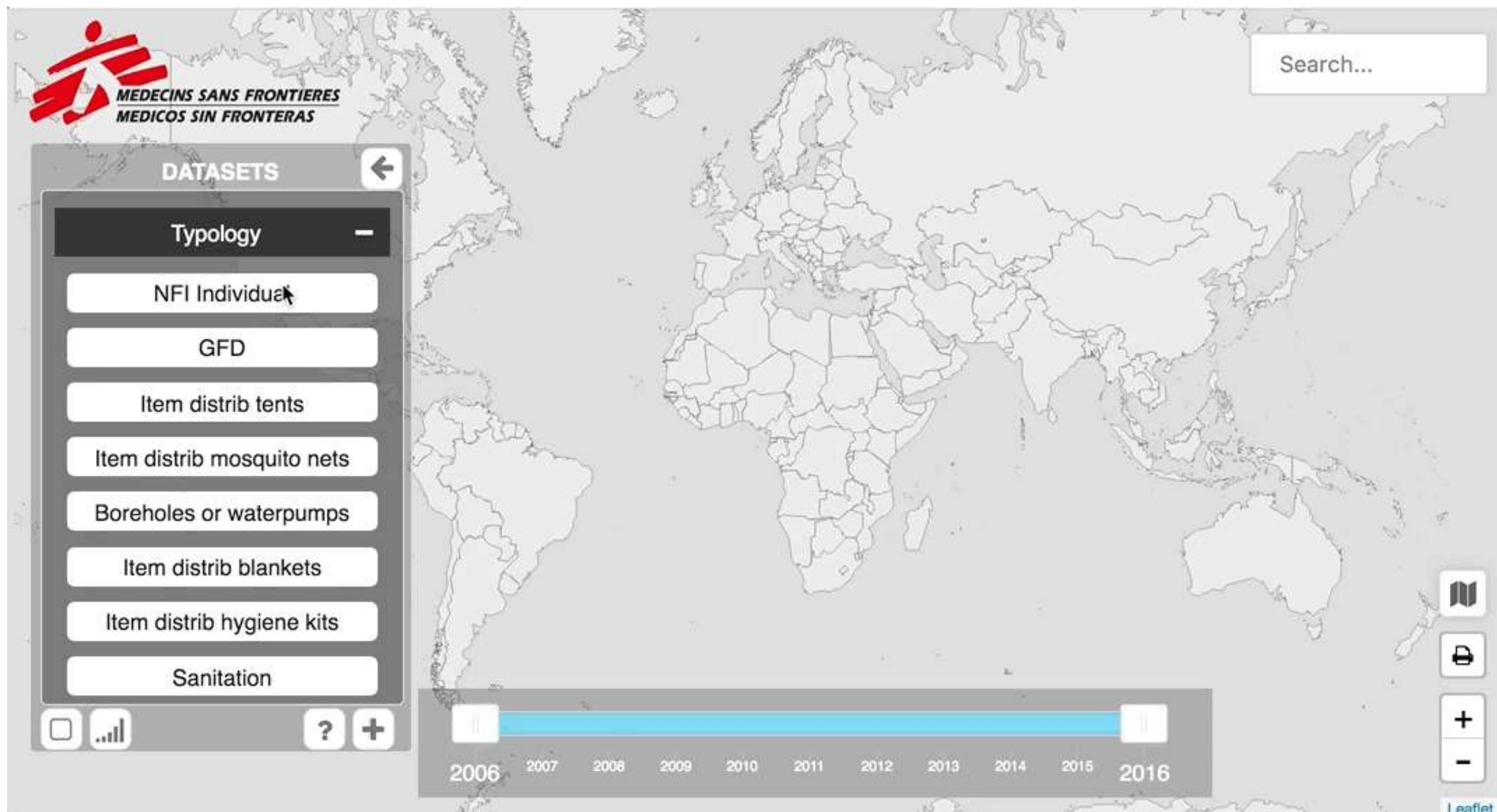
III. Resultados

La interfaz gráfica

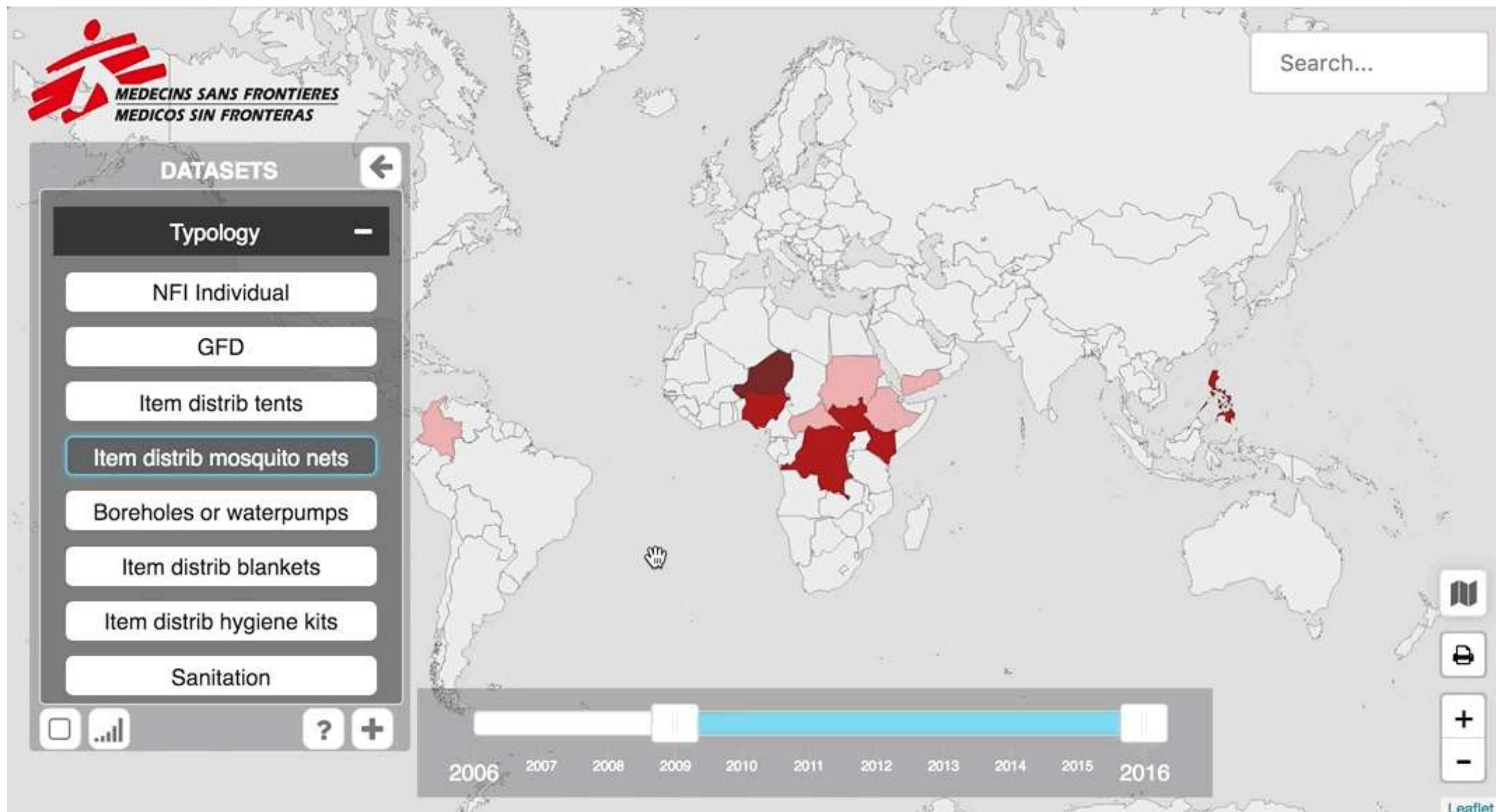


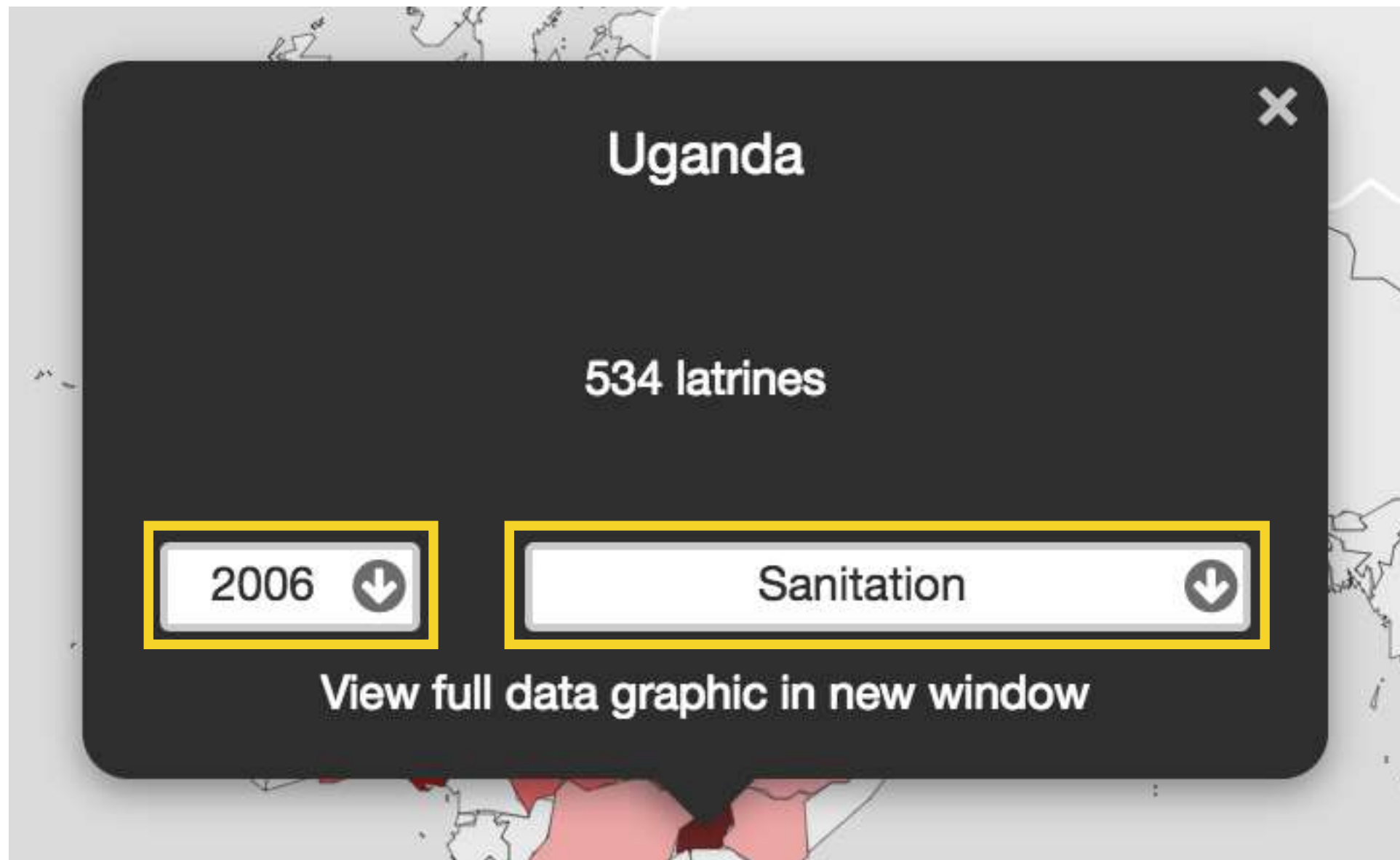
Filtro de datos



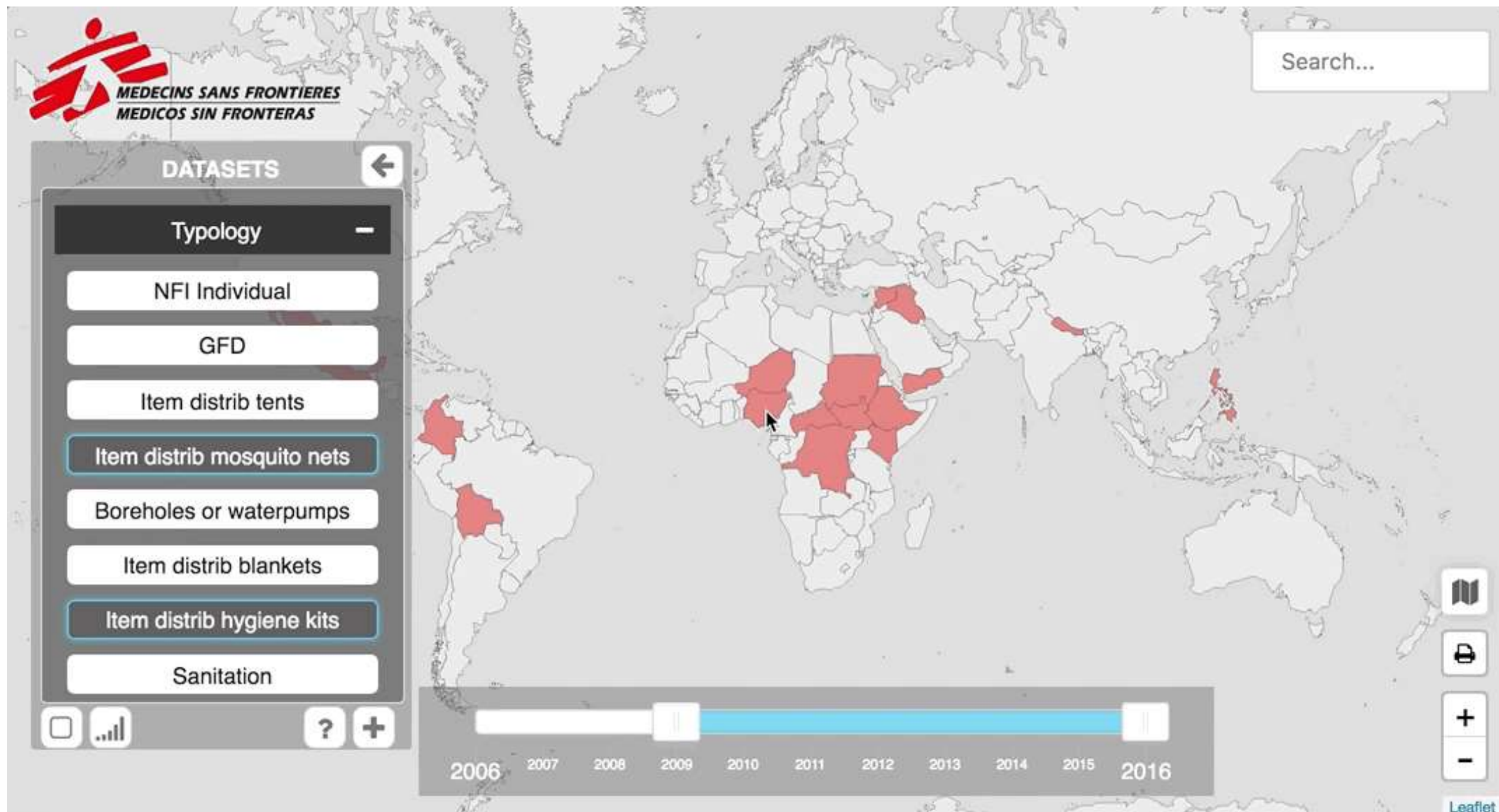


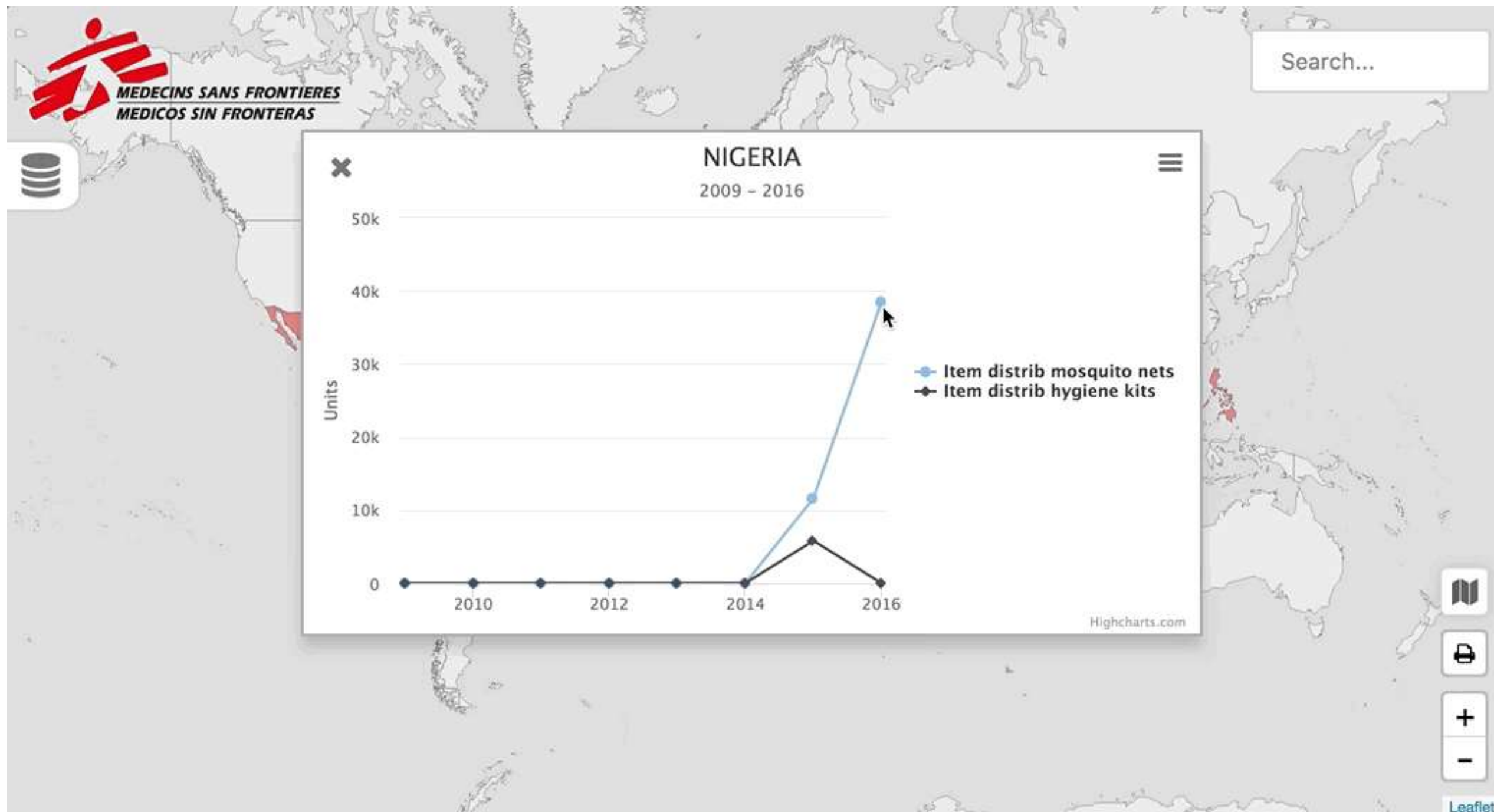
Pop-ups



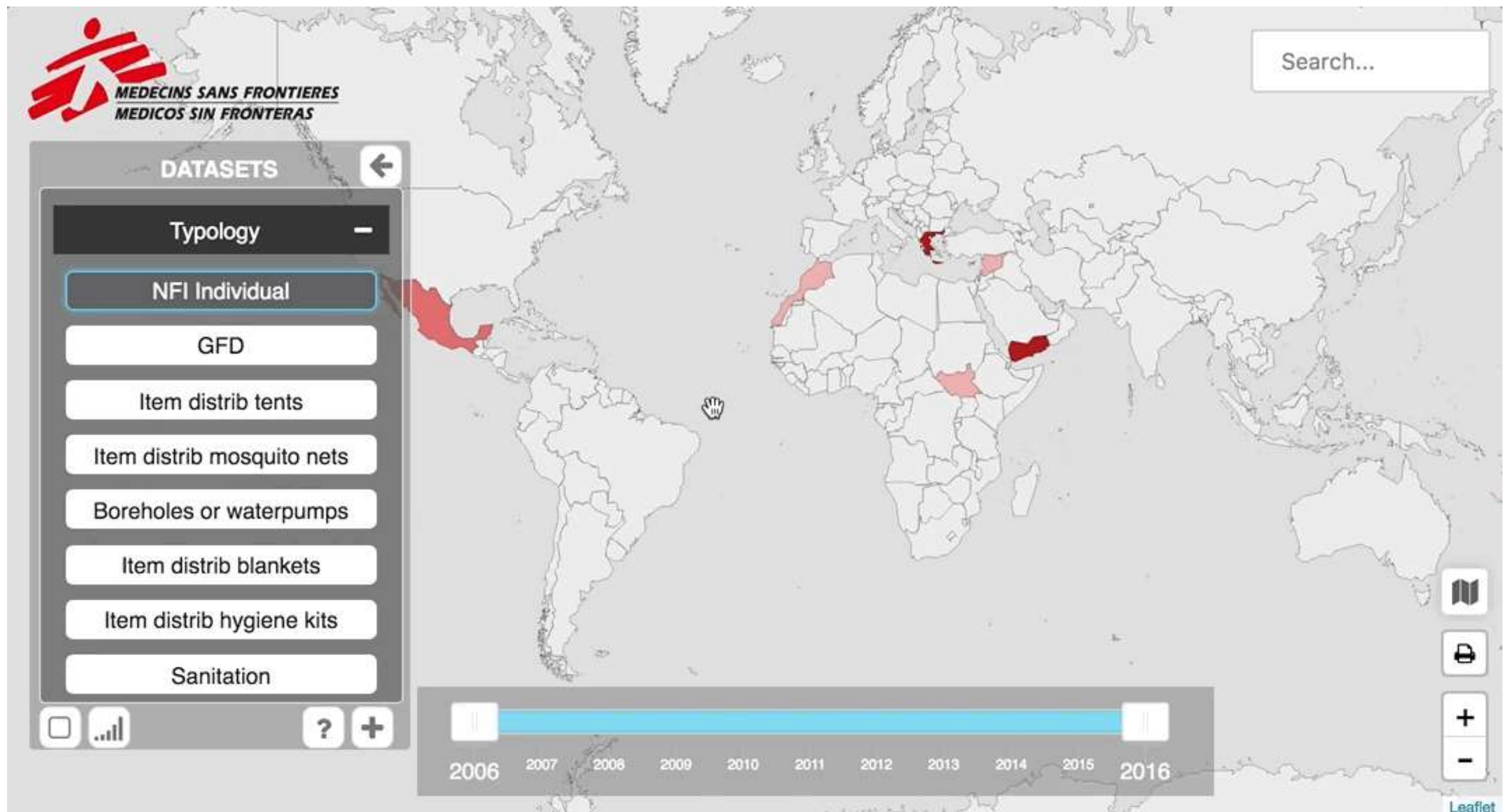


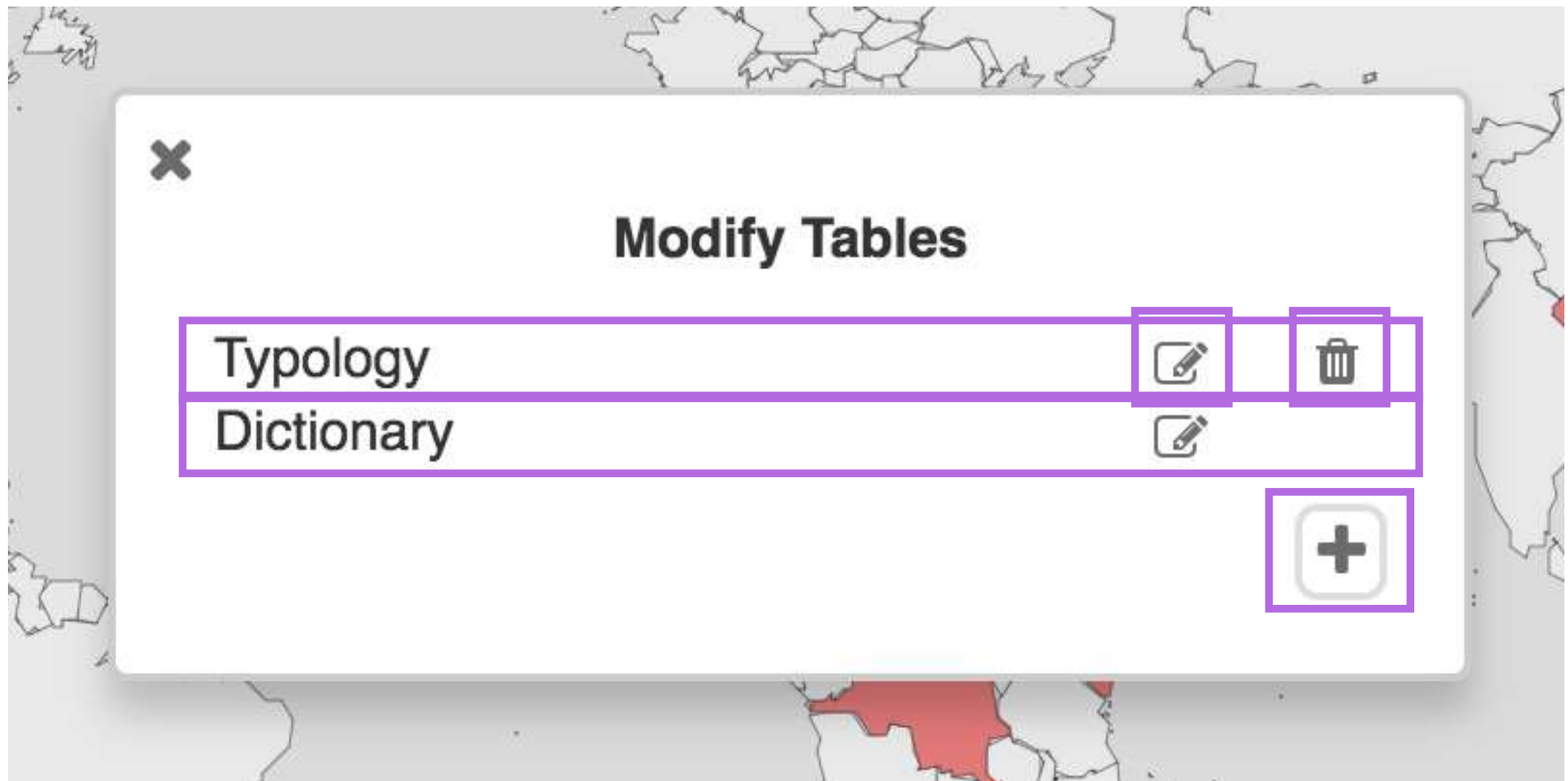
Gráficos






Gestión de datos











Modify Tables

Typology

Dictionary







Enter a name for the new table:

Choose file

tester.csv

Upload



IV. Conclusiones

Producto entregado

- Aplicación web instalada en servidor
- Base de datos
- Guía de ayuda
- Repositorio de código online

Logro de objetivos

- Visor para visualizar datos por año y tema
- Estructura adaptable a nuevos datos
- Curva baja de aprendizaje

Moltes Gràcies

