VER Y ENTENDER

La visualización de datos como herramienta para usar la información

Manuela Garretón Ricardo Vega





"El poder de la mente sin ayuda esta muy sobrevalorado. Sin ayuda externa, la memoria, el pensamiento y el razonamiento se ven restringidos.

Pero la inteligencia humana es altamente flexible y adaptable, soberbia inventando procedimientos y objetos que superan sus propios límites. La potencia real proviene de la invención de **ayudas externas** que refuerzan nuestras habilidades cognitivas... ¿Cómo hemos incrementado memoria, pensamiento y razonamiento?

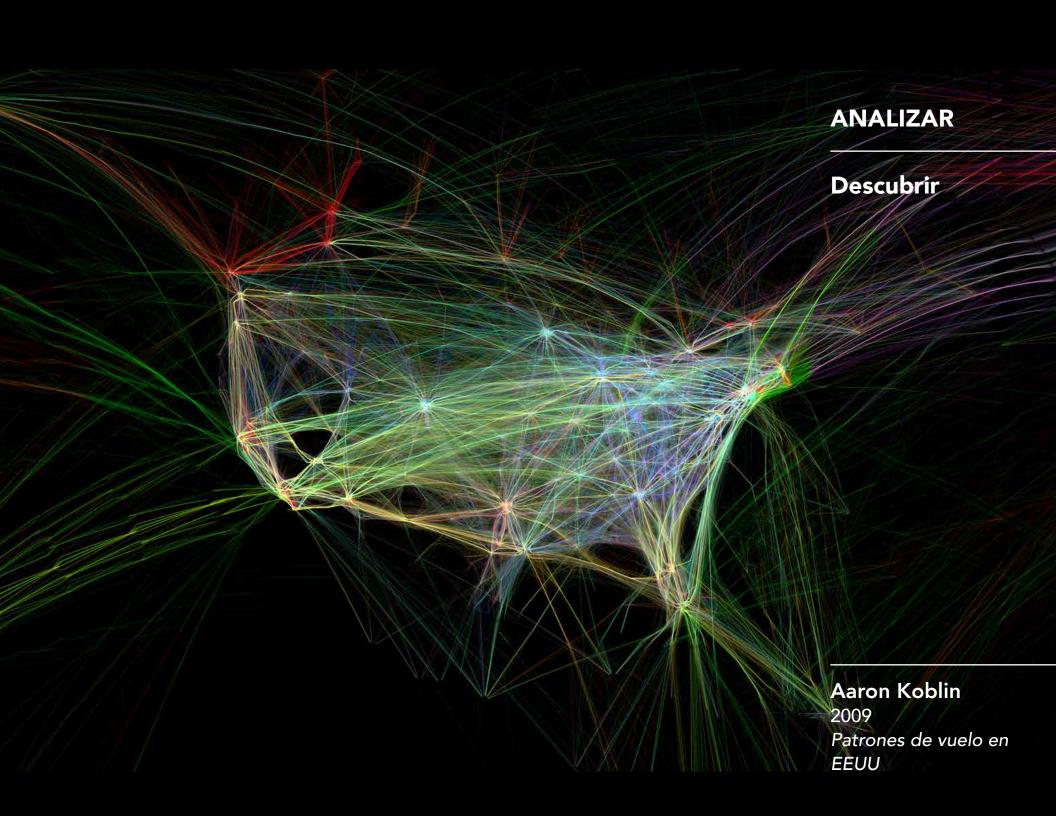
Mediante
la invención
de ayudas
externas: son
las cosas las que
nos hacen mas
inteligentes."

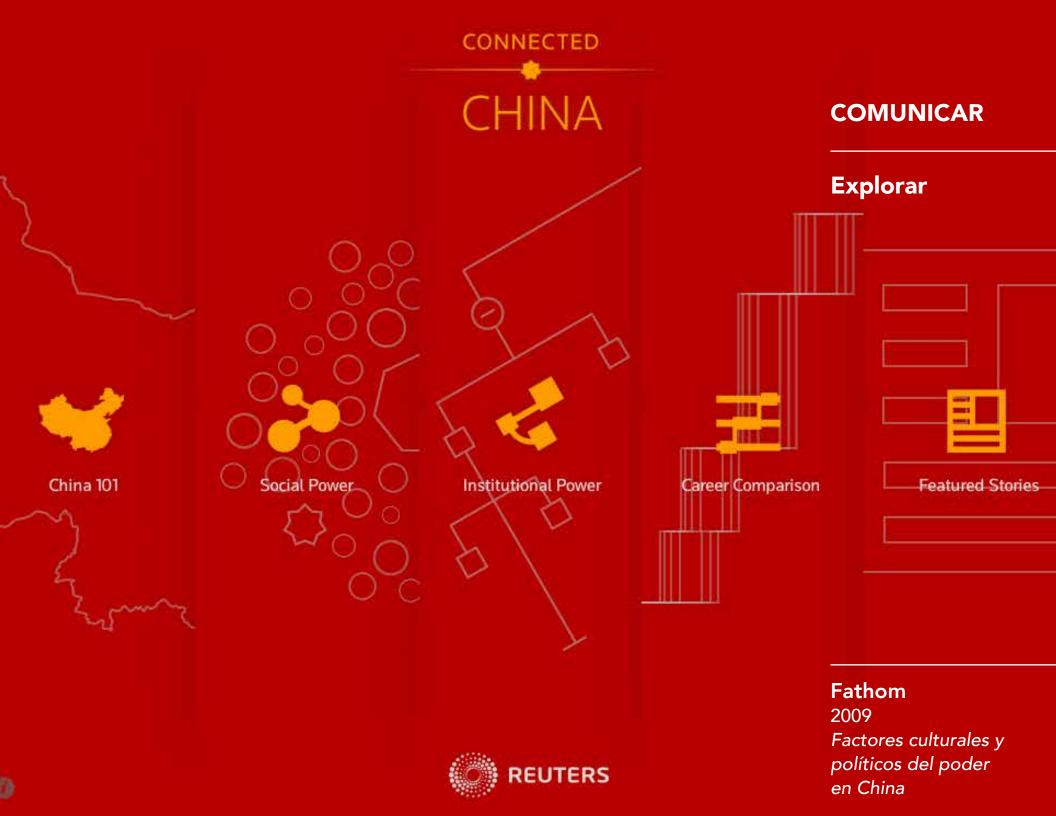
Donald Norman 1993 Things That Make us Smart

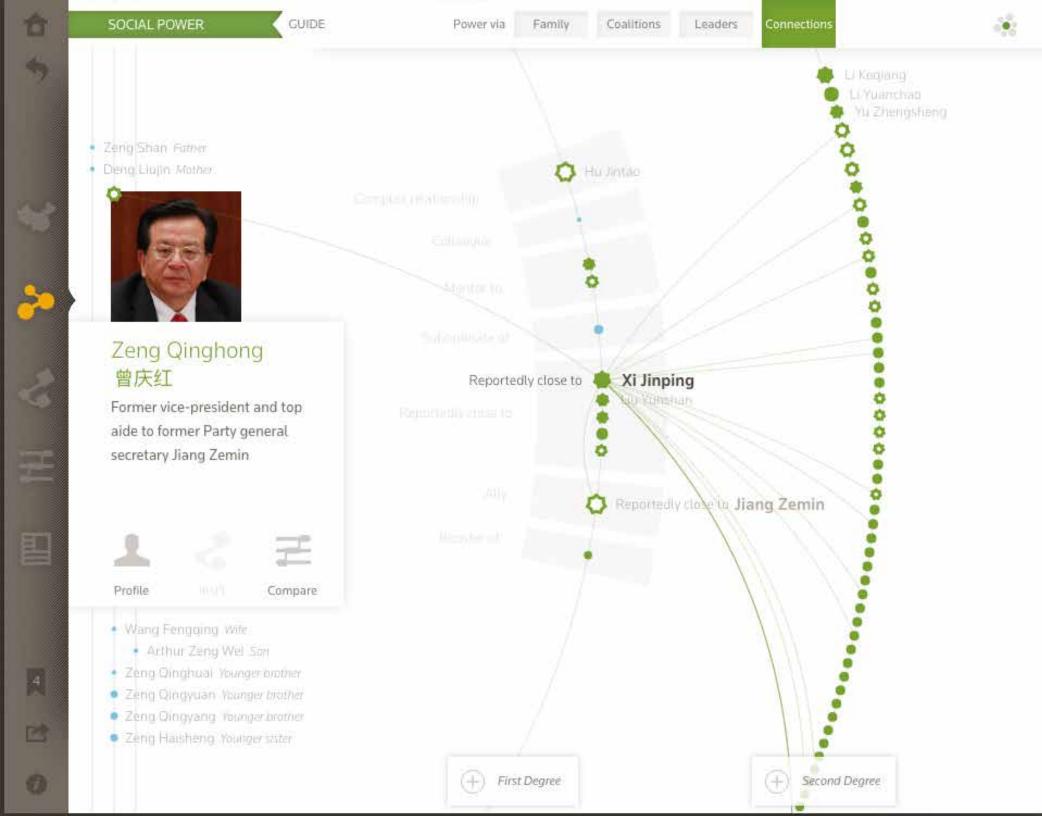
¿PARA QUÉ SIRVE LA VISUALIZACIÓN DE DATOS?

Analizar

Comunicar









Visualization ProcessBen Fry (USA)
Diagrama del autor.

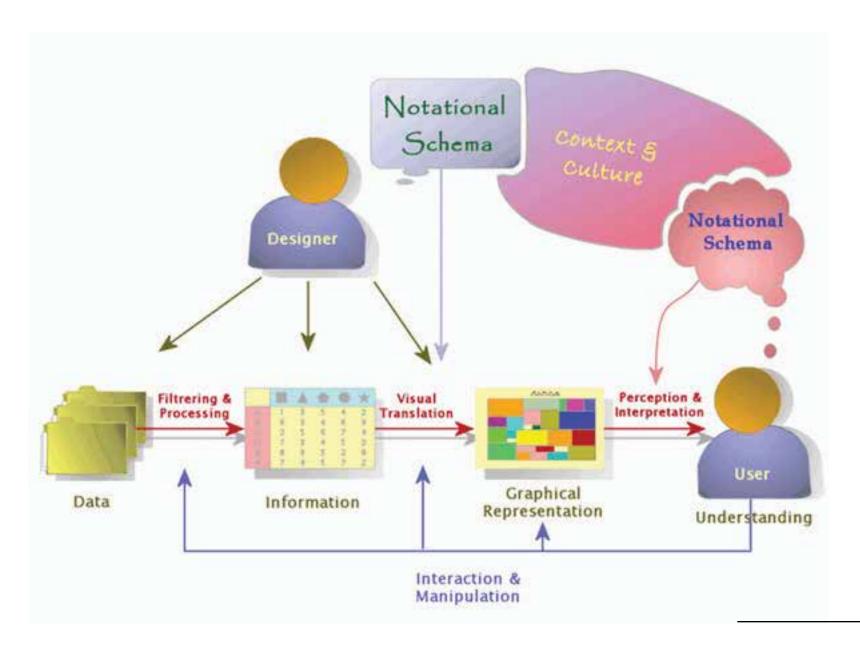
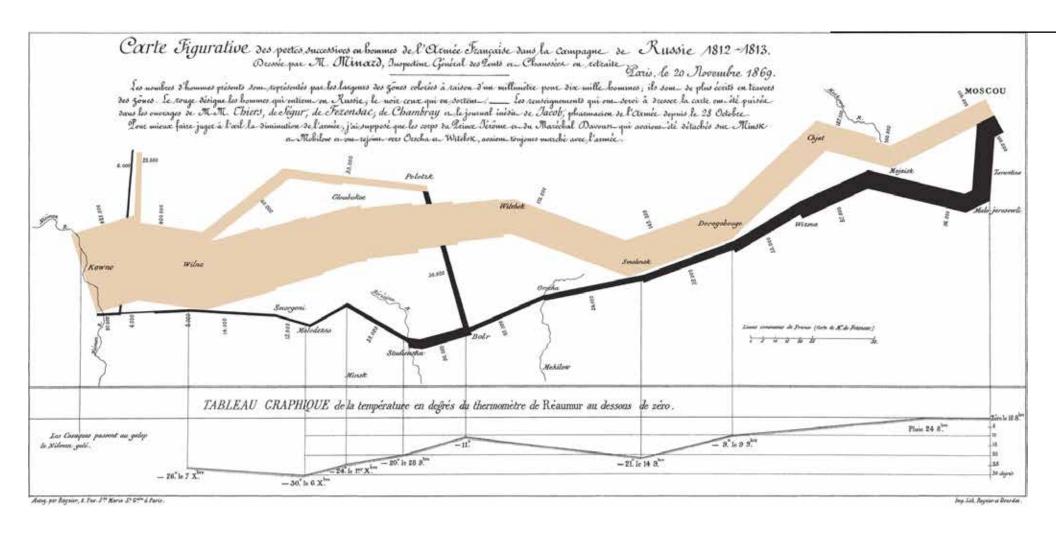


Diagrama Infovis Yuri Engelhardt & Juan Carlos Dürsteler Diagrama del autor.



Charles J. Minard. 1869 Campaña Rusa de Napoleón en 1812

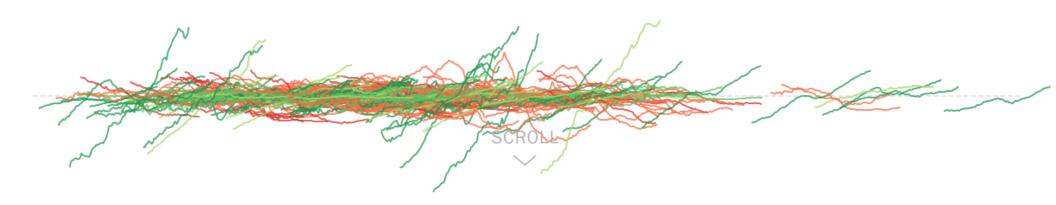
The Upshot

PERIODISMO DE DATOS

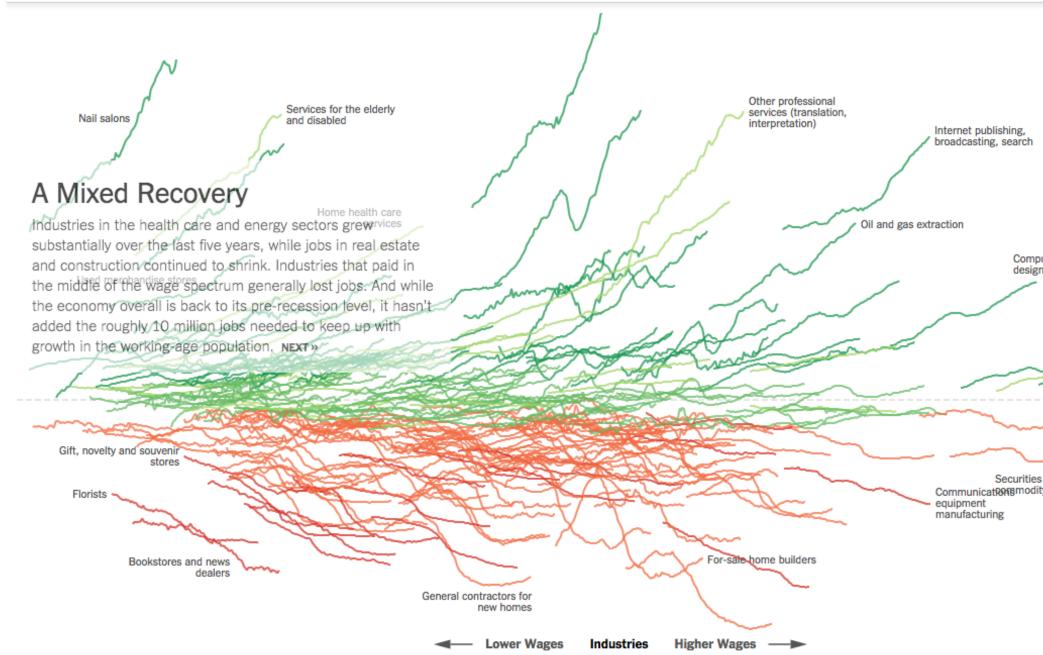
How the Recession Reshaped the Economy, in 255 Charts

By JEREMY ASHKENAS and ALICIA PARLAPIANO Updated: JUNE 6, 2014

Five years since the end of the Great Recession, the economy has finally regained the nine million jobs it lost. But not all industries recovered equally. Each line below shows how the number of jobs has changed for a particular industry over the past 10 years. Scroll down to see how the recession reshaped the nation's job market, industry by industry.



How the Recession Reshaped the Economy, 2014 **New York Times**





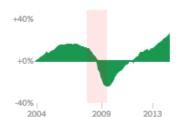


All Industries

Business

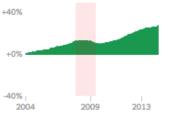
Temporary help services

Recovered and grown Current Jobs: 2,844,900 Average Salary: \$33,613



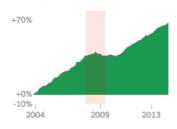
Managing offices

Recovered and grown Current Jobs: 2,042,700 Average Salary: \$74,714



Business, environmental and other consulting

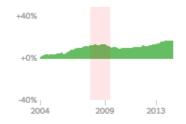
Recovered and grown Current Jobs: 1,212,200 Average Salary: \$78,936



Business support services

Recovered

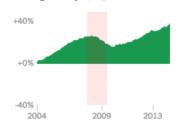
Current Jobs: 860,500 Average Salary: \$38,064



Warehousing and storage

Recovered and grown

Current Jobs: 735,500 Average Salary: \$38,438



Office administrative services

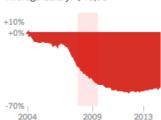
Recovered and grown Current Jobs: 460,100 Average Salary: \$69,576

+70%

Employer human resource services

Recession accelerated decline

Current Jobs: 397,100 Average Salary: \$40,934



Employment placement and executive search

Recovered

Current Jobs: 308,900 Average Salary: \$52,187



Commercial machinery repair and maintenance

Recovered

Current Jobs: 198,600 Average Salary: \$54,475

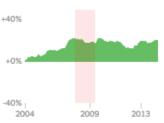


Facilities support services

Recovered

Jul. 2004 Jobs: 116,800

Average Salary: -



Offices of holding companies

2009

2013

Has not recovered

Current Jobs: 89,900 Average Salary: \$92,976



-10%

2004

On the Origin of Species: The Preservation of Favoured Traces

Ben Fry

We often think of scientific ideas, such as Darwin's theory of evolution, as fixed notions that are accepted as finished. In fact, Darwin's On the Origin of Species evolved over the course of several editions he wrote, edited, and updated during his lifetime. The first English edition was approximately 150,000 words and the sixth is a much larger 190,000 words. In the changes are refinements and shifts in ideas — whether increasing the weight of a statement, adding details, or even a change in the idea itself.

The second edition, for instance, adds a notable "by the Creator" to the closing paragraph, giving greater attribution to a higher power. In another example, the phrase "survival of the fittest" — usually considered central to the theory and often attributed to Darwin — instead came from British philosopher Herbert Spencer, and didn't appear until the fifth edition of the text. Using the six editions as a guide, we can see the unfolding and clarification of Darwin's ideas as he sought to further develop his theory during his lifetime.

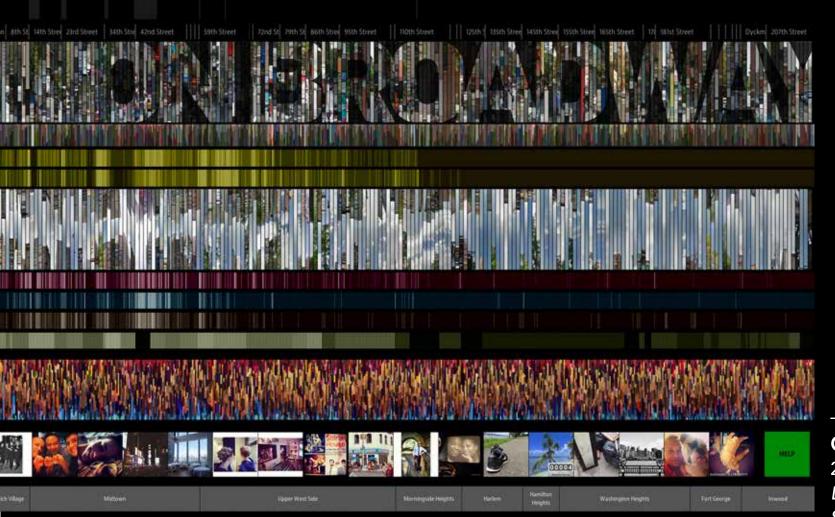
This project is made possible by the hard work of Dr. John van Wyhe, et al. who run The Complete Work of Charles Darwin Online. The text for each edition was sourced from their careful transcription of Darwin's books, and Dr. van Wyhe generously granted permission to use the text. This piece is a simpler version of a larger effort that looks at the changes between editions, and is intended as the first in a series looking at how the book evolved over time. Built with Processing. More about the project can be found here.



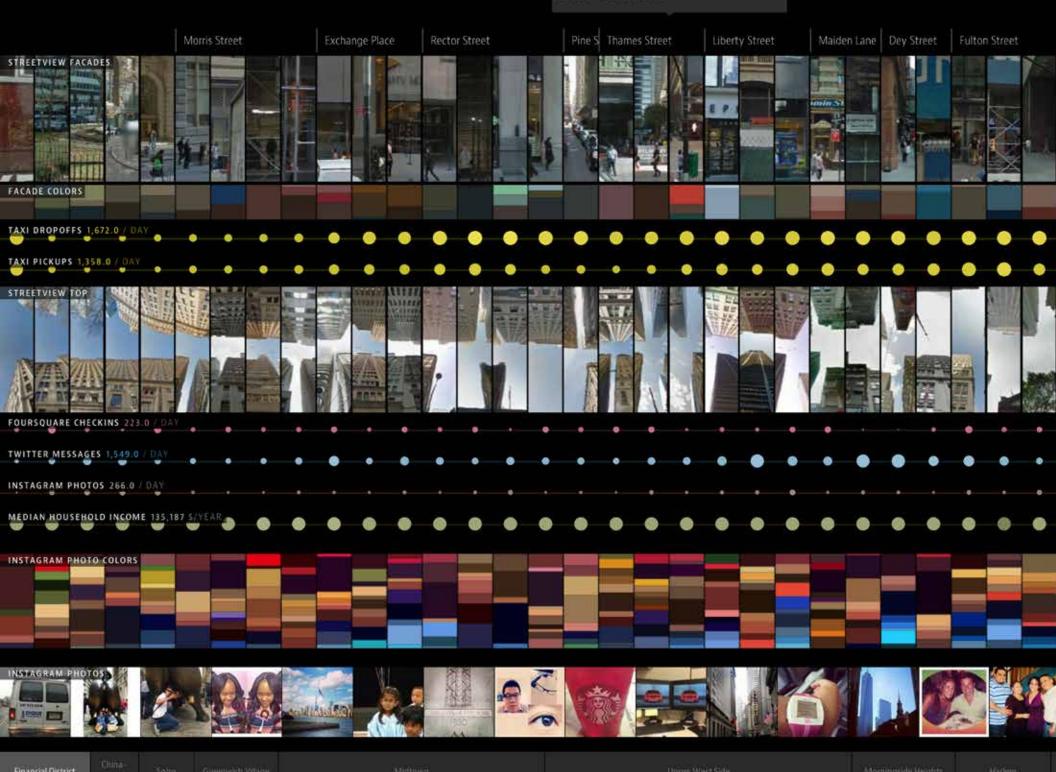
ANÁLISIS DE TEXTOS

On the Origin of Species 2009 Ben Fry

ANÁLISIS CULTURAL



On Broadway 2015 Lev Manovic, Moritz Stefaner, Daniel Goddemeyer









Una visualización de altos cargos del Poder Ejecutivo en Chile, sus conexiones con el mundo privado y sus conflictos de interés.

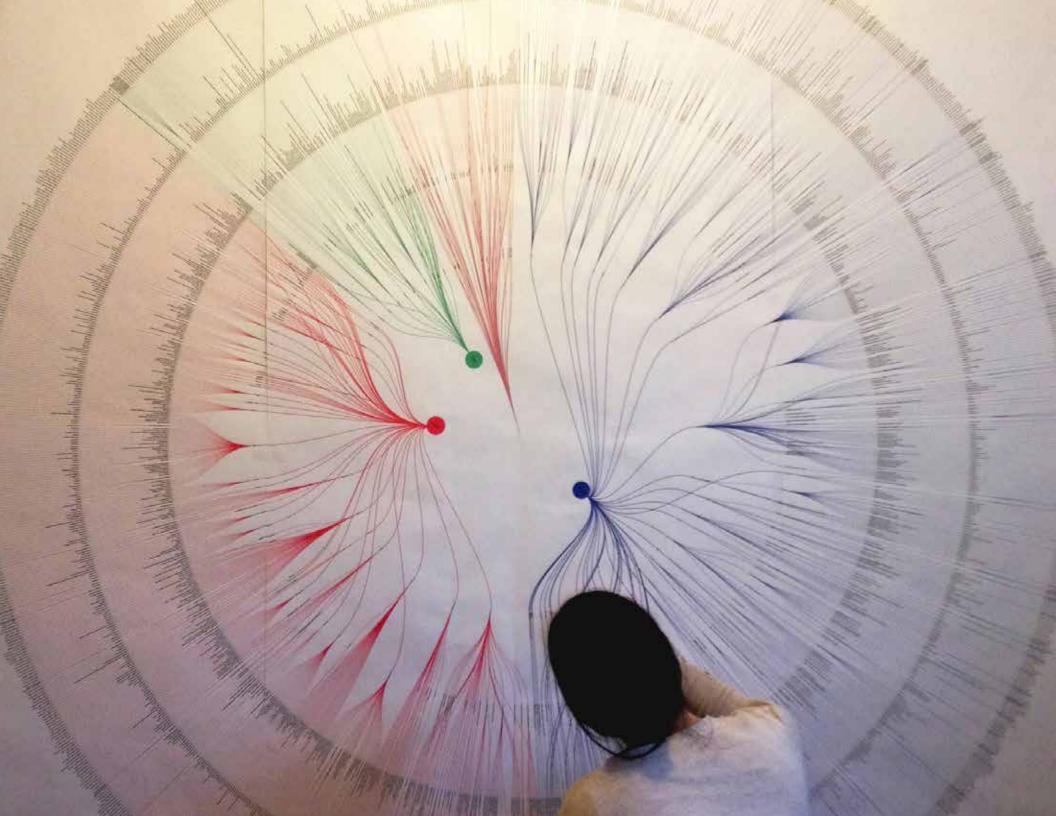




Desarrollado por

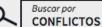








Buscar por palabra





Buscar por MINISTERIOS

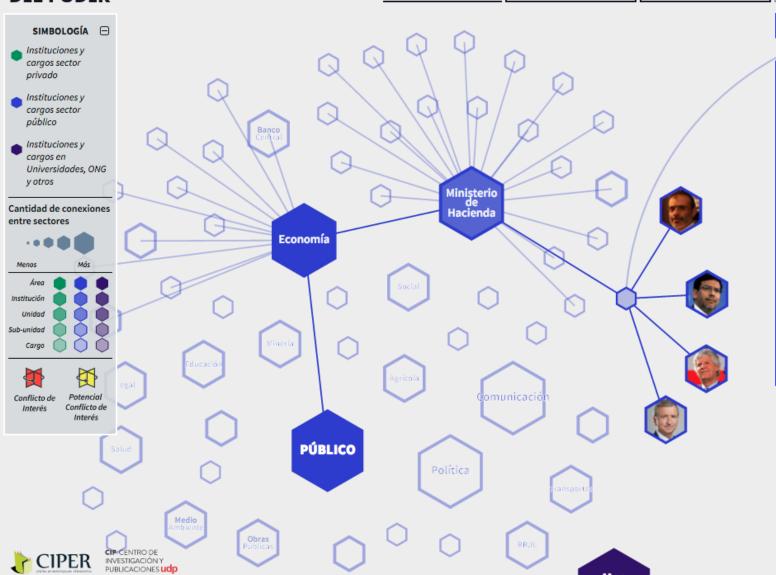












Ministro/a

INSTITUCIÓN

Ministerio de Hacienda

ÁREA

Economía

SECTOR

Público

conexiones con otros sectores en el área Economía

}

Privado

3 Ues-ONG-Otros

Personas en el cargo de Ministro/a

- Alberto Arenas de Mesa
- Felipe Larraín Bascuñán
- Nicolás Eyzaguirre Guzmán
- Rodrigo Valdés Pulido









Buscar por MINISTERIOS











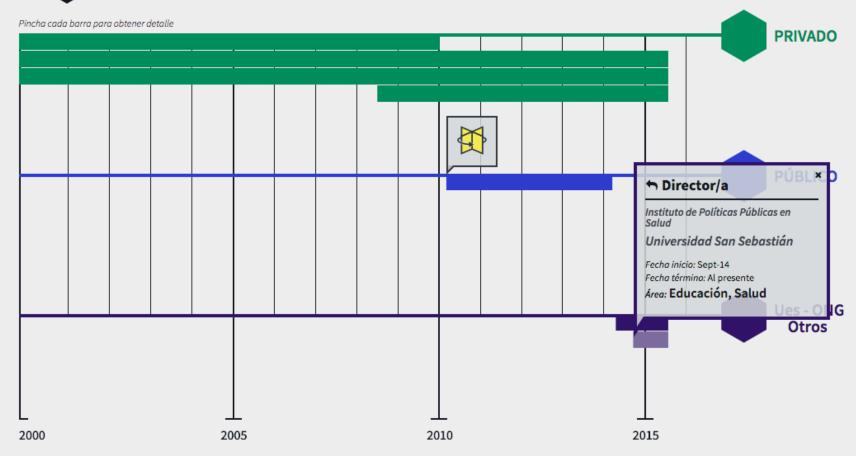




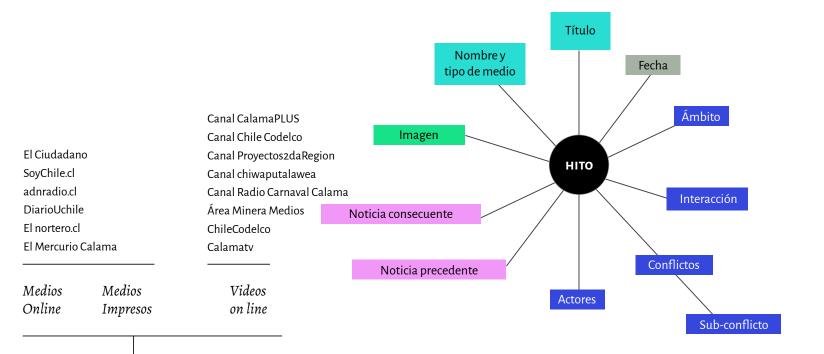




Jaime Mañalich Muxi







RECOPILACIÓN DE PRENSA

Sobre Calama Plus, considerando eventos previos (demandas y movimiento sociales) y posteriores (estado del proyecto, replicas, etc)

ANÁLIS Y CATEGORIZACIÓN

* Se articula una base de datos que pueda, operativamente servir como insumo para mapear los antecedentes en una representación visual.

Modelo cuarteto de interpretación:

Actores Interacciones
Conflictos Ámbitos

Fecha

Descripciones

Categorías

Imagen

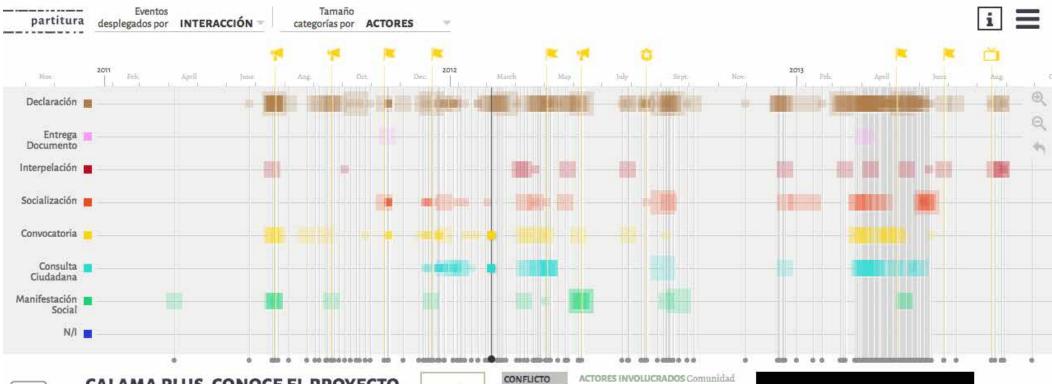
Links

PARTITURA

visualización interactiva / temporal sobre Calama Plus

- * Partitura como espacio de interpretación.
- * Noticias como ventanas a un proceso vivo.
- * Visualización del ritmo, intensidades y texturas controversia

2016





CALAMA PLUS. CONOCE EL PROYECTO CALAMA PLUS

14 Feb

N/I

ACTORES INVOLUCRADOS Comunida Calama

Canal Chile Codelco



Documental "La

Clausura del Desierto" en Calama PLUS Spot que invita a los calameños a participar de Calama PLUS

+ Mensajes recogidos de la gente: que sea limpio, que hayan más árboles, más turístico, más agua, que no boten basura, que haya un lugar donde jugar con los niños ÁMBITO

Social, (Medioambiente, Infraestructura Urbana

ACTORES Grupo Social



Calama PLUS y Gaby invitaron a la Primera Corrida por la Vida Sana

Canal Chile Codelco



La visualización de datos como herramienta para usar la información

REPRESENTAR

La visualización de

datos como

CONSTRUIR

herramienta para

usar la información

COMUNICAR

GRACIAS!

(y preguntas?)

Manuela Garretón diatomea.co @manuelagi

Ricardo Vega ricardov.cl @ricardov_cl

