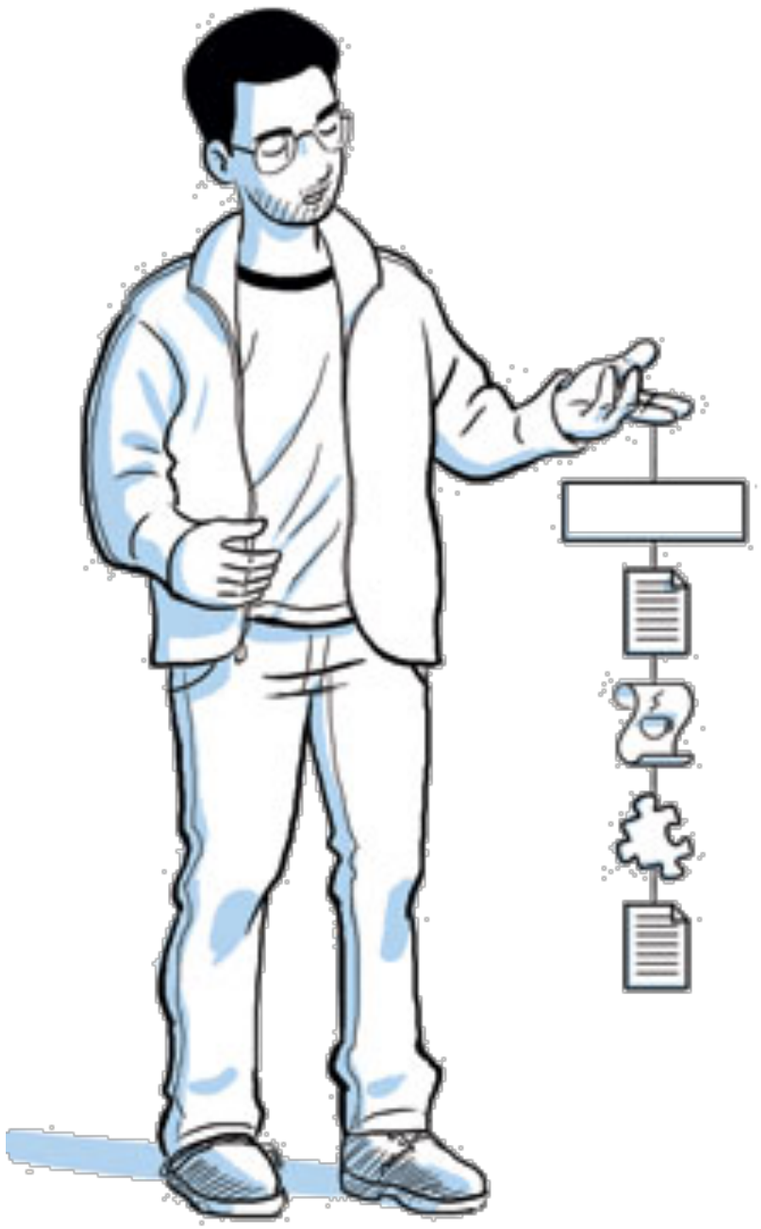


AI in Asia (Seoul)

TH Schee
Open Knowledge Taiwan

@ Korea University Law School

Japan

Slovenia

- Open Knowledge Taiwan
- Mayoral Advisor on Smart Cities and Economic development (Taipei)
- OD Committee members, Ministry of the Interiors (TW)
- Member, New Frontier Foundation (TW)

移 Mobile (2003)

動

Motor / Eurasia (2004)

想 Motor / Network (2006)

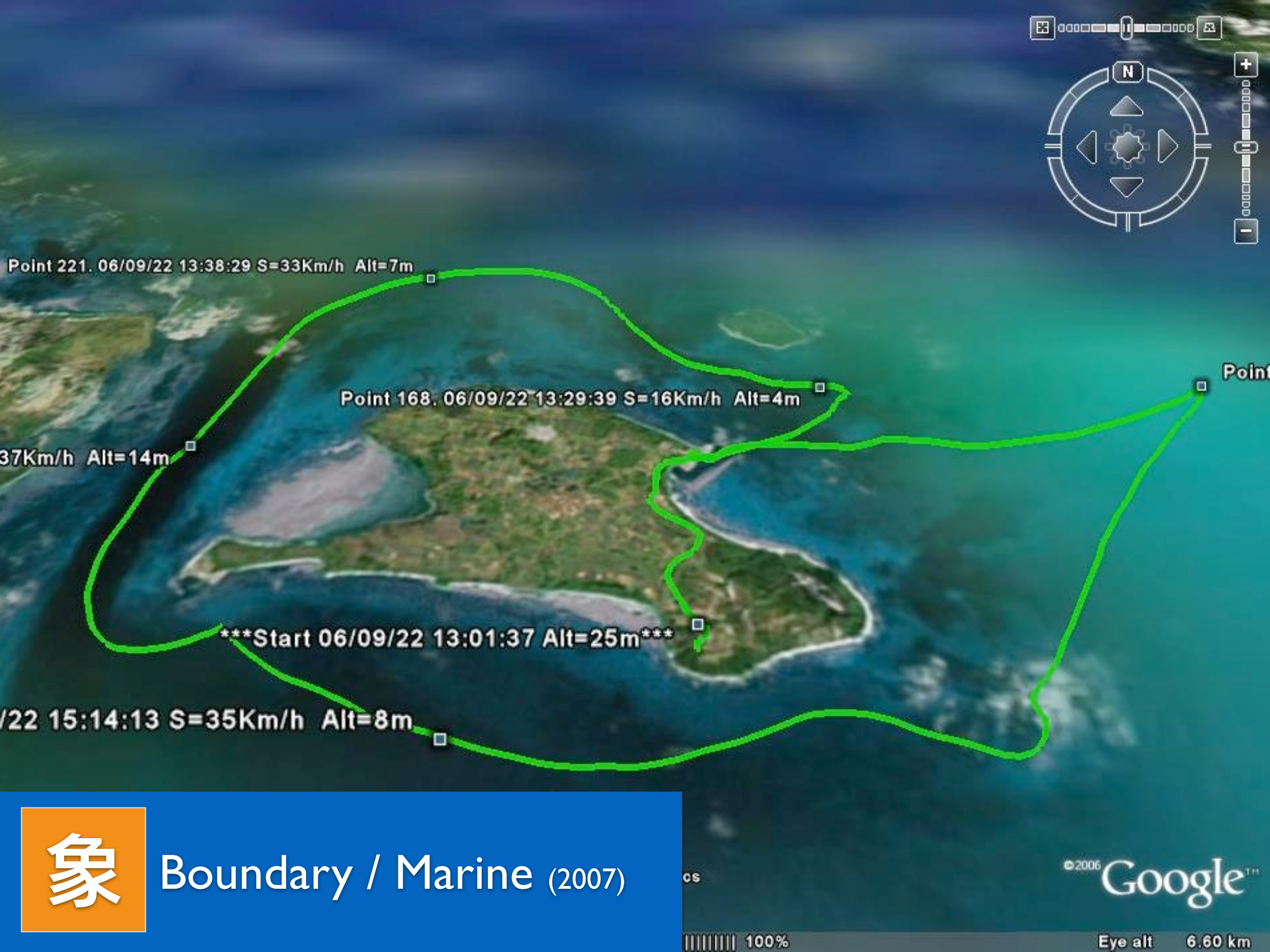
9,000+ km
100 days

TerraMetrics

©2006 Goo

Streaming ||||||||| 100%

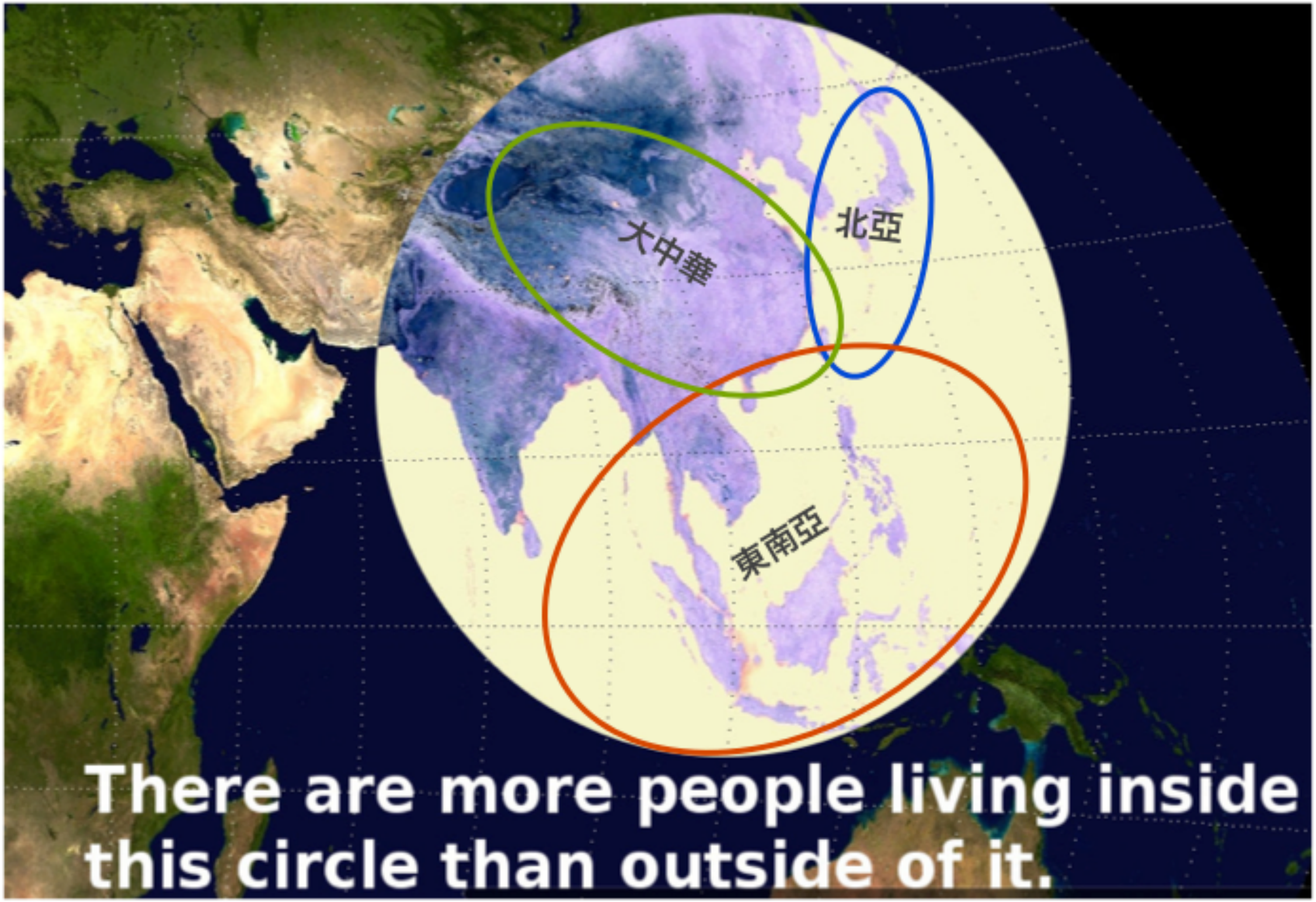
Eye alt



象 Boundary / Marine (2007)

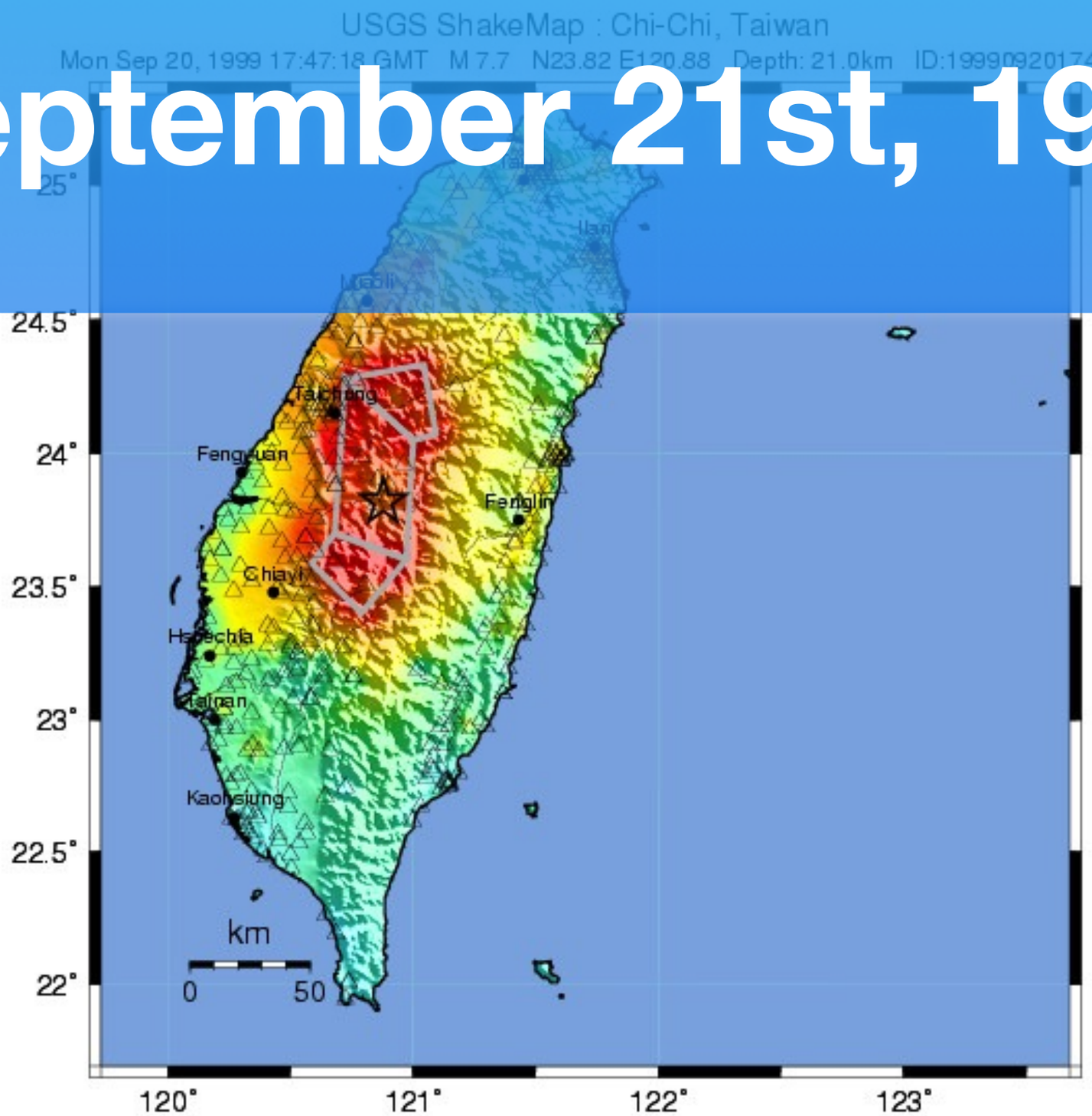
web20
EXPO
コンファレンス
CONFERENCE

D-Link
Skipjack



原始圖片 http://www.reddit.com/r/MapPorn/comments/1dsssf/there_are_more_people_living_inside_this_circle/

September 21st, 1999



Map Version 1.1 Processed Sat Nov 8, 2008 08:25:56 PM MST

PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	none	none	none	Very light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy
PEAK ACC.(%g)	*<.17*	*.17-1.4*	*1.4-3.9*	*3.9-9.2*	*9.2-18*	18-34	34-65	65-124	>124
PEAK VEL.(cm/s)	<0.1	0.1-1.1	1.1-3.4	3.4-8.1	*8.1-16*	*16-31*	*31-60*	*60-116*	*>116*
INSTRUMENTAL INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+

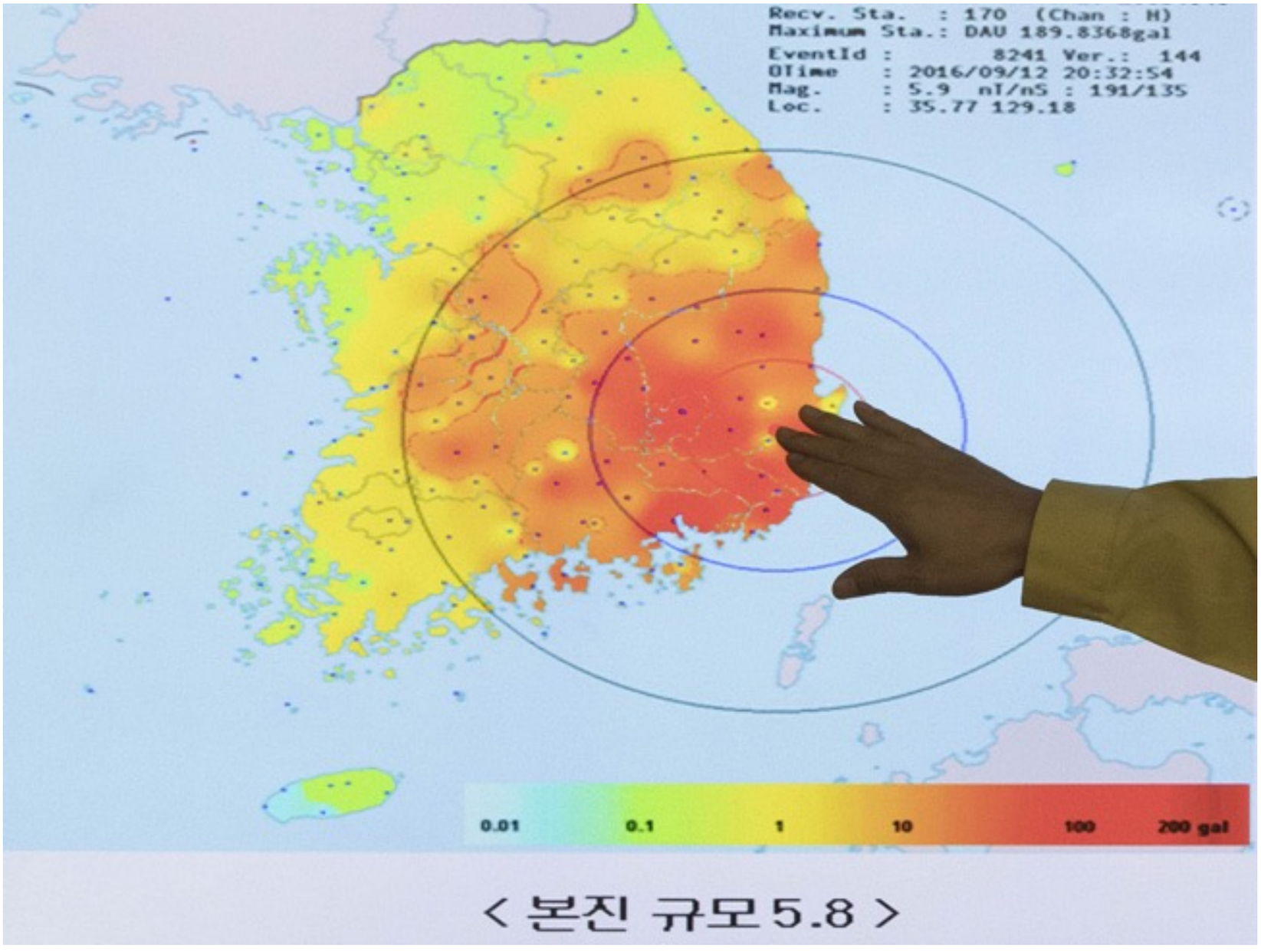
Image: Wikipedia

August 8th, 2009

Duration (hours)	Storm name and year	World record prior to Morakot		Morakot total	
		mm	in	mm	in
24	Denise (1966)[37]	1825	71.8	1623.5	63.9
48	Unnamed (1958)	2467	97.1	2361	93.0
72	Gamede (2007)	3929	154.6	2748	108.2
96	Gamede (2007)	4869	191.7		
Total	Hyacinthe (1980)	5678	223.5	2884	113.5

Image: Wikipedia

September 12nd, 2016



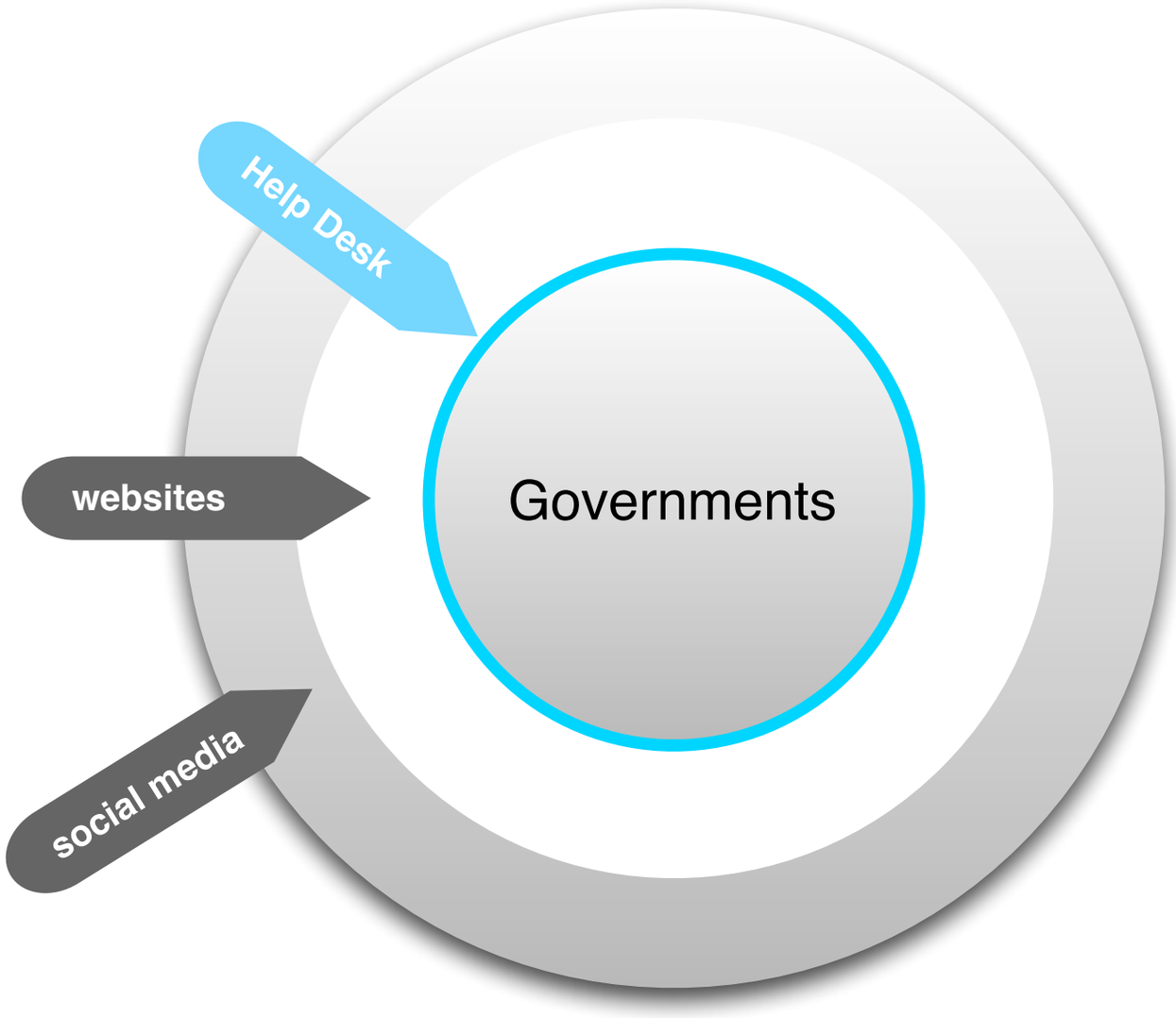
http://www.koreatimes.co.kr/www/news/nation/2016/09/116_214014.html

challenges of ai, data (open) and society

政府 (governments)

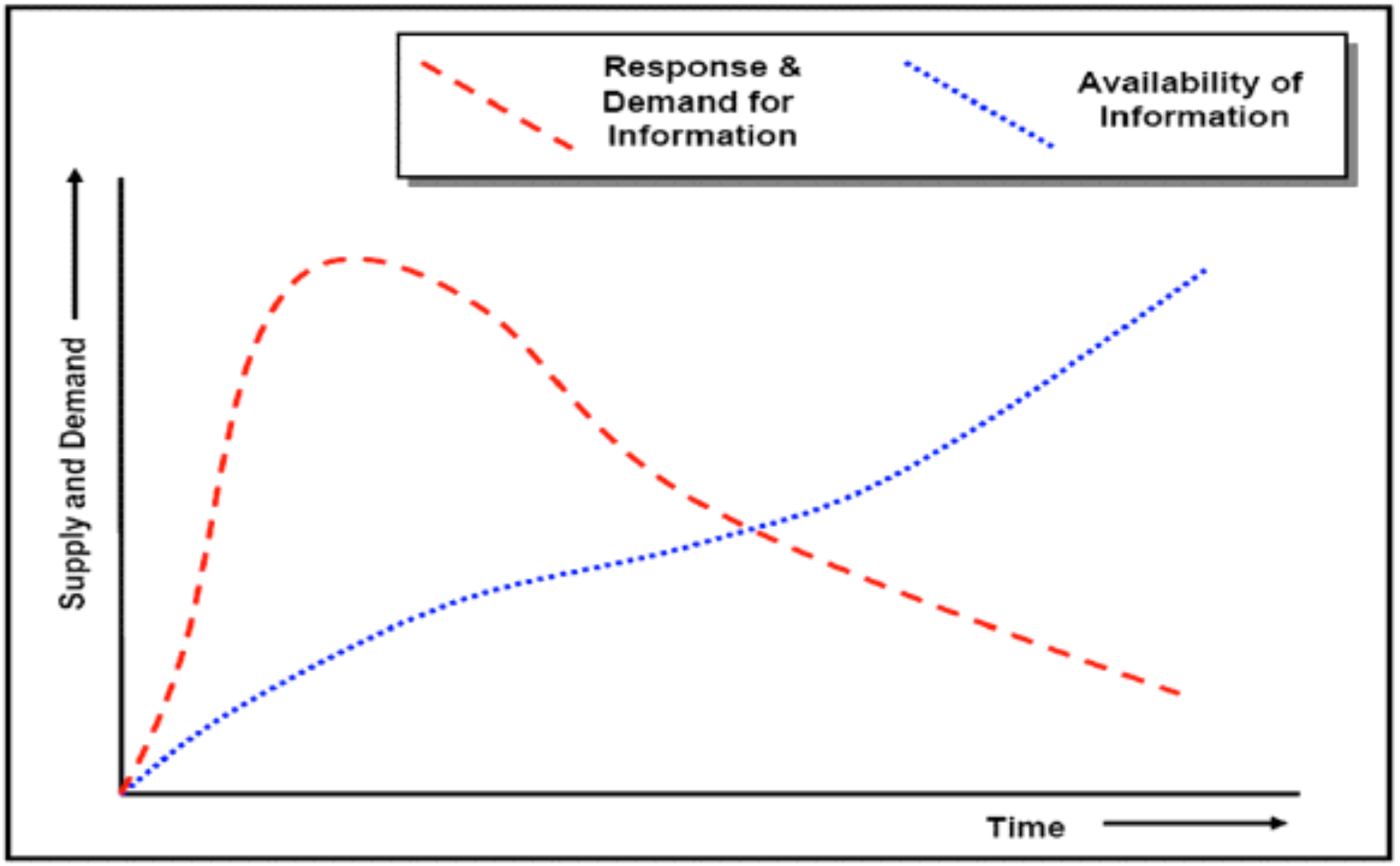
Current Status: Levels of Digital Engagement

Social media is dwarfed by much more poplar "Help Desk" and "Governor's Email" models across governments.



Availability of mass amount of data (big data) impacted whole ecosystem.

especially during disasters...



http://reliefweb.int/sites/reliefweb.int/files/reliefweb_pdf/briefingkit-7eb3053cb501fed93266e7812b84ffb6.pdf

Lack of government public communications strategy and media hype exacerbated public concerns and further delayed disaster relief.

Here comes the crowd.

- Aggregating disaster information from Twitter, Plurk, BBS and partnered websites

- Scrapping data from government websites, recycle and rebuild data that are sending out data feed for free

- Redistributing "correct" information through traditional and new media channels in highly refined format

- Dispatching trained volunteers to local and central EOC (emergency operation center), and literally live there

Formatted Tweets

- 08181949 [中央應變中心] [國防部]高雄縣空勤總隊須派出每日1架次直升機，載送水土保持局人員於09:30出發，空勘掌握現場情況，隨時通知下游居民應變避免人民生命財產損失。#Morakot #Kaohsiung #eoc

- 08181630 [台南]昨日（17日）台南縣議員廖西仁、社會處長蕭英成偕同社工員，至南化鄉南化淨水廠，與南化鄉玉山村村民、淨水廠廠方協調後續清理安置事宜。詳見：http://0rz.tw/rWWDk #taiwanfloods #Morakot #Tainan

- 08181123[中央應變中心][記者會]問：日前總統說會對相關失職人員進行懲處，請問身為指揮官的毛部長，您如何看待自己接下來的情況？#taiwanfloods #Morakot #eocpc

民間災情網路中心

應屏東縣政府請託，義務協助提供即時資訊的網路服務

因應芭瑪與米勒颱風，屏東縣災害應變中心已經進入一級開設並與協會連繫，希望災情網路中心能協助訊息發布，我們將協助各地應變中心訊息發布事宜。若有需要災情發布之應變中心單位請將連絡人與聯繫方式寄到台灣數位文化協會信箱「adct@adct.org.tw」。

各項補助

08151000[台南] 南縣府提供300個臨時工作名額投入救災行動，民眾可向各地就業服務站申請，詳情請洽南縣1999服務專線（市話直播1999）或勞工處6320310，相關網頁：http://0rz.tw/p90hK

08151000[台南]民視新聞台的南縣捐款帳戶有誤，請民眾捐款時多留意，或先到台南縣政府網頁確認捐款帳戶資訊，網址：http://www.tainan.gov.tw/ #taiwanfloods #Morakot #Tainan

08151000[台南]南縣住屋淹水救助即日起開始申請。受災民眾是以實際居住生活戶數計算，不限設籍，租屋戶亦可。淹水住戶填寫住戶淹水名冊後，經村里長確認後即可。有需要的民眾請詳見網頁：http://0rz.tw/TNvlw #taiwanfloods #Morakot #Tainan

08151430[台南] 台南縣政府提供莫拉克颱風風災各種救助及低利貸款，包括農林漁牧業現金救助、天然災害救助、紓困低率貸款等，請撥1999服務專線洽詢，或詳見網頁：http://0rz.tw/AdpAP #taiwanfloods #Morakot #Tainan

08161625南台灣有22所國中、小九月一日無法在原校開學，教育部表示將安置該校師生到鄰近學校或社區圖書館、活動中心等簡易教室就學，並且補助交通費、住宿費和營養午餐和教科書經費等。詳見：http://0rz.tw/p3TDr #taiwanfloods #Morakot

08161700交通部高公局為有效協助災區清理重建之交通，從11日起在國道1號斗南、新營、新市、岡山及國道3號古坑、白河、善化、田寮、竹田等共9處收費站實施暫停收費，預計免收費到20日，自21日零時起再恢復正常收費。詳見：http://0rz.tw/Mjn48 #taiwanfloods #Morakot

08161830中央健康保險署公布「莫拉克颱風受災之民眾全民健保就醫協助方案」，針對災區民眾或領有死亡與重傷之眷屬在門診、住院和健保費的優惠。沒有健保IC卡的災民，健保局也將免費換發一張新卡。詳見：http://0rz.tw/XmHjK #taiwanfloods #Morakot

08171230 [嘉義] 嘉義縣政府17日正式成立「嘉義縣莫拉克颱風重建諮詢服務中心」，提供災區民眾包括安置、組合屋、就學、稅金減免等各項服務，服務中心專線電話05-3621127，請民眾多多利用。詳見：http://0rz.tw/bHCSz #taiwanfloods #Morakot #Chiayi

08171430 [台南] 臺南縣各鄉鎮市戶政事務所提供免費申請戶籍謄本、國民身分

莫拉克颱風災後重建推動委員會

網站公告

中央災害應變中心

行政院莫拉克颱風救災專區

捐款資訊

台南相關資訊

高雄相關資訊

屏東相關資訊

資訊分頁

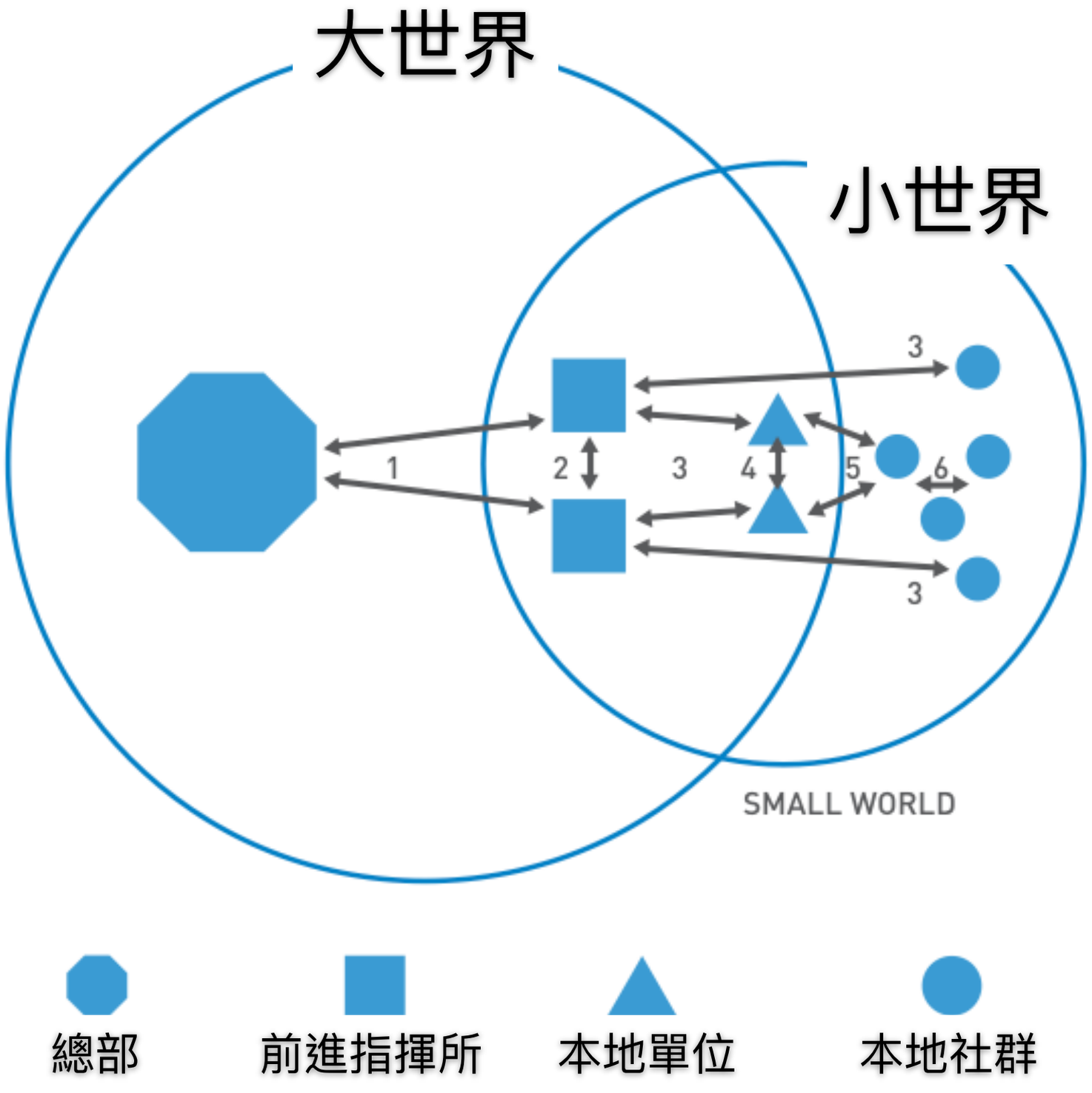
English Information

各項補助

關於我們

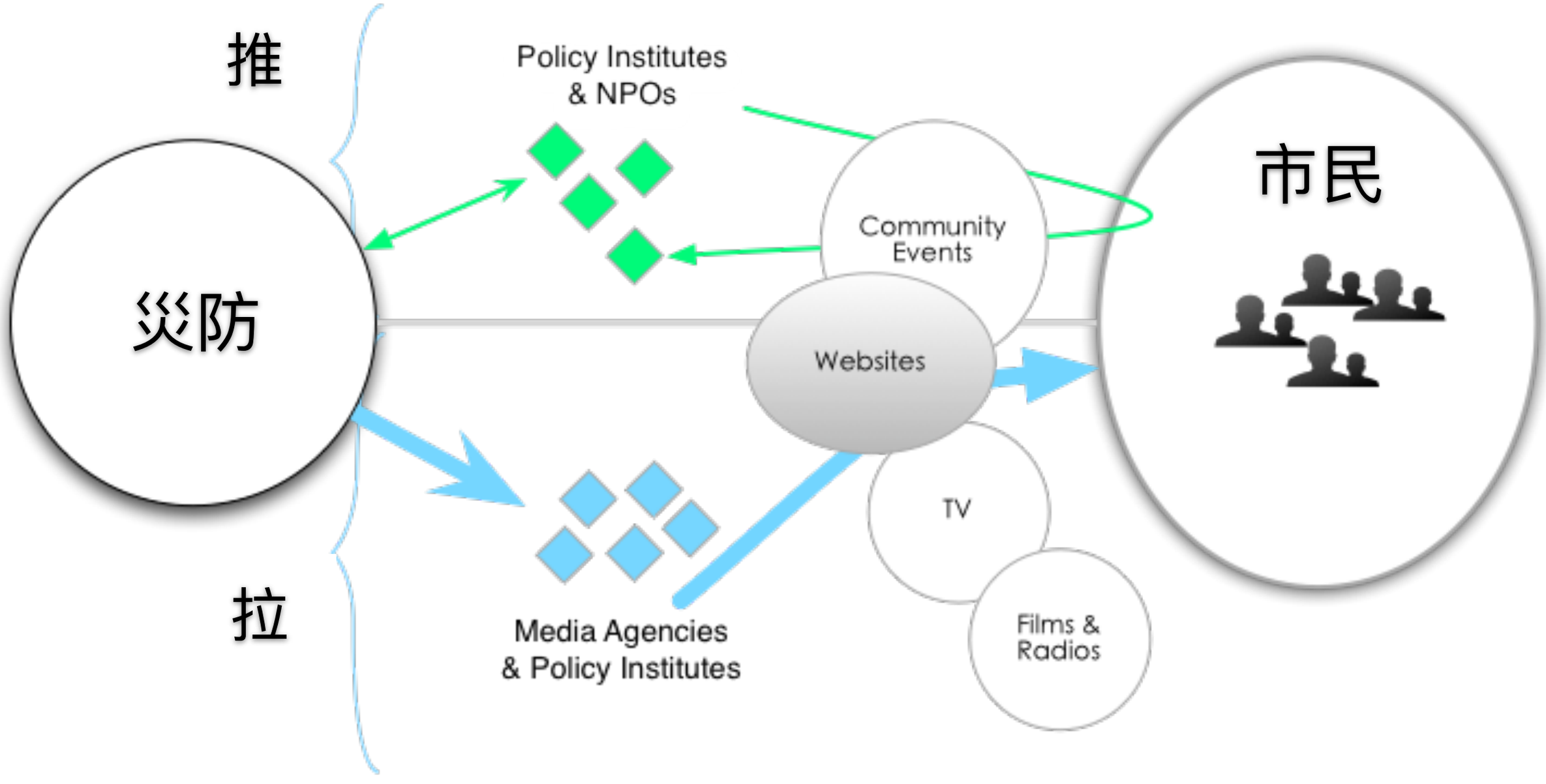
捐款資訊

FIGURE 1: The “big world” and “small world” conceptual framework

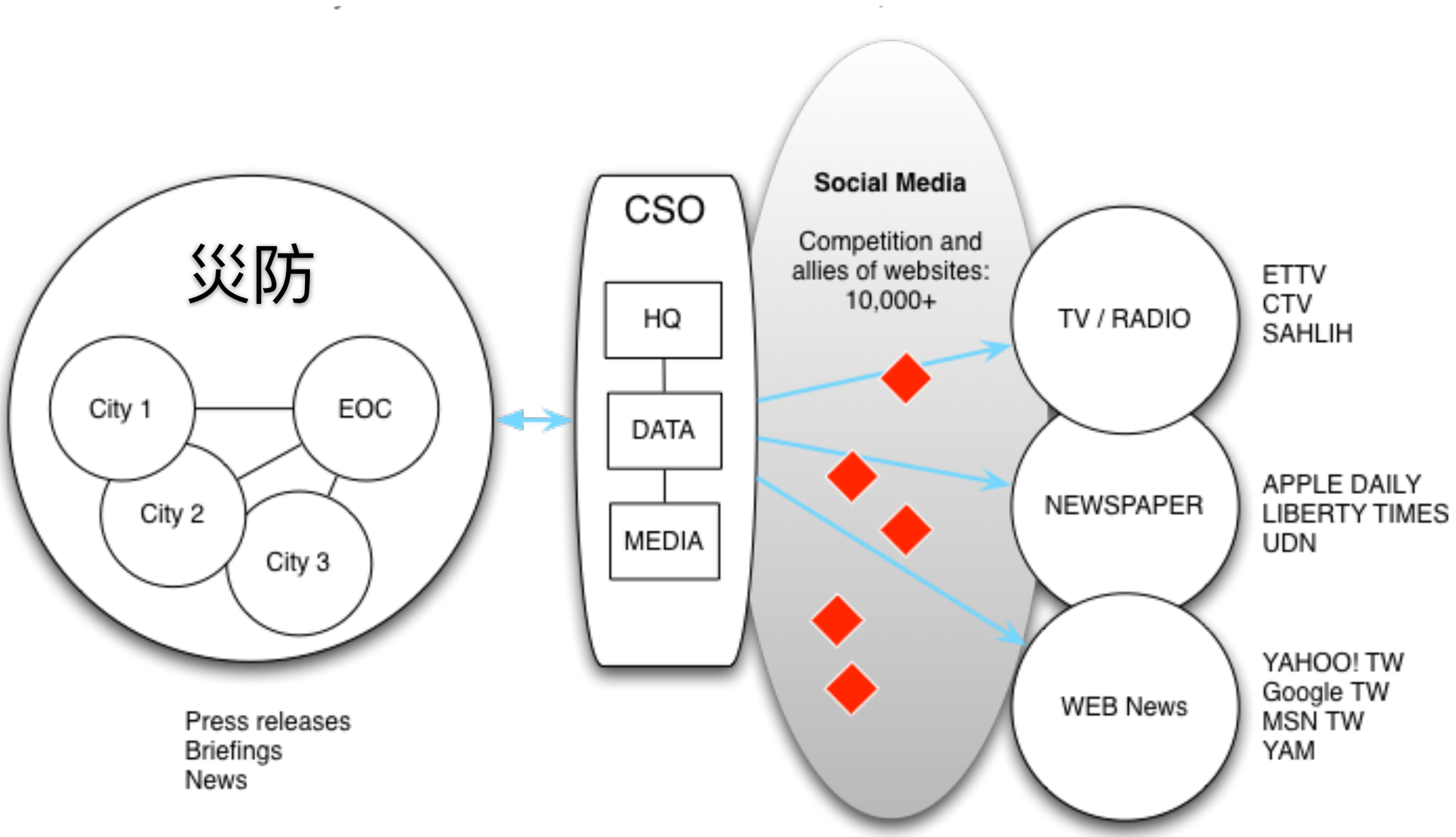


http://reliefweb.int/sites/reliefweb.int/files/reliefweb_pdf/briefingkit-7eb3053cb501fed93266e7812b84ffb6.pdf

訊息扶助模式 - 2009年之前的承平時期



訊息扶助模式 - 2009年莫拉克風災



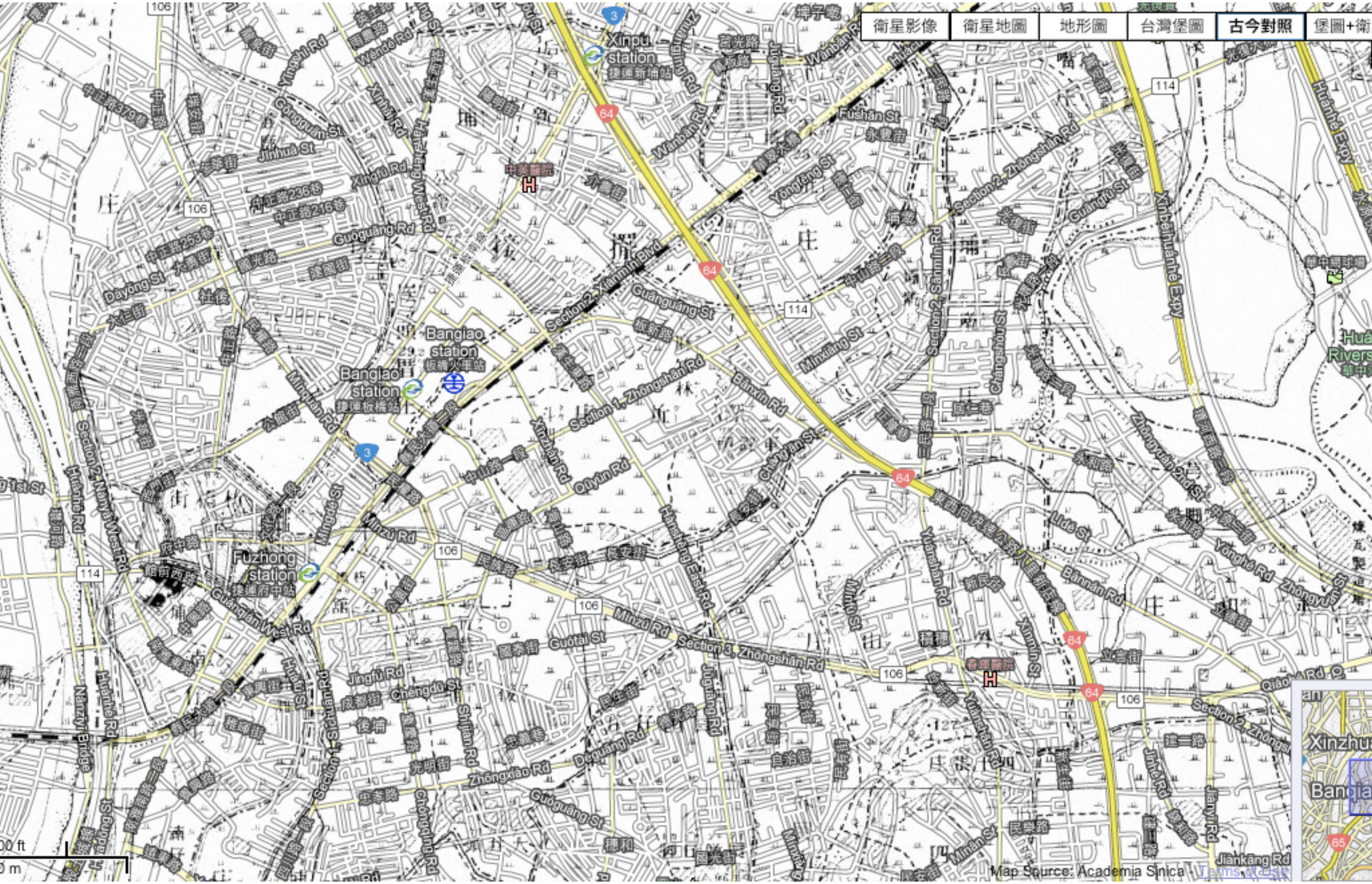
challenges of ai, data (open) and society

(urban infrastructure)

衛星影像 | 衛星地圖 | 地形圖 | **台灣堡圖** | 古今對照 | 堡圖+衛

Map Source: Academia Sinica - Terms of Use

http://gissrv5.sinica.edu.tw/GoogleApp/JM20K1904_1.htm



http://gissrv5.sinica.edu.tw/GoogleApp/JM20K1904_1.htm

FORMOSA ISLAND.—PREPARING TEA FOR THE AMERICAN MARKET AT TAM-SUI, NORTHERN FORMOSA.

http://www.taipics.com

1915

http://www.taipics.com

1950

http://www.taipics.com

1960

http://www.taipics.com

1970

http://www.taipics.com

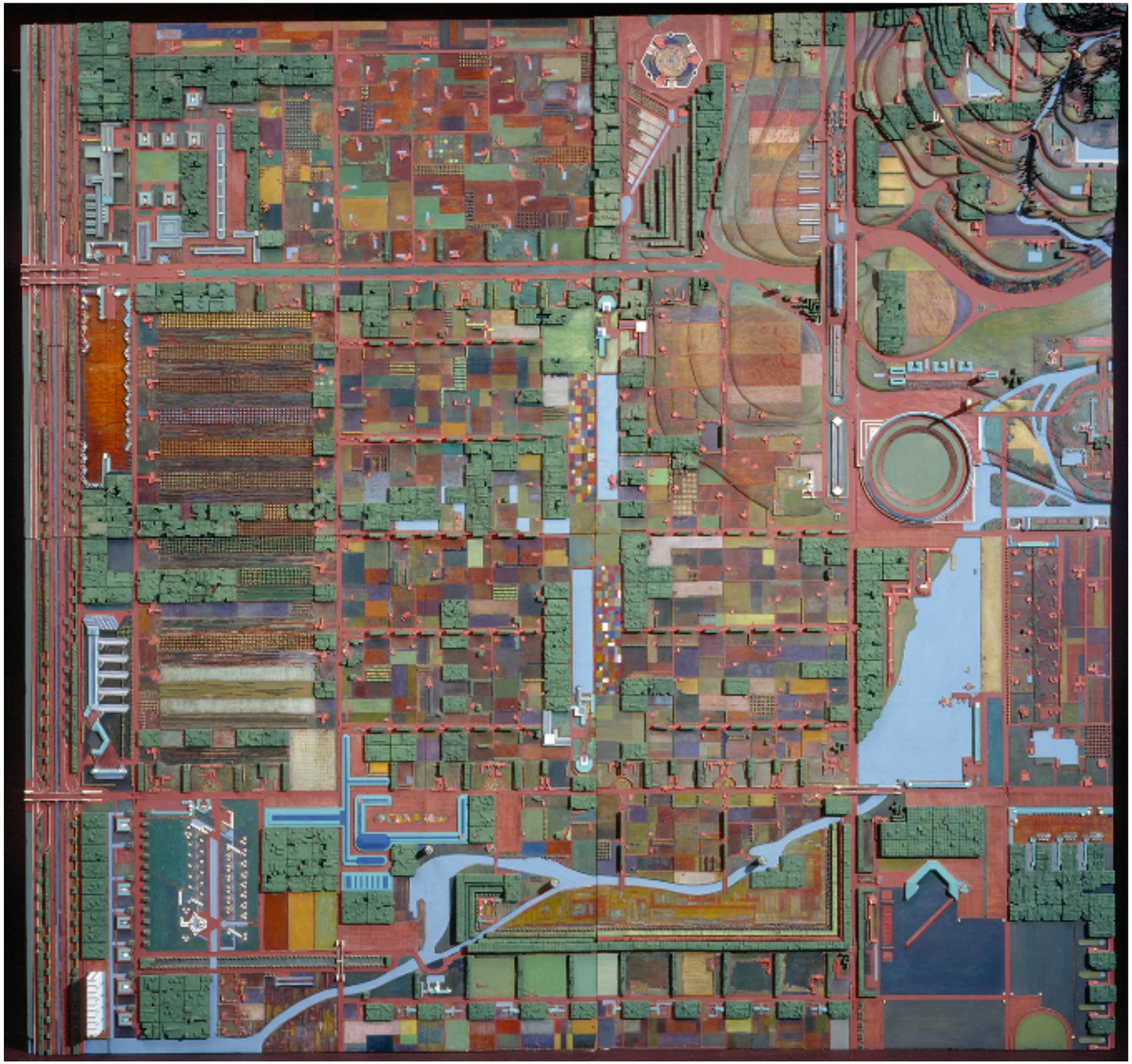
2009

2004

首都圏外郭放水路（春日部市）2006年6月7日撮影
撮影日：2006年6月7日　撮影者：Dddeco

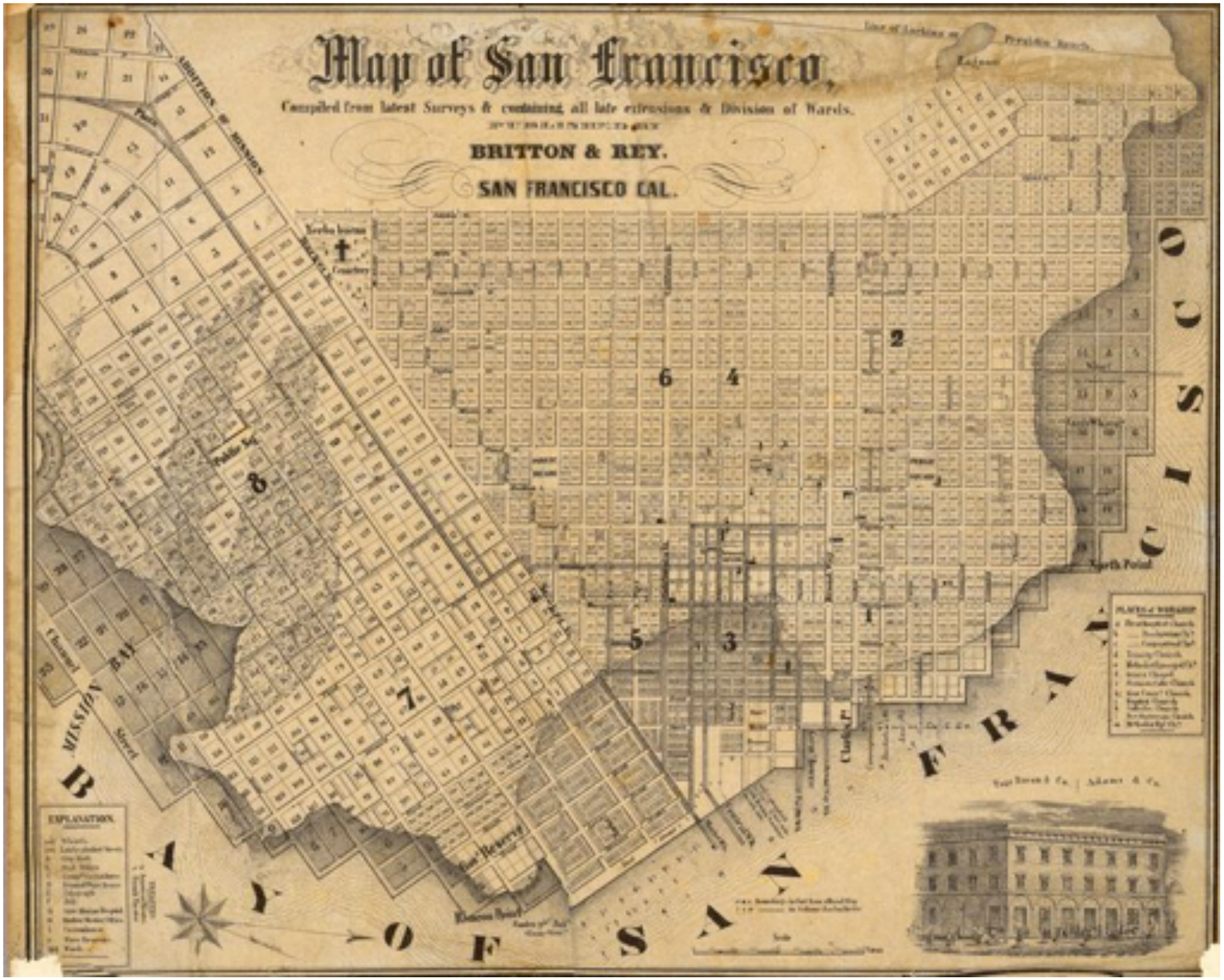
1970

http://www.taipics.com



Courtesy the Frank Lloyd Wright Foundation Archives

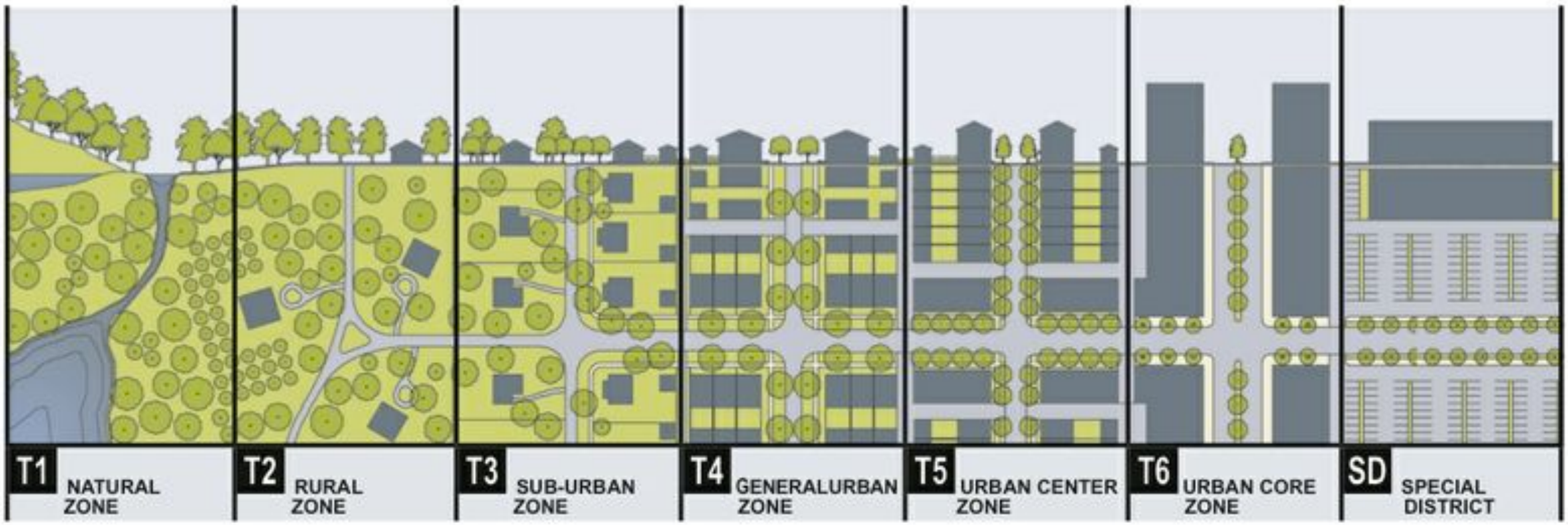
Circuit board?



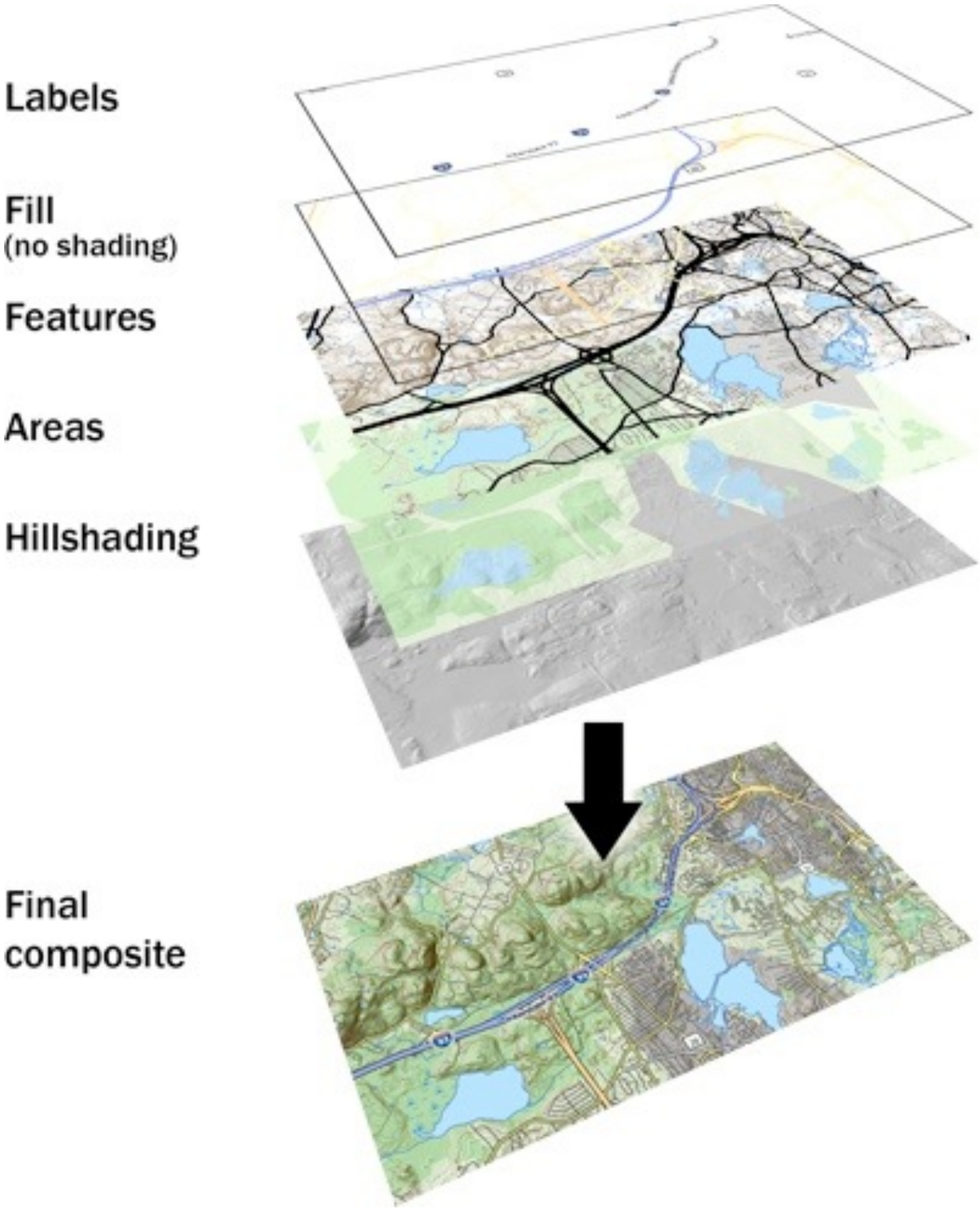
Courtsey David Rumsey Map Collection

Chess board?

Zones?



Courtesy Andres Duany

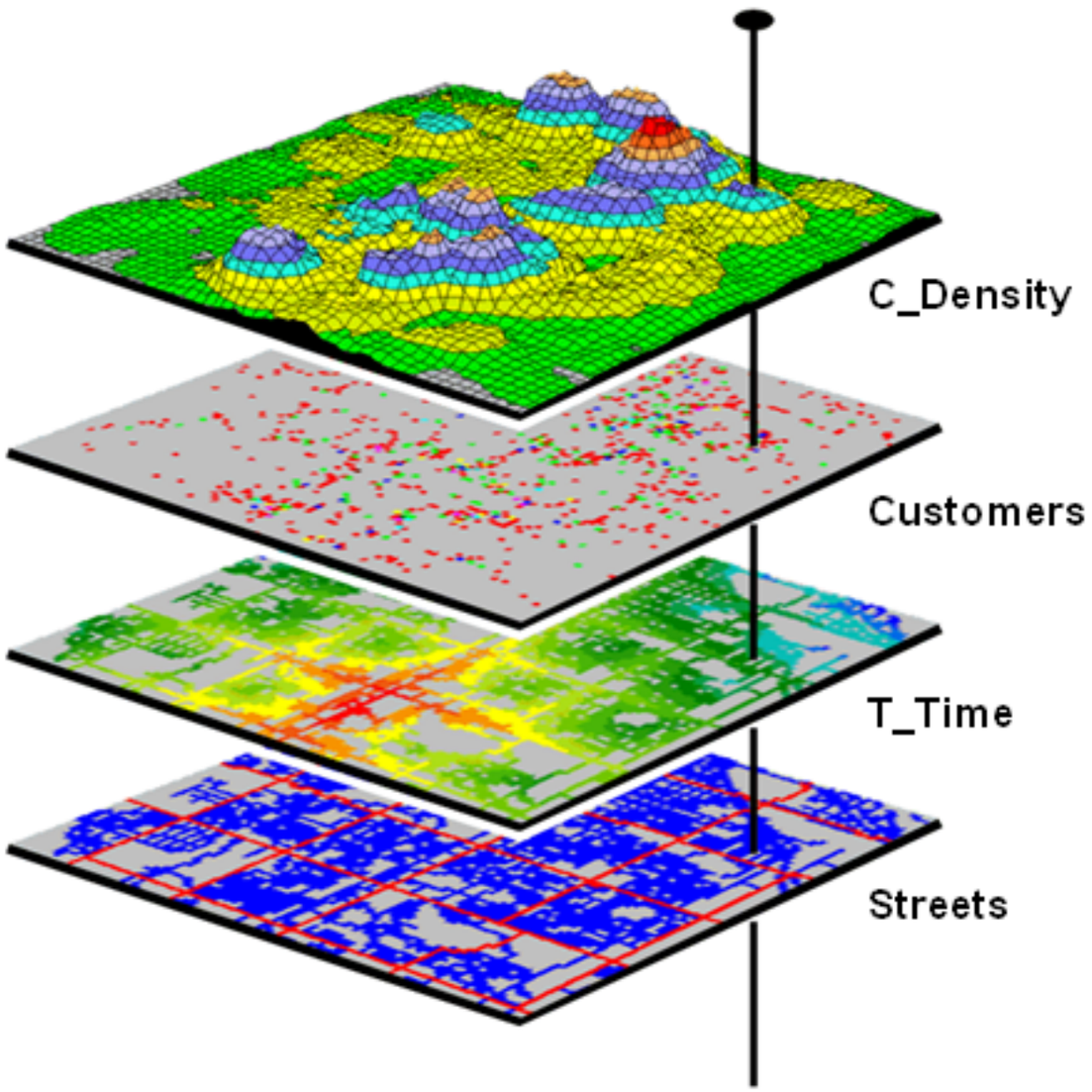


Layers and layers and layers of data...

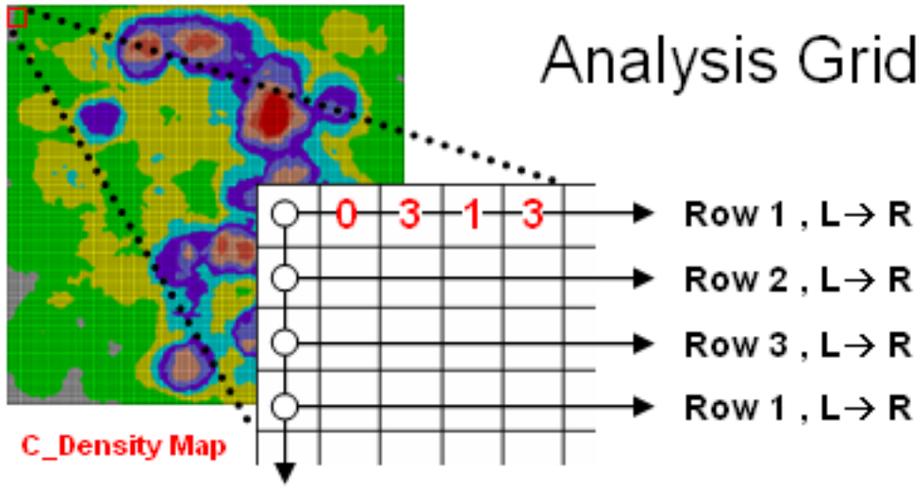
http://wiki.openstreetmap.org/wiki/TopOSM/Details

Map Stack

set of geo-registered grid layers



Analysis Grid

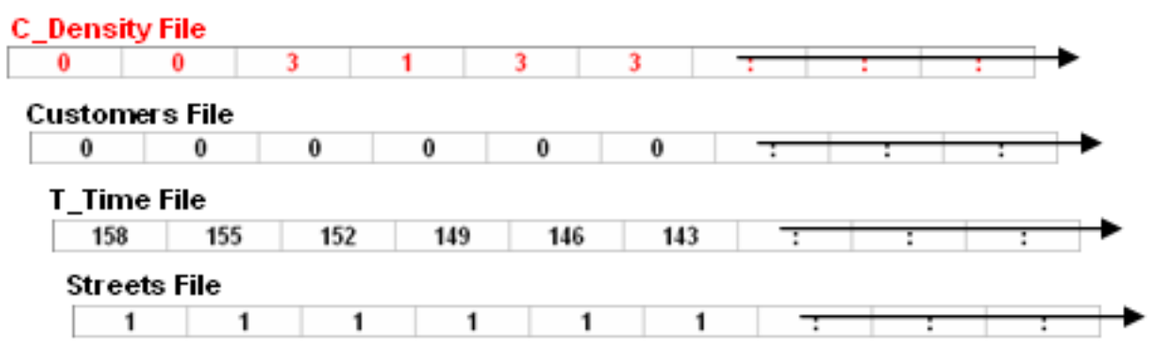


...numbers are organized by rows from left to right

...stored as "fields" in a table (.rgs)

	Column	Row	C_Density	Customers	T_Time	Streets	others...
2	1	1	0	0	158	1	:
3	2	1	0	0	155	1	:
4	3	1	3	0	152	1	:
5	4	1	1	0	149	1	:
6	5	1	3	0	146	1	:
7	6	1	3	0	143	1	:
8	:	:	:	:	:	:	:
9	:	:	:	:	:	:	:
10	:	:	:	:	:	:	:

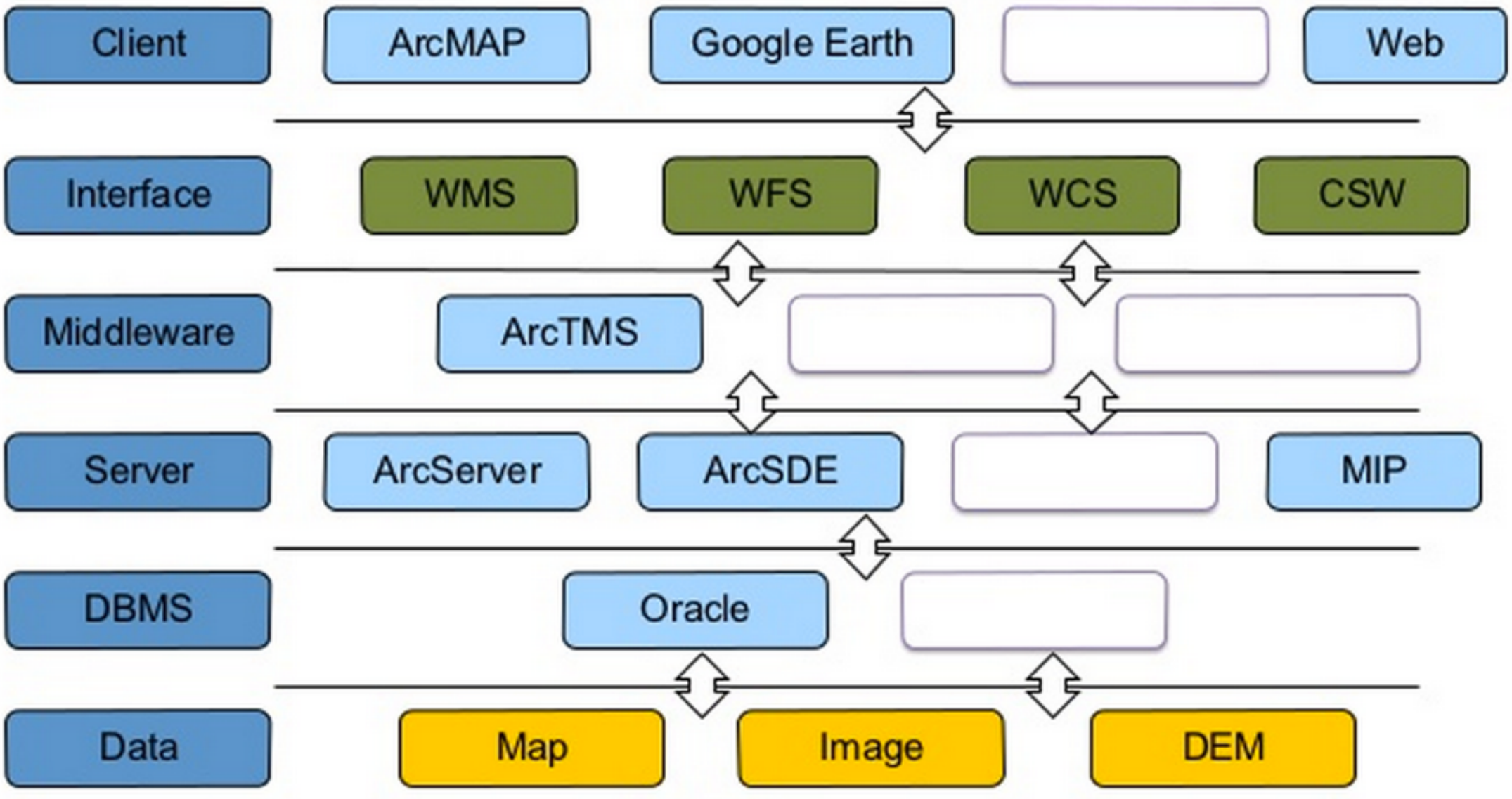
... or stored as separate data files (.grd)



http://www.innovativegis.com/basis/mapanalysis/Topic18/Topic18.htm

II-4. GIS : Vertical Set of Many Software

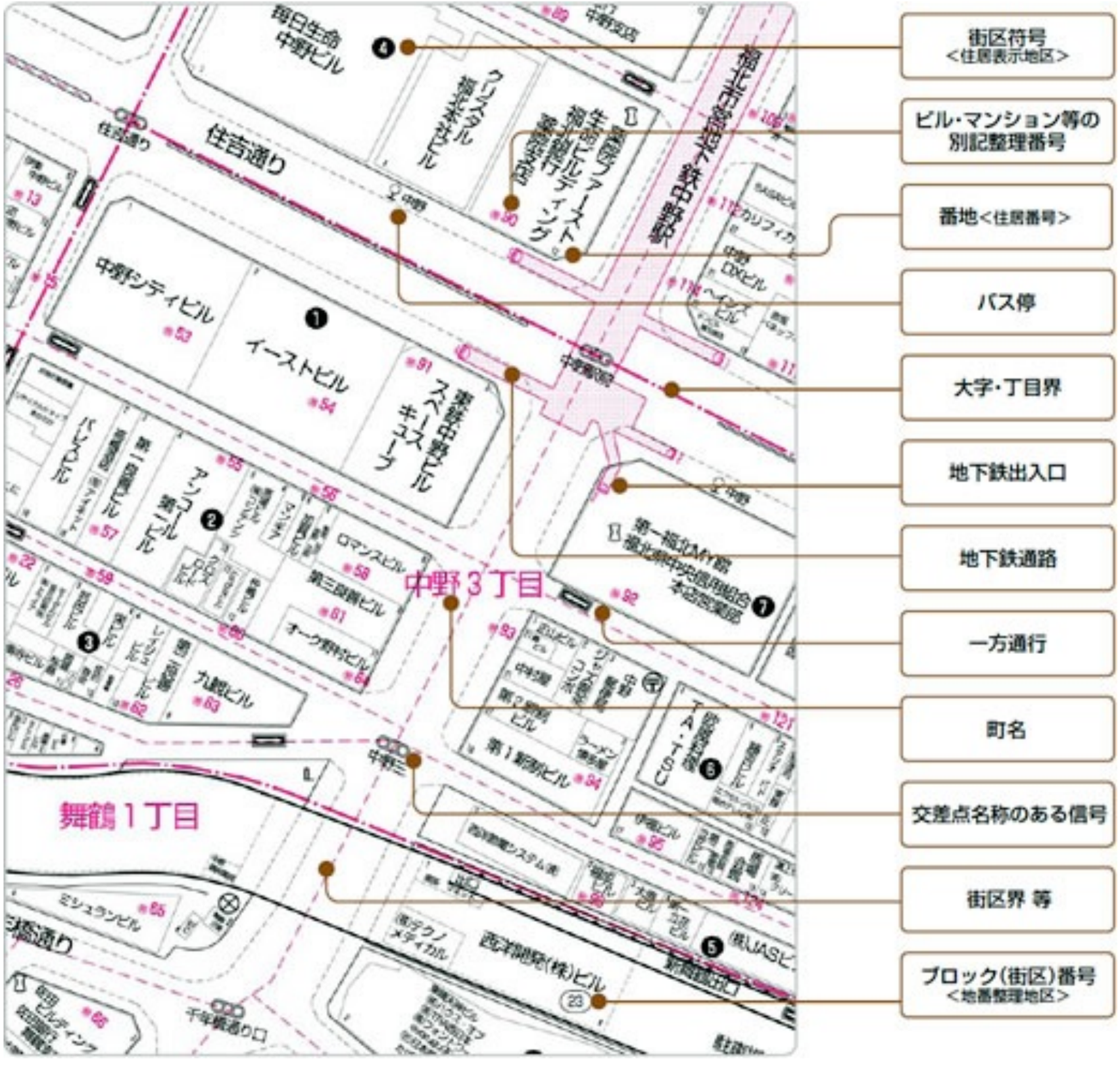
- Characteristics of GIS : **Vertical Set of Many Software**



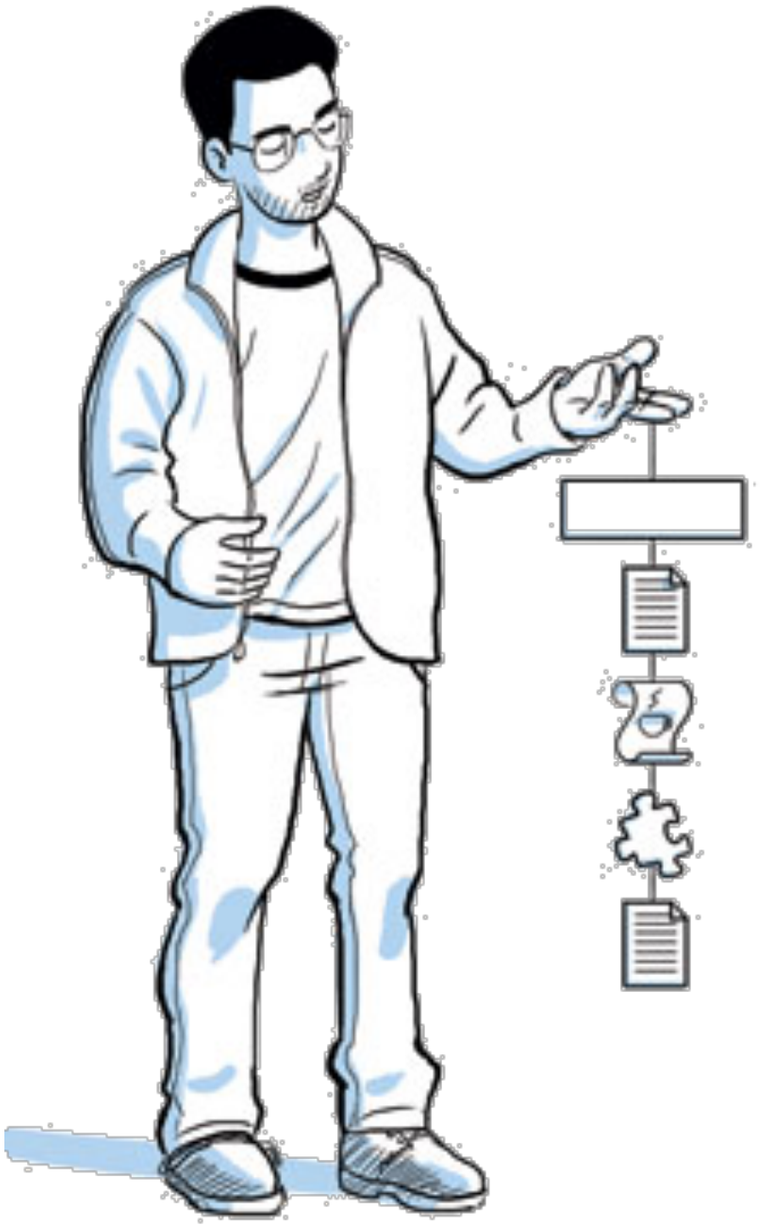
http://www.slideshare.net/endofcap/general-introduction-of-foss4g-and-osgeo

Cadastre Map

1:1500



http://www.zenrin.co.jp/product/publication/j-map/



?

城市願景 — Vision

市民住民 — People

公共生態 — Ecosystem

軟性基礎建設 — Software

城市維運系統 — Systems

硬體基礎建設 — Hardware

Comic characters: http://www.google.com/googlebooks/chrome/index.html

168.195.1.1

2001:0DB8:02de:0000:0000:0000:0000:0e13

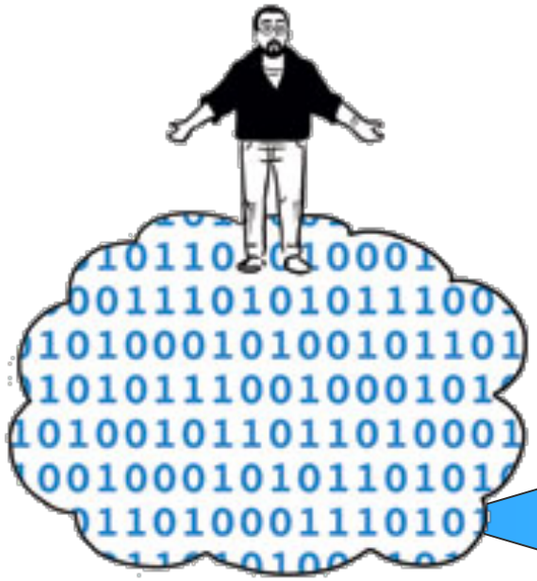
www.ntpc.gov.tw

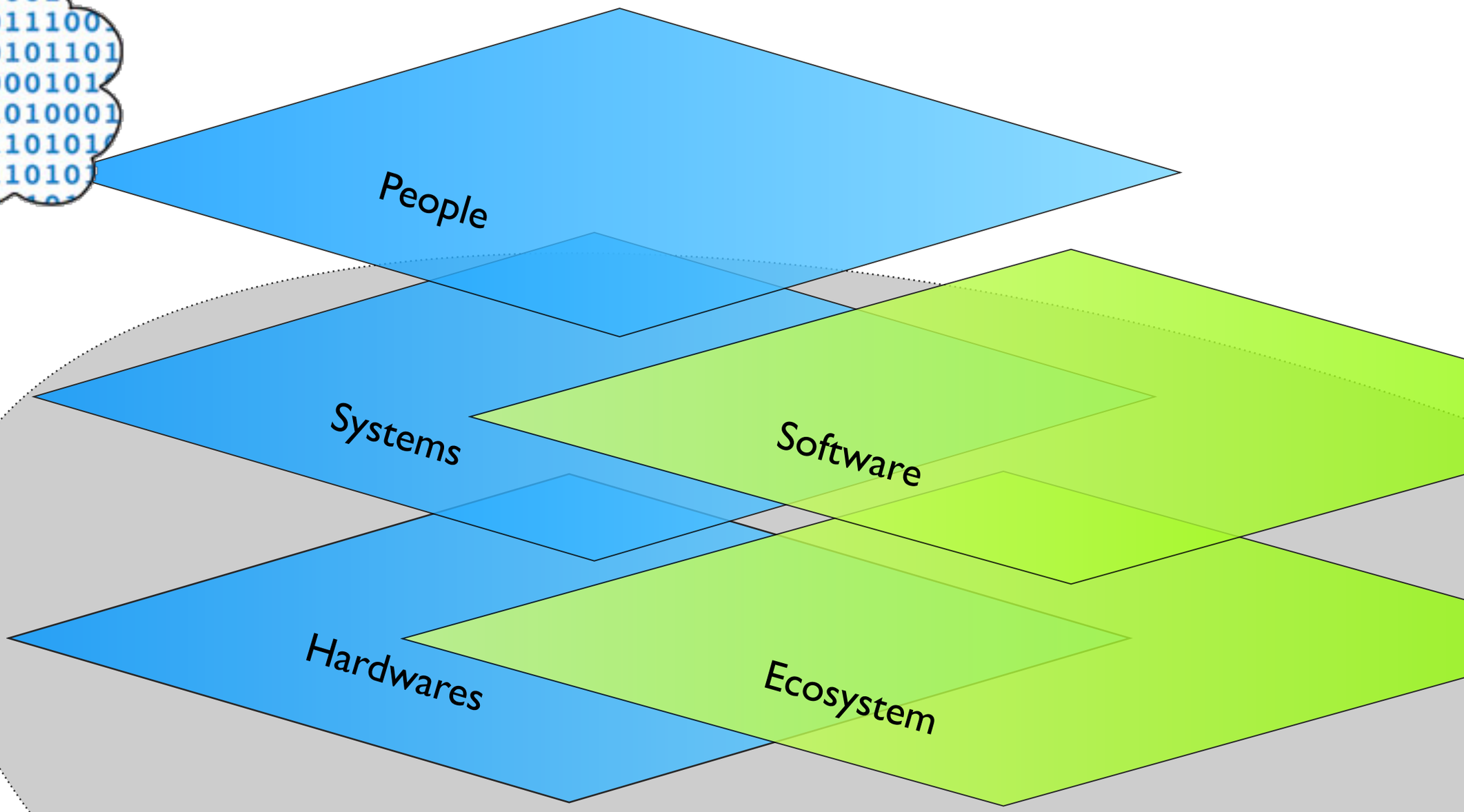
25.0122349, 121.465541

220

新北市板橋區中山路一段161號

Urban Context: layers of regulated systems





VISION

Comic characters: http://www.google.com/googlebooks/chrome/index.html

建物/網站 buildings, applications

道路/網絡 roads, utilities, networks

區位/拓樸 zoning, topologies

法律/源碼 codes

社區/網絡 social networks

設計 design

認同/識別 identity, URI

challenges of ai, data (open) and society

哪裡 (boundaries)

osm

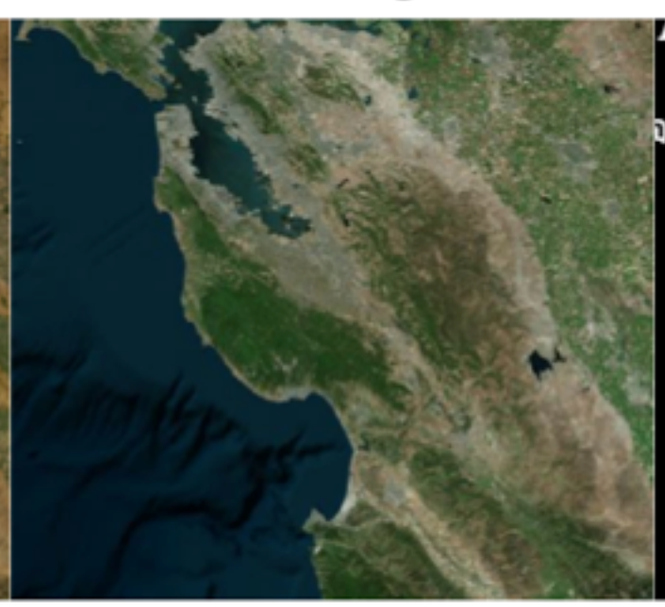
maptoolkit-topo

waze

mapquest

mapquest-aerial

bing



stamen-toner

stamen-terrain

stamen-watercolor

osm-german

osm-wanderreitkart

mapbox

http://blog.fellstat.com/wp-content/uploads/2013/04/Rplot001.png

stamen-watercolor

osm-german

osm-wanderreitkart

mapbox

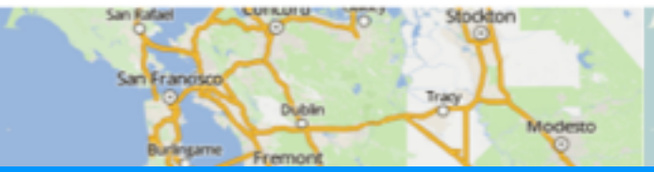
esri

esri-topo

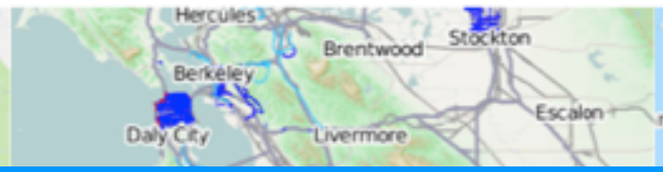
nps

apple-iphoto

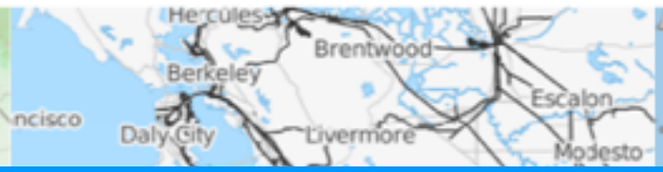
skobbler



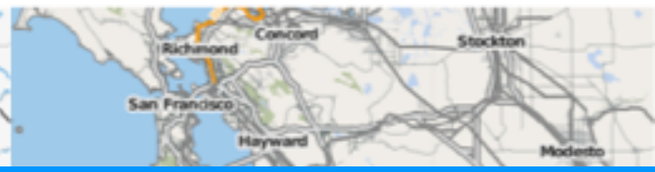
opencyclemap



osm-transport



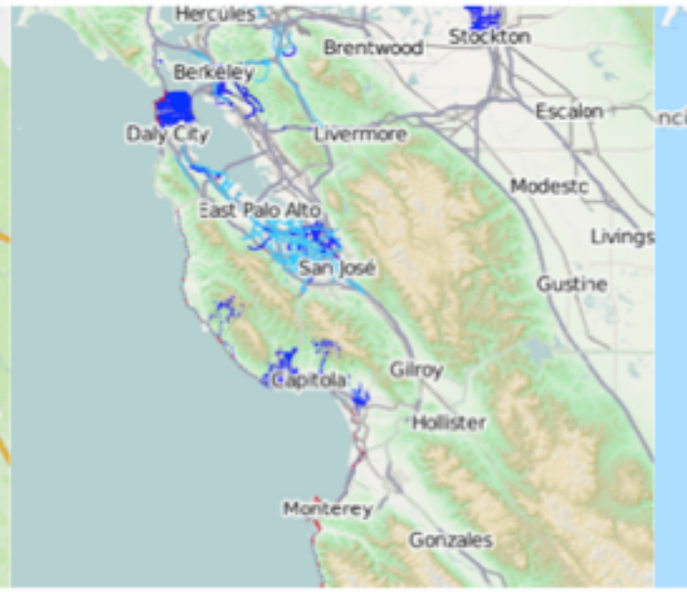
osm-public-transpor



http://blog.fellstat.com/wp-content/uploads/2013/04/Rplot001.png

skobbler

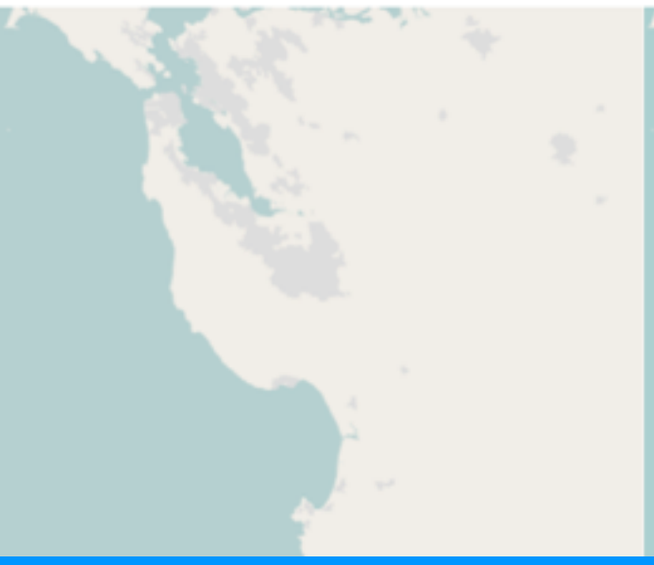
opencyclemap



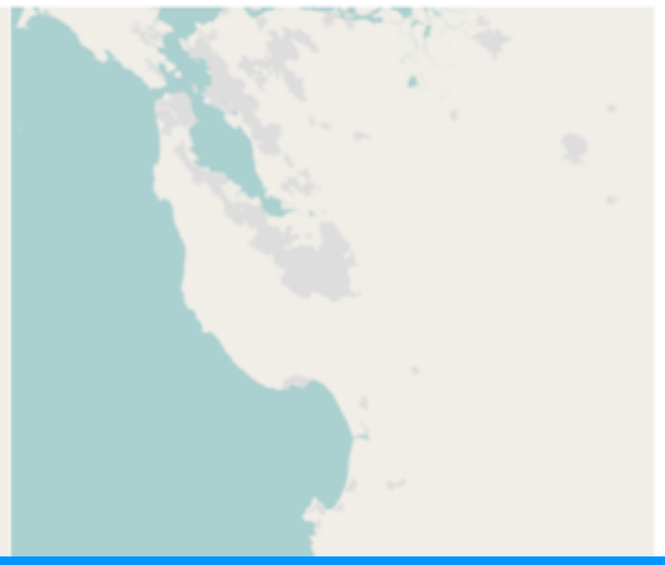
osm-transport

osm-public-transpor

osm-bbike



osm-bbike-german



http://blog.fellstat.com/wp-content/uploads/2013/04/Rplot001.png

foursquare 1

I'm looking for...

Activity Explore Lists

The last three months on Foursquare

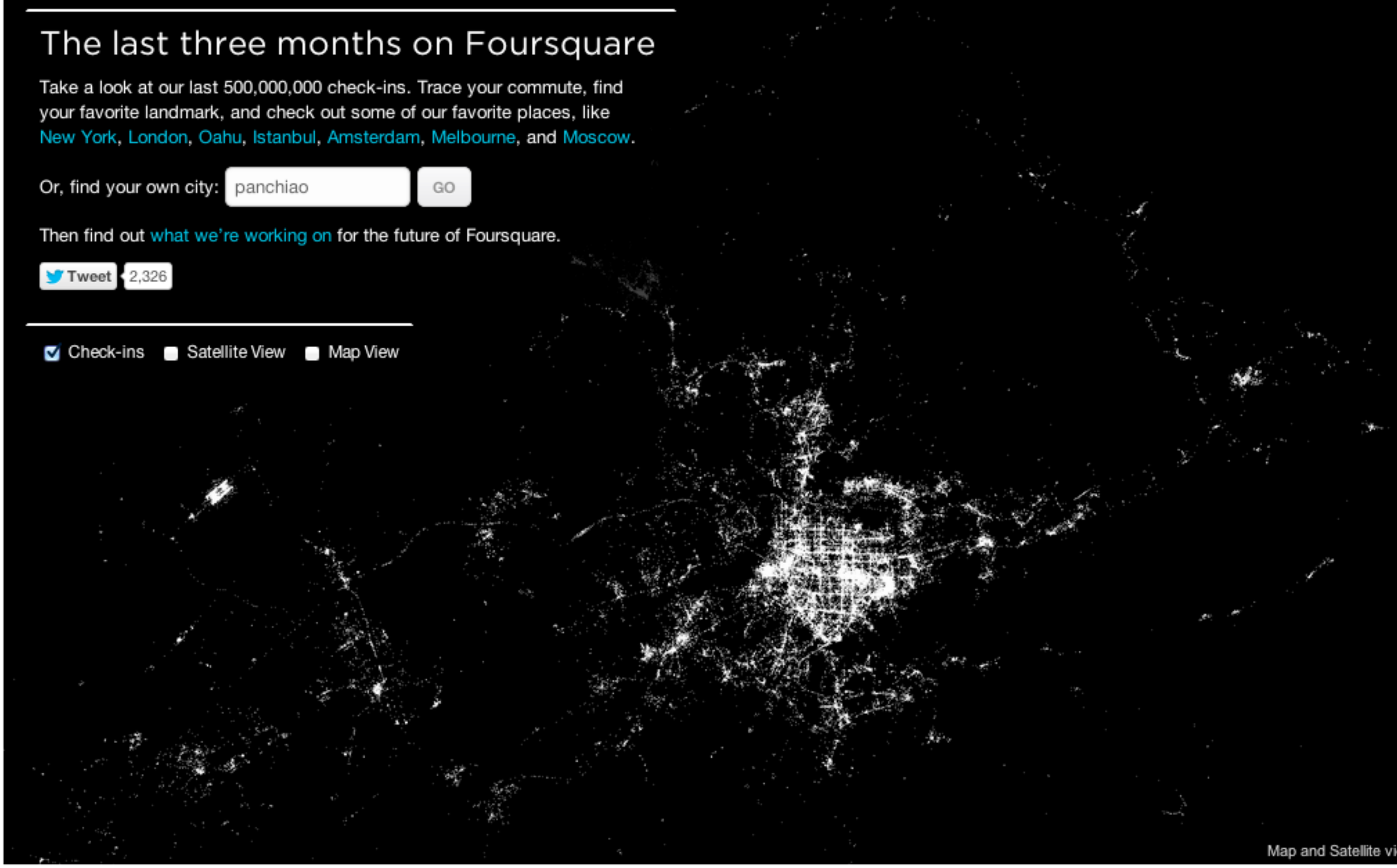
Take a look at our last 500,000,000 check-ins. Trace your commute, find your favorite landmark, and check out some of our favorite places, like New York, London, Oahu, Istanbul, Amsterdam, Melbourne, and Moscow.

Or, find your own city: panchiao GO

Then find out what we're working on for the future of Foursquare.

Tweet 2,326

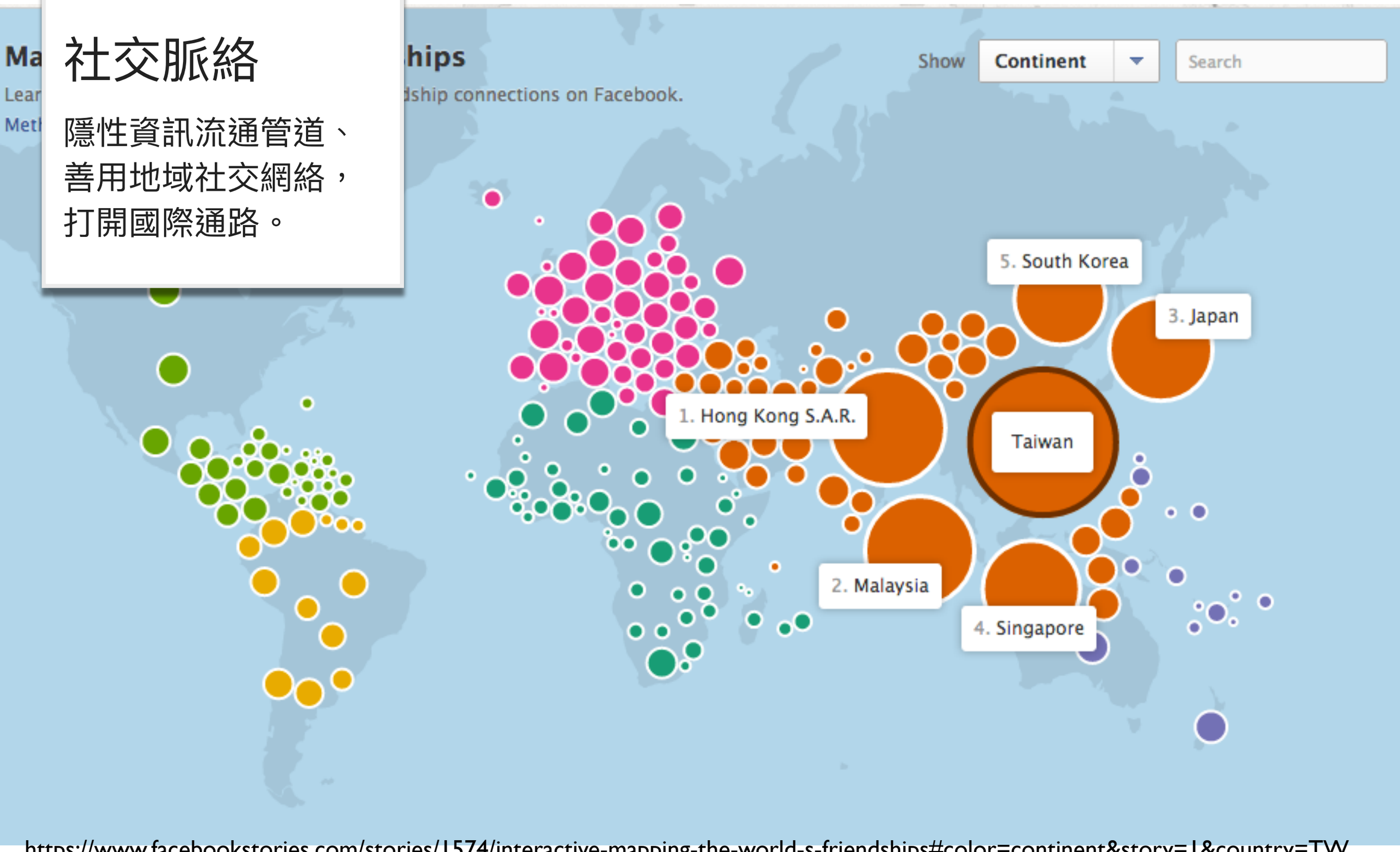
Check-ins Satellite View Map View



https://foursquare.com/infographics/500million

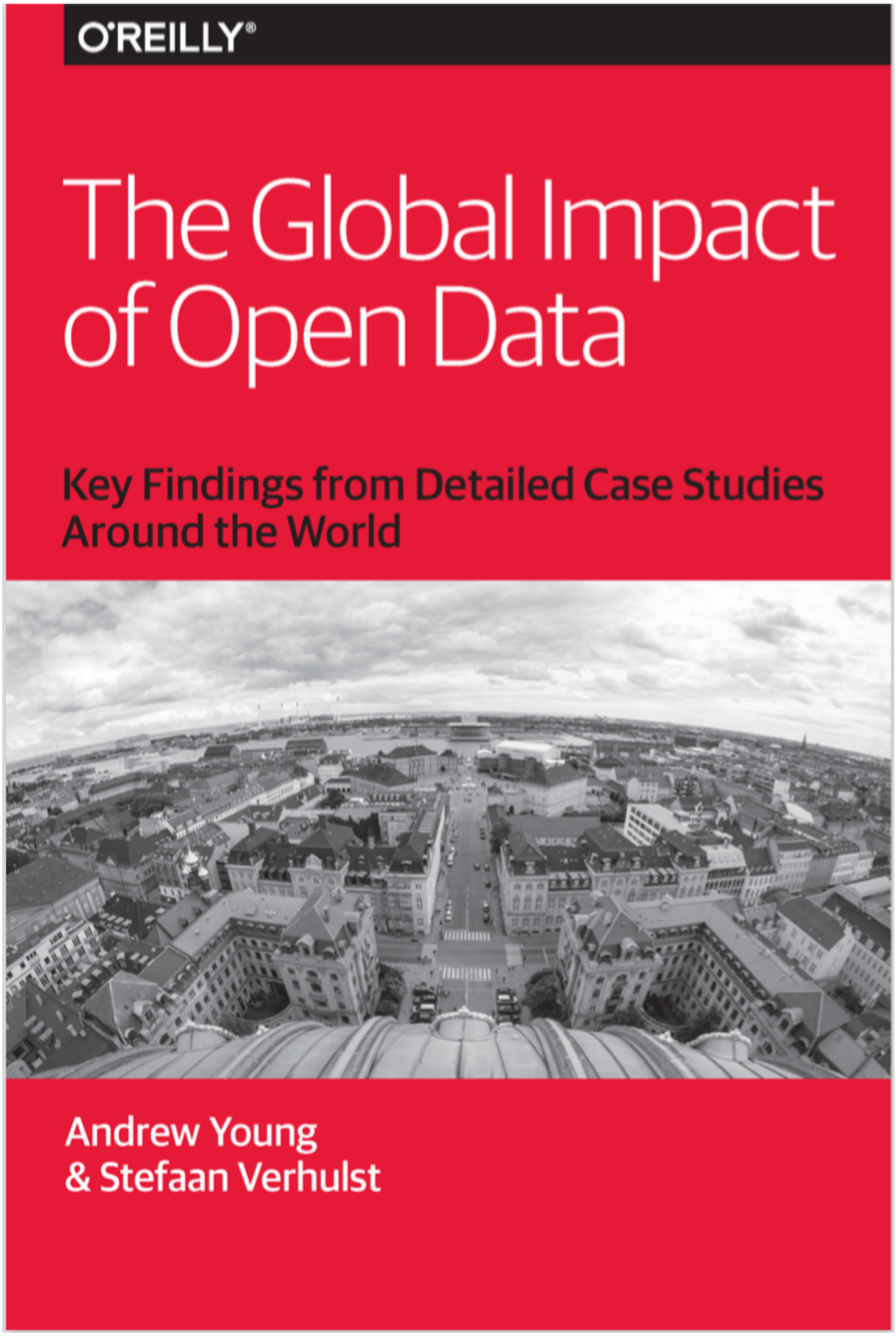
社交脈絡

隱性資訊流通管道、
善用地域社交網絡，
打開國際通路。



https://www.facebookstories.com/stories/1574/interactive-mapping-the-world-s-friendships#color=continent&story=1&country=TW

It's 2016… stories untold



What IMPACT?

Taipei City Govt

New Mayor

開放政府？

- Digital Minister
- Digital Economy
- Open Govt
- Open Data
- Asia’s Silicon Valley

OVER-GENERALIZATION

Morakot

網路救災？

G

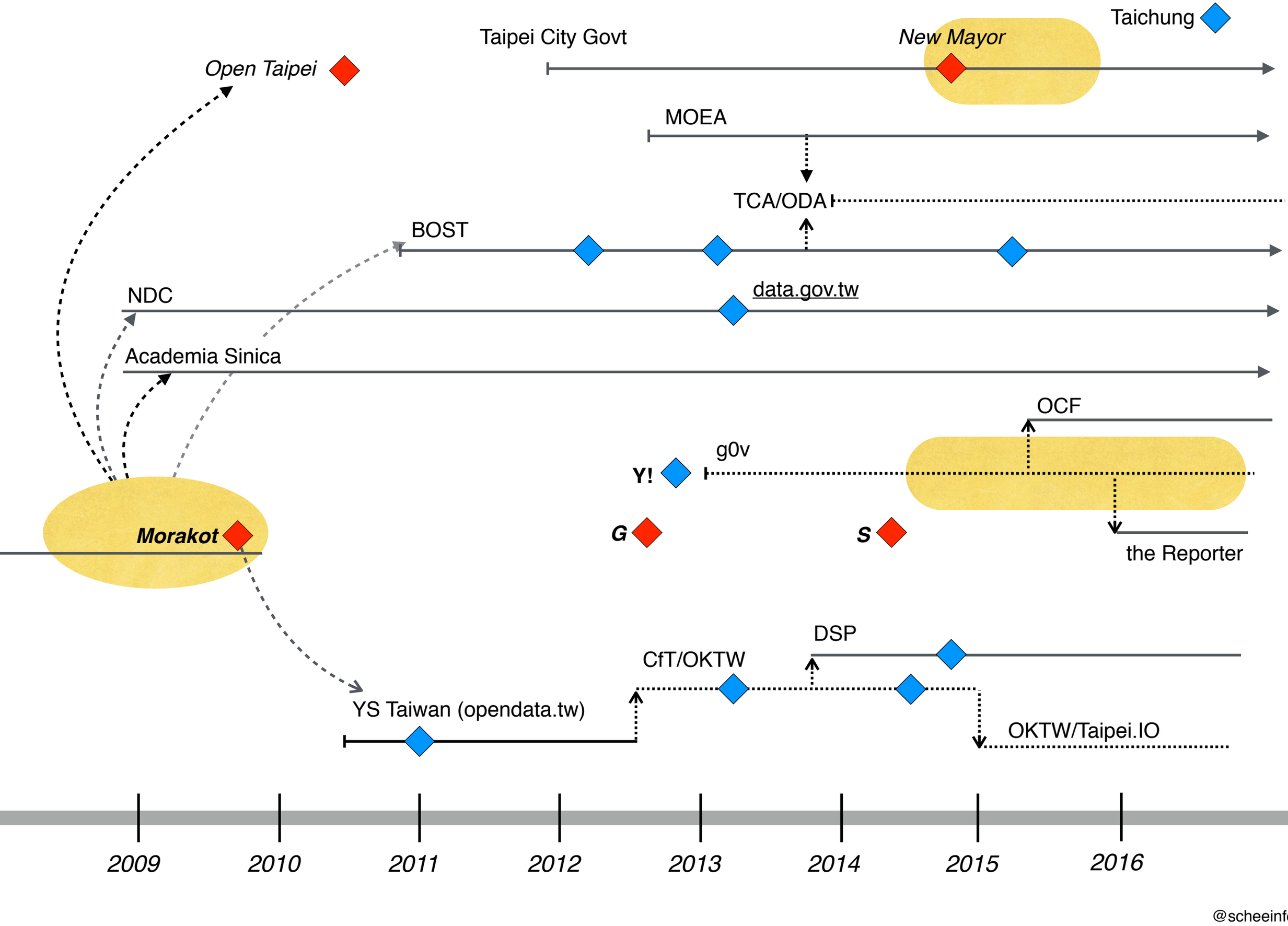
開放資料？

S

網軍？

2009 *2010* *2011* *2012* *2013* *2014* *2015* *2016*

@scheeinfo

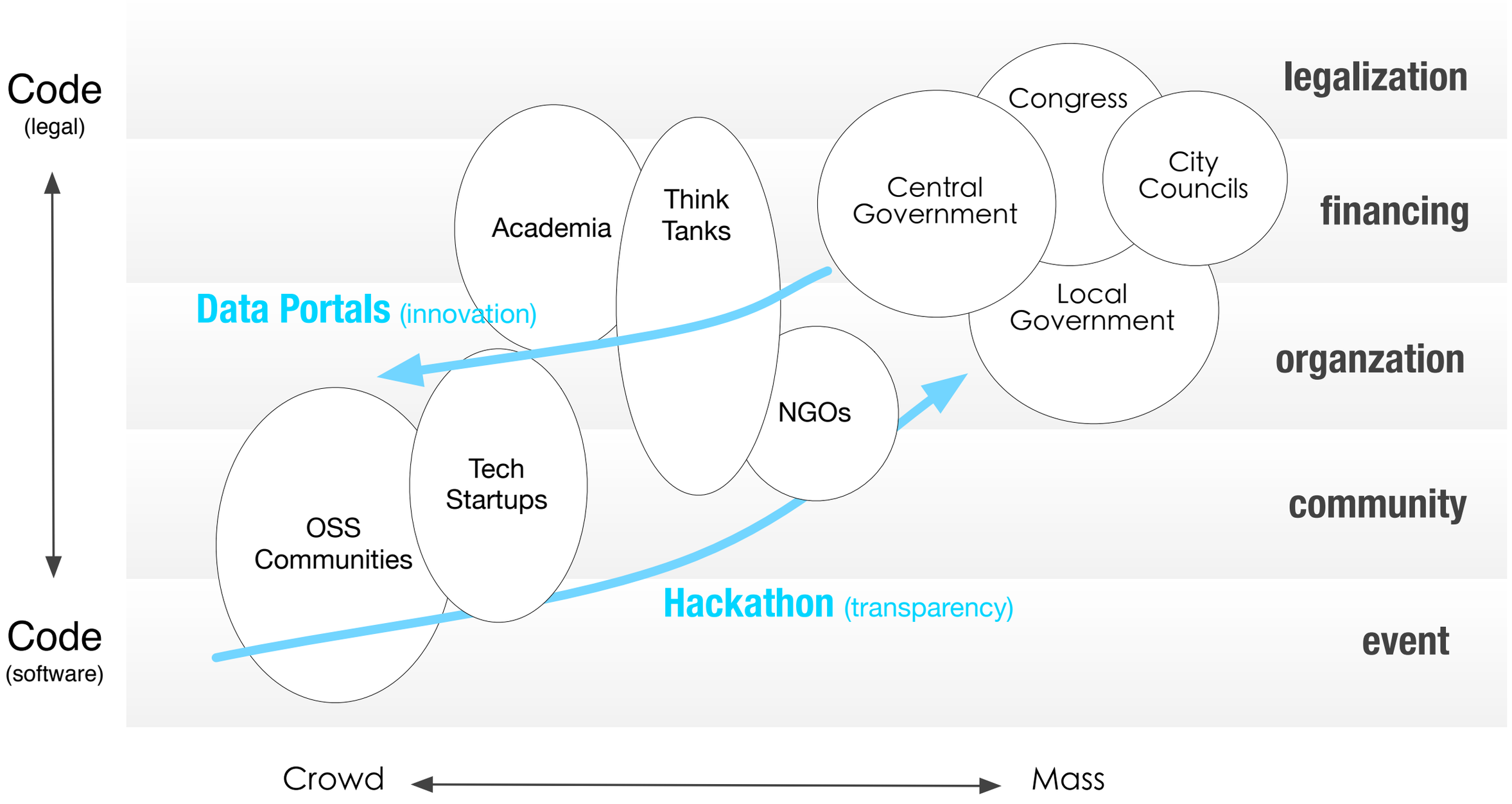

Taipei City Govt
New Mayor
Taichung
Open Taipei
MOEA
TCA/ODA
BOST
NDC
data.gov.tw
Academia Sinica
OCF
g0v
Y!
G
S
the Reporter
Morakot
DSP
CfT/OKTW
YS Taiwan (opendata.tw)
OKTW/Taipei.IO
2009
2010
2011
2012
2013
2014
2015
2016

@scheeinfo

2014.03

Image: Wikipedia

Progression Concept



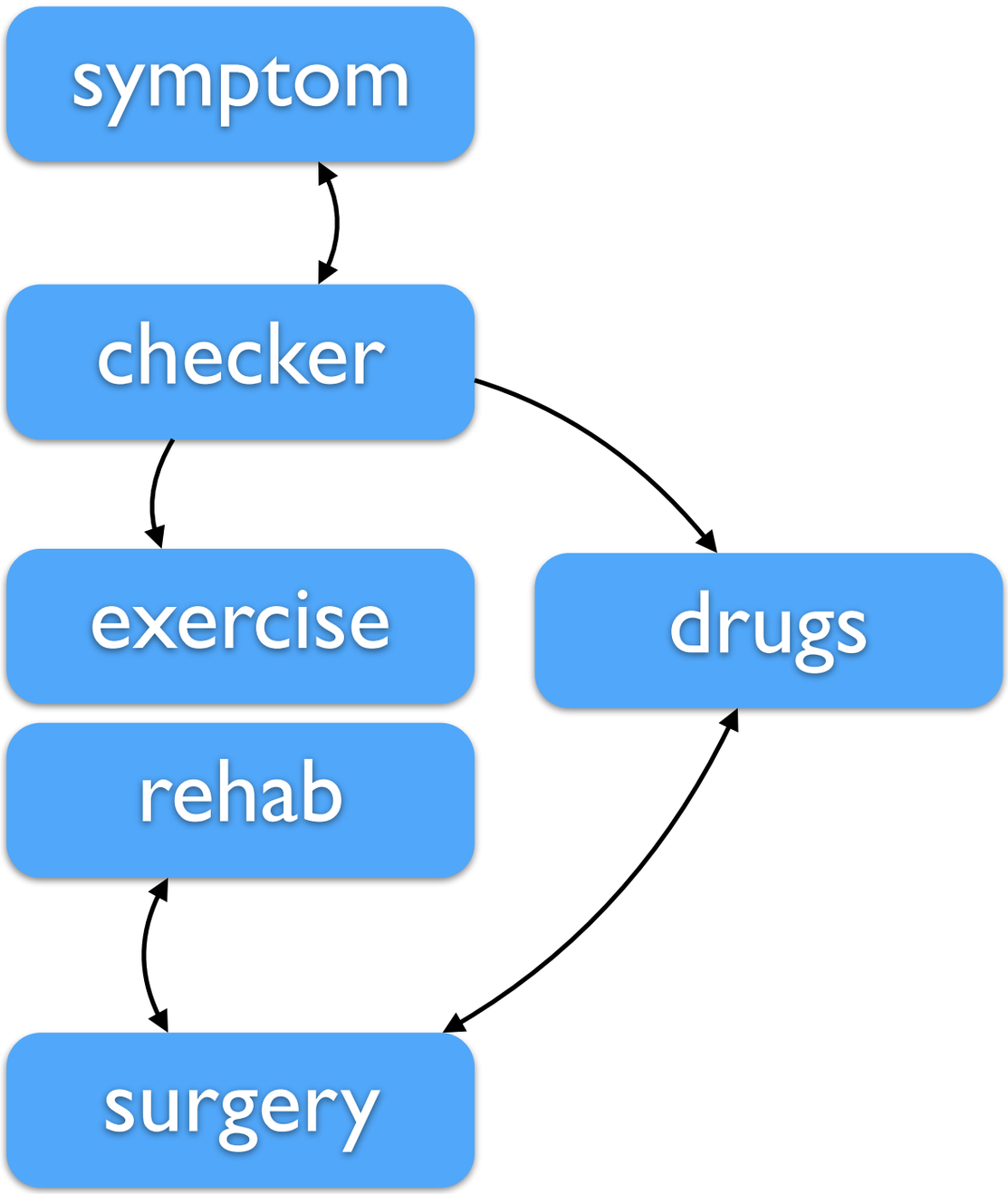
2011~

OPEN KNOWLEDGE TAIWAN

Code for Tomorrow

智庫驅動

#meetup
#workshop
#hackathon
#opendataday
#codeforhealthcare
#datascienceprogram
#smartgov
#datafiesta
#dataweekend
#policyworkshop
#socialenterprise
#mediaexposure
#civicheroes
#publicconsultation
#l13n



2014.12

Image: Mayor’s Facebook Page

Surging

Vibrant

Connected

https://plus.google.com/u/0/photos/116416314233992548280/albums/5822478003038917313

okfn.tw | @okfntw