

台灣地理資料開放的 建議

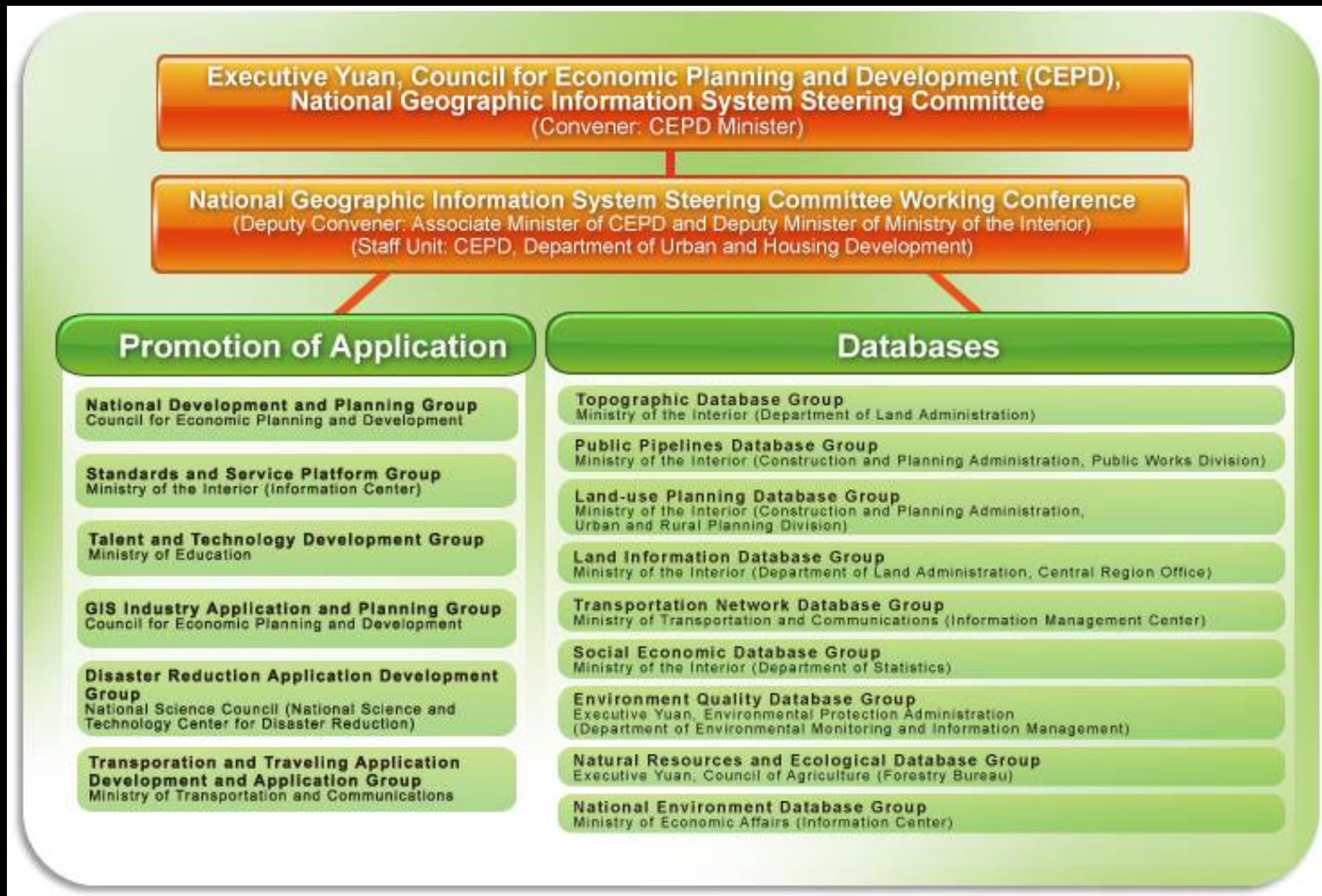
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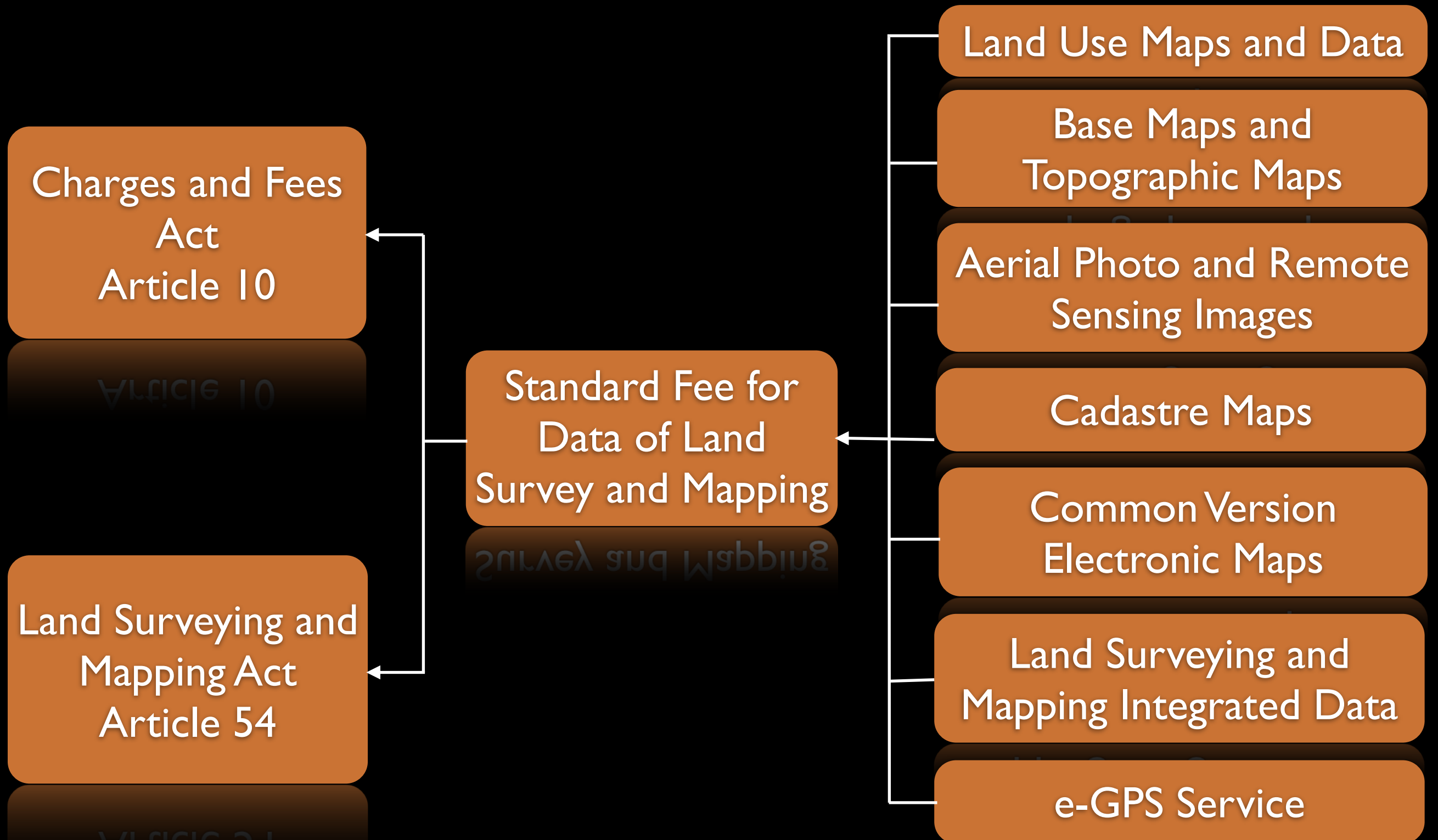
The development of Open Data in Taiwan

- Grassroots communities pay more attentions than governmental agencies
- Lack of high-level policy for Open Data development
- Wrong concepts: Publishing Data is Open Data

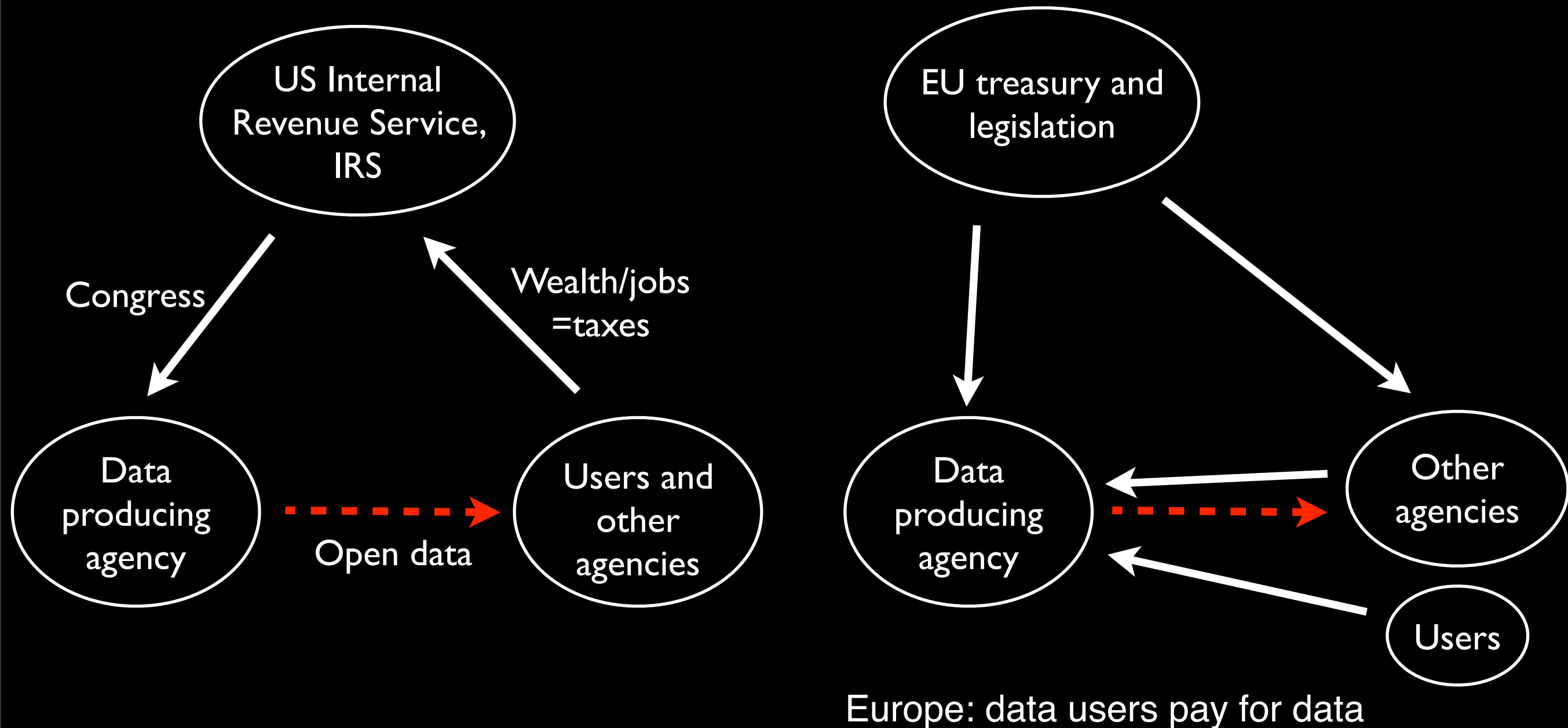
Gov. owns the most geo-data



Laws for Charging for Geo-Data in Taiwan



Different funding models for PSI

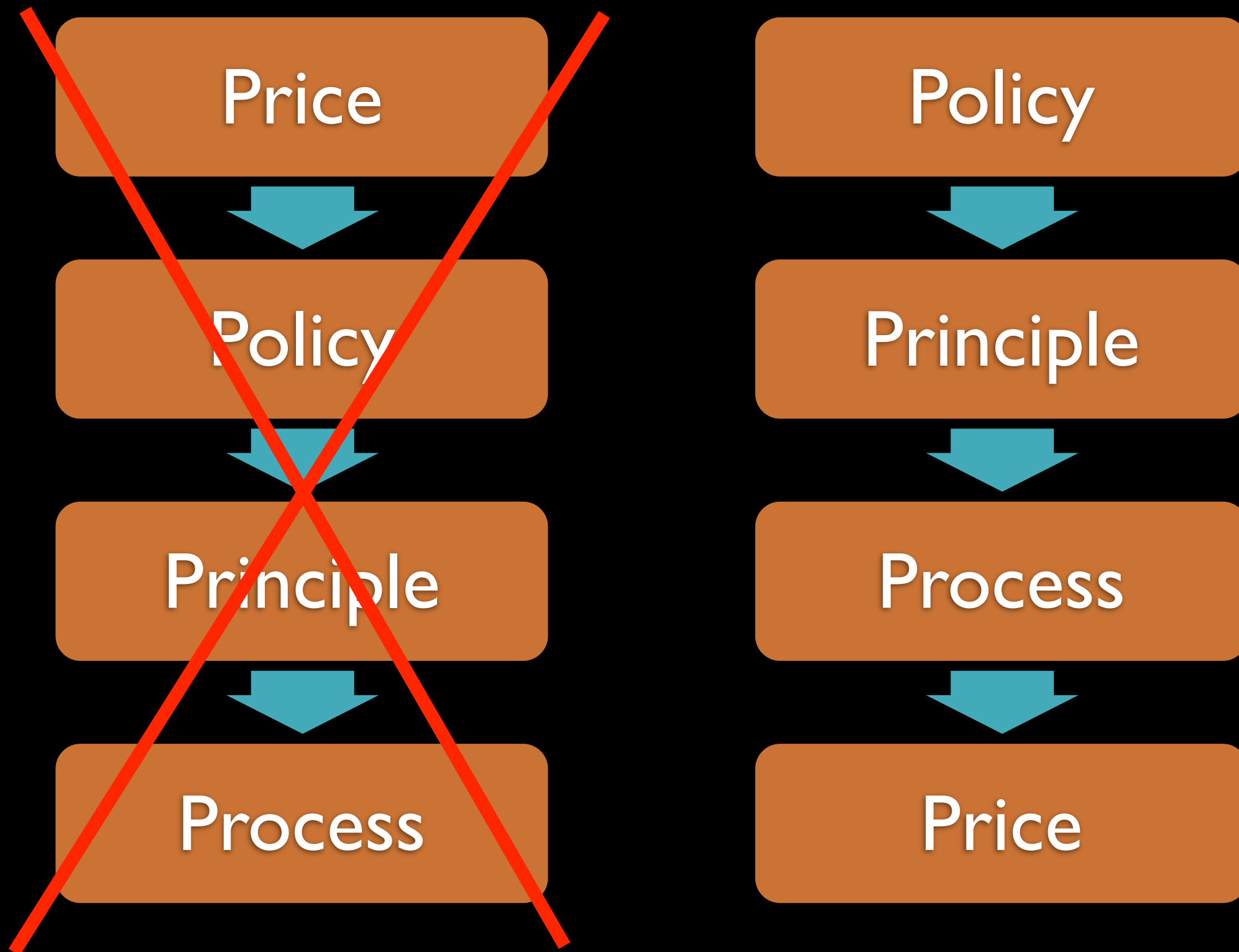


Peter Weiss, 2004. Borders in Cyberspace: Conflicting Public Sector Information Policies and their Economic Impacts, Open Access and the Public Domain in Digital Data and Information for Science, pp. 69-73

Open Geo-Data

- By definition of Public Common of Geographic Data (Onsrud, 2004)
- Open domain
 - cannot hold copyright by law, e.g. geo data of US Federal
 - copyright has expired, e.g. Taiwan Bao Maps (over 100 years ago)
 - is not subject to copyright, e.g. facts
- Open Access
 - copyrighted, but use open licenses
 - GPL, CC, ODbL

4Ps to open geo data



Policies for open geo-data

- remove restrictions for accessing governmental geo-data
- remove restrictions on reuse of governmental geo-data
- use standard formats to release geo-data
- Are current laws enough? or create new legal rights to empower the public

Principles

- Completeness
- Primary
- Timeliness
- Access
- Machine readability
- Non-proprietary
- Licensing
- Usage Costs

The procedure of Open Governmental GeoData

1.Discover

3.License

2.Process

4.Publish

<http://agimo.govspace.gov.au/page/primer-v1/scenarios/>

The procedure of Open Governmental GeoData

Discovery

Ask

- What data do we already have?
- What data have we been asked for?
- Is this data already public?

Find the data



Then Consider Freedom of Information requests



Examine existing publications

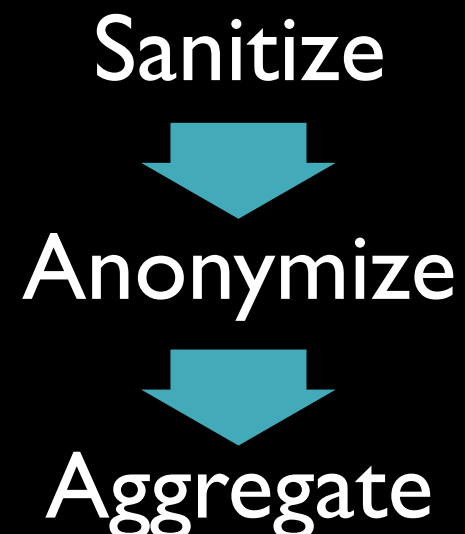
The procedure of Open Governmental GeoData

Process

Ask

- Are there security concerns?
- Will this data impact on privacy?
- Is this data at an appropriate level of aggregation?

Then



The procedure of Open Governmental GeoData

License

Ask

- Do we own this data?
- Do we have users' permission to publish this data?
- How should this data be able to be reused?

Then

Choose a license



Negotiate with owners



Remove 3rd-party data

The procedure of Open Governmental GeoData

Ask

- Should it be a dump, feed or API?
- Is documentation and metadata required?
- Is it published in an appropriate format?

Then

Convert data format



Describe and document



Publish to agency site, existing repository

5 star (geo) open data



on the web, under open license

scanned maps



machine-readable data

online mapping



non-proprietary format

GML, KML



identifier URI

Rdf4Map



Linked Data

LinkedGeoData

Taiwan Gazetteer

臺灣地區地名查詢系統 Taiwan Geographic Names Information System

網站地圖 | 回首頁 | English

目前位置：首頁 > 臺灣地區地名整合檢索結果

字型：適中 較大 最大

站內搜尋 確定

最新消息

其他地名檢索系統

地名譯寫系統

地名相關法規

地名管理業務

相關文件

相關網站

連絡資訊

常見問題

臺灣地區地名整合檢索結果

查詢縣市 輸入查詢地名類別 輸入查詢字串

查所有縣市 查所有鄉鎮市 查所有類別

確定 重設

共5筆

地名編號	地名名稱	別稱	縣市	鄉鎮市區	村里	詳細資訊
1001301-107	香蕉市		屏東縣	屏東市	仁義里	【詳細資料】
1001301-205	香蕉市		屏東縣	屏東市	湖西里	【詳細資料】
1001301-223	香蕉市 (蕉市路、香蕉)		屏東縣	屏東市	建國里	【詳細資料】
1001301-289	香蕉市 (青果市場)		屏東縣	屏東市	清溪里	【詳細資料】
1001902-051	香蕉市		臺中市	東區	翰弟里	【詳細資料】

快速連結

電子報

地名問與答

線上地名互動學習系統

進行中工作

<http://placesearch.moi.gov.tw>

Taiwan Geographic Name Database

phpMyAdmin 127.0.0.1 - Taiwan_placename - tw_25k

Browse Structure SQL Search Insert Export Import Operations

+ Options

(Recent tables) ... Taiwan_placename

1904_placename
1916_placename
geoname_tw
placename_tw
placename_tw2
placename_tw3
roadmile
tw_25k

Create table

	ID	CADTEXT	EN_NAME	EN_HAN	EN_suggest	ALIAS	EN_NAME2	CLASSNAME	ADMIT_ID	X_COORD	Y_COORD	ADMIP	ADMIT	CLASS	CHECKED
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	292	赤鹿坑	Chihlukeng	Chilukeng	Chilukeng			聚落地名	0 0	0		大同鄉	宜蘭縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	東門里	Dongmen Village	Dongmen Village	Dongmen Village			村里名	0 0	0		金城鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	西門里	Simen Village	Ximen Village	Ximen Village			村里名	0 0	0		金城鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	南門里	Nanmen Village	Nanmen Village	Nanmen Village			村里名	0 0	0		金城鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	北門里	Beimen Village	Beimen Village	Beimen Village			村里名	0 0	0		金城鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	古城里	Gucheng Village	Gucheng Village	Gucheng Village			村里名	0 0	0		金城鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	金水里	Jinshuei Village	Jinshui Village	Jinshui Village			村里名	0 0	0		金城鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	珠沙里	Jhusha Village	Zhusha Village	Zhusha Village			村里名	0 0	0		金城鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	賢庵里	Sian'an Village	Xian'an Village	Xian'an Village			村里名	0 0	0		金城鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	汶沙里	Wunsha Village	Wensha Village	Wensha Village			村里名	0 0	0		金沙鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	11	三山里	Sanshan Village	Sanshan Village	Sanshan Village			村里名	0 0	0		金沙鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	12	大洋里	Dayang Village	Dayang Village	Dayang Village			村里名	0 0	0		金沙鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	13	光前里	Guangcian Village	Guangqian Village	Guangqian Village			村里名	0 0	0		金沙鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	14	何斗里	Hedou Village	Hedou Village	Hedou Village			村里名	0 0	0		金沙鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	15	西園里	Siyuan Village	Xiyuan Village	Xiyuan Village			村里名	0 0	0		金沙鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	16	官嶼里	Guanyu Village	Guanyu Village	Guanyu Village			村里名	0 0	0		金沙鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	17	浦山里	Pushan Village	Pushan Village	Pushan Village			村里名	0 0	0		金沙鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	18	新市里	Sinshih Village	Xinshi Village	Xinshi Village			村里名	0 0	0		金湖鎮	金門縣		1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	19	山外里	Shanwai Village	Shanwai Village	Shanwai Village			村里名	0 0	0		金湖鎮	金門縣		1

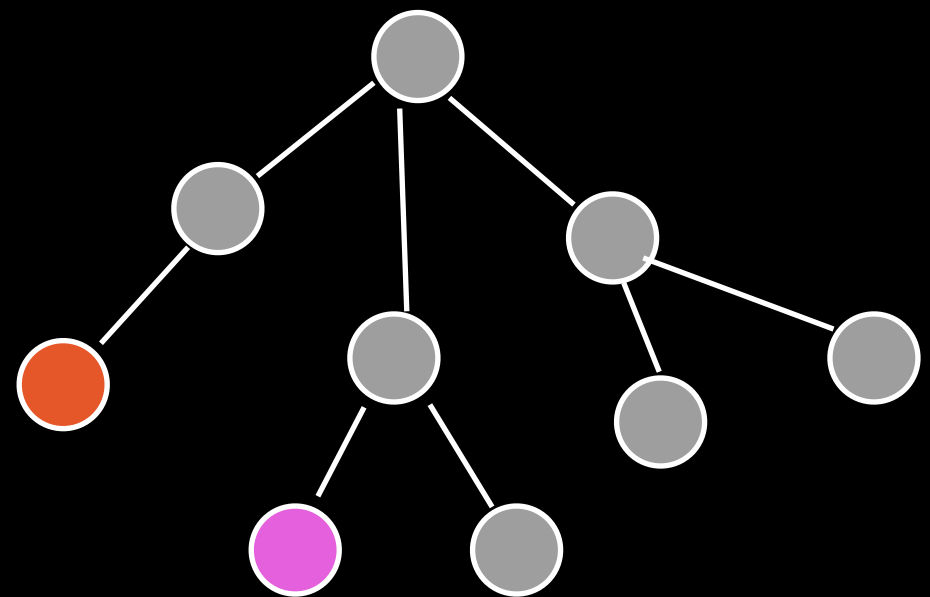
Data resource:



RDF Triplify

Town as tgn:is_in_Town

purple	purple	orange	purple	purple	pink	purple
		orange			pink	
		orange			pink	
		orange			pink	
		orange			pink	



X as geo:long

http://pomelo.iis.sinica.edu.tw:2020/page/geoname_tw/100

Link to Geonames.org

Geoname_tw #香蕉市	
Resource URI: http://pomelo.iis.sinica.edu.tw:2020/resource/geoname_tw/100	
Home All geoname_tw	
Property	Value
tn:address	
tn:en_name	Xiangjiaoshi
tn:en_name_hanyu	Xiangjiaoshi
tn:en_name_tongyong	Siangjiaoshih
tn:featureType	地名
tn:id	100 (xsd:integer)
tn:is_in_County	南投縣
tn:is_in_Town	中寮鄉
rdfs:label	Geoname_tw #香蕉市
geo:lat	23.892823 (xsd:decimal)
geo:long	120.729244 (xsd:decimal)
tn:name	香蕉市
tn:phone	
owl:sameAs	< http://www.geonames.org/6650274/ >
rdf:type	tn:Geoname_tw



Taiwan geographic names



View



Resources (2)



Related (0)



History



Edit



Authorization



Followers (0)

This is a Taiwan geographic name(台灣地名) linked open data service. This service aims to provide a unique ID for linking Taiwan place names.

License: [Open Data Commons Open Database License \(ODbL\)](#)

[OPEN DATA](#)

Resources (edit)



Taiwan Geographic Name

application/rdf+xml



SPARQL Endpoint

api/sparql

Tags

[format:geonames](#)

[geospatial](#)

[lod](#)

[taiwan](#)

[台灣](#)

Additional Information (settings)

Field	Value
Author	Dongpo Deng
Maintainer	Maintainer not given
State	active
Namespace	tgn
Source	http://pomelo.iis.sinica.edu.tw:2020/
links:geonames-semantic-web	3000

Cite this

Taiwan geographic names. Dongpo Deng.

Retrieved 08:23, Oct 29, 2012 (UTC).

[the Data Hub](#)



Google +1

0



Tweet

6



Share

6

Conclusion

- Governmental geo-data is infrastructure.
Pay for using data?
- Need a Open Data Policy for opening geo-data
- Still a long way to go