

A Simple Way to Create a Web Infographic Map: For Public Data and Private Data

MangoSystem
Research Engineer | Hanjin Lee
@jinifor

Translate



English Korean Spanish Detect language ▼



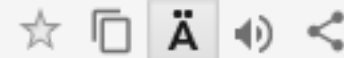
Korean English Spanish ▼

Translate

A Simple Way to Create a Web [×]
Infographic Map



웹 인포 그래픽 지도를 제작하는 간단
한 방법



Wrong?

web inpo geulaepig jido leul jejaghaneun gandanhan
bangbeob

Who Are We?!

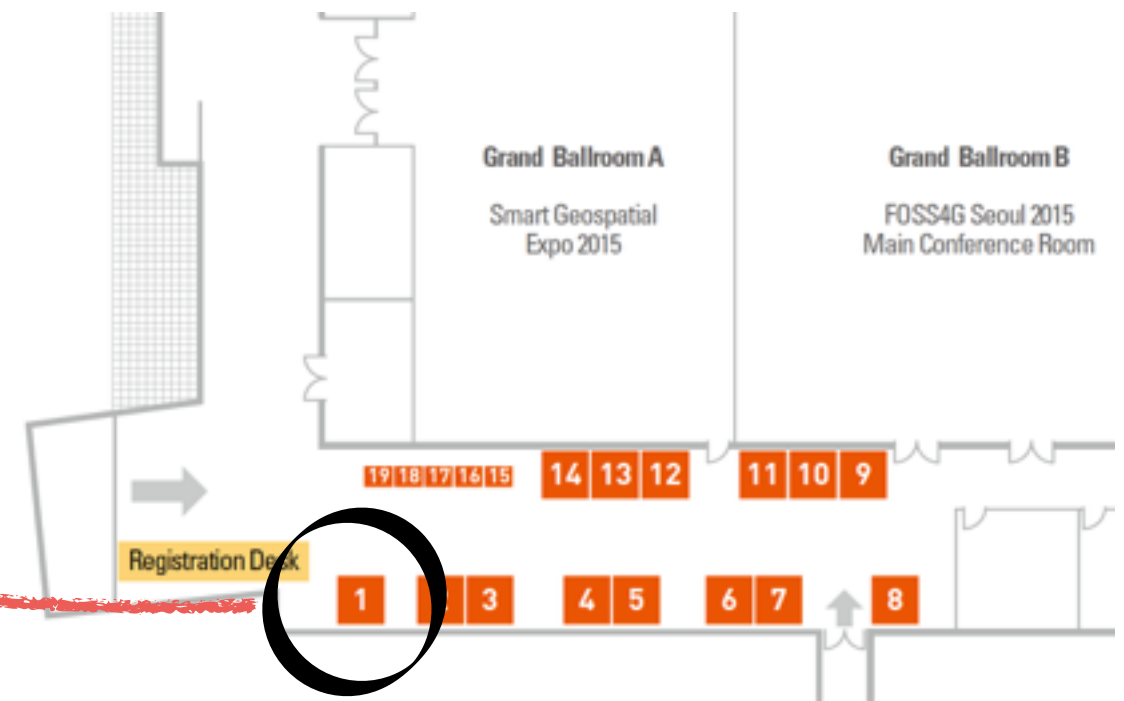


MANGO
S Y S T E M



MANGO

S Y S T E M



Pinogio

How to Get the Public (Open) Data?


국가공간정보유통시스템
 National Spatial Information Clearinghouse

[유통시스템 소개](#)
[공간정보 구매](#)
[공간정보 현황](#)
[고객지원](#)
[도움말/안내](#)

공간정보 구매는 이렇게!

○ 국가공간정보 유통시스템이란?



○ 최신 등록 자료 (2015년06월 ~ 2015년09월)

Thumbnail	대분류: 기본도 분야: 지형도 공급자: 국토지리정보원 가격: 15,000원	대분류: 기본도 분야: 지형도 공급자: 국토지리정보원 가격: 15,000원	대분류: 기본도 분야: 지형도 공급자: 국토지리정보원 가격: 15,000원
	1:5000 수치지형도 [37801031]	1:5000 수치지형도 [37801014]	1:5000 수치지형도 [37808014]

My Map 소개

My Map 신청

My Map

지도구매 바로가기

지도에서 공간정보 데이터셋을 구매합니다.

도로명주소 신청/다운로드

도로명주소 신청 및 다운로드 합니다.

샘플데이터 다운로드

샘플데이터를 무료 다운로드 합니다.

천리안 위성영상 다운로드

천리안 위성영상 다운로드 합니다.

공공데이터 다운로드

공공에서 제공하는 공간정보 및 통계를 다운로드 합니다.

Open Data Portal

<http://data.go.kr>

The screenshot displays the Open Data Portal (data.go.kr) interface. At the top, the logo "DATA Open Data Portal .GO.KR" is followed by navigation links: "Dataset", "Use Cases", "Interact", and "Information". Below this is a search bar with a magnifying glass icon. The main navigation bar features three tabs: "FILE DATA", "OPEN API", and "VISUAL". The central area is a blue grid of 16 icons representing various data categories: Education, Land, Administration, Finance, Industry & Employment, Welfare, Food & Health, Culture & Tour, Medicine, Safety, Transportation, Environment & Weather, Science & Research, Agriculture, Diplomacy, and Law. Below the grid, the "Use Cases" section is visible, containing three featured items: "The Assa trade" (with a globe icon), "With the Co. Eseauen ratio 5..." (with a microphone icon and a photo of a group of people), and "음식물쓰레기, 스마트하게 버리자! RFID 종량제" (with a trash can icon and the text "공공데이터 인포그래픽").

Seoul Open Data Plaza

<http://data.seoul.go.kr>

서울특별시

유홍준과 함께~ 서울 문화유산 답사단 모집

[홈](#) [회원로그인](#) [회원가입](#) [정보소통광장](#) [정부3.0](#) [사이트맵](#)

서울 열린데이터 광장
SEOUL OPEN DATA PLAZA

[오픈데이터](#) | [데이터서비스](#) | [참여·소통](#)

음식물쓰레기,
스마트하게 버리자!



**RFID
종량제**

열린데이터를 검색하세요

일반행정문화관광환경보건산업경제

도시관리복지교통안전교육

인기검색어

1 통계	↑ 6
2 지하철	↓ 1
3 공시	↑ new
4 정류장	↑ new
5 결정	↑ new
6 서울	↑ 9

시각화 서비스



한국사학사 연구 사례2



한국사학사 연구 사례 1



통근 통학시 교통수단 ...



서울시 예산 변화 (성...

활용갤러리



Seoul Open Data Plaza

<http://data.seoul.go.kr>

XLS

CSV

JSON

Sheet

Open API

Map

File

필터선택

결과내검색

Lat

|

Lon

순번	비상소화장치ID	비상소화장치번호	서소코드	최종변경일시	새주소	위도	경도
610	729606010	000179	72250	20090327195159		37.5615874	127.0106562
611	729909007	000203	72250	20090402221022		37.5640496	127.0130719
612	729909009	000205	72250	20090327194252		37.5638917	127.0105345
613	780001017	23	92250	20090327145854		37.5604197	126.9301718
614	780001004	11	92250	20100120215243		37.5755412	126.9317057
616	729512007	000139	72250	20090402221022		37.5604197	127.0118612
529	909306301	2-2					
540	779810001	145					
550	879912063	000003					
561	779305006	27					
573	849606001	43					
584	779810017	162					
591	779810011	156					

SHP 파일목록

No	파일명세서	마지막수정일	최초공개일	다운로드수	다운로드
1	WARNHYDRANTGT_W_SHP.zip	2015.07.23	2015.07.23	0	Down

DXF 파일목록

No	파일명세서	마지막수정일	최초공개일	다운로드수	다운로드
1	WARNHYDRANTGT_W_DXF.zip	2015.07.23	2015.07.23	0	Down

GML 파일목록

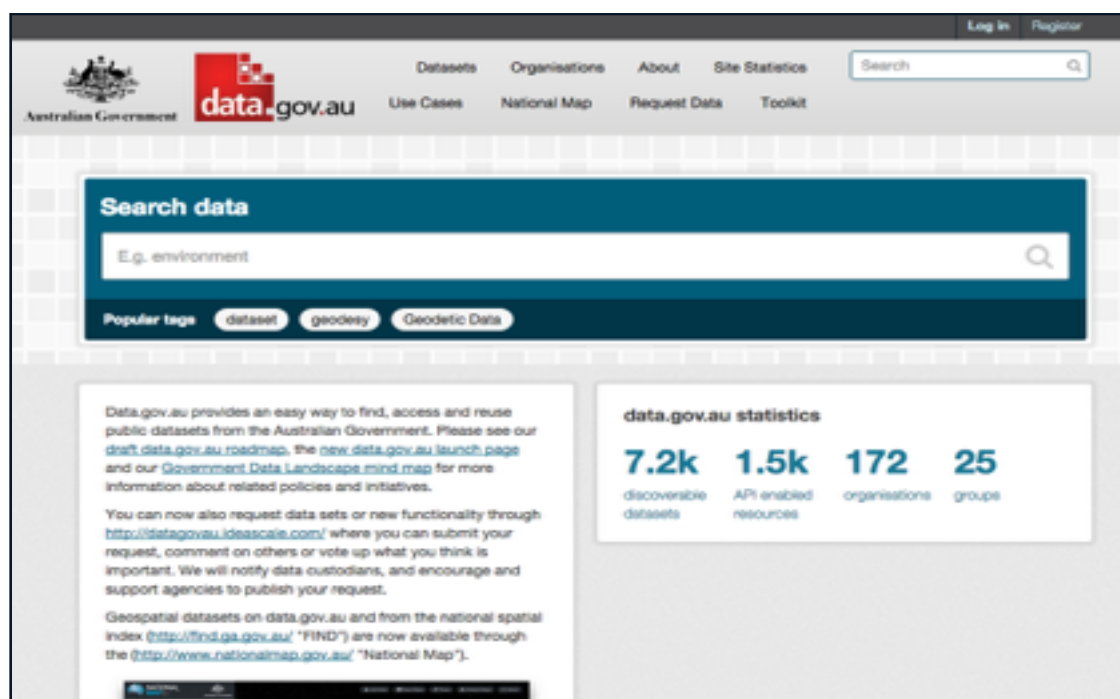
No	파일명세서	마지막수정일	최초공개일	다운로드수	다운로드
1	WARNHYDRANTGT_W_GML.zip	2015.07.23	2015.07.23	0	Down

한국사학사 연구 사례2

활용갤러리

음식물쓰레기

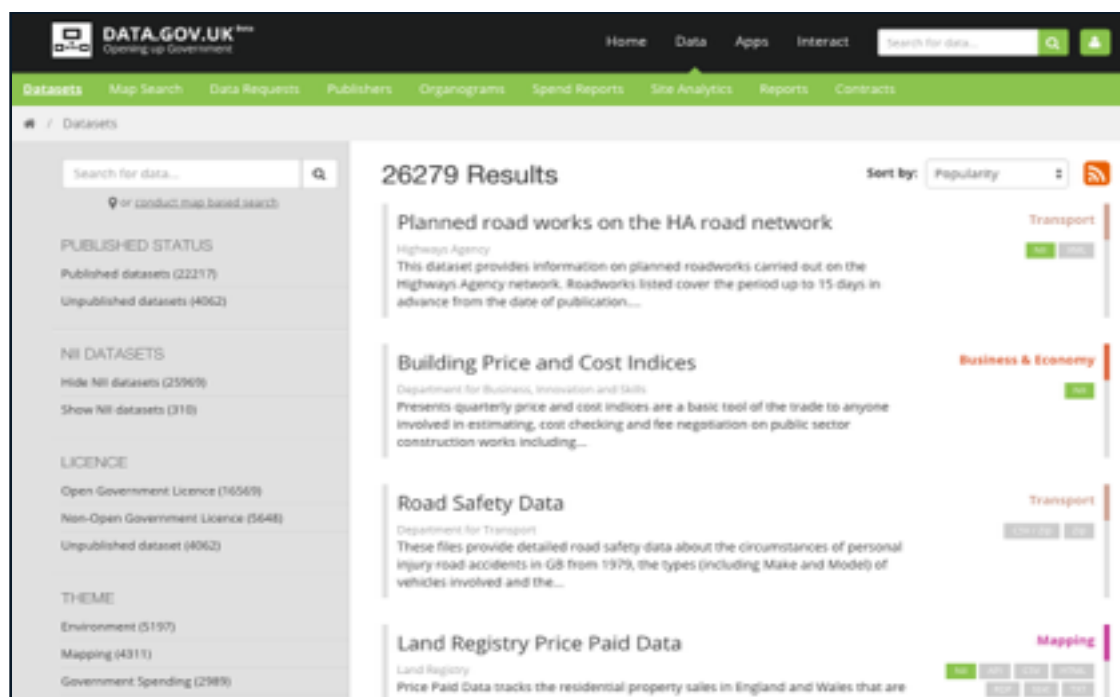
지하철



Australia
(<http://data.gov.au/>)



Japan
(<http://data.go.jp/>)



United Kingdom
(<http://data.gov.uk/>)



United States of America
(<http://www.data.gov/>)

PINOGIO Features?

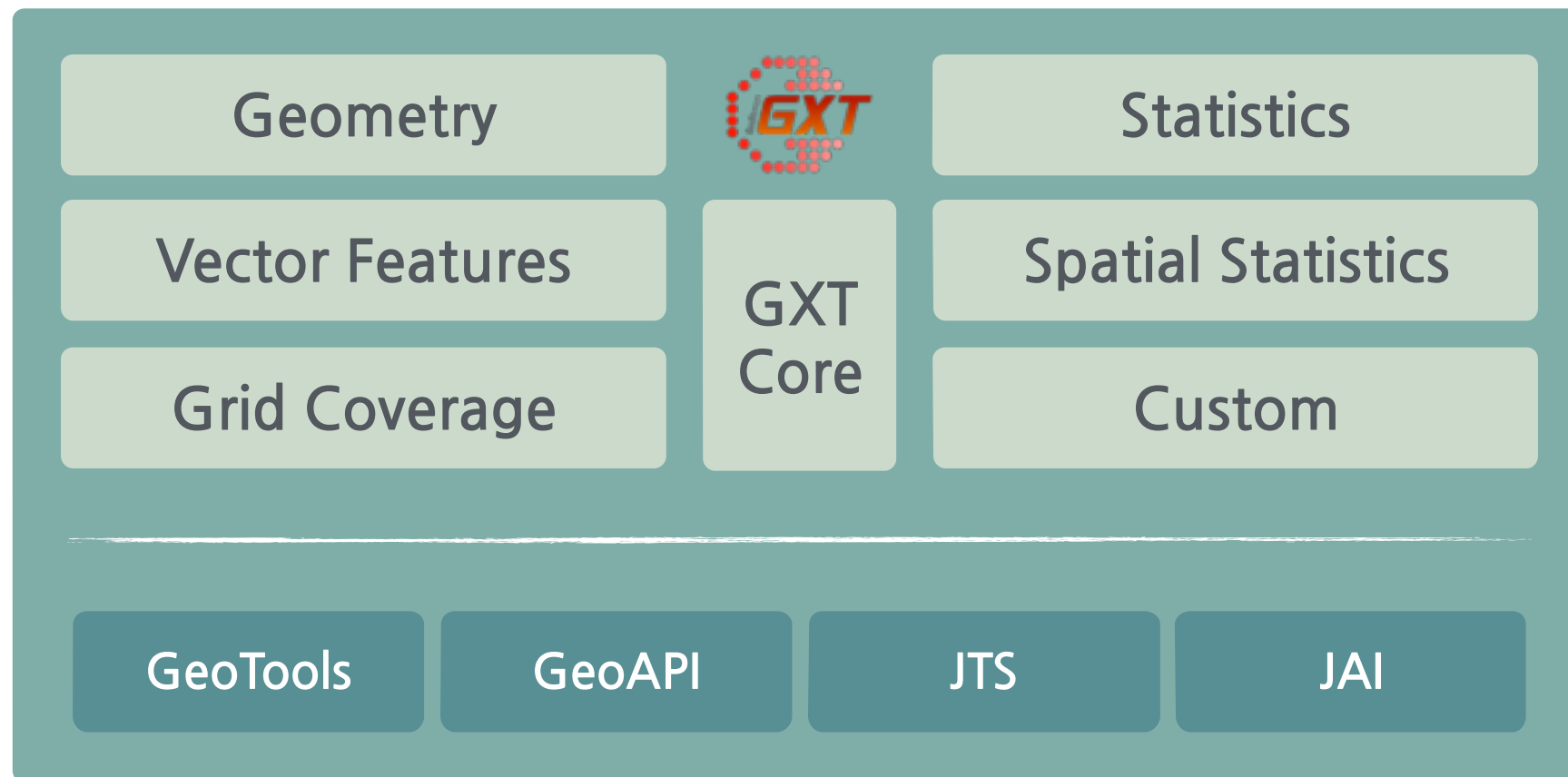
Open Source Stack

- PostgreSQL / PostGIS
- GXT Server (GeoServer WPS Extension)
- OpenLayers3 / Leaflet



#GXT

GXT (Geoprocessing Engine)

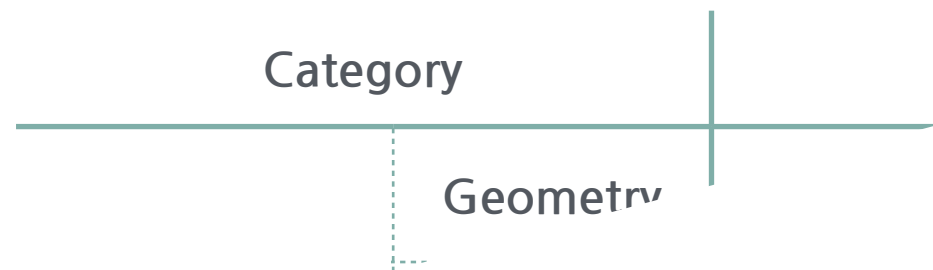


GXT (Geoprocessing Engine)

Category		Function
GXT Modules	Geometry	• Area, Buffer, Centroid, Distance, ManhattanDistance, Union
	Vector	• Overlay, Proximity, Calculation, Network
	Raster	• Surface, Interpolation, Density, Distance, Reclassification, Conversion
	Statistics	• Classification, Basic Statistics, Pearson, Regression
	Spatial Statistics	• Pattern(Moran's I, G-Statistics, Spatial LQ, Nearest Neighbor) • Distribution(Mean Center, Central Feature, Standard Distance, SDE) • Cluster(k-means)
	Custom	• Extension Data Store • Web KOPSS algorithm Support

GXT Online Documentation
(<http://gxt.mangosystem.com/>)

GXT (Geoprocessing Engine)



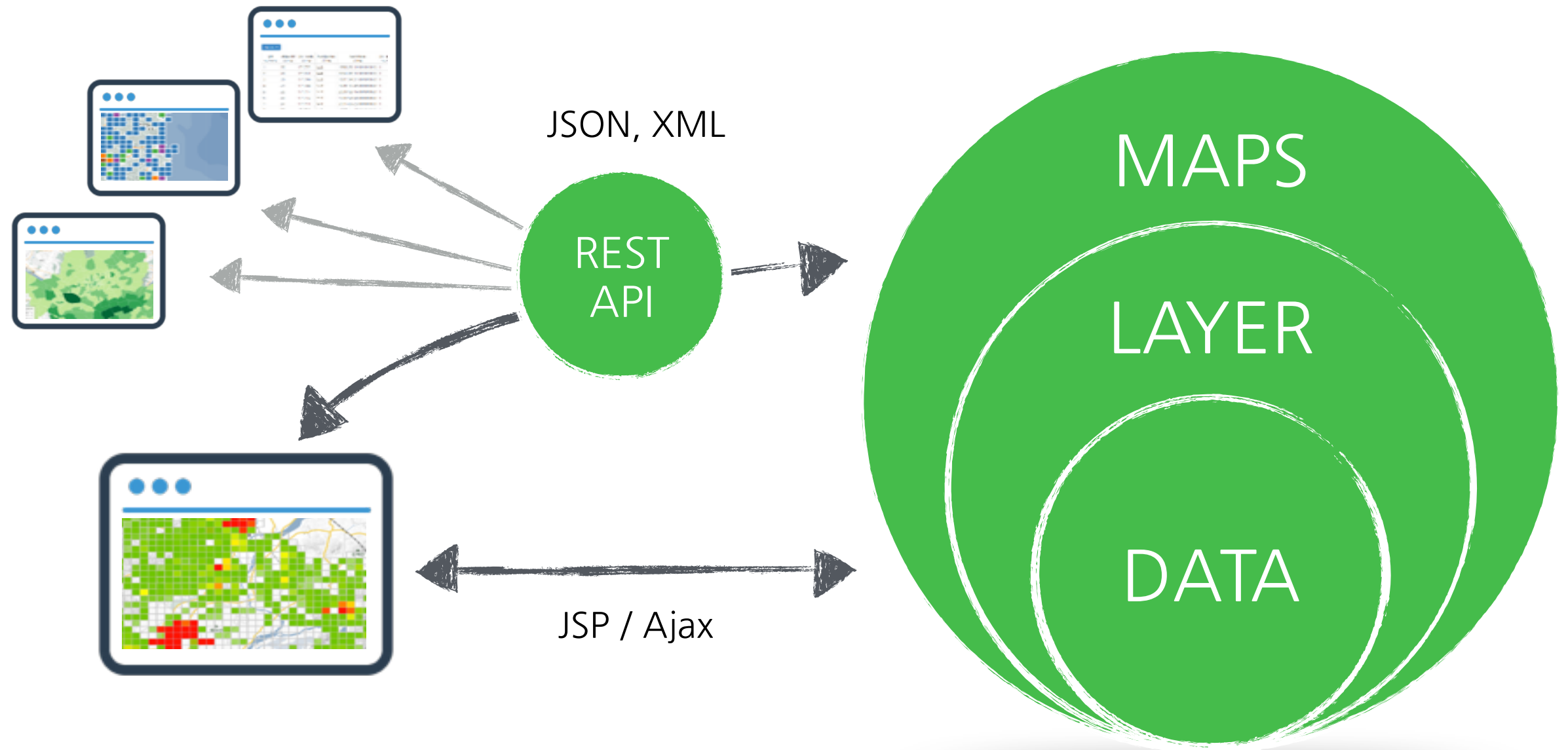
'GXT uDig ToolBox'
Free for Research and Education!!

uDig Plugin Update URL:
http://www.mangosystem.com:8080/gxt_updates

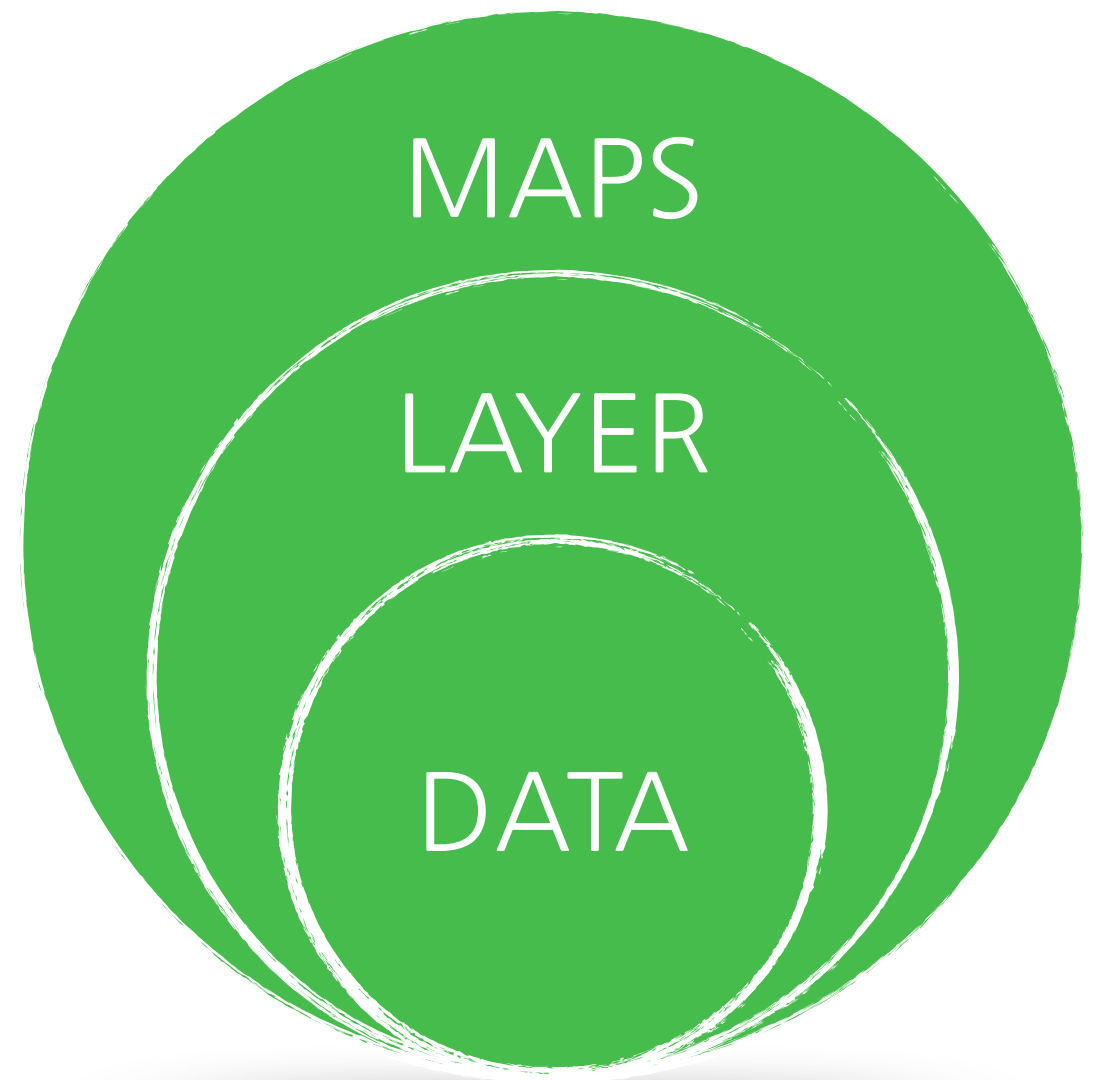
Data Store
Web KOPSS algorithm Support

GXT Online Documentation
(<http://gxt.mangosystem.com/>)

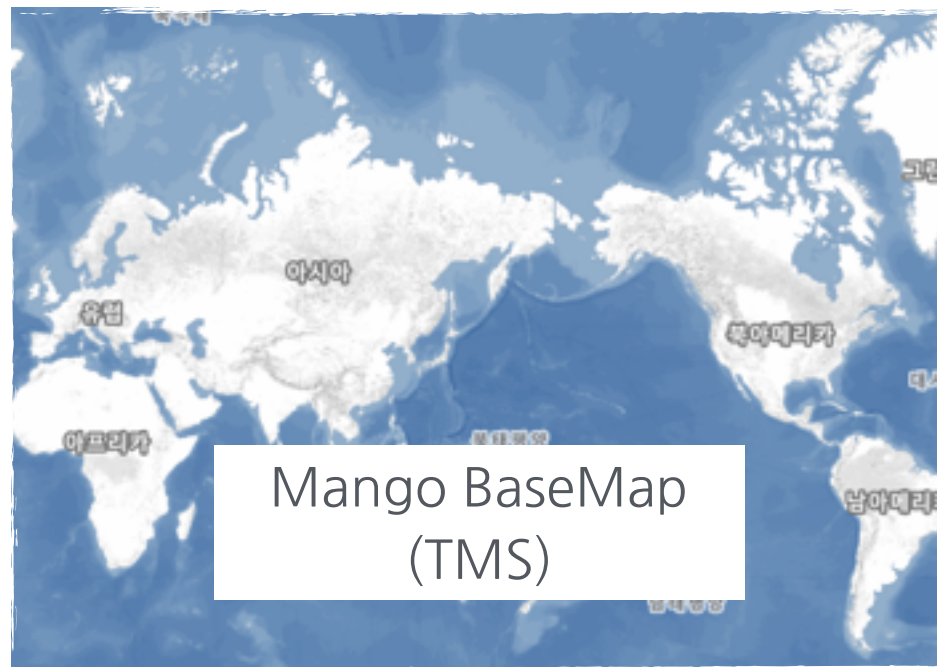
Service Category



Service Category



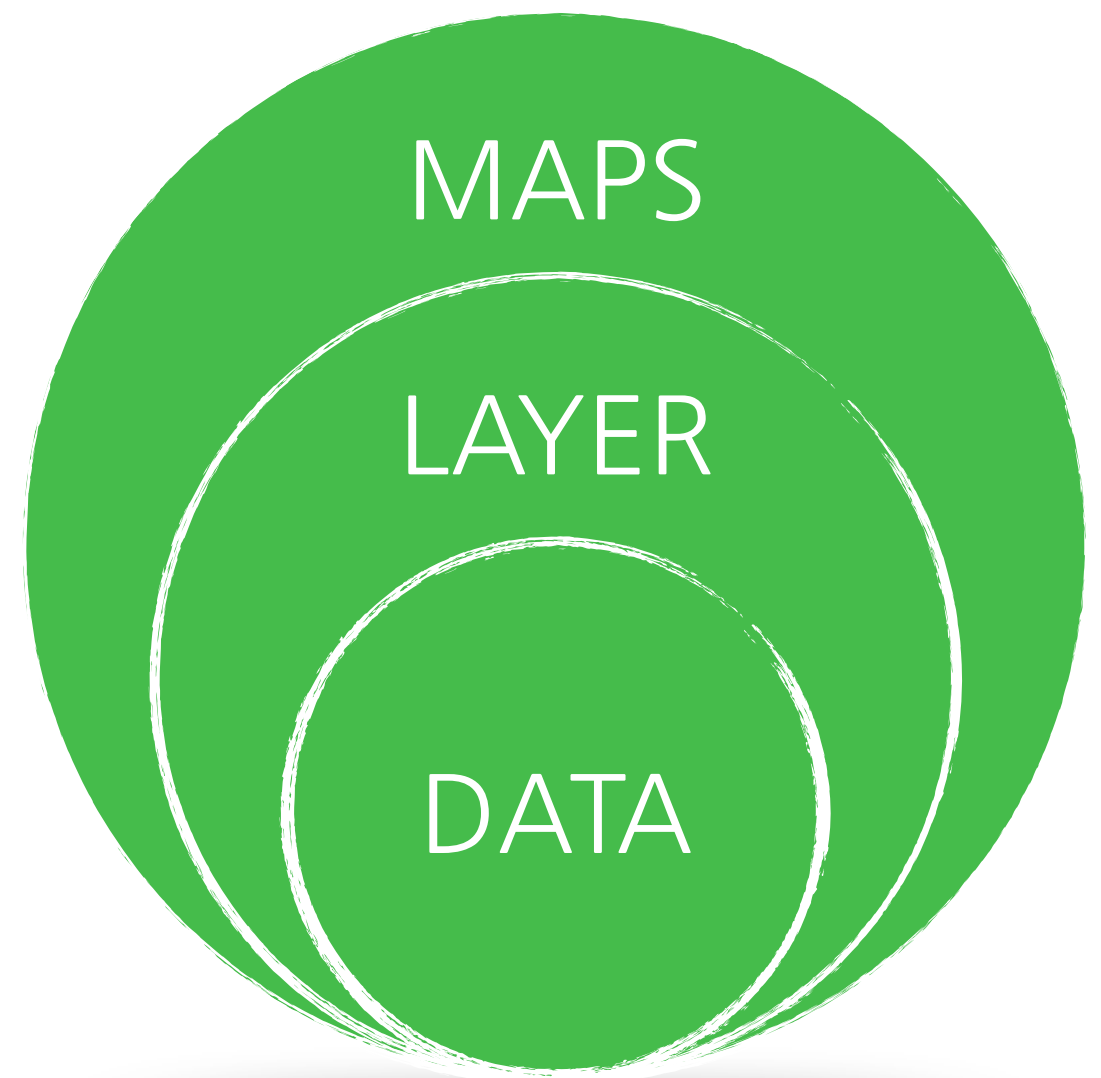
Mango BaseMap



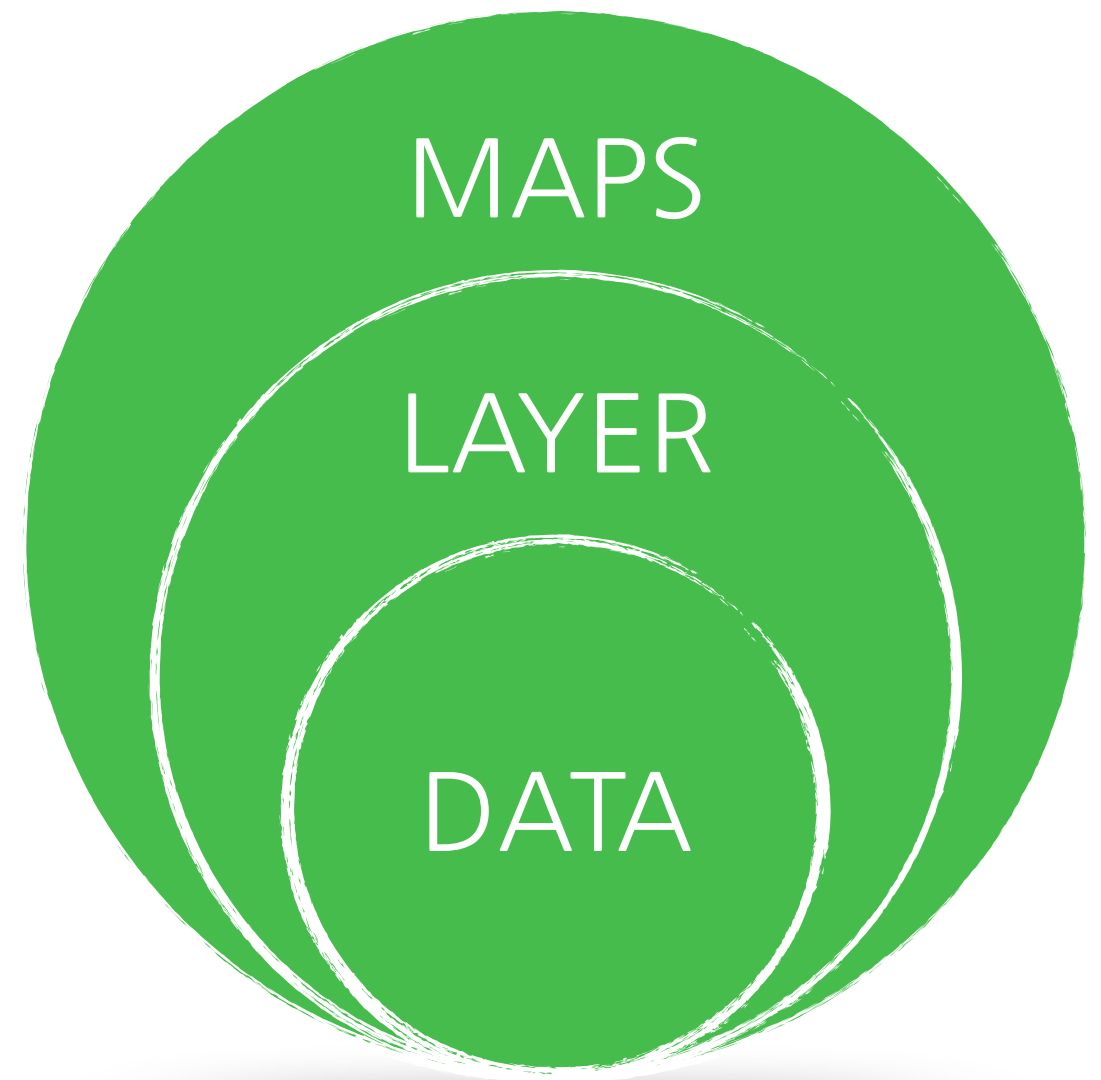
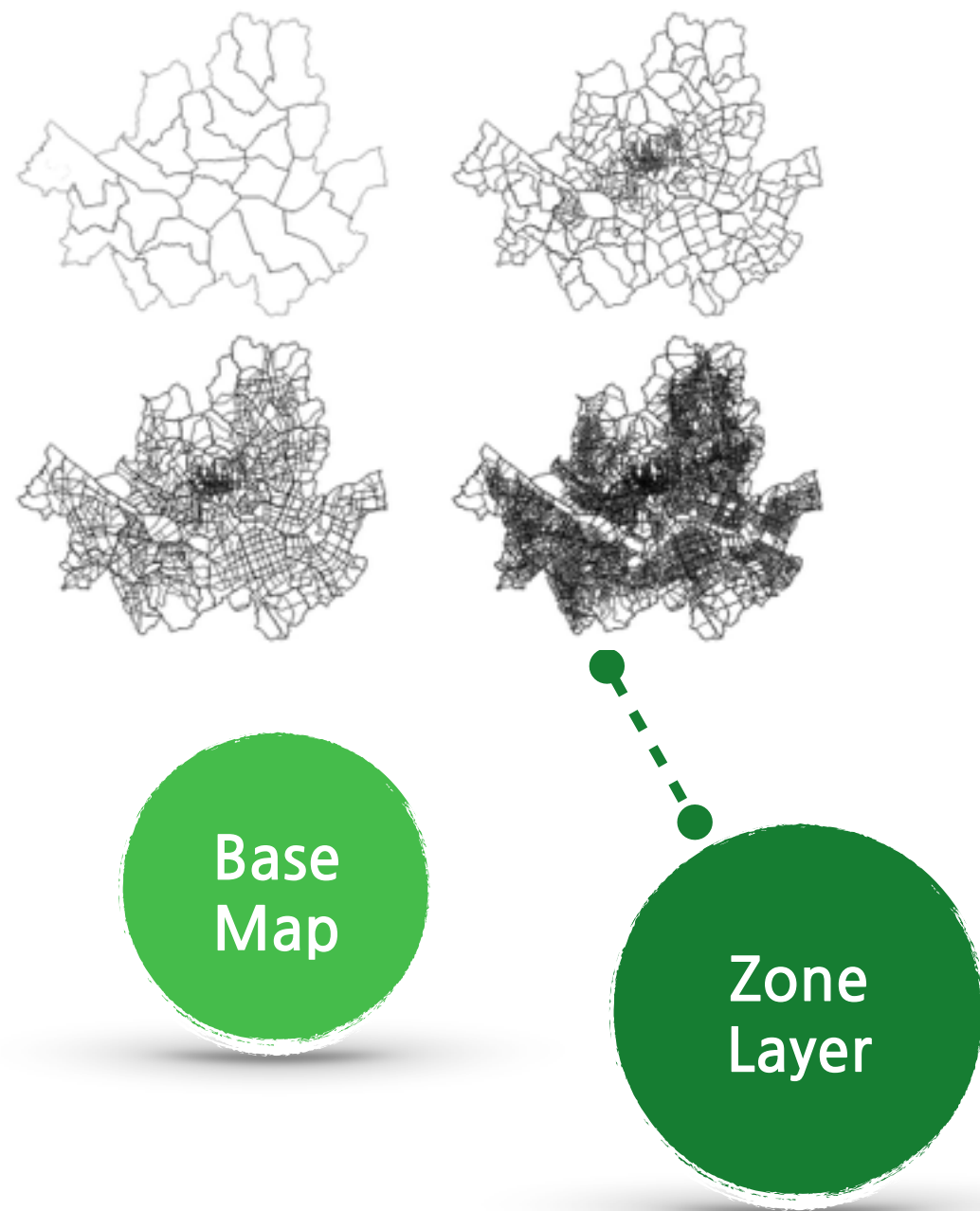
Physical, Gray, Black...

Base
Map

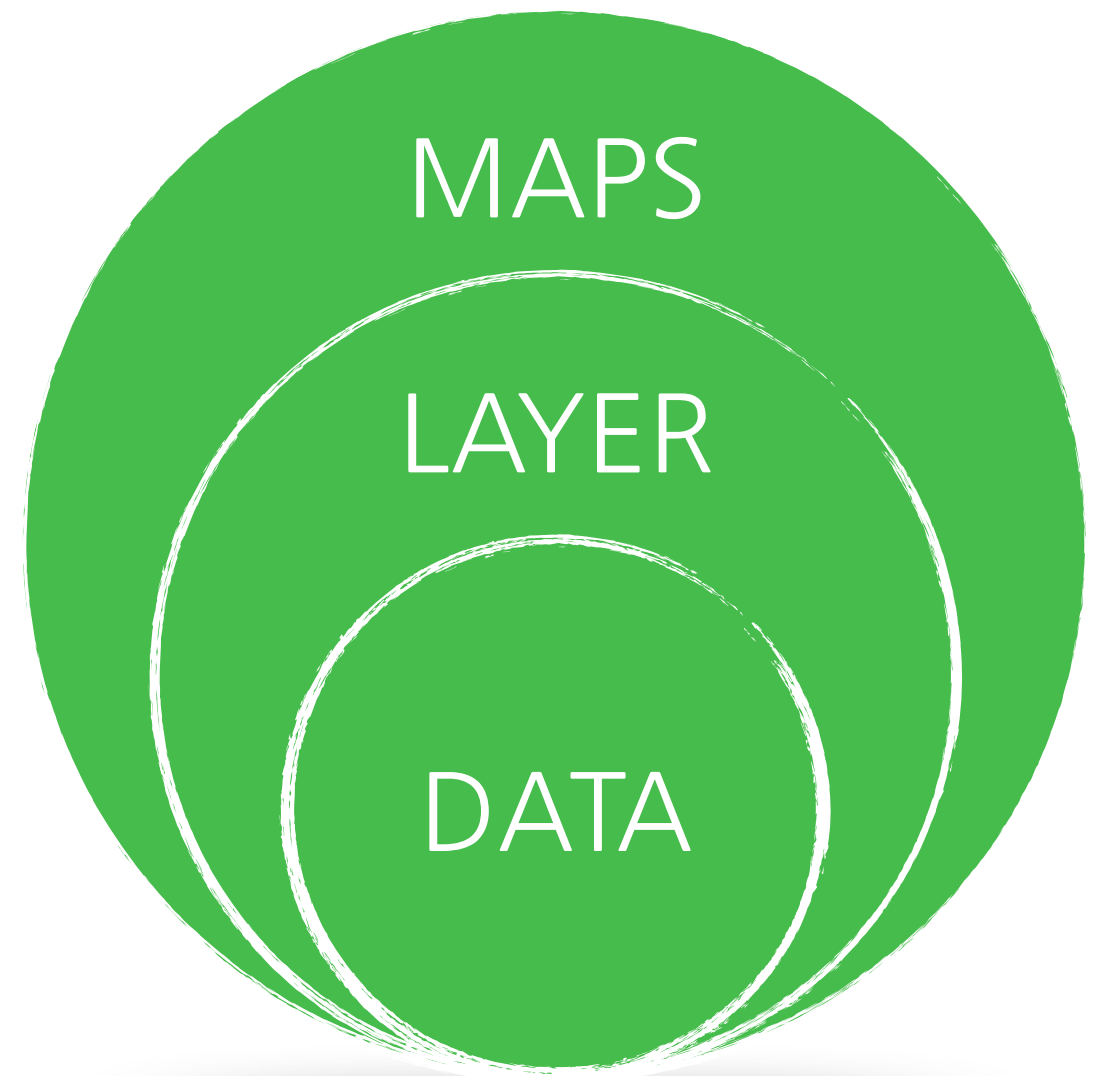
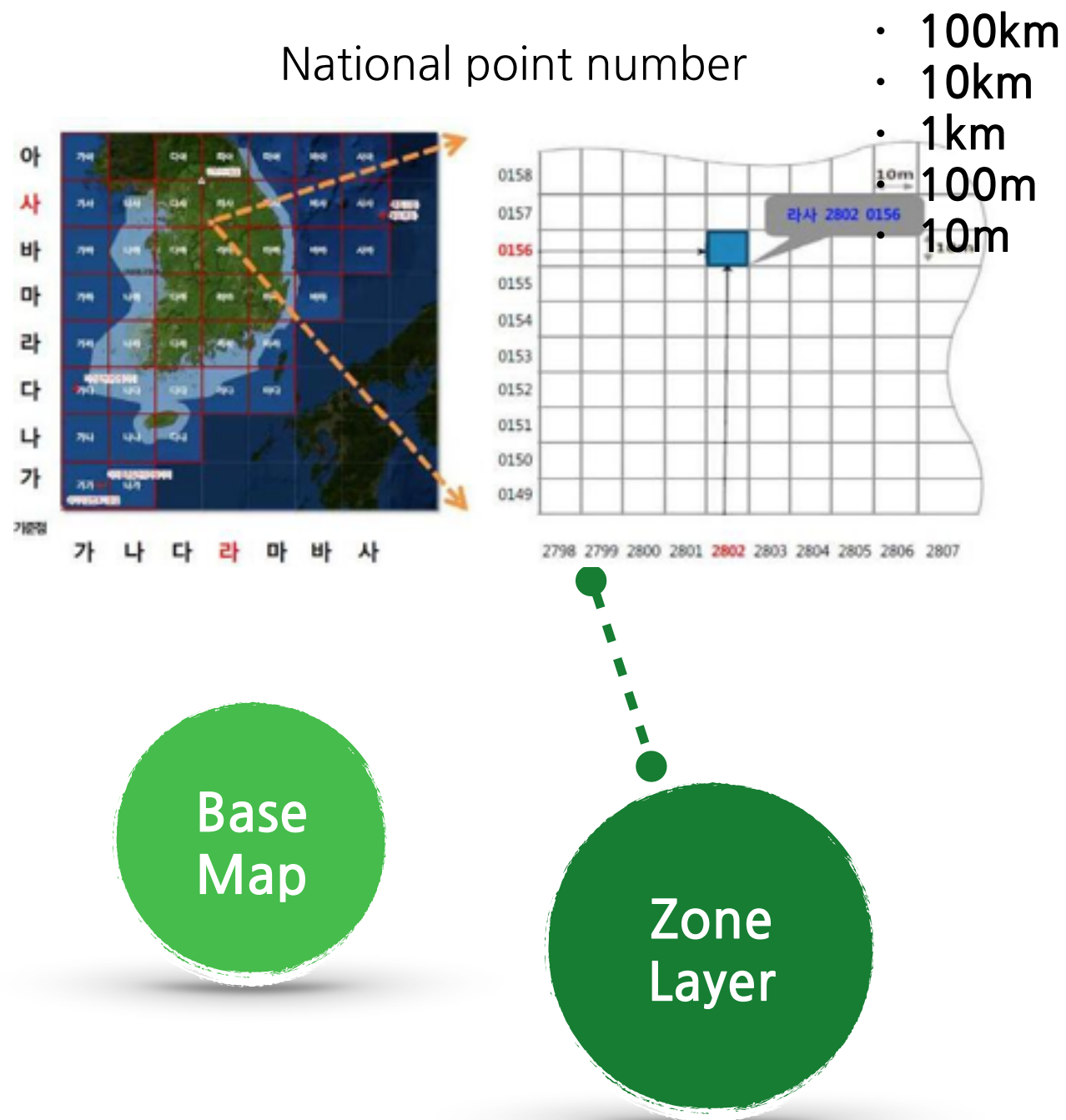
Zone
Layer



Zone(District) Layer



Zone(District) Layer

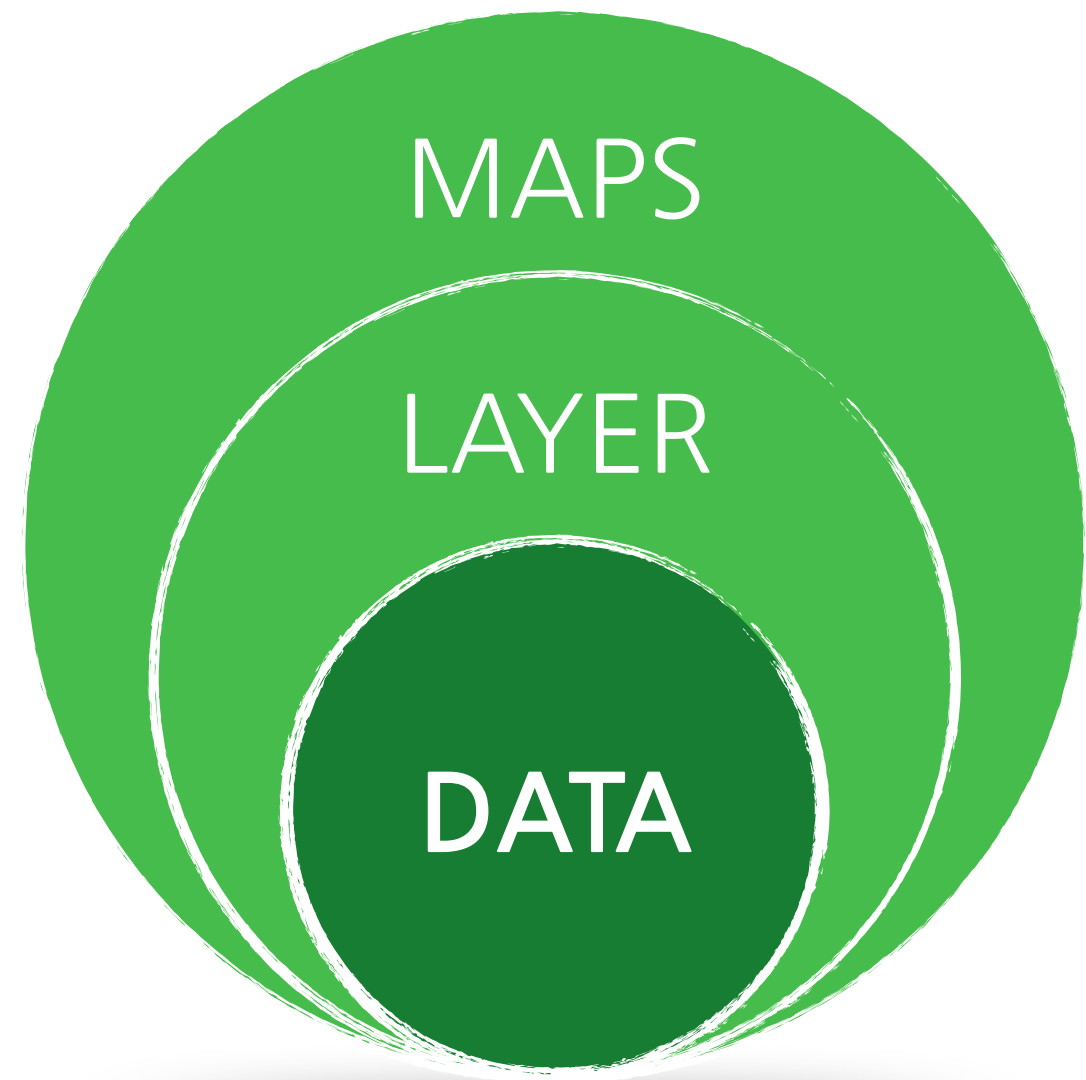




#DATA

#DATA

- Support Formats
 - Vector Formats
 - Raster Formats
- Transform support

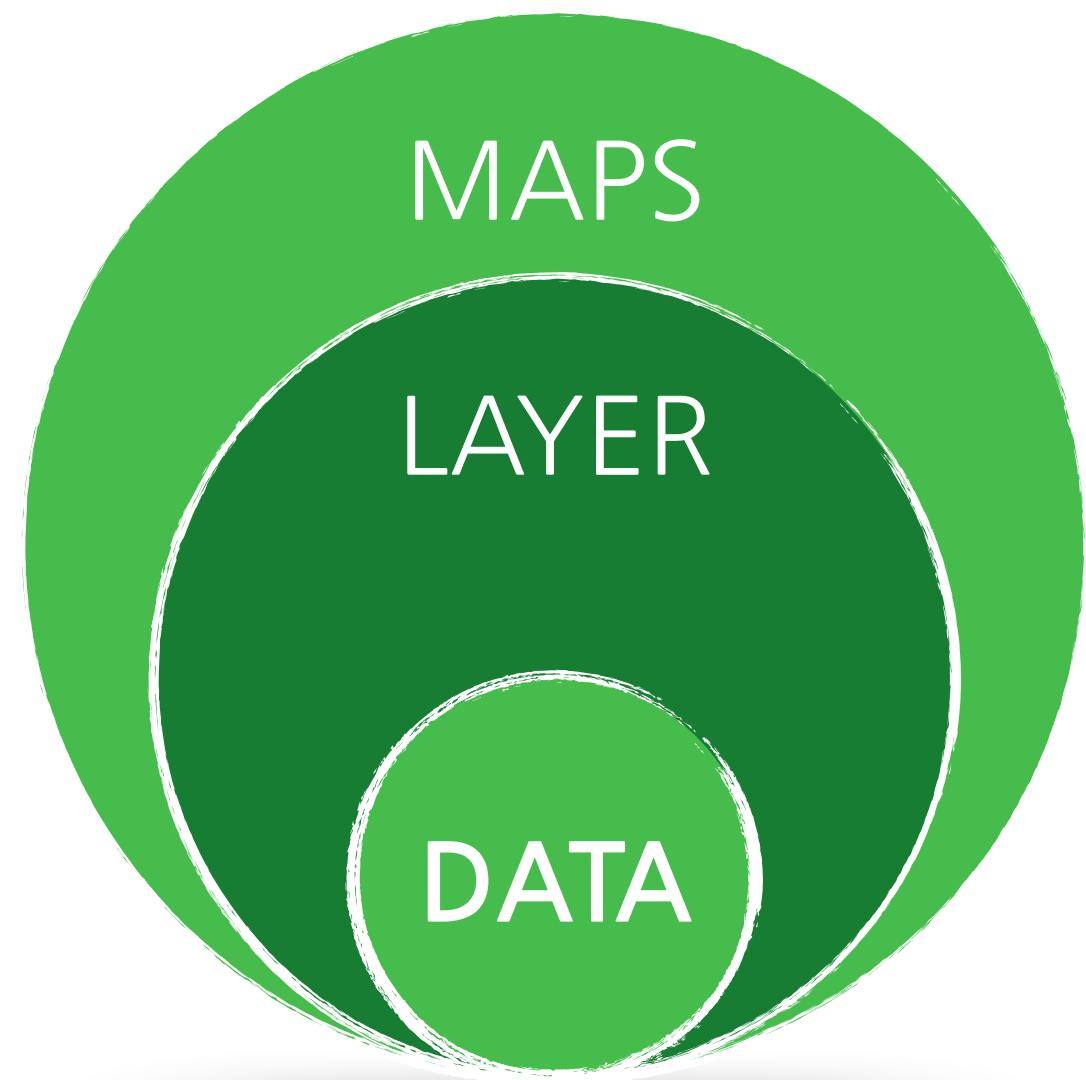




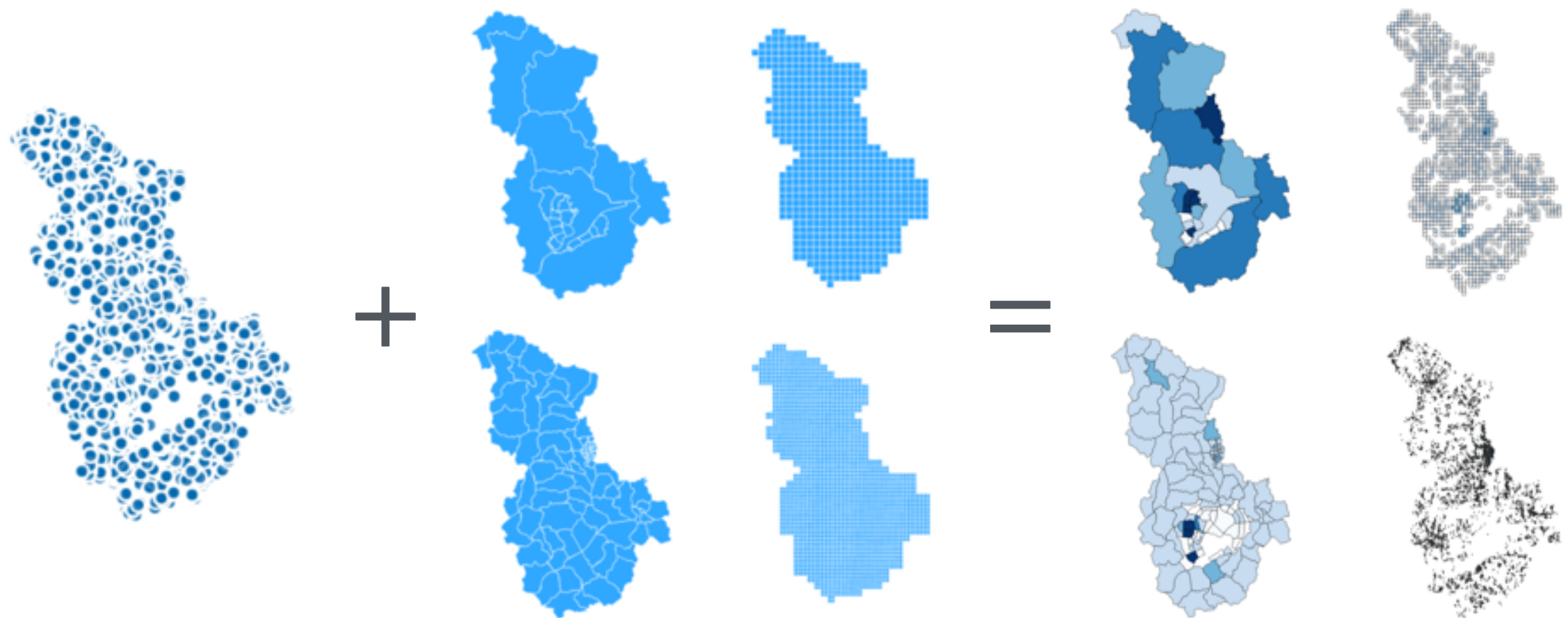
#LAYER

The First World Map of Korea +

#LAYER



Spatial Statistics



Population Cartogram

Sejong Metropolitan Autonomous City, South Korea
(<http://www.sejong.go.kr/stat.do>)

Fishnet / Hexagon

Hexagon Features



Australian Land Tenure 1993
(source : <http://data.gov.au/dataset>)

Fishnet Statistical Options

Fishnet Type: RECTANGLE (Default)

Width: 100000

Height: 100000

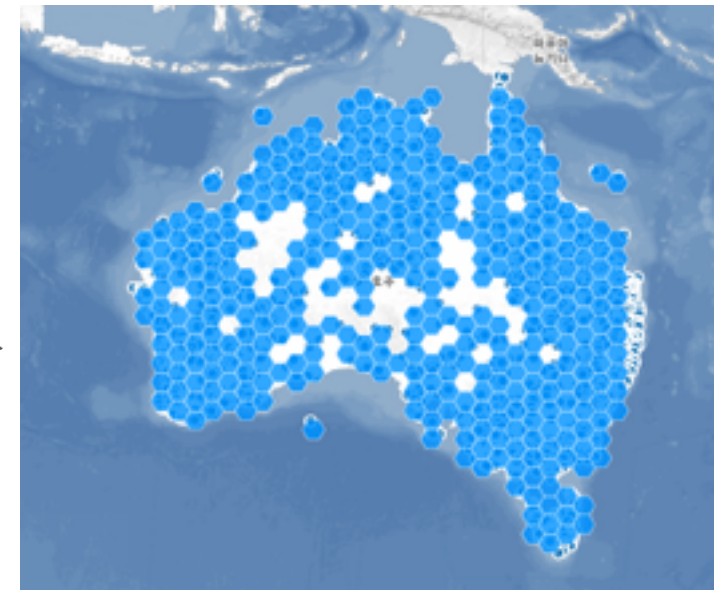
Boundary Inside: False (Default)

Columns: AREA

Statistics Function: Sum

Polygon Preview

Cancel Select



Hexagon Statistical Options

Radius - Side Length: 100000

Bounds Source: True (Default)

Orientation: FLAT (Default)

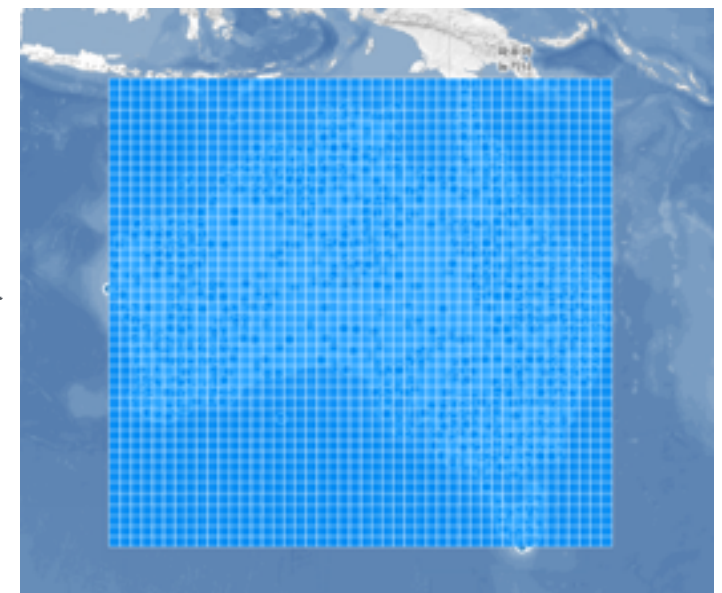
Columns: AREA

Statistics Function: Sum

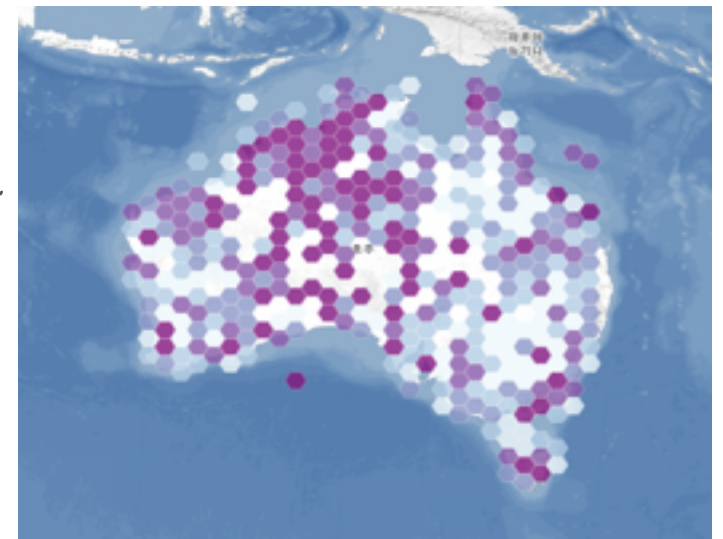
Polygon Preview

Cancel Select

Fishnet Features



Map Styling Library



Columns
SUM_AREA

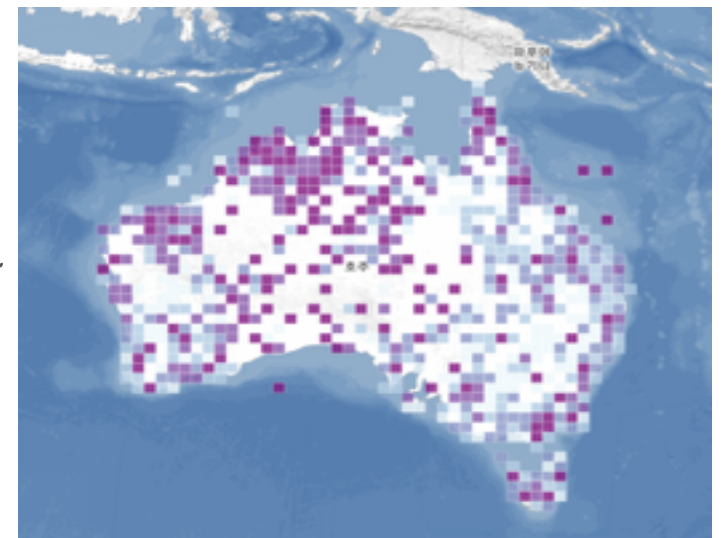
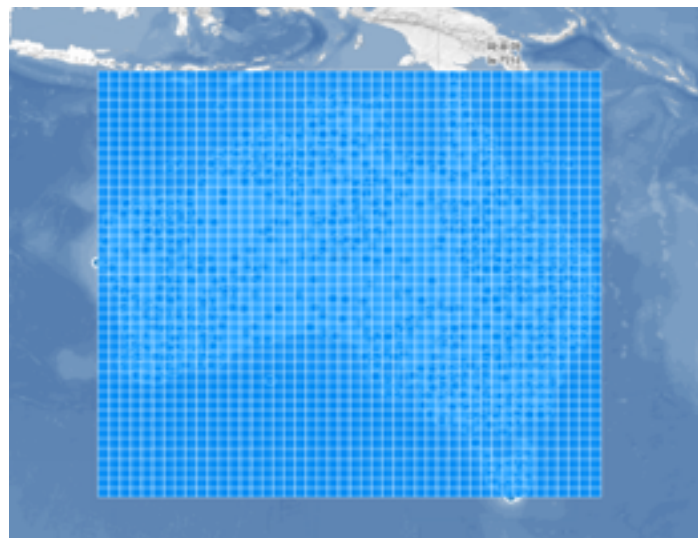
Classify Method
Quantile

Data Classes
5

Color Brewer
0.8

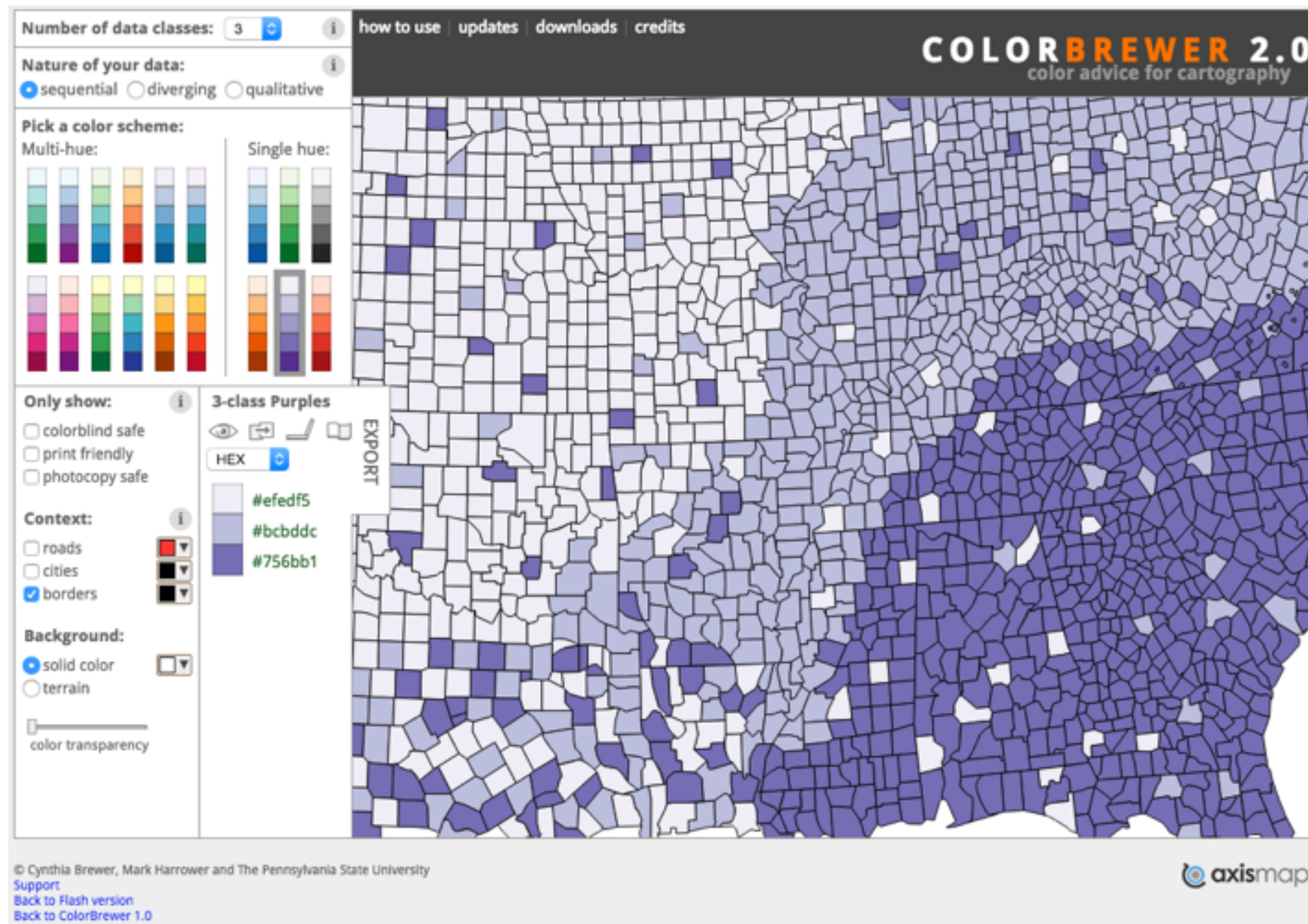
Stroke
1 0.2

적용



COLOR BREWER 2.0

<http://colorbrewer2.org>



pinoStyler.js

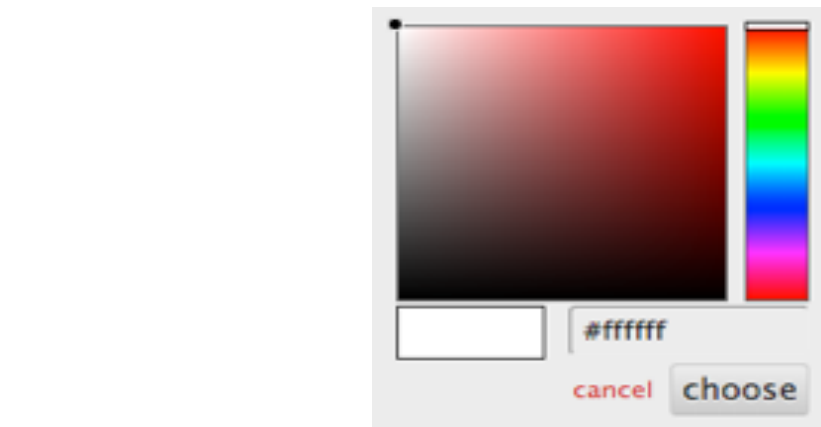


+



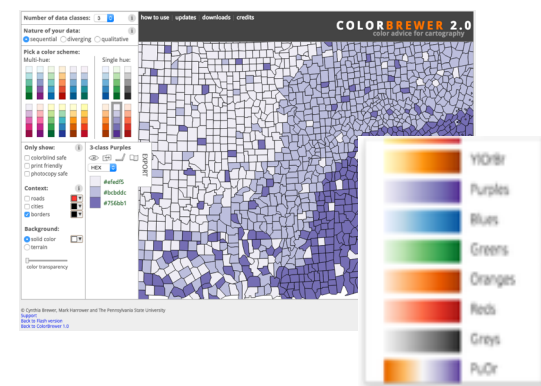
+

+



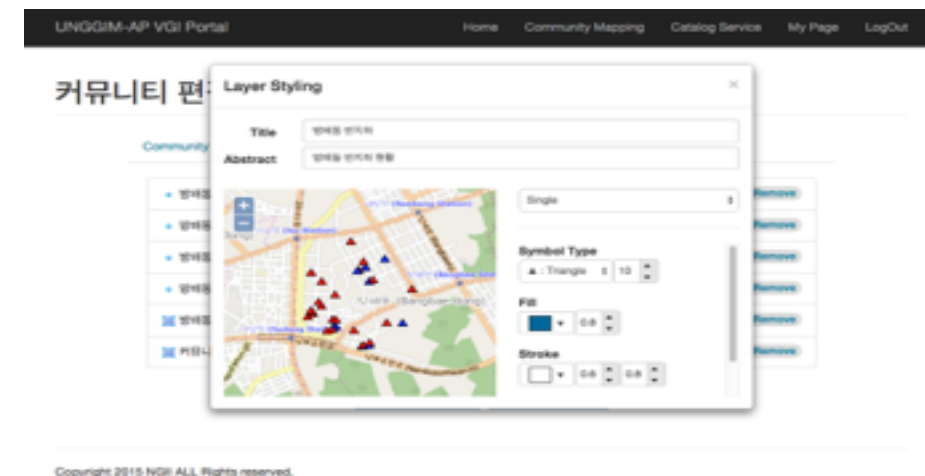
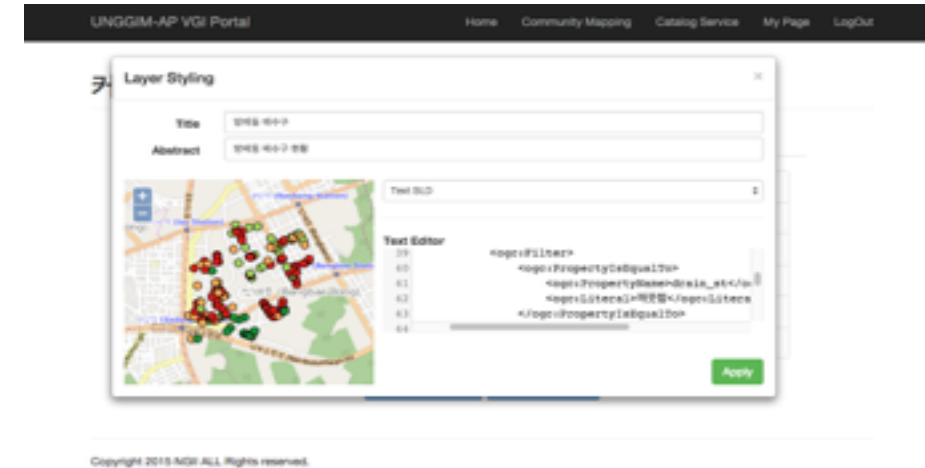
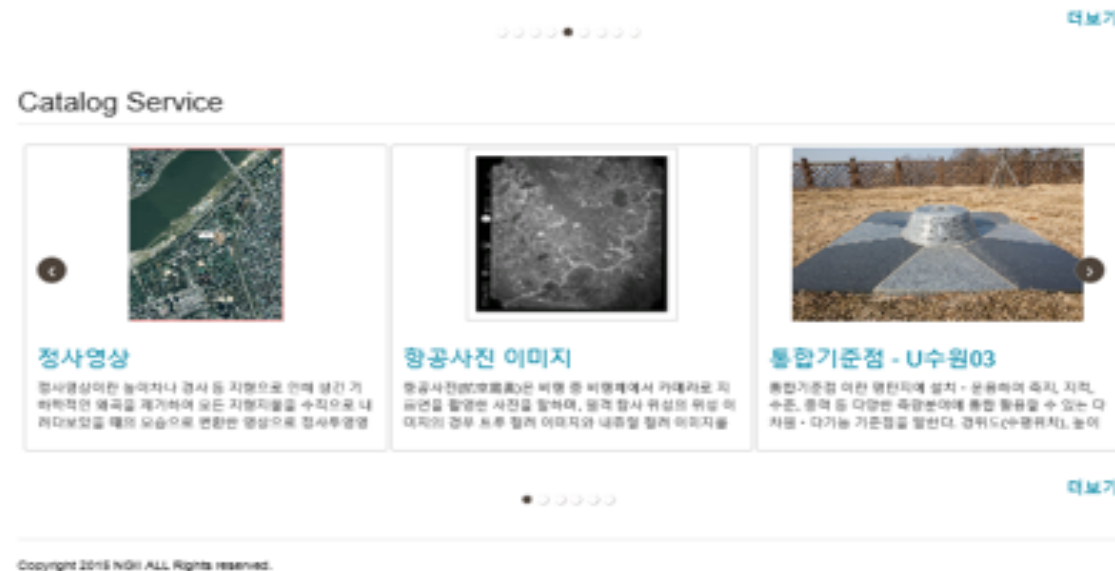
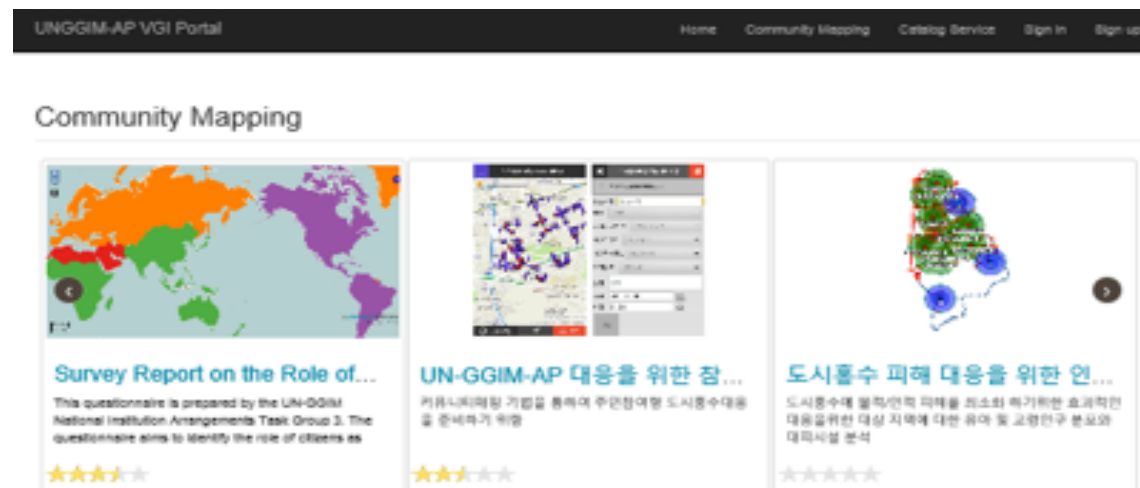
Spectrum
Colorpicker

+



Color Brewer 2.0

pinoStyler.js



UN-GGIM-AP VGI Portal
product by National Geographic Information Institute
(<http://www.ngii.go.kr>)

Major Dams of the States

fid: 27
statefp: 06
statens: 01779778
affgeoid: 0400000US06
geoid: 06
stusps: CA
name: California
lsad: 00
aland: -2147483648
awater: -2147483648
statistic_value: 689

Cartographic Boundary Shapefiles - States

The cartographic boundary files are simplified representations of selected geographic areas from the Census Bureau's MAF/TIGER geographic database. These boundary files are specifically designed for small scale thematic mapping.

Generalized boundary files are clipped to a simplified version of the U.S. outline. As a result, some off-shore areas may be excluded from the generalized files. For more details about these files, please see our [Cartographic Boundary File Description page](#).

2014 2013 2010 Census Census 2000 1990 Census

2014

File Naming Convention:

cb_2014_us_state_rr.zip,
where rr is the resolution level:

- 500k = 1:500,000
- 5m = 1:5,000,000
- 20m = 1:20,000,000

Download:

[cb_2014_us_state_500k.zip](#)
[cb_2014_us_state_5m.zip](#)
[cb_2014_us_state_20m.zip](#)

Major Dams of the United States - Direct Download

U.S. Geological Survey, Department of the Interior – This map layer portrays major dams of the United States, including Puerto Rico and the U.S. Virgin Islands. The map layer was created by extracting dams 50 feet or...

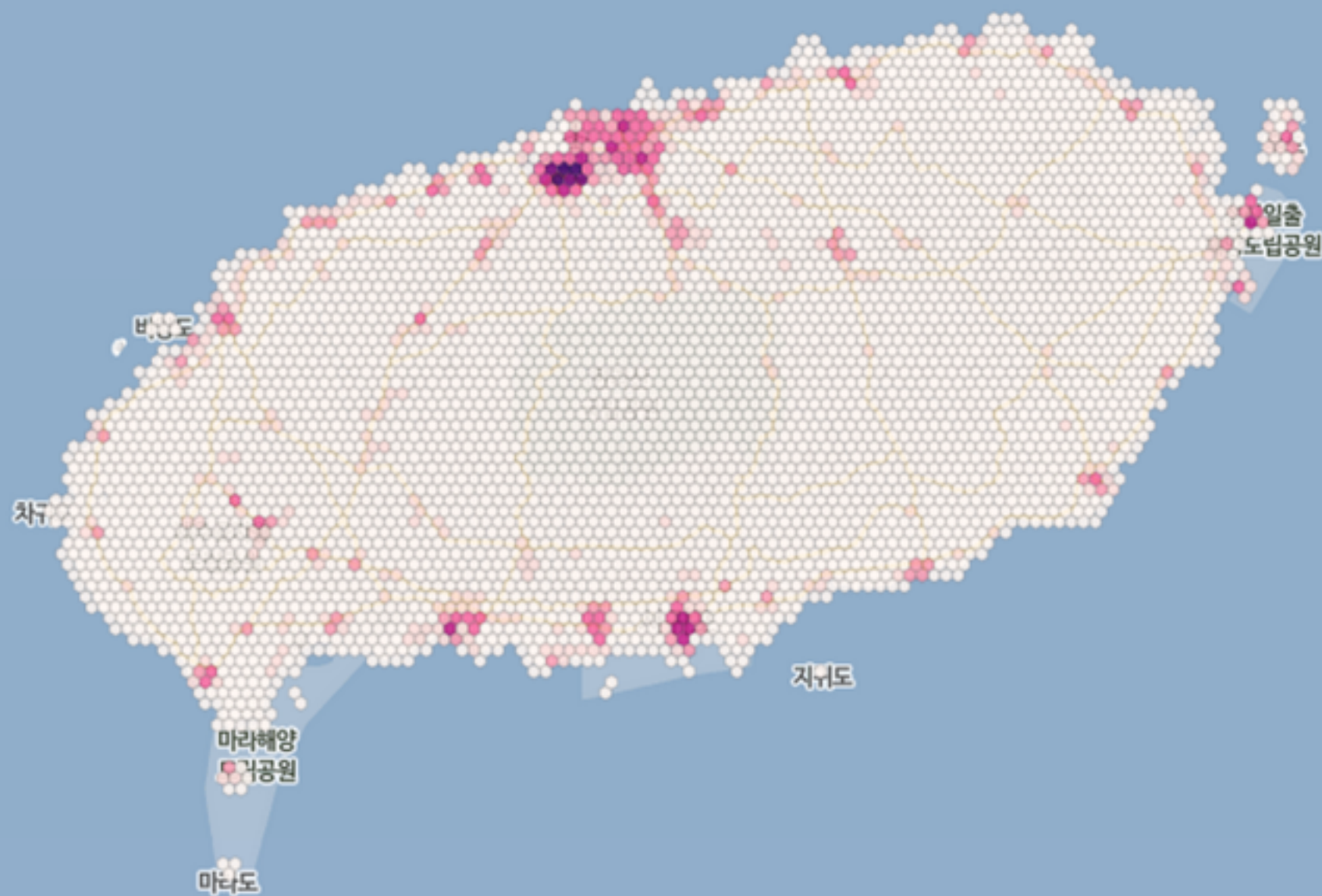
TAR TAR

Legend

0.0 - 23.0
23.0 - 73.0
73.0 - 140.0
140.0 - 188.0
188.0 - 244.0
244.0 - 381.0
381.0 - 689.0

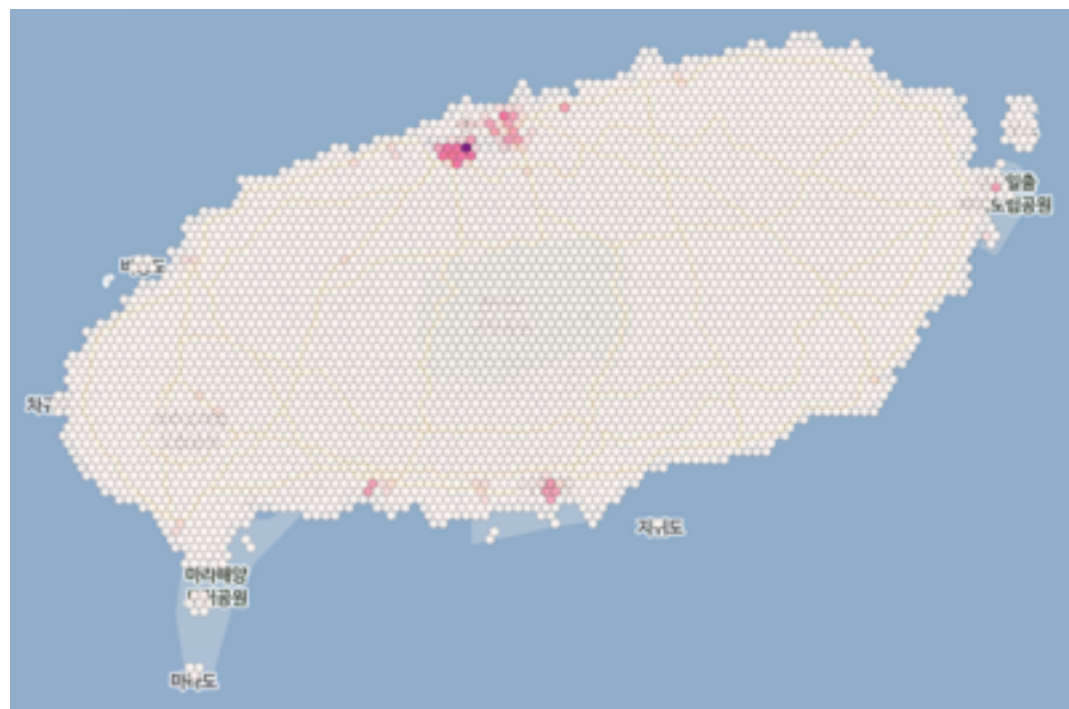
Jeju Island Floating Population

July 2015 PM 3:00~4:00 (Cloud)

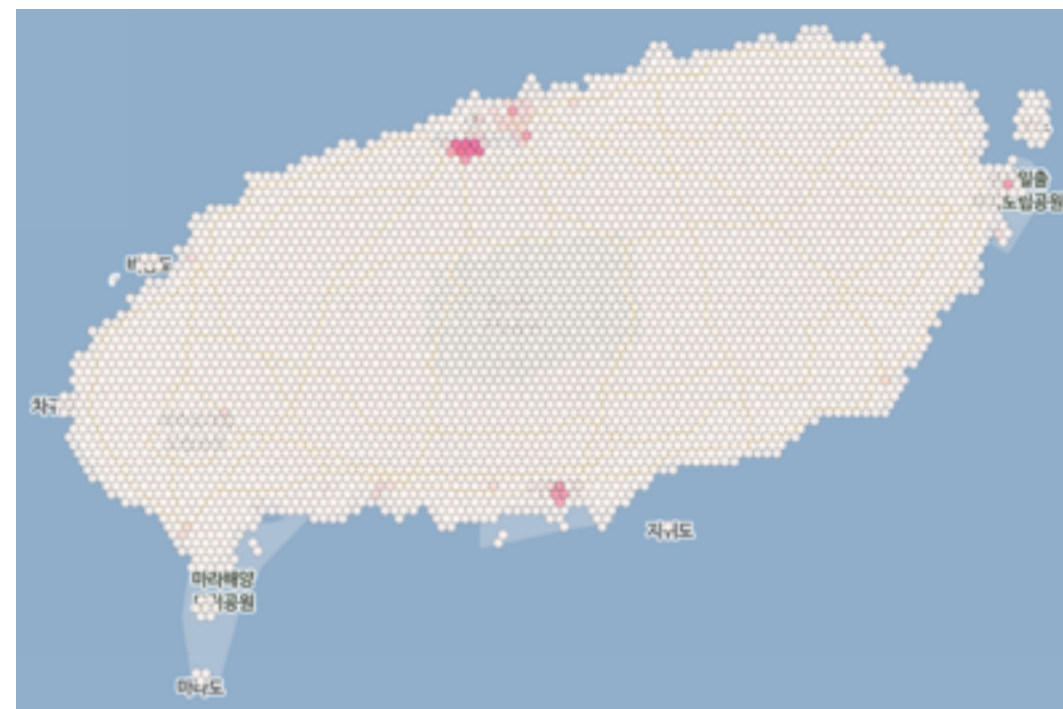


Legend

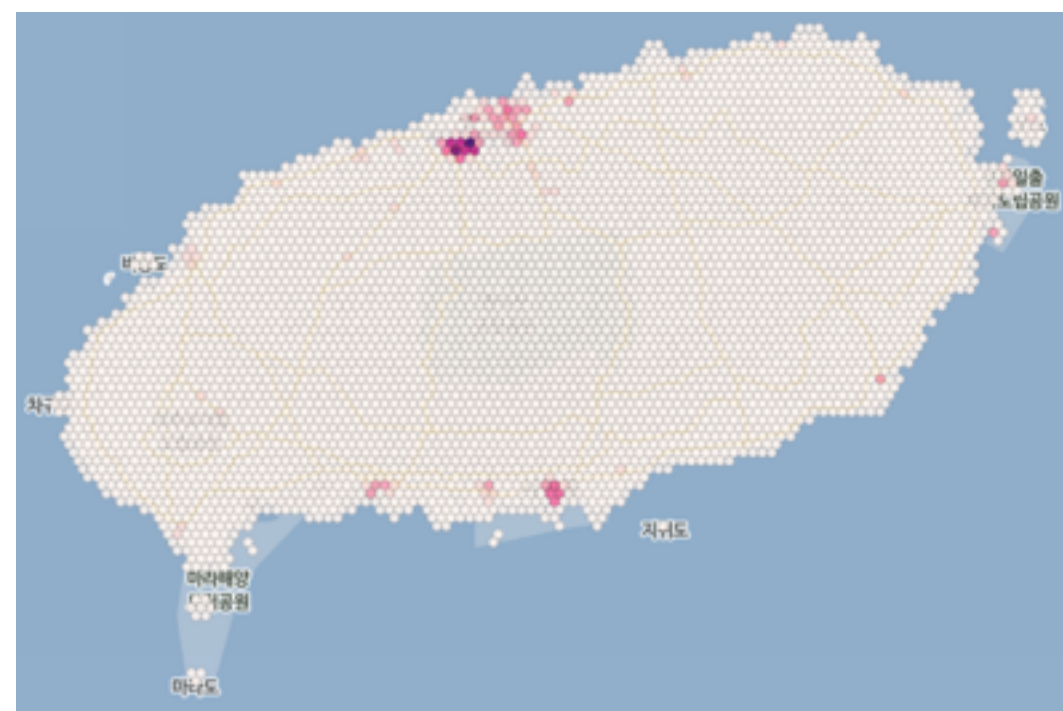
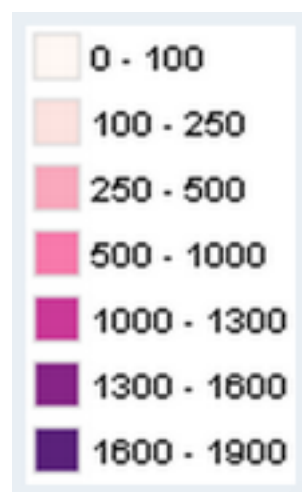




Rainy day



Cloudy day



Sunny day

#MAPS

Stack of Hands

MAPS Template



Simple - Top



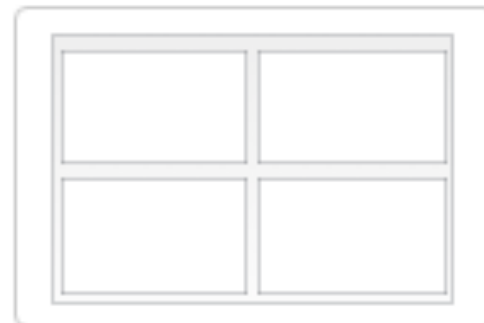
Simple - Bottom



Simple - Left



Simple - Right



.....

Exit

Save

Metadata Settings

Title

Title your maps

Description

Description your maps

Tags

Add layers

◦ OpenStreetMap - Standard

Add

Map options

Title

ON

Description

ON

Zoom Controls

ON

Fullscreen

OFF

Wheel zoom

OFF

Fixed Bounds

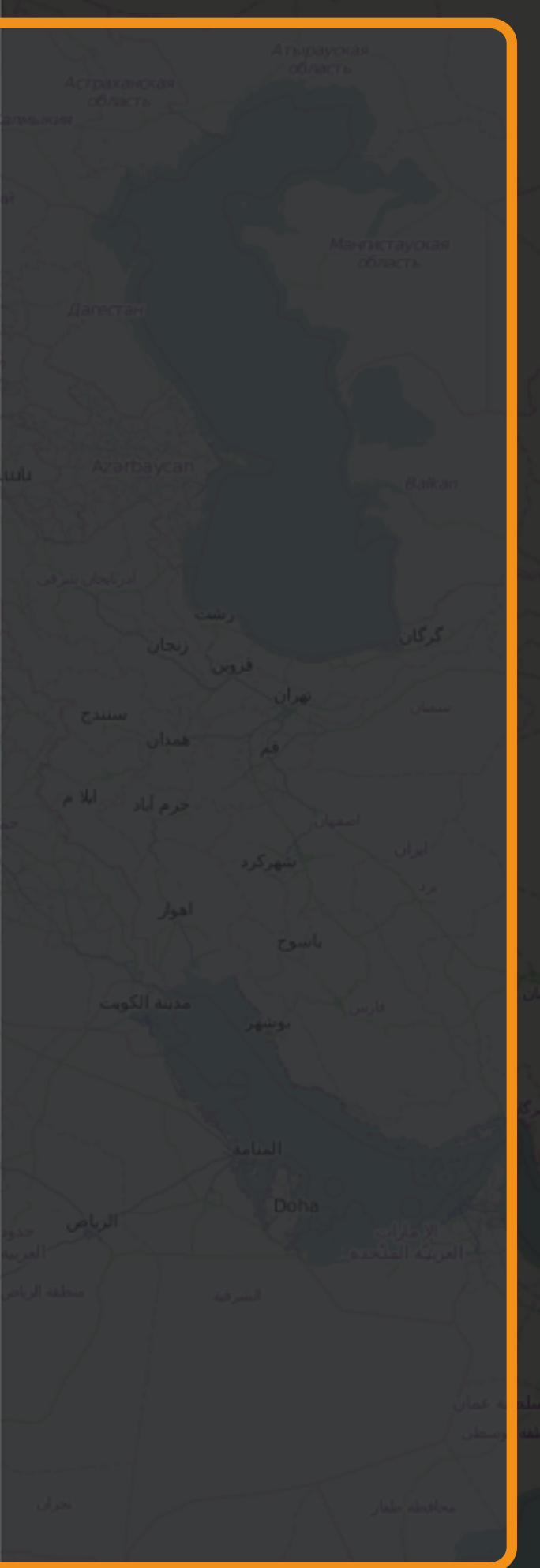
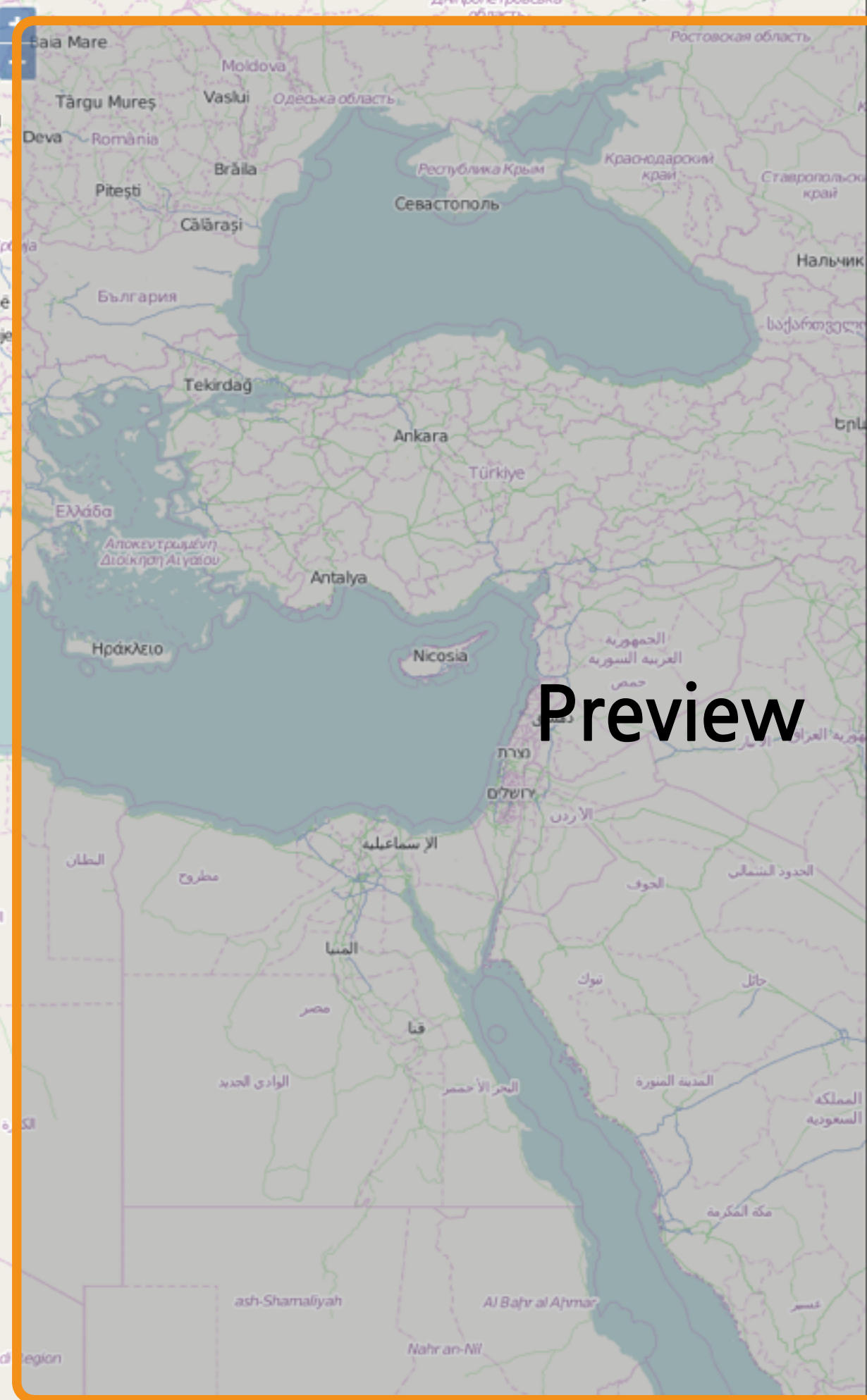
OFF

Legends

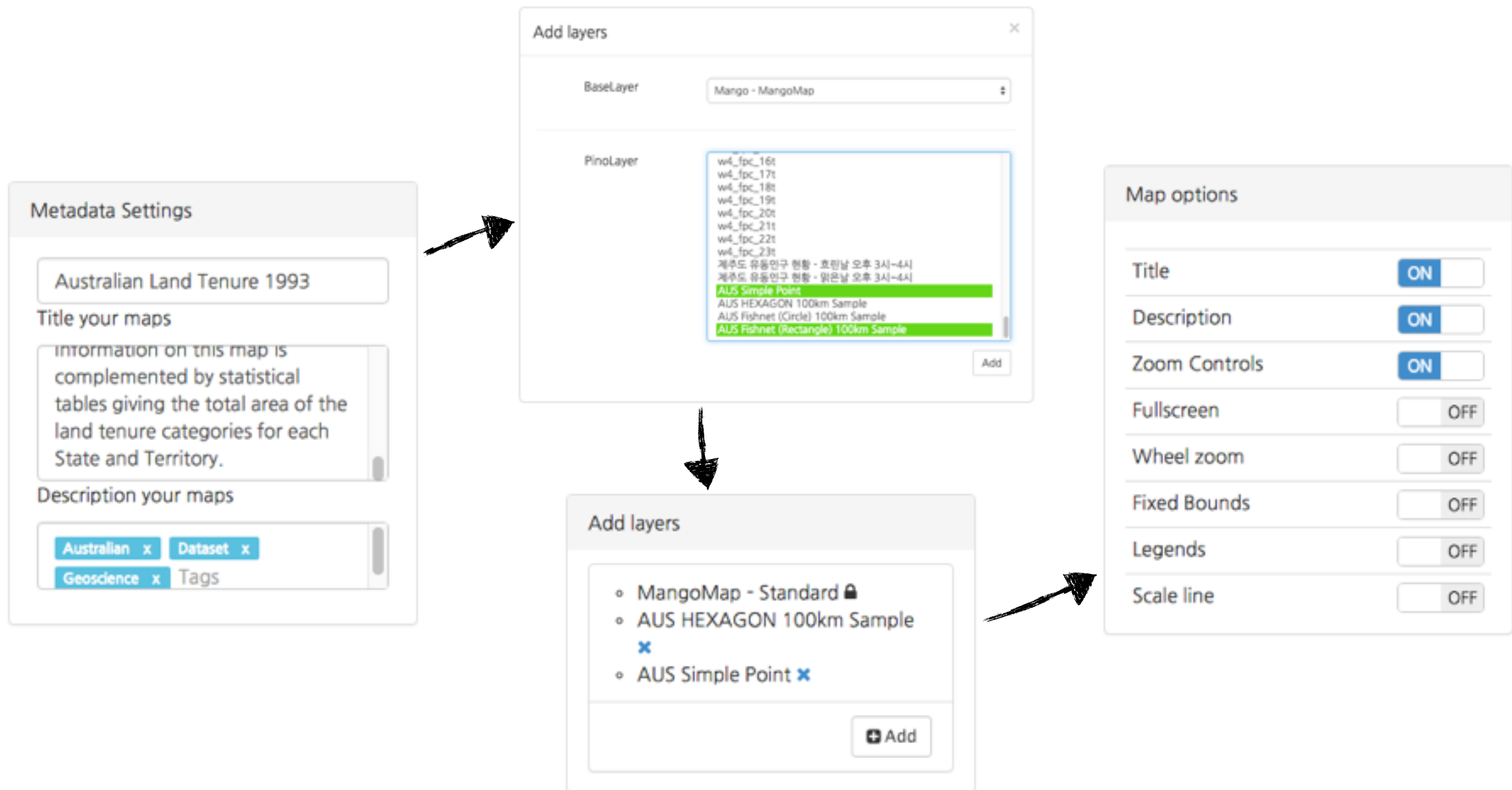
OFF

Scale line

OFF



MAPS Contents



[Exit](#)[Save](#)

Metadata Settings

Australian Land Tenure 1993

Title your maps

this map is complemented by statistical tables giving the total area of the land tenure categories for each State and Territory.

Description your maps

[Australian](#) x[Dataset](#) x[Geoscience](#) x[FOSS4G](#) x

Add layers

- [MangoMap - Standard](#)
- [AUS HEXAGON 100km Sample](#) x
- [AUS Fishnet \(Circle\) 100km Sample](#) x

[+ Add](#)

Map options

Title ☒

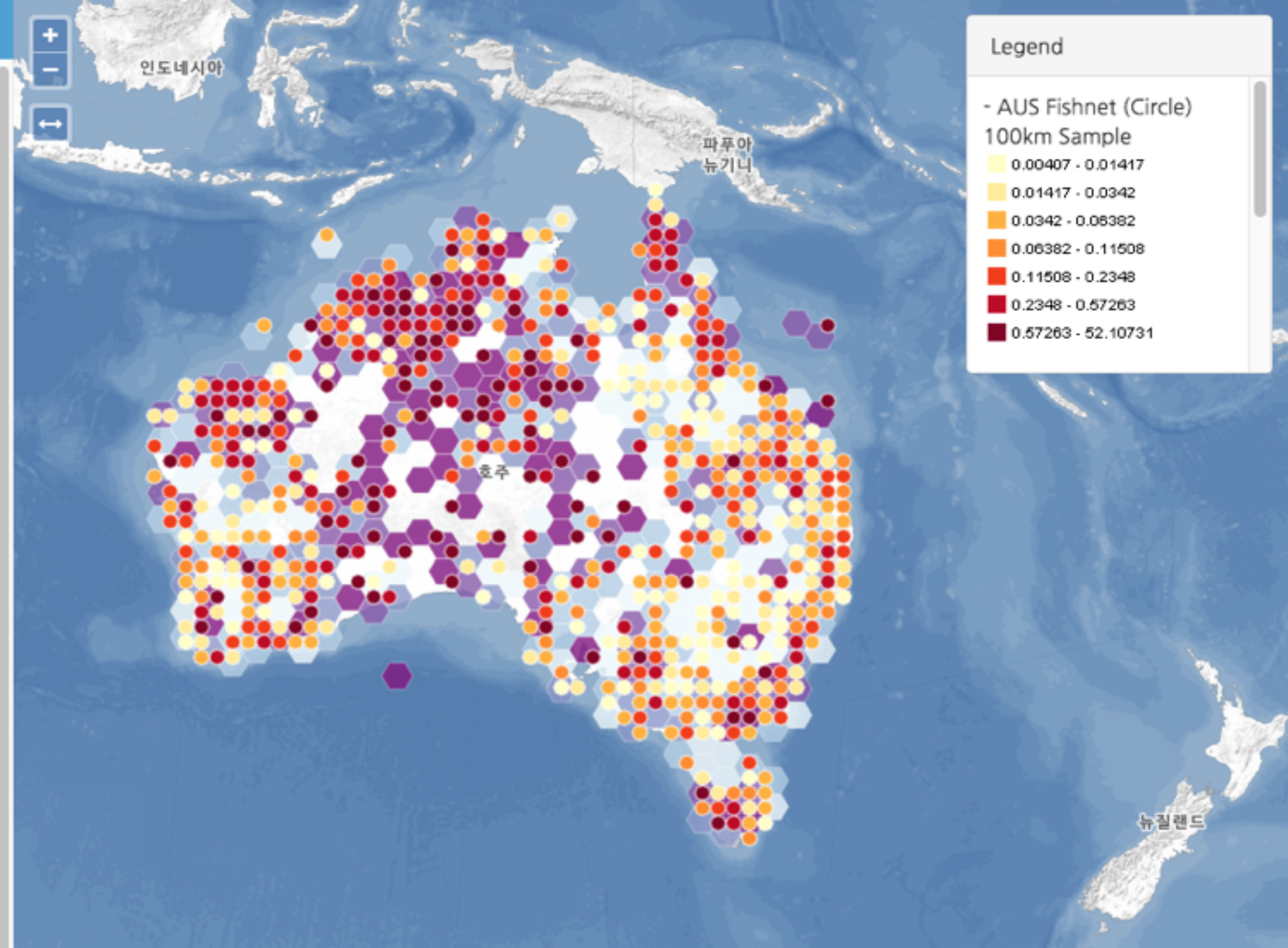
Description ☒

Zoom Controls ☒

Fullscreen ☒

Wheel zoom ☐ OFF

Fixed Bounds ☐ OFF



Australian Land Tenure 1993

Contains boundary and attribute information for parcels of public, private and Aboriginal lands in Australia. Data are sourced primarily from government gazette notices, cadastral maps and plans. A nominal scale of around 1:5 million and a minimum 50 square kilometre threshold limit for land parcels was used in the generalisation of this product from the National Public and Aboriginal Lands data. Data is suitable for GIS applications.

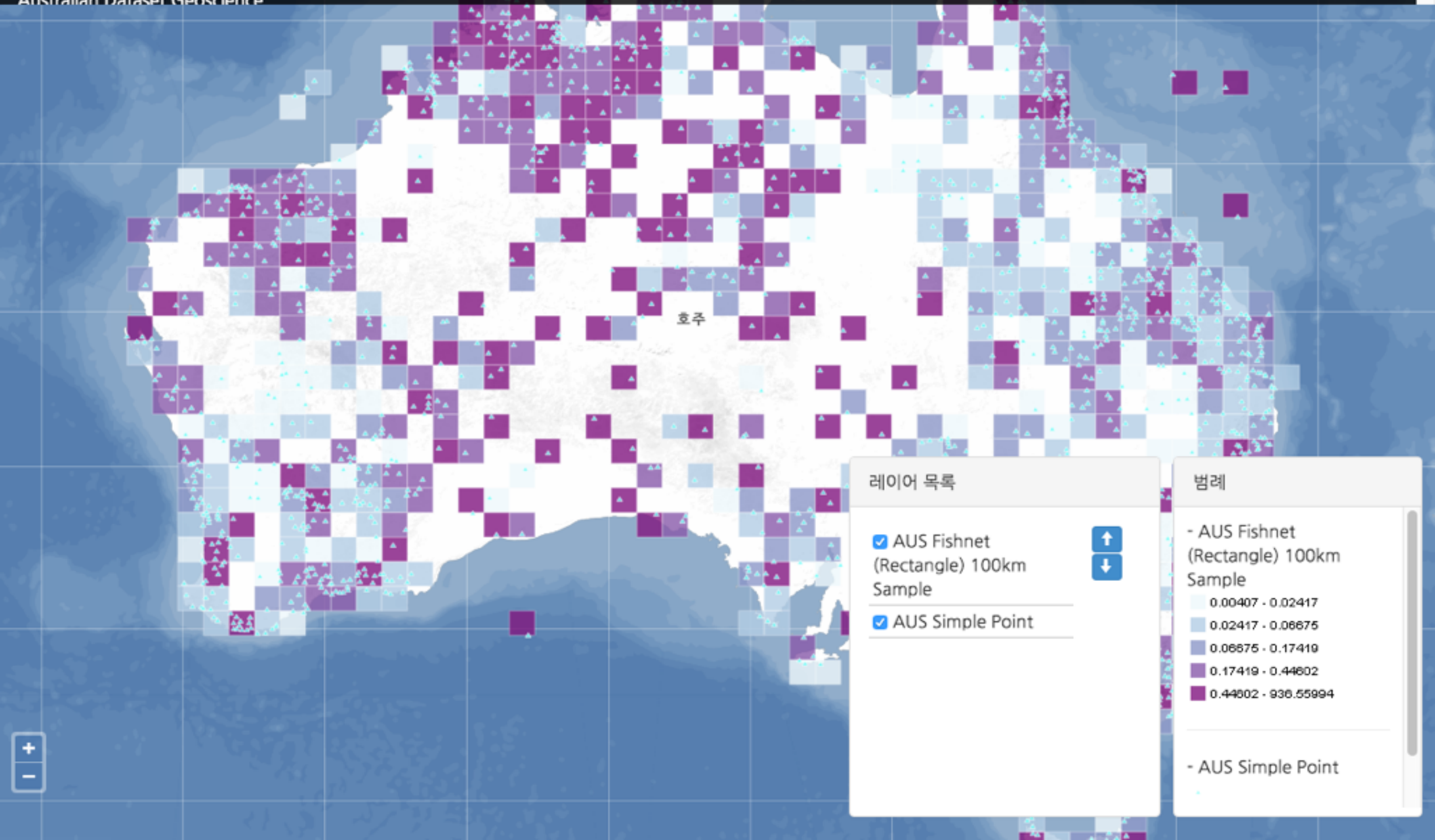
This map shows public and private land tenure, including Indigenous land for the whole of Australia at a scale of 1:4.7 million.

The land tenure boundaries depicted on this map generally define broadly classified areas greater than 50 square kilometres. Indigenous land areas between 0.1 and 100 square kilometres are shown more comprehensively by symbols. The information on this map is complemented by statistical tables giving the total area of the land tenure categories for

Australian Land Tenure 1993

Contains boundary and attribute information for parcels of public, private and Aboriginal lands in Australia. Data are sourced primarily from government gazette notices, cadastral maps and plans. A nominal scale of around 1:5 million and a minimum 50 square kilometre threshold limit for land parcels was used in the generalisation of this product from the National Public and Aboriginal Lands data. Data is suitable for GIS applications. This map shows public and private land tenure, including Indigenous land for the whole of Australia at a scale of 1:4.7 million. The land tenure boundaries depicted on this map generally define broadly classified areas greater than 50 square kilometres. Indigenous land areas between 0.1 and 100 square kilometres are shown more comprehensively by symbols. The information on this map is complemented by statistical tables giving the total area of the land tenure categories for each State and Territory.

Australian Dataset Geoscience



Thanks!



@jinifor

hjlee  mangosystem.com