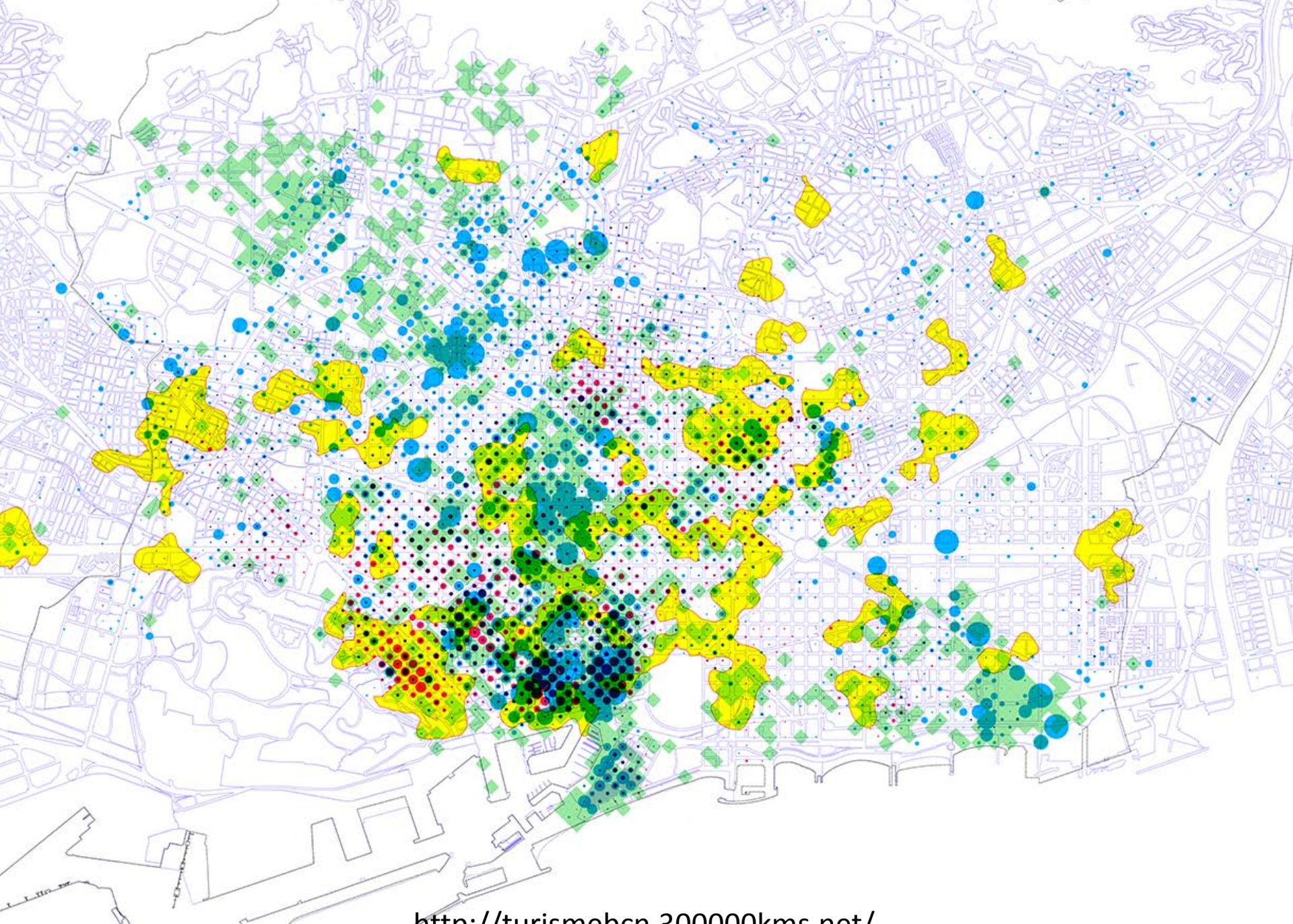
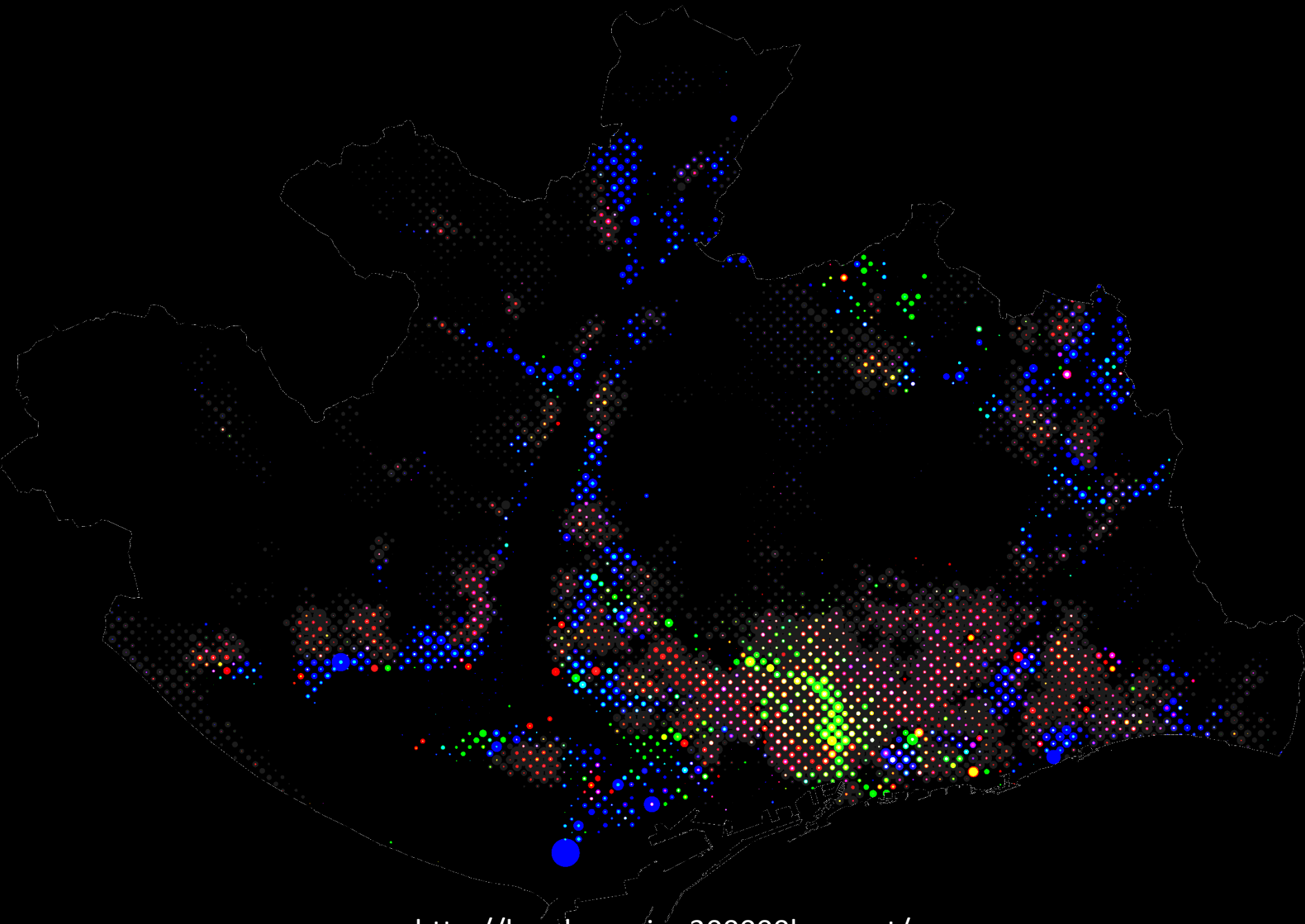


CARTA HISTÒRICA DE BARCELONA

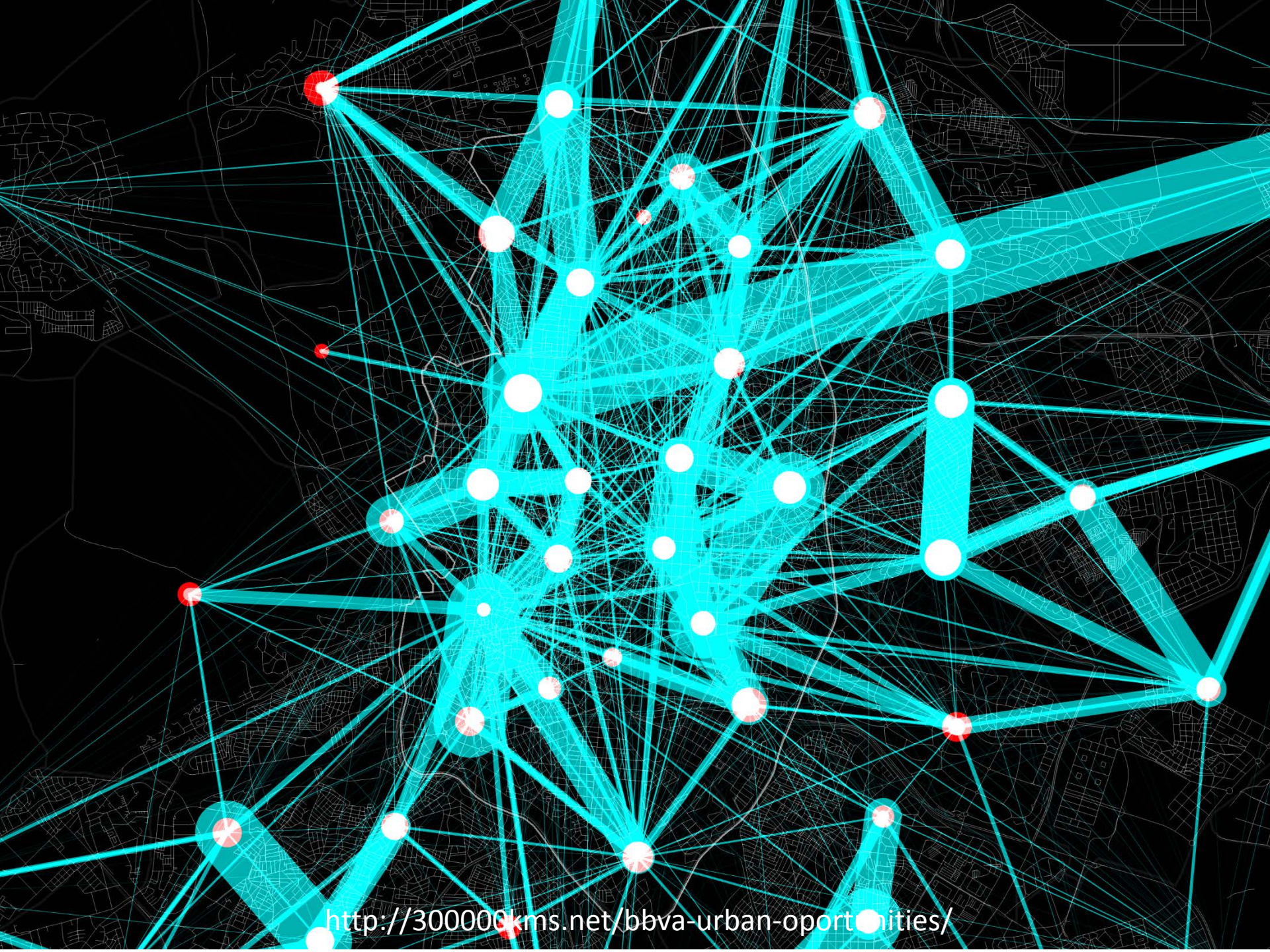
<http://ajuntament.barcelona.cat/museuhistoria/cartahistorica/index.htm>



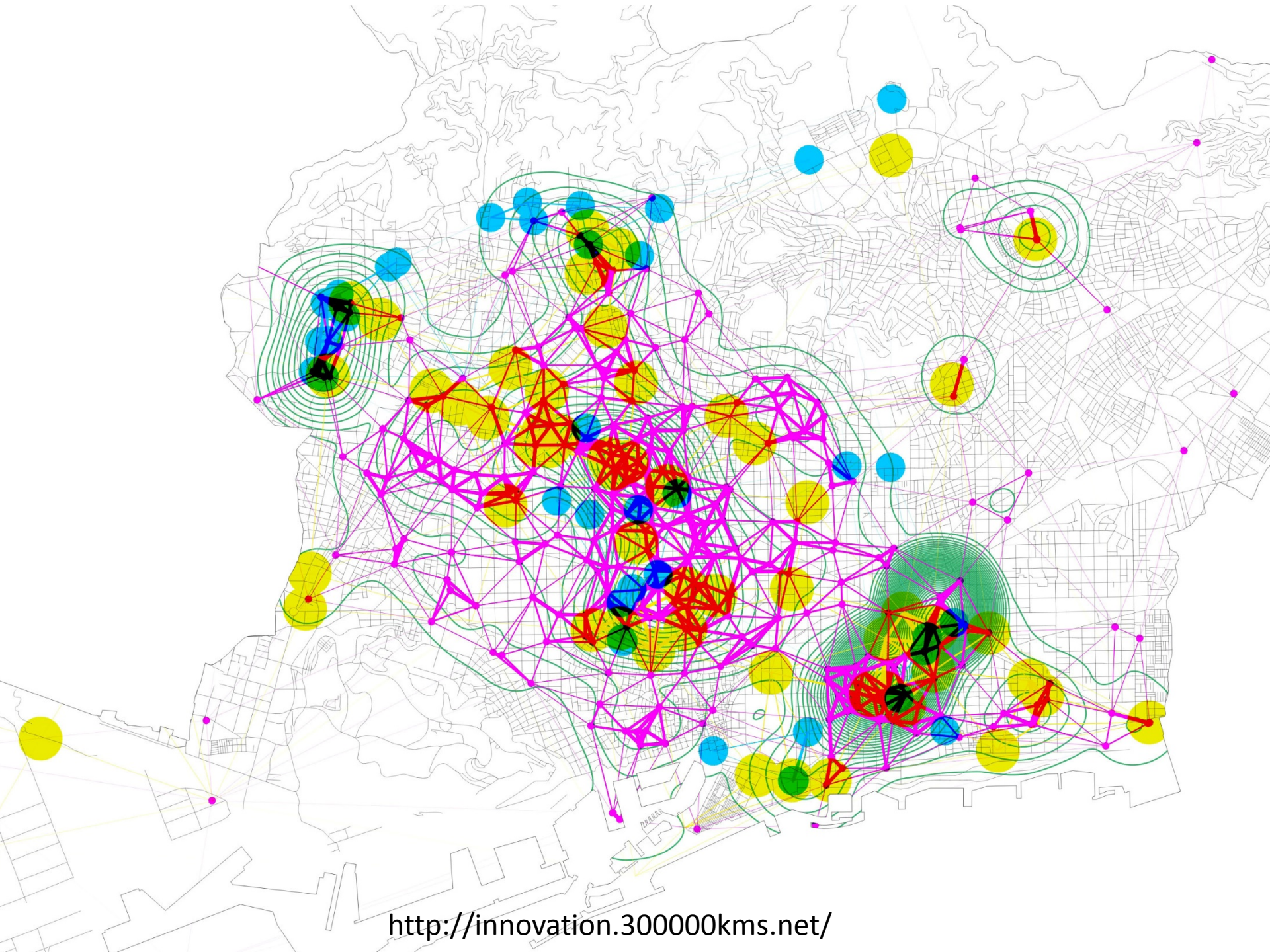
<http://turismebcn.300000kms.net/>



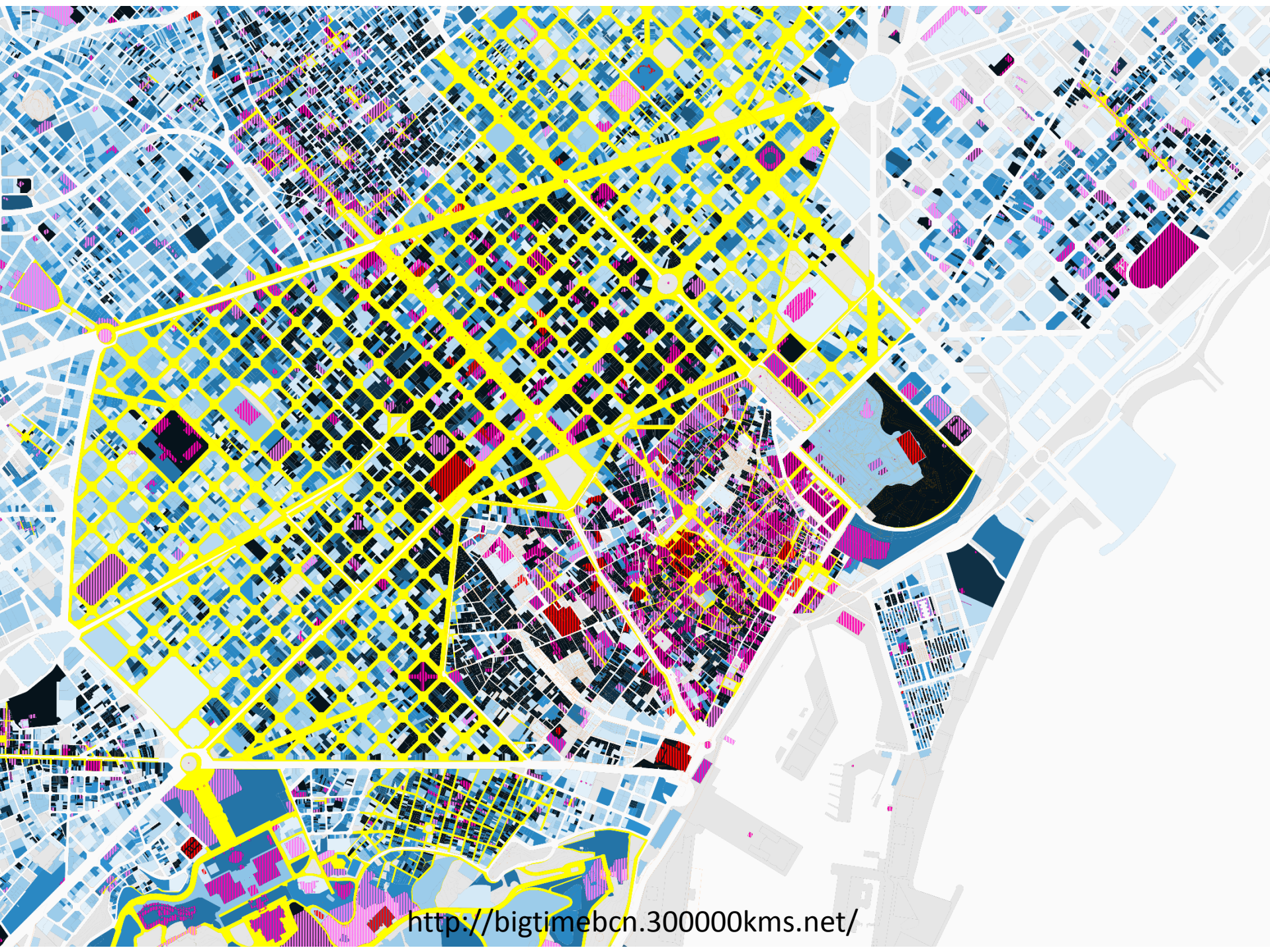
<http://bcndynamics.300000kms.net/>



<http://300000kms.net/bbva-urban-opportunities/>



<http://innovation.300000kms.net/>



<http://bigtimebch.300000kms.net/>

Documentación

Digitalización

Georeferenciación

Vectorización

Pre procesado

Representación y publicación

Documentación

- MUHBA
- HISTORIADORES



Diàlegs
d'Història
Urbana

Exposicions

Programa
educatiu

< > març 2016

1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Activitats
Escolars

Guies
d'història
urbana

Publicacions

MUHBA
Butlletí

Centre de
Recerca i
Debat

Diàlegs
d'Història
Urbana i
Patrimoni



Venda entrades

Reserva grups

Rebre informació

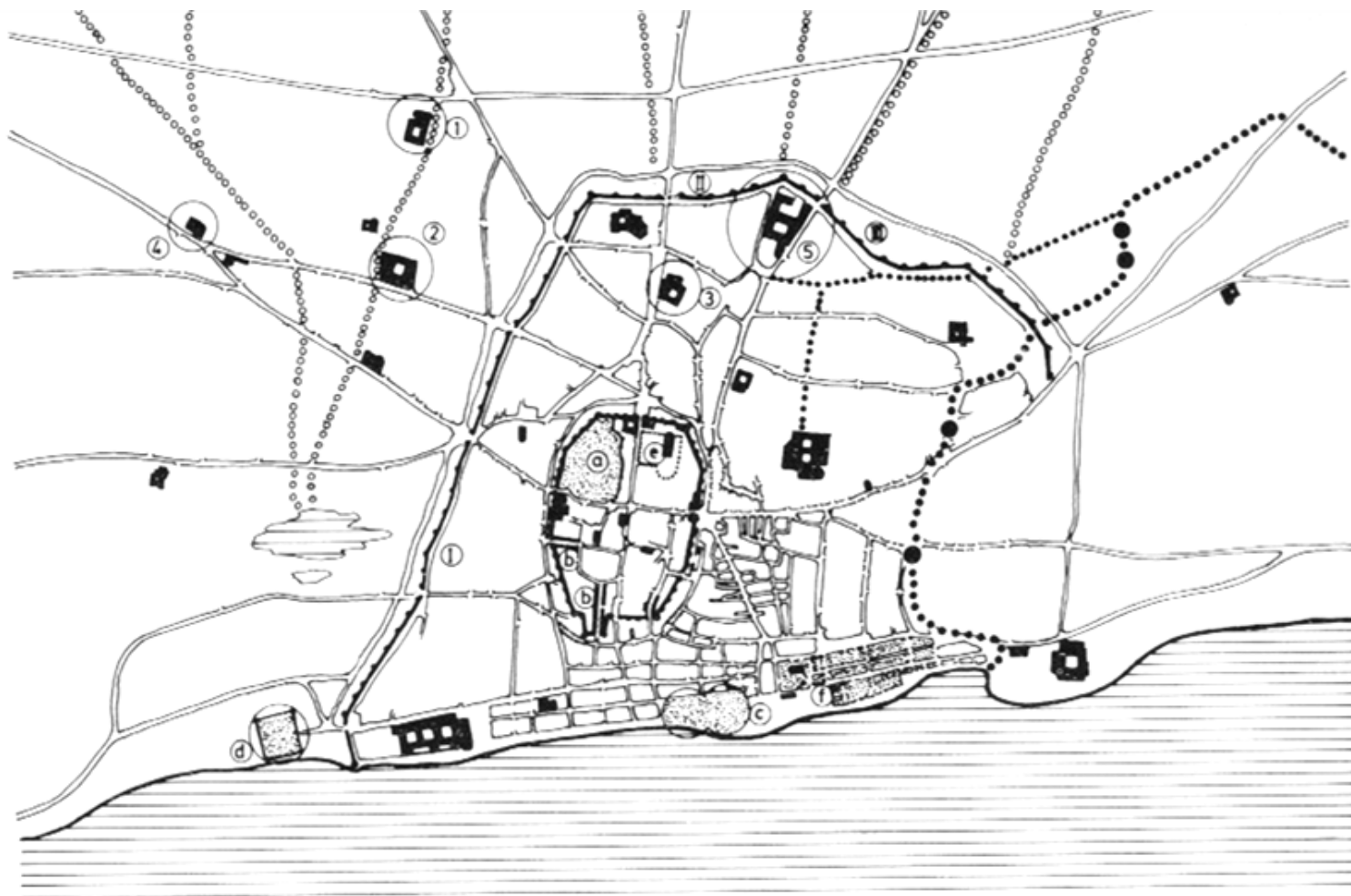


FIGURA 7

Barcelona 1300


- a) call tancat amb murs i portes. b) vies obertes pels templers. c) drassana vella. d) drassana construïda per Pere II. e) inici de la Catedral gòtica. f) urbanització de les illes de la Ribera.
- 1) monestir de Montalegre. 2) convent del Carme. 3) frares del sac (1293). 4) hospital d'en Vilar. 5)




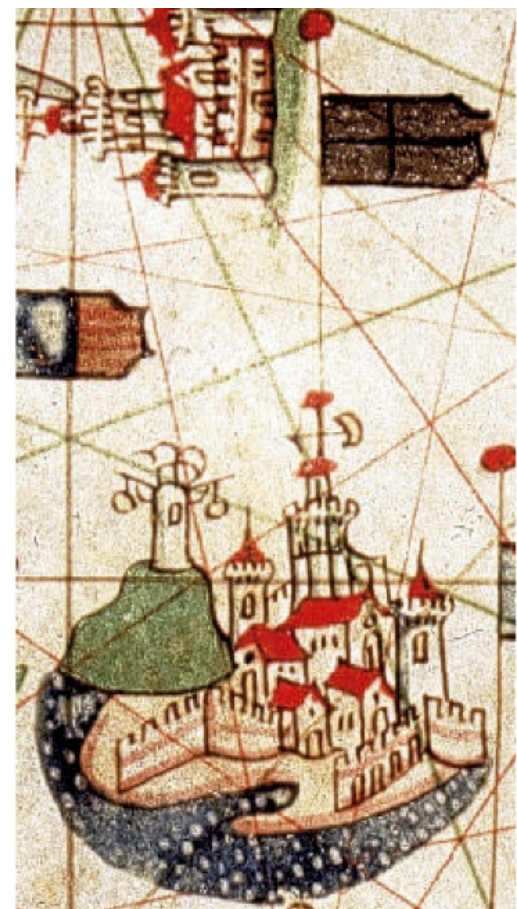
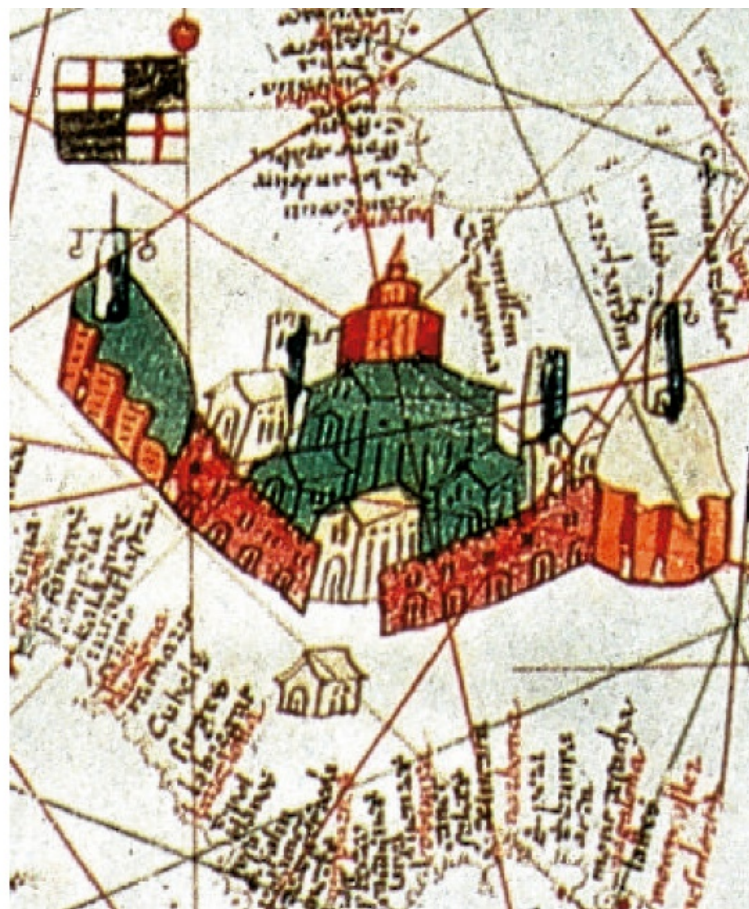
FIGURA 46

Espais construïts

FONT: Cadastre 1716 (IMHB)

convents i
edificis públics 

construccions
restants 





PLAN DE BARCELONNE

ET DE SES ENVIRONS.

*Très-exactement Levé sur les Lieux, par un Ingenieur,
en 1766. Mis au jour,
à Amsterdam par Nicolas Visscher, avec Privilège.*

PLATTE GROND, DER STERCKE STAD, en CASTEEL

BARCELONA,

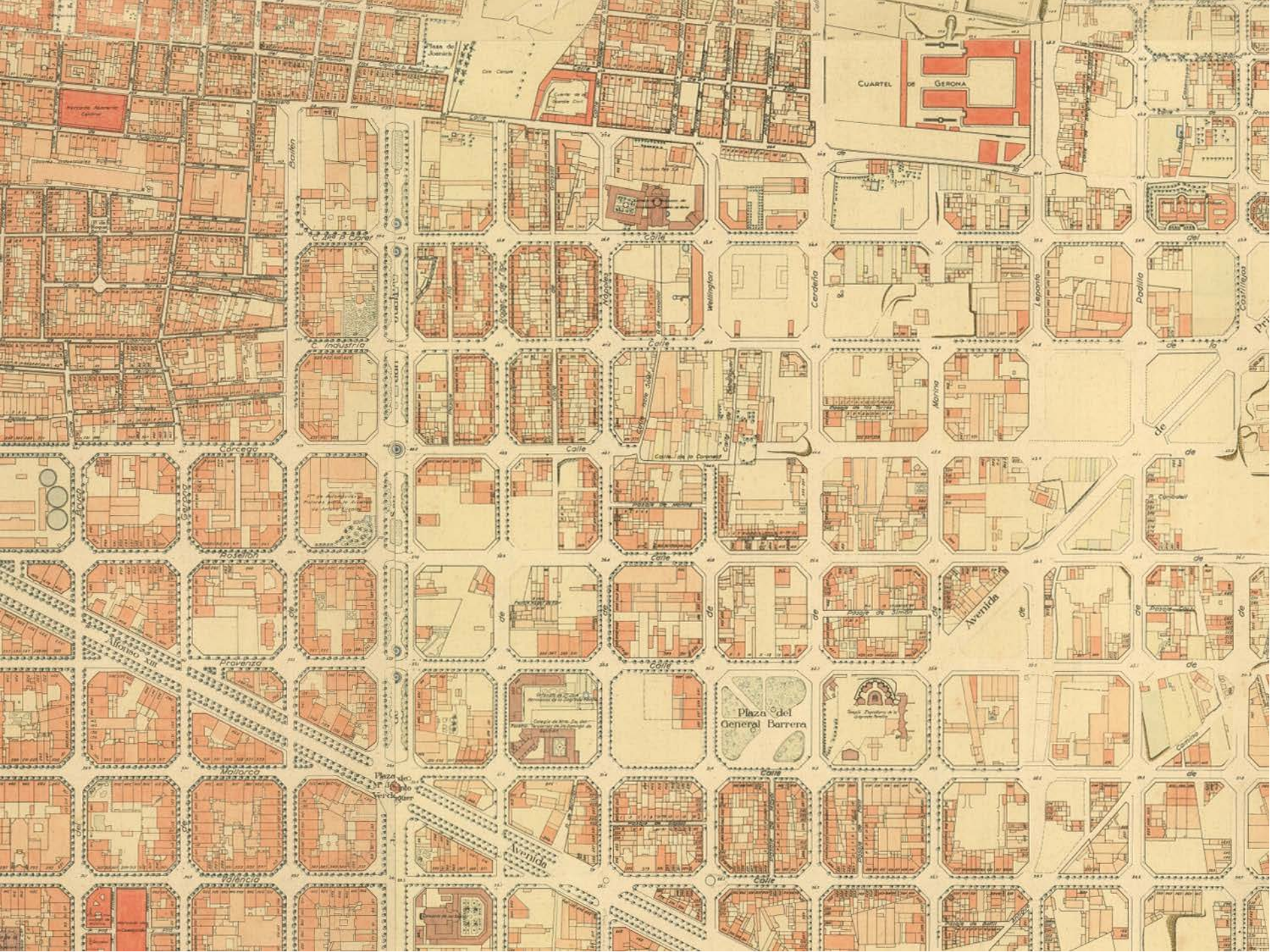
*en de omleggende Plaatsen, naa t' Orgineel
geteekent, en uyt gegeven tot Amsterdam
voer Nicolaus Visscher, met Privilegie.*

Echelle de quatre cent Toises.

50 100 200 300 400









SN MARTIN

DARSENA DE S. BELTRÁN
DARSENA DE LAS COLONIAS
DARSENA DE LOS TRASATLANTICOS
MUELLE DE COMERCIO
MUELLE DE LEVANTE
ANTE PUERTO
RADA

HABANA





Digitalización

- ARCHIVO HISTÓRICO
 - CARTOTECA ICGC
- CARTA ARQUEOLÓGICA

[Inici](#) [Veure](#) [Exposició Mancomunitat](#) [Mapes geològics](#) [Georeferenciació](#)

Cercar

[Cercar](#) [Cerca avançada](#)

[Inici](#) » [Atles antics de la Cartoteca \(s. XVI-XX\)](#) » [\[Peu\] Plan oficial de la Ciutat Nova, fet en 1858 per N'Anfós Cerdà, per ordre del Govern \(Primer...](#)

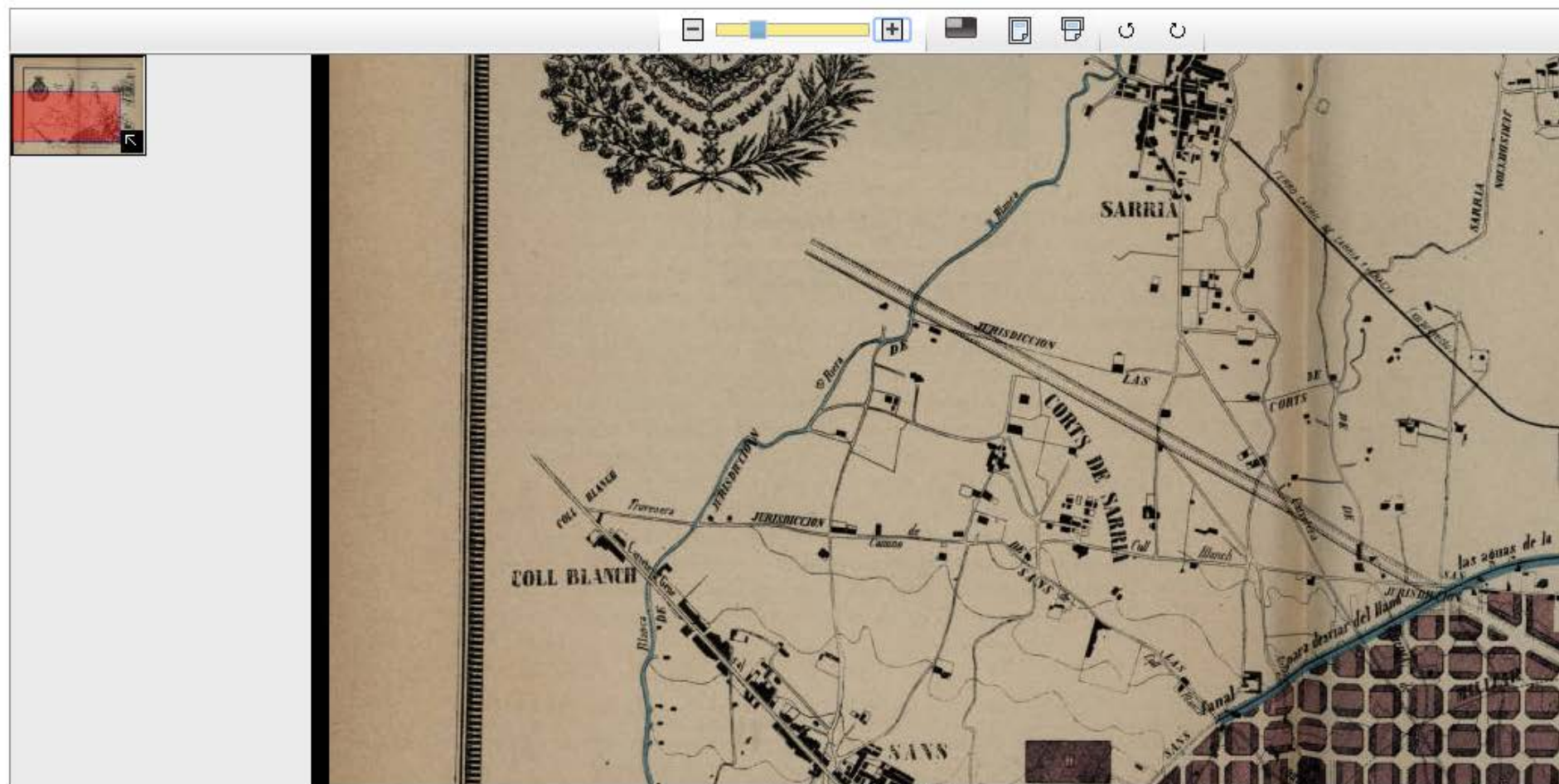
[Referència URL](#)

[Afegir etiquetes](#)

[Puntuar](#) ★★★★★

[\[Peu\] Plan oficial de la Ciutat Nova, fet en 1858 per N'Anfós Cerdà, per ordre del Govern \(Primer full\)](#)

[Veure descripció](#)



Presentación

Fondos y Colecciones

Consulta en línea

Fondos Documentales: Inventarios en formato pdf

Servicios

Actividades

Exposiciones

Publicaciones

Preguntas frecuentes

Enlaces de interés

DIRECCIÓN

Archivo Histórico de la
Ciudad de Barcelona

Santa Lúcia, 1

08002 Barcelona

Tel. +34 93 256 22 55

arxiuhistoric@bcn.cat

[Plano de ubicación](#)

[Cómo llegar](#)

[Estacionamiento de
bicicletas](#)

[Horarios](#)

[Normas de acceso](#)

Archivo Histórico de la Ciudad de Barcelona

El Archivo Histórico de la Ciudad de Barcelona (AHCB) conserva la documentación generada por el gobierno de la ciudad desde la creación del régimen municipal de Barcelona al siglo XIII y hasta el primer tercio del siglo XIX, así como de otros materiales archivísticos, bibliográficos o hemerográficos de interés ([+info](#)).



Agenda

Jornadas "Los gremios de Barcelona"



12, 13 y 14 de abril de 2016

ABIERTA LA INSCRIPCIÓN

[Programa de las
Jornadas](#)

Visitas comentadas a la exposición "Las artes de la seda en Barcelona. 500 años de corporaciones sederas en la ciudad"



A cargo del comisario de la
exposición, Víctor Mata

Consulta en línea

Els «Quarterons Garriga i Roca»

BARCELONA,
DARRERA MIRADA



Guies temàtiques

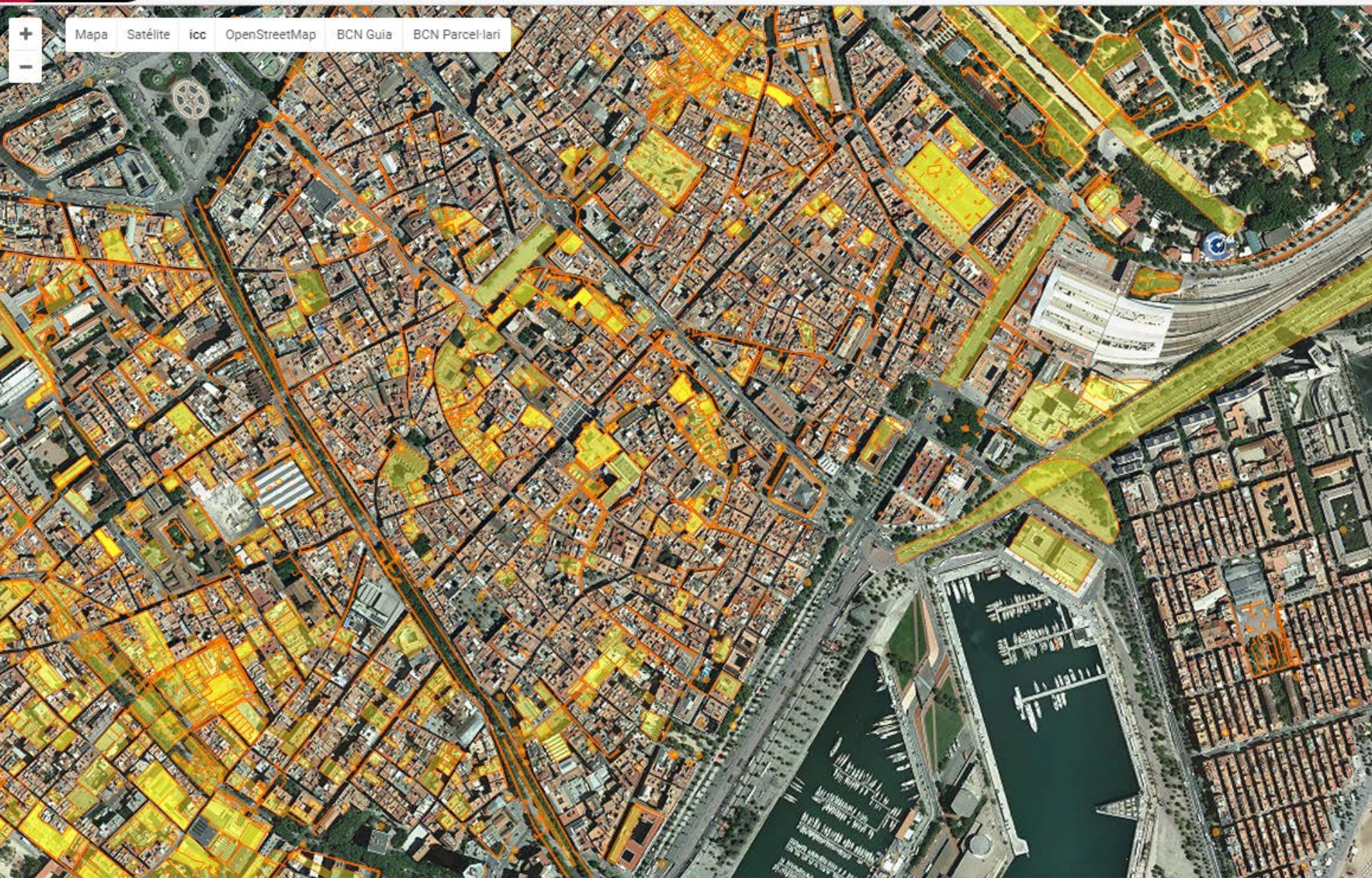
Noticias

Visita las exposiciones virtuales del
Archivo Histórico de la Ciudad de
Barcelona



Nueva guía temática: "Revistas de
guerra del frente republicano.
Guerra Civil Española, 1936-1939"



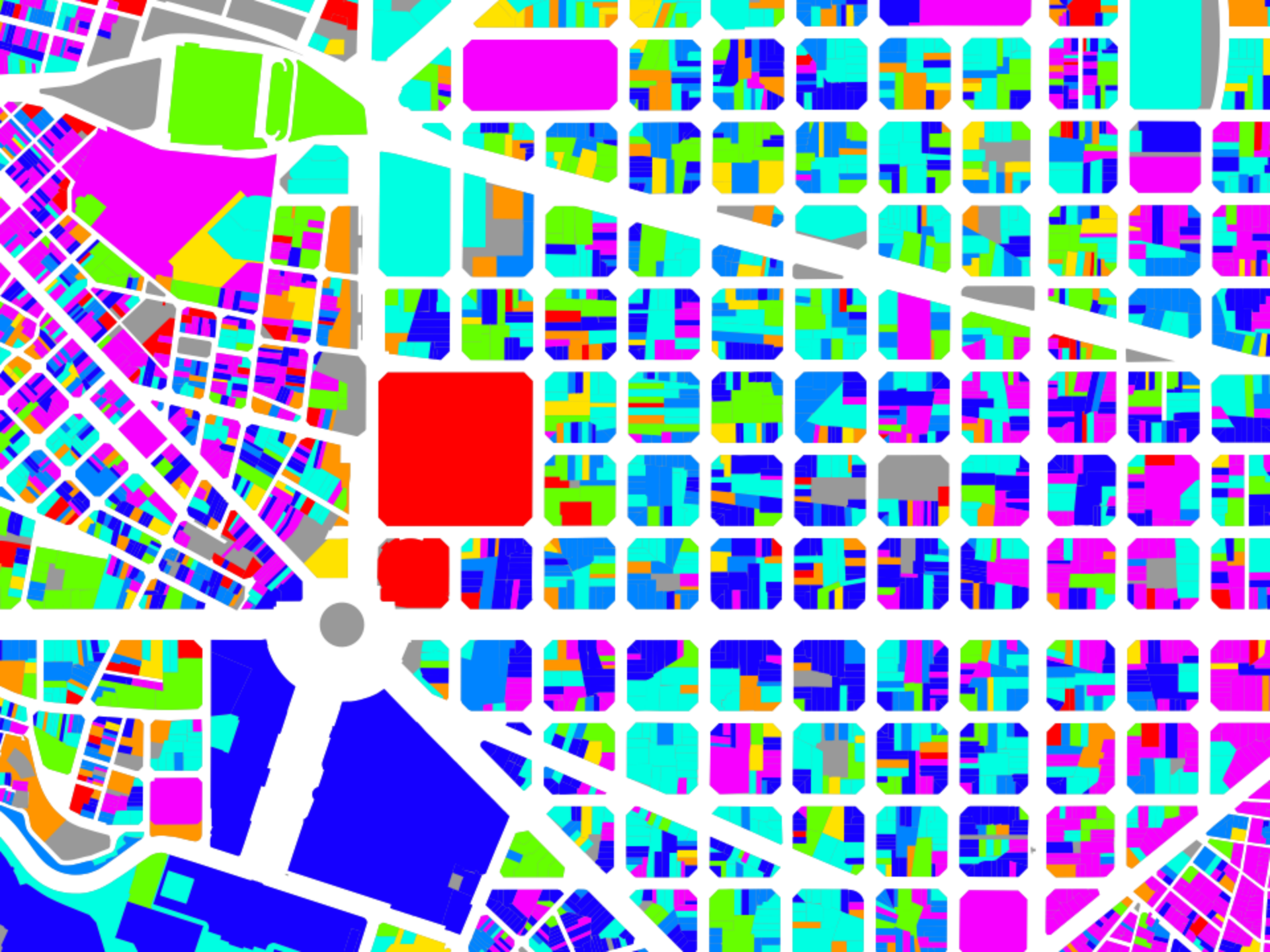


CARTA ARQUEOLÒGICA DE BARCELONA

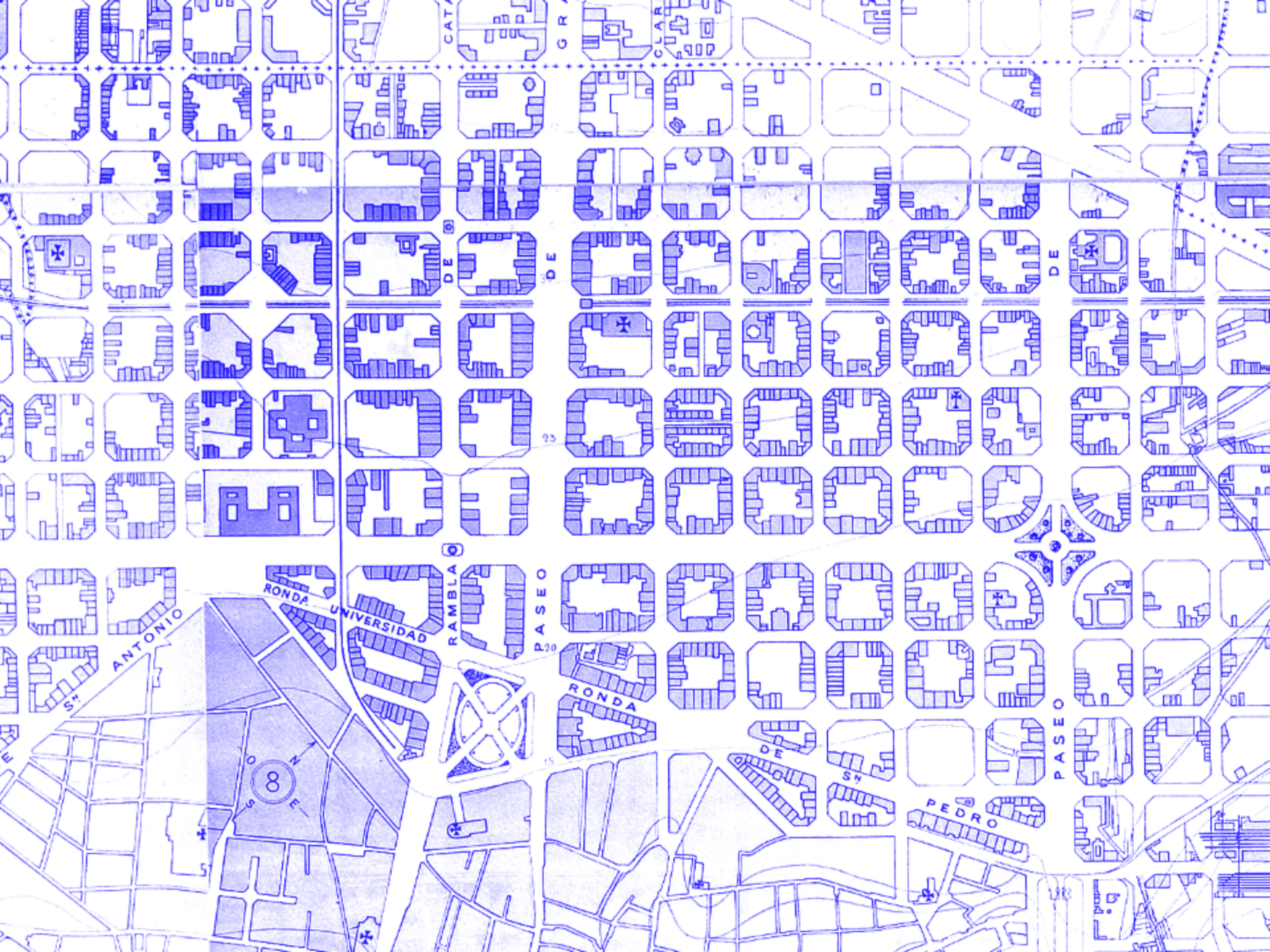
+ 3000 punts d'interès arqueològic

Georeferenciación

-QGIS







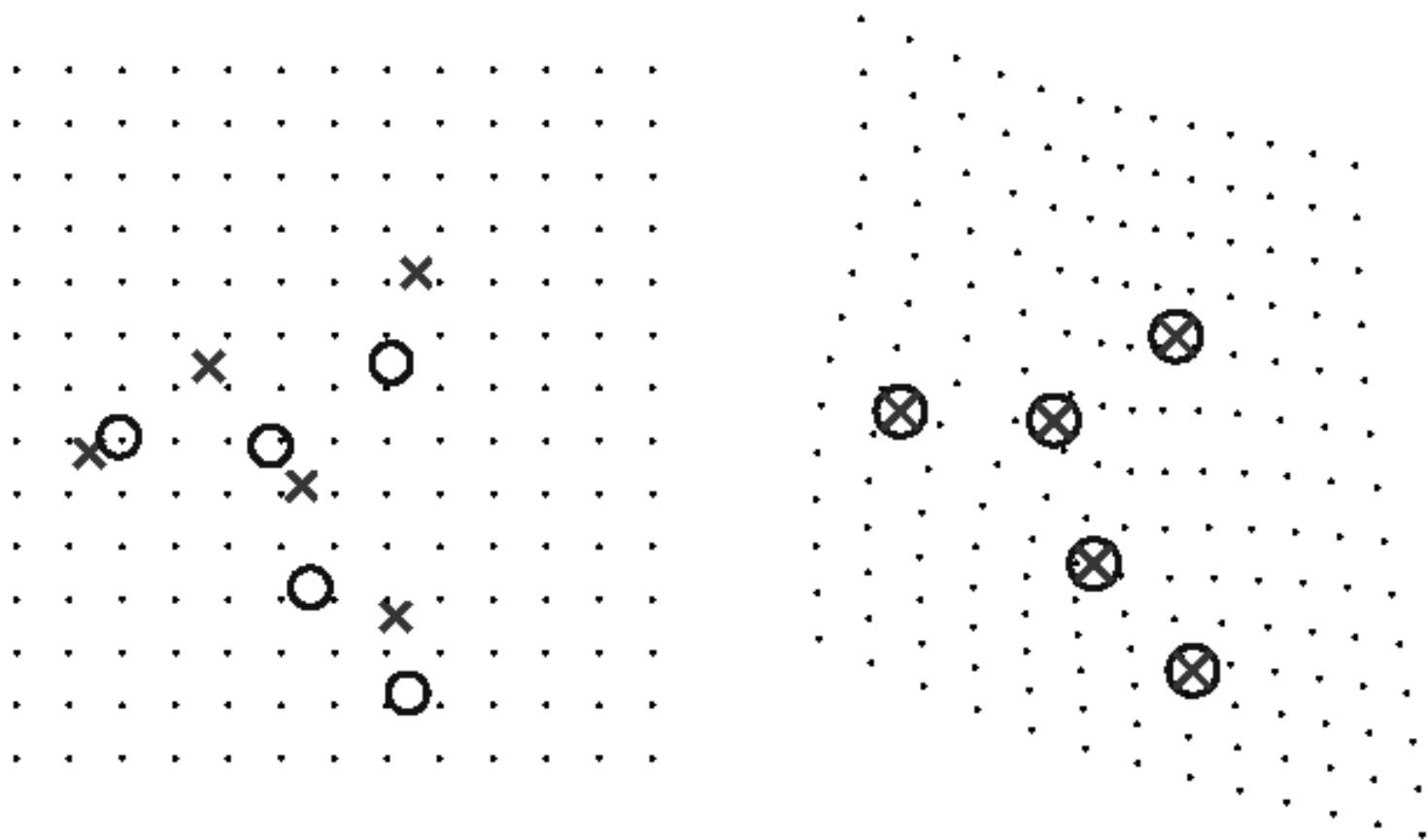


Reprojected cartography-example 1





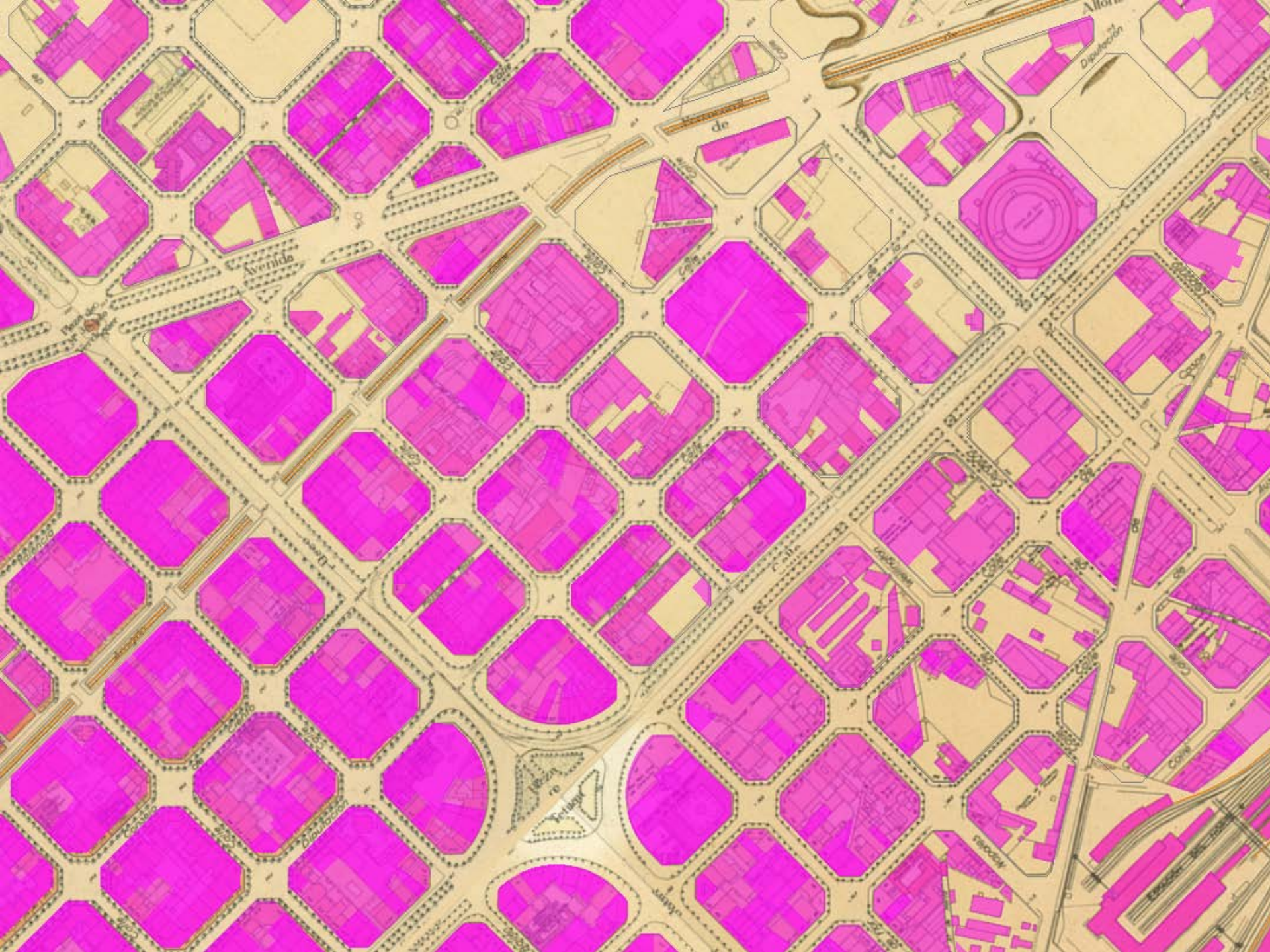
Reprojected cartography-example 2



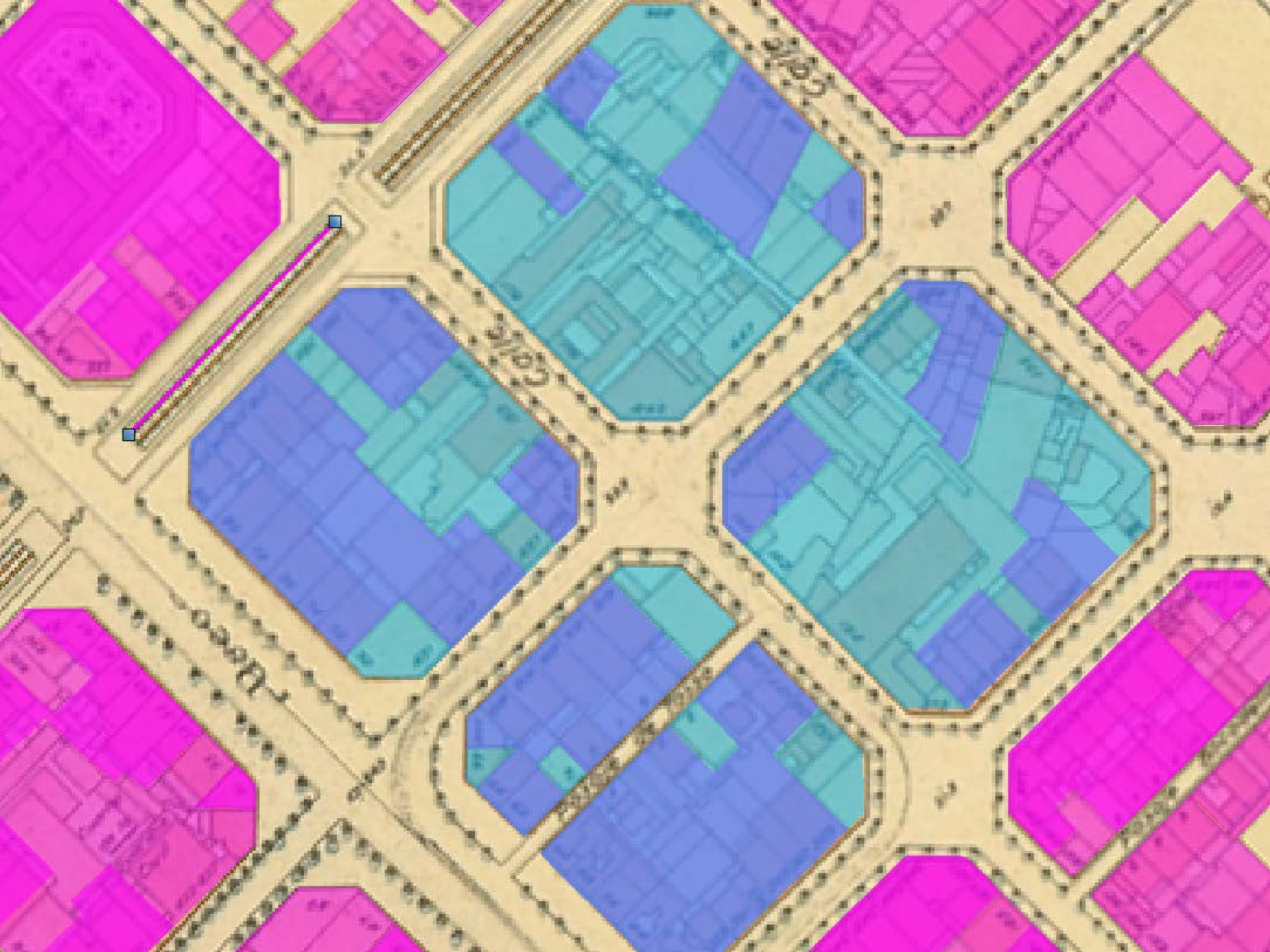
Thin plate spline

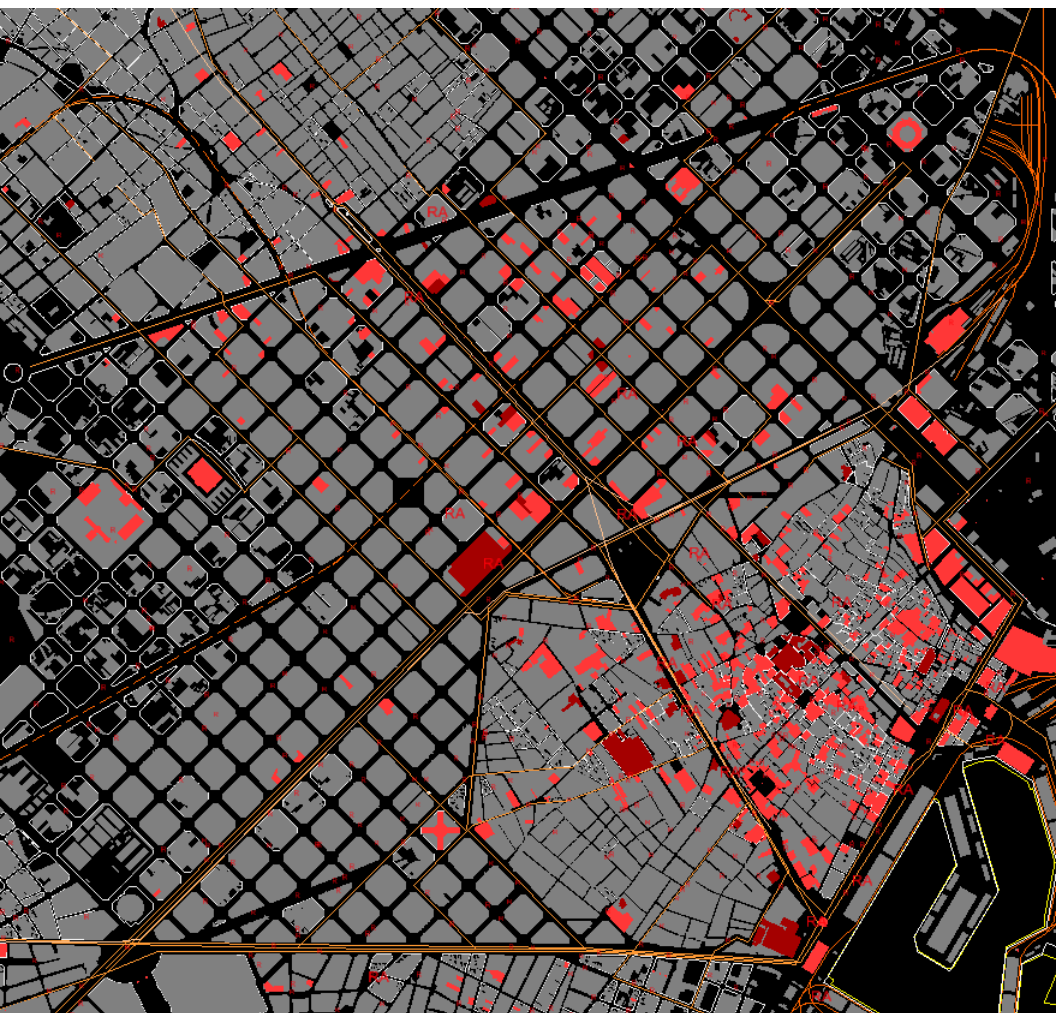
Vectorización

Microstation









Level Manager

Levels Filter Edit

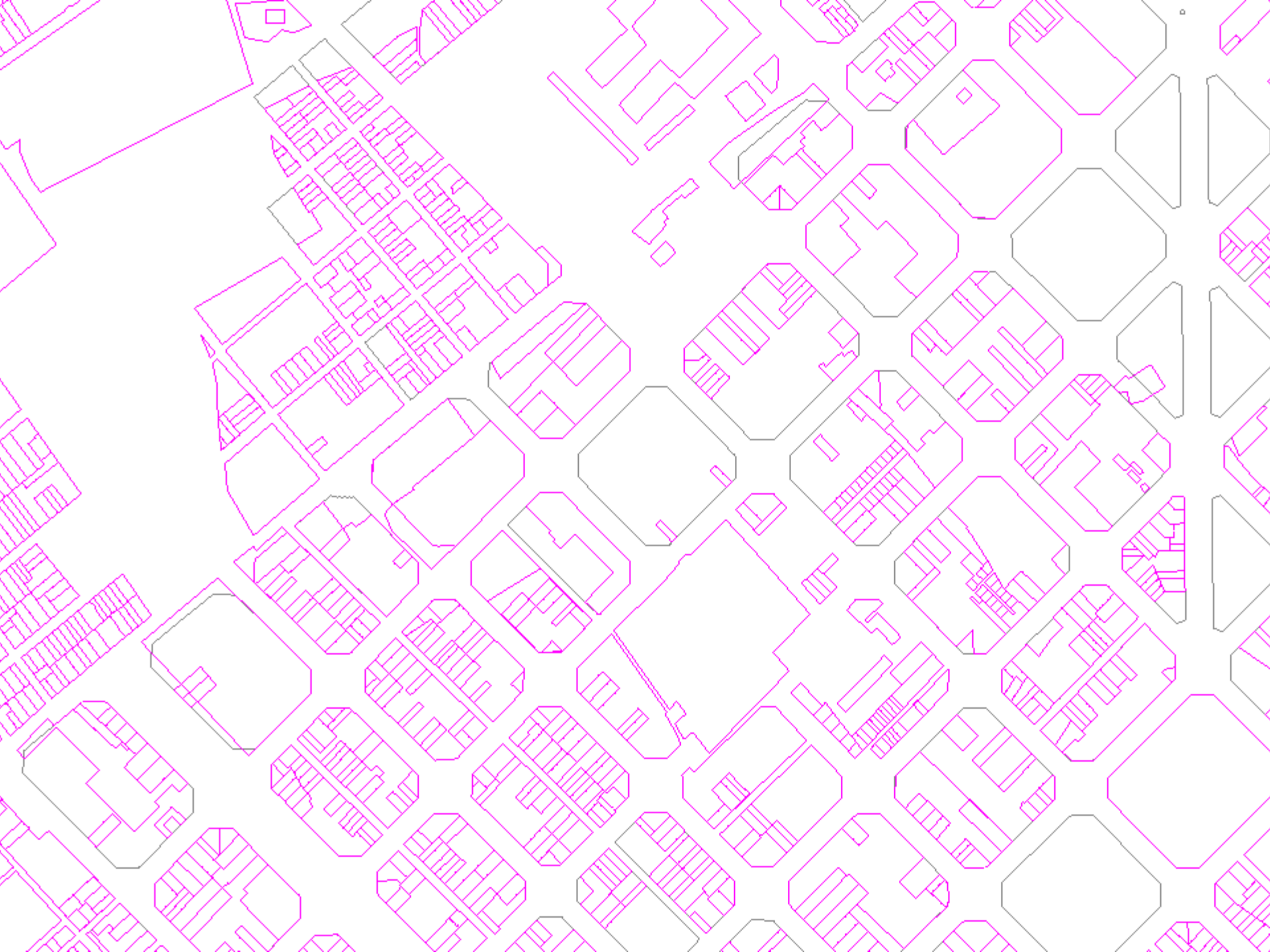
Symbology: ByLevel (none)

1936-I.dgn
1976-I.dgn
All Levels
Filters

Name	Number	Description	File	Logical
24aqueducte	1936-I.dgn	Master	14	
25recComtal	1936-I.dgn	Master	15	
26recComtalDerivacio	1936-I.dgn	Master	16	
27zonaSorra	1936-I.dgn	Master	17	
30massa	1936-I.dgn	Master	50	
31massaPatis	1936-I.dgn	Master	51	
32massaSingular	1936-I.dgn	Master	52	
33massaSingularIndefinit	1936-I.dgn	Master	53	
34massaSingularPatis	1936-I.dgn	Master	54	
35massaExterior	1936-I.dgn	Master	55	
36massaPb	1936-I.dgn	Master	57	
37massaUrbanitzacio	1936-I.dgn	Master	58	
38massaExteriorPatis	1936-I.dgn	Master	56	
38massaSingularDesaparegut	1936-I.dgn	Master	59	
39patrimoni	1936-I.dgn	Master	60	
39patrimoniB	1936-I.dgn	Master	61	
40murales	1936-I.dgn	Master	90	
41glacis1	1936-I.dgn	Master	92	
42glacis2	1936-I.dgn	Master	93	
43muralesPatis	1936-I.dgn	Master	91	
50camins	1936-I.dgn	Master	105	
51caminsImportants	1936-I.dgn	Master	106	
52caminsRastres	1936-I.dgn	Master	107	
53caminsArbrat	1936-I.dgn	Master	108	
54rondes	1936-I.dgn	Master	109	
60trenDescobert	1936-I.dgn	Master	145	
61trenCobert	1936-I.dgn	Master	146	
62tramvia1	1936-I.dgn	Master	225	
63tramvia2	1936-I.dgn	Master	226	
64tramvia3	1936-I.dgn	Master	227	
65tramvia4	1936-I.dgn	Master	228	
66metro	1936-I.dgn	Master	229	
67metro	1936-I.dgn	Master	230	
68metro	1936-I.dgn	Master	231	
69metro	1936-I.dgn	Master	232	
70areesOlimpiques	1936-I.dgn	Master	233	
70enquadre	1936-I.dgn	Master	185	
71costa2015	1936-I.dgn	Master	186	
72enquadreSolid	1936-I.dgn	Master	187	
90nucislibers	1936-I.dgn	Master	200	
92haah.dn	1936-I.dgn	Master	62	

Active Level: 30massa 70 of 70 displayed; 1 selected;

capes RASTER	color	número	Nom capa		capes VECTOR	color	número	Nom capa		ARXIUS DGN (TREBALL)	
Base		1	10 costa				200	90 nuclisIbers	ICONA	ANY	PRIMER FILTRATGE
Elements naturals							202	93 centuriacio		ANYB	NETEJA BLOCS/HATCH/CERCLES
		10	20 RiusPoligon				203	95 villesRomanes	ICONA	ANYC	ASSIMILAT DE CAPES I COLORS
		11	21 riusLinea				204	96 parroquies	ICONA	ANYD	MODIFICACIONS I ENVIAT A ORIOL
		12	22 zonesAnegades				205	98 recComtalMolins	ICONA	ANY-E	ÚLTIMA MODIFICIÓ LAIA JULIOL
		13	23 llera				206	99 jurisdicciones		ANY-H	MODIFICIÓ ORIOL ESTIU
		14	24 aqueducte				207	100 zonaPolemica		ANY-I	MODIFICACIONS LAIA SETEMBRE
		15	25 recComtal				208	101 indianes	ICONA		
		16	26 recComtalDerivacio				209	102 fabFilats	ICONA		
		17	27 zonaSorra				210	103 fabTeixits	ICONA		
Edificació							211	112 fabFilatsTeixits	ICONA		
		50	30 massa				212	104 fabEstampats	ICONA		
		51	31 massaPatis				213	105 projCerda			
		52	32 massaSingular				214	106 barranquisme			
		53	34 massaSingularsPatis				215	108 poligonsHabitatge1 (1945-54)			
		54	33 massaSingularIndefinit				216	109 poligonsHabitatge2 (1955-64)			
		55	35 massaExterior				217	110 poligonsHabitatge3 (1965-75)			
		56	38 massaExteriorPatis				218	111 termeBarcelona			
		57	36 massaPb				219	113 bateriaAntiaeria	ICONA		
		58	37 massaUrbanitzacio				220	114 bateriaDeMar	ICONA		
		59	38 massaSingularDesaparegut				221	115 reflectorsAntiaeris	ICONA		
		60	39 patrimoni				222	116 refugis	ICONA		
		61	40 patrimoniB								
		62	92 baetulo				223	117 bombes	ICONA		
Murallles							224	118 areesCentralitat			
		90	40 muralles (castell, fort pienc)				225	62 tramvia1			
		91	43 murallesPatis				226	63 tramvia2			
		92	41 glacis1				227	64 tramvia3			
		93	42 glacis2				228	65 tramvia4			
Vies							229	66 metro			
		105	50 camins				230	67 metro			
		106	51 caminsImportants				231	68 metro			
		107	52 caminsRastres				232	69 metro			
		108	53 caminsArbrat				233	119 areesOlimpiques			
		109	54 rondes				234	120 riusLineaProjectat			
Transport											
		145	60 trenDescobert (no permeable)								
		146	61 trenCobert (permeable)								





Pre Procesado
de dgn a sqlite (spatialite)

Python
+
Ogr
+
Spatialite

The Gaia-SINS federated projects home-page

Spatial Is Not Special

Spatial data processing simply is a branch in computing between many others: and spatial data are too much strategic and pervasive to be confined to niche applications

libspatialite	sources	a library extending the basic SQLite core in order to get a full fledged Spatial DBMS, really simple and lightweight, but mostly OGC-SFS compliant
virtualpg	sources	a <i>loadable dynamic extension module</i> to both SQLite and Spatialite implementing VirtualPostgres (direct SQL cross access to PostgreSQL/PostGIS tables).
freexl	sources	a library to extract valid data from within an Excel (.xls) spreadsheet
readosm	sources	a library indifferently parsing both OSM-XML and OSM-protobuf datasets
spatialite-tools	sources	a collection of CLI tools supporting Spatialite.
librasterlite2	sources	an advanced library supporting raster handling methods
spatialite-gui	sources	a GUI tool supporting Spatialite in the easiest way
librewms	sources	a WMS viewer built on the top of RasterLite2
dataseltzer	sources	a CGI component built on the top of Spatialite supporting OpenData dissemination

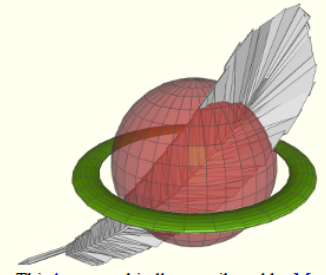
Obsolete / Discontinued software *[no longer maintained]*

libgaiagraphics	sources	a library supporting common-utility raster handling methods
librasterlite	sources	a library allowing to store huge raster coverages within a Spatialite DBMS
spatialite-gis	sources	a minimalistic GIS tool built on the top of Spatialite and RasterLite
LibreAtlas	sources	a Geography Education application built on top of Spatialite and RasterLite

MS Windows binaries	current stable version	x86 (32 bit)	amd64 (64 bit)	Detailed build instructions	MinGW (32 bit) how-to	MinGW (64 bit) how-to	MSVC how-to
	NEXT GENERATION	x86 (32 bit)	amd64 (64 bit)		Linux how-to		
	previous stable version	x86 (32 bit)	amd64 (64 bit)		OSGeo4W packaging how-to		

About Fossil SCM quick [how-to](#) for busy developers

The Gaia-SINS federated projects are developed and maintained by Alessandro Furieri a.furieri@lgt.it



This [logo](#) was kindly contributed by [Massimo Zedda](#)

spatialite-gui [a GUI tool for SQLite/Spatialite]

Files

/home/pi/data/geodata/spatialite/chgeostat.s

- geom_cols_ref_sys
- geometry_columns
- geometry_columns_auth
- geostatb
- geostatk**
- geostatl
- geostatr
- geostats
- layer_params
- layer_statistics
- layer_sub_classes
- layer_table_layout
- pattern_bitmaps
- project_defs
- raster_pyramids
- spatial_ref_sys

```
SELECT ROWID, "PK_UID", "KT", "NAME", "KURZ", "Geometry"
FROM "geostatk"
ORDER BY ROWID
```

	OWID	PK_UID	KT	NAME	KURZ	Geometry
6		6	6	Obwalden	OW	BLOB sz=1802 GEOMETRY
7		7	7	Nidwalden	NW	BLOB sz=1405 GEOMETRY
8		8	8	Glarus	GL	BLOB sz=1629 GEOMETRY
9		9	9	Zug	ZG	BLOB sz=1117 GEOMETRY
10		10	10	Fribourg	FR	BLOB sz=5816 GEOMETRY
11		11	11	Solothurn	SO	BLOB sz=5028 GEOMETRY
					BS	BLOB sz=669 GEOMETRY
					BL	BLOB sz=3002 GEOMETRY
					SH	BLOB sz=2663 GEOMETRY
				errhoden	AR	BLOB sz=1805 GEOMETRY
				rhoden	AI	BLOB sz=1255 GEOMETRY
					SG	BLOB sz=4949 GEOMETRY
					GR	BLOB sz=7789 GEOMETRY
					AG	BLOB sz=4173 GEOMETRY
					TG	BLOB sz=3194 GEOMETRY

BLOB explorer

Hexadecimal dump Geometry explorer


SRID: 4326

Geometry type: MULTIPOLYGON

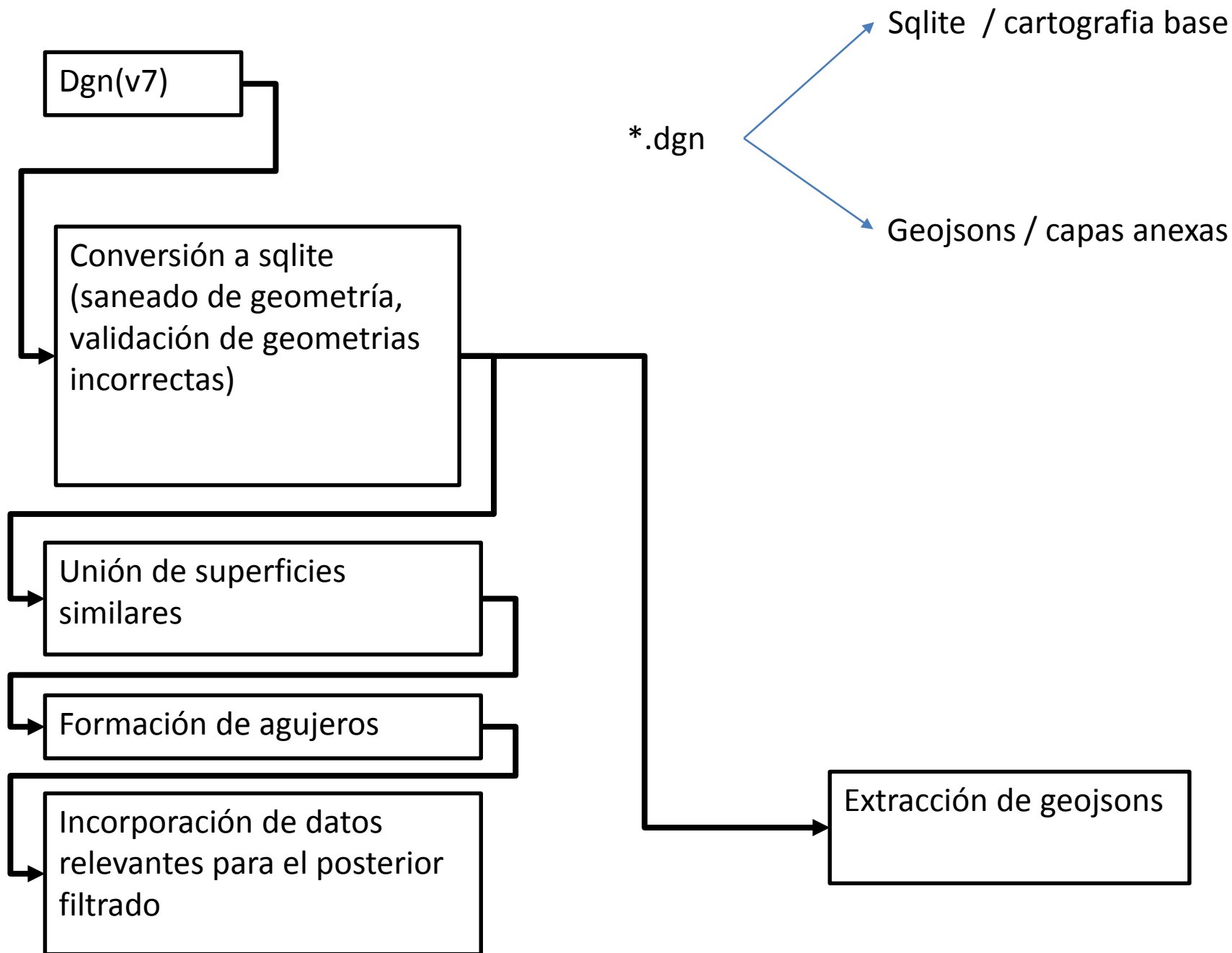
#1 POLYGON:

- 1) exterior ring: 218 vertices
- 1.1) interior ring: 81 vertices
- 1.2) interior ring: 6 vertices

Geometry preview



rows]




```

87 #ogrR = 'ogr2ogr -overwrite -f SQLite ' + rootPro + archivo.rstrip('.dgn').split('-')[0] + '.sqlite ' + rootIn + archivo + ' -a_srs "epsg:3857" -o'
88
89 #ogrR = 'ogrinfo ' + rootIn + archivo + ' -al -sql "select GEOMETRY, type, level, colorindex from elements " -dialect "SQLITE"'
90
91 #ogrR = 'ogrinfo ' + rootIn + archivo + ' -al -sql "select count() from elements " -dialect "SQLITE"'
92
93 print ('RUNNING: ' + archivo + ' : '+ ogrR )
94 os.system(ogrR)
95
96 return
97
98
99 ###exportacion a geojson afinar http://www.gdal.org/drv\_geojson.html
100 def extractSubLayers(archivo):
101     '''
102     extrae las capas del sqlite de la carpeta PRO en el que el numero inicia con dos centenas
103     '''
104
105     query= 'select distinct colorindex from elements'
106     path= rootPro + archivo.rstrip('.dgn').split('-')[0]+' .sqlite'
107     p = sub.Popen(['ogrinfo', '-al', '-sql', query, path], stdout=sub.PIPE, stderr=sub.PIPE)
108     output, errors = p.communicate()
109     comp = re.compile(r'(?<= )2[\d][\d]') #coje las centenas
110     colors = comp.findall(output)
111
112     print colors
113     for c in colors:
114         print 'RUNNING: extract geojsons from : '+ archivo + ' layer : '+ c
115         query='select * from elements where colorindex = '+c
116         ogrR='ogr2ogr -skipfailures -f "geojson" '+rootOut+archivo.rstrip('.dgn').split('-')[0]+'_'+str(c)+'.geojson '+rootIn+archivo+' -dialect sqlite'
117         print ogrR
118         os.system(ogrR)
119     return
120
121
122 ###union
123 def union(archivo):
124     query='select count() as c, type, level, colorindex, st_union(simplifypreservetopology(GEOMETRY,1)) as geometry '\
125         'from elements where isvalid(geometry) = 1 group by colorindex '\
126         'union all '\
127         ' select count() as c, type, level, colorindex, sanitizegeometry(GEOMETRY) as geometry from elements where isvalid(geometry) != 1 '
128
129     query='select count() as c, type, level, colorindex, st_union(GEOMETRY) as geometry '\
130         'from elements where isvalid(geometry) = 1 group by colorindex '\
131         'union all '\
132         ' select count() as c, type, level, colorindex, sanitizegeometry(GEOMETRY) as geometry from elements where isvalid(geometry) != 1 '
133
134     query = 'SELECT ROWID, "OGC FID", st union("GEOMETRY") as GEOMETRY, "type", "level", "graphicgroup", "colorindex", "weight", "style", "entitynum'

```

Representación y publicación

Vector o raster?

Cada época se compone de

Mapas base

topográficos

Cartografías de referencia

Capas anexas (vector)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
1	id	type	date	topo	group	nameEn	nameEs	nameCat	descEn	descEs	descCat	baseGeometry	baseTopo	baseOriginal	vectorType	text	styleTemplate	icon
53	1840_210	vector	1840			1 Weaving mills	Fàbriques de teixits	Fàbriques de teixits	Location of weaving mills	Ubicació de les fàbriques de teixits	Ubicació de les fàbriques de teixits	1840_210 geojson			Point	none	rgb(100,100,100,1)	point
54	1840_211	vector	1840			1 Spinning and weaving mills	Fàbriques de filats i teixits	Fàbriques de filats i teixits	Location of spinning and weaving mills	Ubicació de les fàbriques de filats i teixits	Ubicació de les fàbriques de filats i teixits	1840_211 geojson			Point	none	rgb(100,100,100,1)	point
55	1840_212	vector	1840			1 Prints factories	Fàbriques d'estampats	Fàbriques d'estampats	Location of print factories	Ubicació de les fàbriques d'estampats	Ubicació de les fàbriques d'estampats	1840_212 geojson			Point	none	rgb(100,100,100,1)	point
56	1859_213	vector	1859			Cerdà project	Projecte Cerdà	Projecte Cerdà	relation to the existing city	en relació a la ciutat existent	en relació a la ciutat existent	1859_213 geojson			Line	none	rgb(0,100,250,0.5)	line
57	1859_207	vector	1859			Polemio Zone	Zona Polèmica	Zona Polèmica	defensive system of Barcelona	del sistema defensiu de Barcelona	sistema defensiu de Barcelona	1840_207 geojson			Line	none	rgb(0,100,100,1)	line
58	1903_206	vector	1903			Jurisdictions	Jurisdiccions	Jurisdiccions	affected by the Cerdà Plan	pel Pla Cerdà	pel Pla Cerdà	1903_206 geojson			Line	none	rgb(0,122,183,0.7)	line
59	1903_tramvia	vectorGroup	1903		5	The trams	Los tranvías	Xarxa de tramvies	Existing tram system	Sistema de tranvías existente	Sistema de tramvies existent				Line	none		
60	1903_225	vector	1903		5	Tram	Tramvia	Tramvia	Line 1	Línia 1	Línia 1	1903_225 geojson			Line	none	rgb(0,209,189,0.7)	line
61	1903_226	vector	1903		5	Tram	Tramvia	Tramvia	Line 2	Línia 2	Línia 2	1903_226 geojson			Line	none	rgb(0,139,255,0.7)	line
62	1903_227	vector	1903		5	Tram	Tramvia	Tramvia	Line 3	Línia 3	Línia 3	1903_227 geojson			Line	none	rgb(0,22,207,0.7)	line
63	1903_228	vector	1903		5	Tram	Tramvia	Tramvia	Line 4	Línia 4	Línia 4	1903_228 geojson			Line	none	rgb(0,176,0,255,0.7)	line
64	1936_214	vector	1936			Informal housing	Barraquisme	Barraquisme	Slum areas	Zonas barraquistas	Zonas barraquistas	1936_214 geojson			Polygon	none	rgb(0,100,250,0.5)	zone
65	1936_militarizacio	vectorGroup	1936		4	The militarization of the city	La militarización de la ciudad	La militarització de la ciutat	during Civil War	durante la Guerra Civil	durante la Guerra Civil				Line	none		
66	1936_219	vector	1936		4	Anti-aircraft battery	Batería antiaeríea	Bateria antiaeríea	Anti-aircraft battery	Batería antiaeríea	Bateria antiaeríea	1936_219 geojson			Point	none	rgb(100,100,100,1)	point
67	1936_220	vector	1936		4	Anti-aircraft battery	Batería de mar	Bateria de mar	Anti-aircraft battery	Batería de Mar	Bateria de mar	1936_220 geojson			Point	none	rgb(100,100,100,1)	point
68	1936_221	vector	1936		4	Anti-aircraft facilities	Reflectores antiaeríeis	Reflectors antiaeríeis	Anti-aircraft facilities	Reflectores antiaeríeis	Reflectors antiaeríeis	1936_221 geojson			Point	none	rgb(100,100,100,1)	point
69	1936_222	vector	1936			Air-raid shelter	Refugis Antiaeris	Refugis Antiaeris	Air-raid shelter	Refugios Antiaeris	Refugis antiaeris	1936_222 geojson			Point	none	rgb(100,100,100,1)	point
70	1936_tramvia	vectorGroup	1936		5	The trams	Los tranvías	Xarxa de tramvies	Existing tram system	Sistema de tranvías existente	Sistema de tramvies existent				Line	none		
71	1936_225	vector	1936		5	Tram	Tramvia	Tramvia	Line 1	Línia 1	Línia 1	1936_225 geojson			Line	none	rgb(0,209,189,0.7)	line
72	1936_226	vector	1936		5	Tram	Tramvia	Tramvia	Line 2	Línia 2	Línia 2	1936_226 geojson			Line	none	rgb(0,139,255,0.7)	line
73	1936_227	vector	1936		5	Tram	Tramvia	Tramvia	Line 3	Línia 3	Línia 3	1936_227 geojson			Line	none	rgb(0,22,207,0.7)	line
74	1936_228	vector	1936		5	Tram	Tramvia	Tramvia	Line 4	Línia 4	Línia 4	1936_228 geojson			Line	none	rgb(0,176,0,255,0.7)	line
75	1936_metro	vectorGroup	1936		7	The underground	El metro	Xarxa de metro	Existing underground system	Sistema de metro existente	Sistema de metro existent				Line	none		
76	1936_229	vector	1936		7	Underground	Metro	Metro	Transversal	Transversal	Transversal	1936_229 geojson			Line	none	rgb(100,0,0,0.7)	line
77	1936_230	vector	1936		7	Underground	Metro	Metro	Gran Metro	Gran Metro	Gran Metro	1936_230 geojson			Line	none	rgb(0,255,150,0.7)	line
78	1936_231	vector	1936		7	Underground	Metro	Metro	Gran Metro	Gran Metro	Gran Metro	1936_231 geojson			Line	none	rgb(0,100,0,0.7)	line
79	1956_poligons	vectorGroup	1956		2	Housing estates	los polígonos de viviendas	Polígonos d'habitatges	Creation of new housing estates	Creación de nuevos polígonos de vivienda	polígonos d'habitatge				Line	none		
80	1956_215	vector	1956		2	Large housing estates (1945-54)	Polígonos d'habitatges (1945-54)	Polígonos d'habitatges (1945-54)	1945-54 period	Període 1945-54	Període 1945-54	1956_215 geojson			Polygon	popu	rgb(200,100,0,0.5)	poly
81	1956_216	vector	1956		2	Large housing estates (1955-54)	Polígonos d'habitatges (1955-54)	Polígonos d'habitatges (1955-54)	1955-54 period	Període 1955-54	Període 1955-54	1956_216 geojson			Polygon	popu	rgb(250,150,0,0.5)	poly
82	1956_metro	vectorGroup	1956		8	The underground	El metro	Xarxa de metro	Existing underground system	Sistema de metro existente	Sistema de metro existent				Line	none		
83	1956_229	vector	1956		8	Underground	Metro	Metro	Line 1	Línia 1	Línia 1	1956_229 geojson			Line	none	rgb(100,0,0,0.7)	line
84	1956_230	vector	1956		8	Underground	Metro	Metro	Line 4	Línia 4	Línia 4	1956_230 geojson			Line	none	rgb(255,150,0,0.7)	line
85	1956_231	vector	1956		8	Underground	Metro	Metro	Line 5	Línia 5	Línia 5	1956_231 geojson			Line	none	rgb(0,100,0,0.7)	line
86	1976_poligons	vectorGroup	1976		3	Housing estates	los polígonos de viviendas	Polígonos d'habitatges	Creation of new housing estates	Creación de nuevos polígonos de vivienda	polígonos d'habitatge				Line	none		
87	1976_215	vector	1976		3	Large housing estates (1945-54)	Polígonos d'habitatges (1945-54)	Polígonos d'habitatges (1945-54)	1945-54 period	Període 1945-54	Període 1945-54	1976_215 geojson			Polygon	popu	rgb(200,100,0,0.5)	poly
88	1976_216	vector	1976		3	Large housing estates (1955-54)	Polígonos d'habitatges (1955-54)	Polígonos d'habitatges (1955-54)	1955-54 period	Període 1955-54	Període 1955-54	1976_216 geojson			Polygon	popu	rgb(250,150,0,0.5)	poly
89	1976_217	vector	1976		3	Large housing estates (1955-75)	Polígonos d'habitatges (1955-75)	Polígonos d'habitatges (1955-75)	1955-75 period	Període 1955-75	Període 1955-75	1976_217 geojson			Polygon	popu	rgb(250,50,0,0.5)	poly
90	1976_218	vector	1976			Municipality of Barcelona	Terme municipal de Barcelona	Terme municipal de Barcelona	Plain	de Barcelona	de Barcelona	1976_218 geojson			Line	none	rgb(0,100,0,1)	line
91	1976_224	vector	1976			Areas of new centrality	Àrees de nova Centralitat	Àrees de nova Centralitat	Areas of new centrality	proyecciones	proyecciones	1976_224 geojson			Polygon	popu	rgb(100,0,0,0.8)	poly
92	1976_metro	vectorGroup	1976		9	The underground	El metro	Xarxa de metro	Existing underground system	Sistema de metro existente	Sistema de metro existent				Line	none		
93	1976_229	vector	1976		9	Underground	Metro	Metro	Line 1	Línia 1	Línia 1	1976_229 geojson			Line	none	rgb(100,0,0,0.7)	line
94	1976_231	vector	1976		9	Underground	Metro	Metro	Line 3	Línia 3	Línia 3	1976_231 geojson			Line	none	rgb(0,100,0,0.7)	line
95	1976_230	vector	1976		9	Underground	Metro	Metro	Line 4	Línia 4	Línia 4	1976_230 geojson			Line	none	rgb(255,150,0,0.7)	line
96	1976_232	vector	1976		9	Underground	Metro	Metro	Line 5	Línia 5	Línia 5	1976_232 geojson			Line	none	rgb(0,100,0,0.7)	line
97	1992_metro	vectorGroup	1992		10	The underground	El metro	Xarxa de metro	Existing underground system	Sistema de metro existente	Sistema de metro existent				Line	none		
98	1992_229	vector	1992		10	Underground	Metro	Metro	Line 1	Línia 1	Línia 1	1992_229 geojson			Line	none	rgb(100,0,0,0.7)	line
99	1992_231	vector	1992		10	Underground	Metro	Metro	Line 3	Línia 3	Línia 3	1992_231 geojson			Line	none	rgb(0,100,0,0.7)	line
100	1992_230	vector	1992		10	Underground	Metro	Metro	Line 4	Línia 4	Línia 4	1992_230 geojson			Line	none	rgb(255,150,0,0.7)	line
101	1992_232	vector	1992		10	Underground	Metro	Metro	Line 5	Línia 5	Línia 5	1992_232 geojson			Line	none	rgb(0,100,0,0.7)	line
102	1992_233	vector	1992			Olympic areas	Àrees Olímpiques	Àrees Olímpiques	1992 Olympic Areas	Olímpicos del 92	Olímpicos del 92	1992_233 geojson			Polygon	popu	rgb(255,150,0,0.5)	poly
103	Patrimoni_1840	vector	1840			relevant buildings	edificios singulares	Edificis singulars	Assets of Cultural Interest	Bienes Culturales d'Interés	Béns Culturals d'Interés	patrimoni_1840 A.geojson			Point	text	rgb(100,100,100,1)	point
104	Patrimoni_1859	vector	1859			relevant buildings	edificios singulares	Edificis singulars	Assets of Cultural Interest	Bienes Culturales d'Interés	Béns Culturals d'Interés	patrimoni_1859 A.geojson			Point	text	rgb(100,100,100,1)	point
105	Patrimoni_1890	vector	1890			relevant buildings	edificios singulares	Edificis singulars	Assets of Cultural Interest	Bienes Culturales d'Interés	Béns Culturals d'Interés	patrimoni_1890 A.geojson			Point	text	rgb(100,100,100,1)	point
106	Patrimoni_1903	vector	1903			relevant buildings	edificios singulares	Edificis singulars	Assets of Cultural Interest	Bienes Culturales d'Interés	Béns Culturals d'Interés	patrimoni_1903 A.geojson			Point	text	rgb(100,100,100,1)	point

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
1	id	type	date	topo	group	nameEn	nameEs	nameCat	descEn	nameEs	nameCat	baseGeometry	baseTopo	baseOriginal	vectorType	text	styleTemplate	de
53	1840_210	vector	1840			1 Weaving mills	Fàbriques de teixits	Fàbriques de teixits	Location of weaving mills	Fàbriques de teixits	Fàbriques de teixits	1840_210 A.geojson			Point	text	rgb(100,100,100,1)	point
54	1840_211	vector	1840			1 Spinning and weaving mills	Fàbriques de filats i teixits	Fàbriques de filats i teixits	Location of spinning and weaving mills	Fàbriques de filats i teixits	Fàbriques de filats i teixits	1840_211 A.geojson			Point	text	rgb(100,100,100,1)	point
55	1840_212	vector	1840			1 Prints factories	Fàbriques d'estampats	Fàbriques d'estampats	Location of print factories	Fàbriques d'estampats	Fàbriques d'estampats	1840_212 A.geojson			Point	text	rgb(100,100,100,1)	point
56	1859_213	vector	1859			Cerdà project	Projecte Cerdà	Projecte Cerdà	relation to the existing city	Projecte Cerdà	Projecte Cerdà	1859_213 A.geojson			Line	text	rgb(0,100,250,0.5)	line
57	1859_207	vector	1859			Polemio Zone	Zona Polèmica	Zona Polèmica	defensive system of Barcelona	Zona Polèmica	Zona Polèmica	1859_207 A.geojson			Line	text	rgb(0,100,100,1)	line
58	1903_206	vector	1903			Jurisdictions	Jurisdiccions	Jurisdiccions	affected by the Cerdà Plan	Jurisdiccions	Jurisdiccions	1903_206 A.geojson			Line	text	rgb(0,122,183,0.7)	line
59	1903_tramvia	vectorGroup	1903		5	The trams	Los tranvías	Xarxa de tramvies	Existing tram system	Los tranvías	Xarxa de tramvies	1903_tramvia A.geojson			Line	text		

61	1903_228	vector	1903		5	Tram	Tramvia	Tramvia	Line 2	Li
62	1903_227	vector	1903		5	Tram	Tramvia	Tramvia	Line 3	Li
63	1903_228	vector	1903		5	Tram	Tramvia	Tramvia	Line 4	Li
64	1936_214	vector	1936			Informal housing	Barraquisme	Barraquisme	Slum areas	Zo
65	1936_militaritzacio	vectorGroup	1936		4	The militarization of the city	La militarización de la ciudad	La militarització de la ciutat	during Civil War	B
66	1936_219	vector	1936		4	Anti-aircraft battery	Bateria antiaeria	Bateria antiaeria	Anti-aircraft battery	B
67	1936_220	vector	1936		4	Anti-aircraft battery	Bateria de mar	Bateria de mar	Anti-aircraft battery	B
68	1936_221	vector	1936		4	Anti-aircraft facilities	Reflectors antiaeris	Reflectors antiaeris	Anti-aircraft facilities	Re
69	1936_222	vector	1936			Air-raid shelter	Refugis Antiaeris	Refugis Antiaeris	Air-raid shelter	Re

Publicación en raster tiles

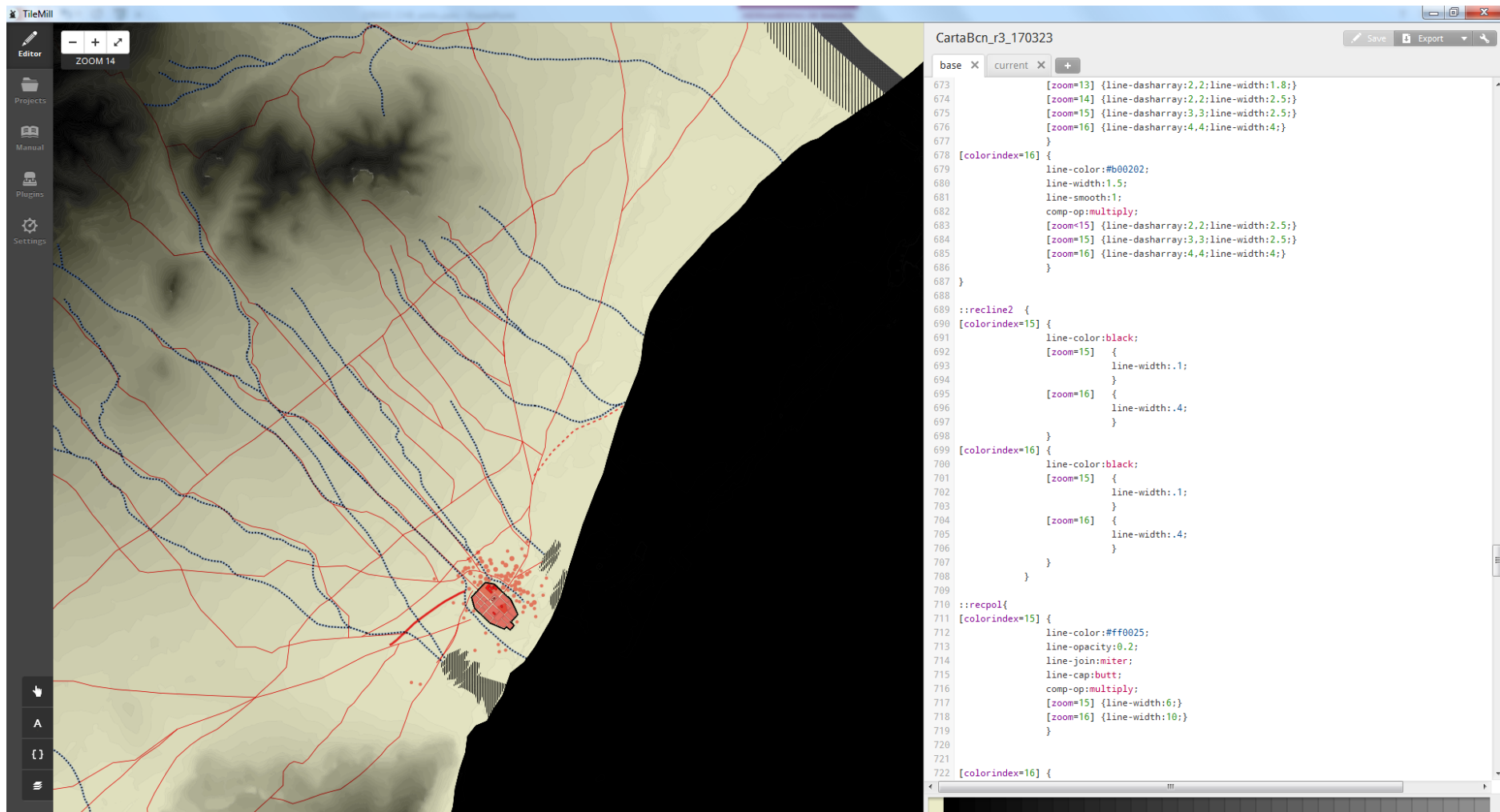
El backend

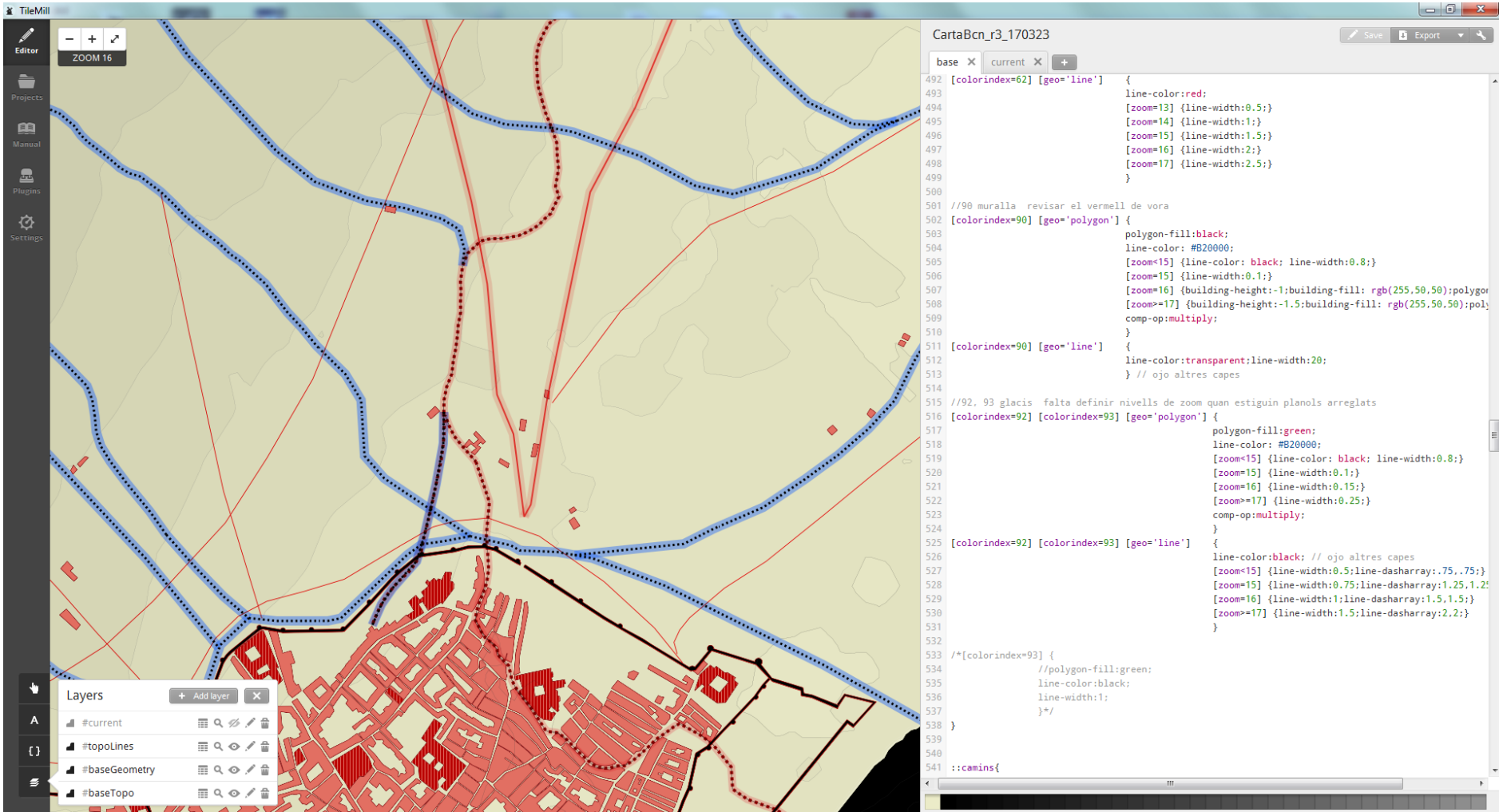
tilemill
tilestasche
mapnik

Si raster tiles:

Tilemill

<https://tilemill-project.github.io/tilemill/>



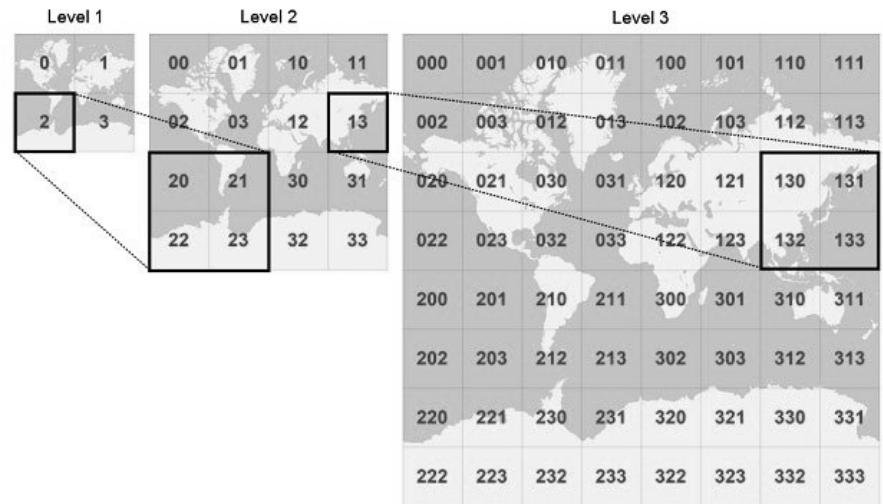
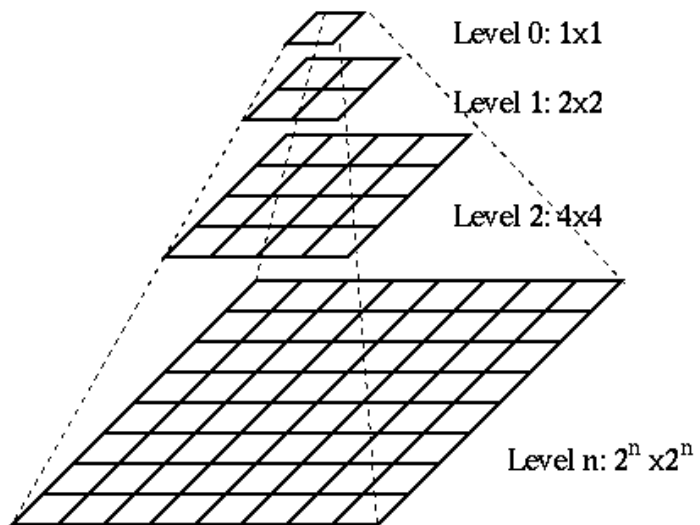


[https://github.com/mapnik/mapnik/
wiki/StyleShare](https://github.com/mapnik/mapnik/wiki/StyleShare)

Visor web

Servidor de teselas
raster
tilestasche+mapnik+mbtiles

Visor web
open layers 3



Pulse

Contributors

Commits

Code frequency

Dependency graph

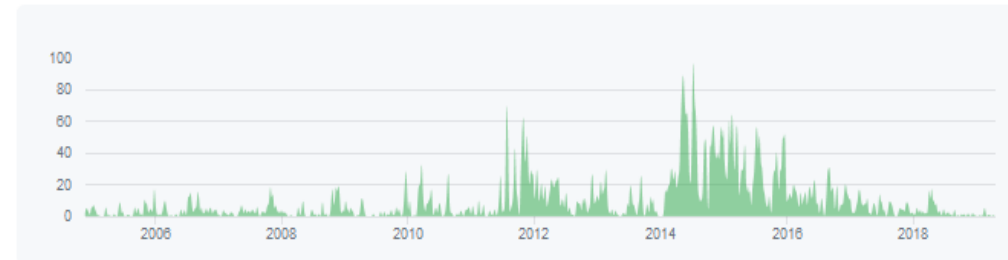
Network

Forks

Feb 13, 2005 – Jul 16, 2019

Contributions: Commits ▾

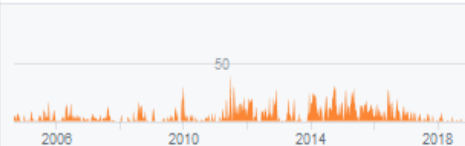
Contributions to master, excluding merge commits



artemp

#1

4,031 commits 1,145,433 ++ 902,274 --



springmeyer

#2

1,741 commits 179,754 ++ 334,816 --



herm

#3

344 commits 18,832 ++ 14,559 --



talaj

#4

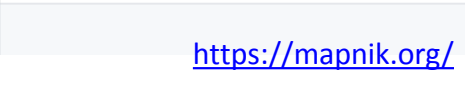
271 commits 27,335 ++ 7,816 --



flippmoke

#5

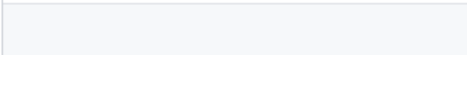
257 commits 78,026 ++ 17,789 --



kunitoki

#6

226 commits 23,697 ++ 16,401 --



code in your language

mapnik's high-quality bindings let's you choose from Node.js, Python, and C++.

[Node.js](#)[Python](#)

style with a stylesheet

Only a single XML stylesheet for your map, regardless of the code binding.

[XML Configuration](#)[Python](#)[Node](#)[C++](#)

```
import mapnik
m = mapnik.Map(256,256)
mapnik.load_map(m, "path/to/file.xml")
m.zoom_all()
mapnik.render_to_file(m, "the_image.png")
```

```
<Map background-color="blue" srs="+init=epsg:4326">
  <Style name="My Style">
    <Rule>
      <PolygonSymbolizer fill="#f2eff9" />
      <LineSymbolizer stroke="rgb(50%,50%,50%)" stroke-width="0.1" />
    </Rule>
  </Style>
  <Layer name="world" srs="+init=epsg:4326">
    <StyleName>My Style</StyleName>
    <Datasource>
      <Parameter name="file">path/to/shapefile.shp</Parameter>
      <Parameter name="type">shape</Parameter>
    </Datasource>
  </Layer>
</Map>
```

<https://mapnik.org/>

TileStache

a stylish alternative for caching your map tiles

build passing

TileStache is a Python-based server application that can serve up map tiles based on rendered geographic data. You might be familiar with [TileCache](#), the venerable open source WMS server from MetaCarta. TileStache is similar, but we hope simpler and better-suited to the needs of designers and cartographers.

Synopsis

```
import TileStache
import ModestMaps

config = {
    "cache": {"name": "Test"},
    "layers": {
        "example": {
            "provider": {"name": "mapnik", "mapfile": "examples/style.xml"},
            "projection": "spherical mercator"
        }
    }
}

# like http://tile.openstreetmap.org/1/0/0.png
coord = ModestMaps.Core.Coordinate(0, 0, 1)
config = TileStache.Config.buildConfiguration(config)
type, bytes = TileStache.getTile(config.layers['example'], coord, 'png')

open('tile.png', 'w').write(bytes)
```

Dependencies

Required:

- ModestMaps: <http://modestmaps.com>, <http://github.com/migurski/modestmaps-py>
- Python Imaging Library (Pillow): <https://python-pillow.org>

Optional:

- Simplejson: <https://github.com/simplejson/simplejson> (optional if using \geq python 2.6)
- mapnik: <http://mapnik.org> (optional)
- werkzeug: <http://werkzeug.pocoo.org/> (optional)
- mapbox-vector-tile: <https://github.com/tilezen/mapbox-vector-tile> (optional if using TileStache.Goodies.VecTiles.Provider)

<http://tilestache.org/>

Backend:
php

Base de datos:
Spatialite

Librerías:
gdal/ogr
openods
Mapnik
Tilestache

Server:

VPS

2 vCore / 4Gb / 50Gb

Linux-ubuntu

Apache + python + php + sqlite

VPS M

6 meses

5 €/mes

después 10 €/mes. IVA
excl.

Continuar

2 vCores CPU

2 GB RAM

80 GB SSD

VPS L

6 meses

10 €/mes

después 15 €/mes. IVA
excl.

Continuar

2 vCores CPU

4 GB RAM

120 GB SSD

VPS XL

6 meses

1 €/mes

después 20 €/mes. IVA
excl.

Continuar

4 vCores CPU

8 GB RAM

160 GB SSD

VPS XXL

6 meses

20 €/mes

después 30 €/mes. IVA
excl.

Continuar

6 vCores CPU

12 GB RAM

240 GB SSD

Pre procesado

Dgn / sqlites

Estilos xml

Configuración de
TileStache (.cfg)

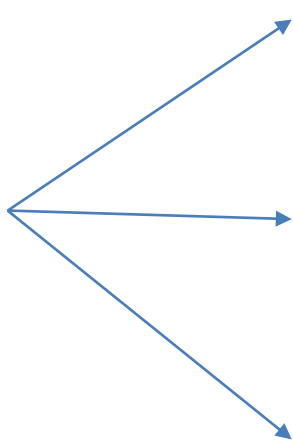
Configurador de
contenidos web

dgn

Tilestasche conf

Style sheets

Frontend conf.



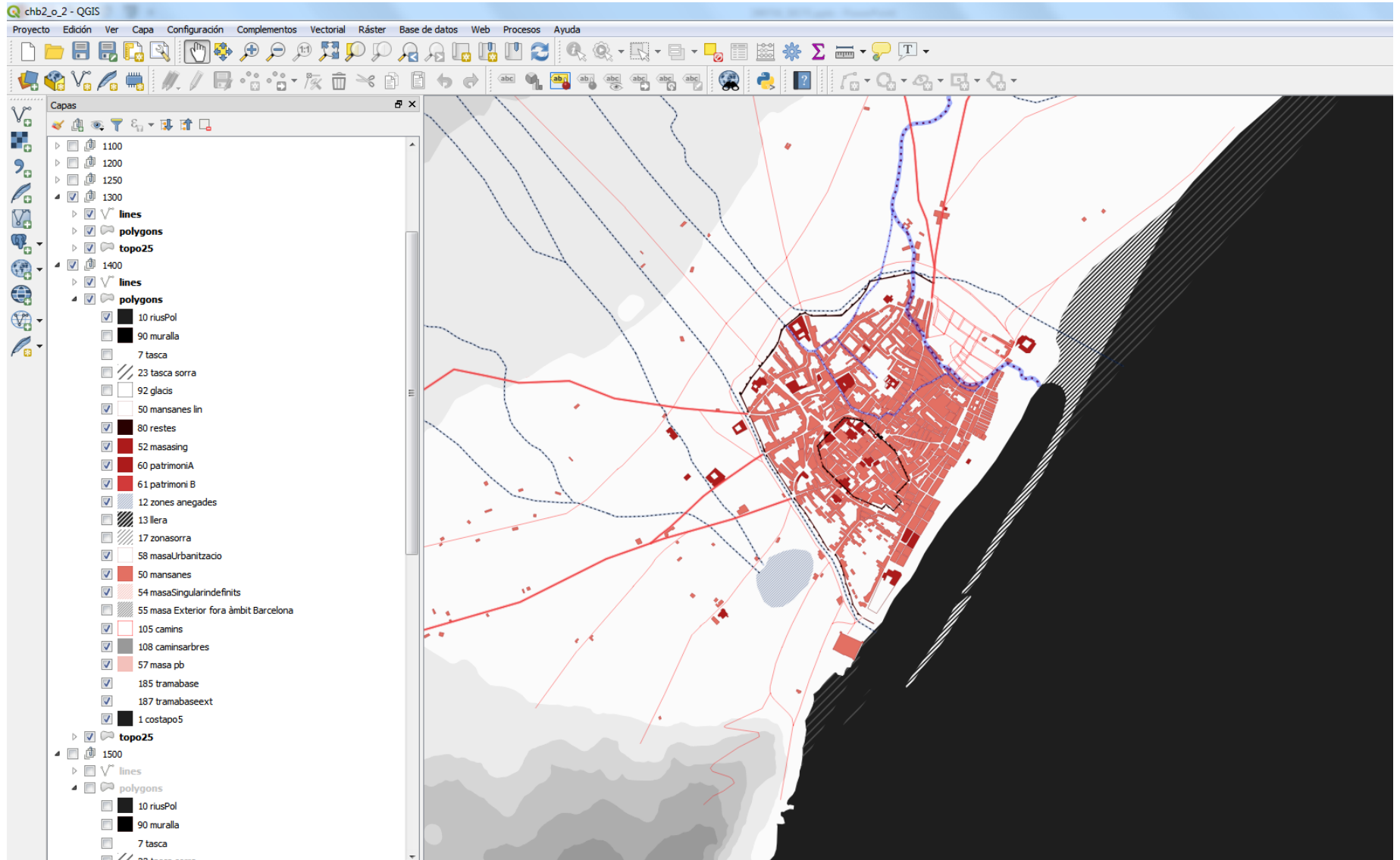
Publicación en vector tiles

qgis

Tippecanoe

Tileserver-php

qgis



Visor web

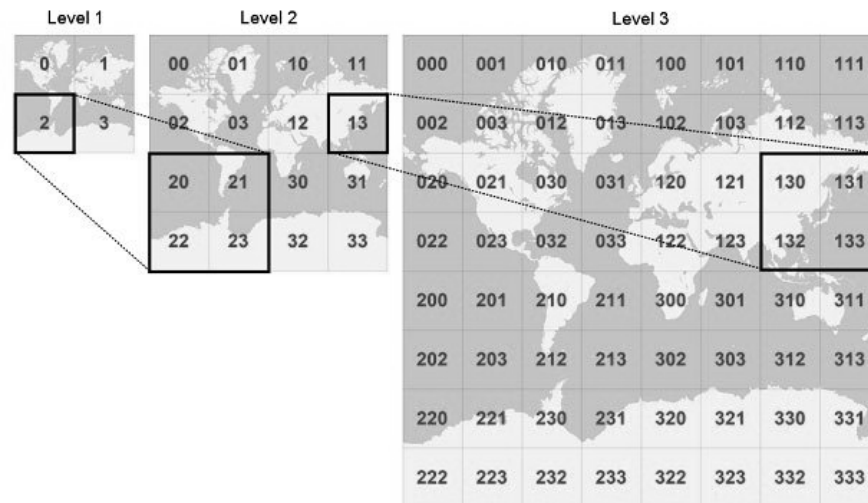
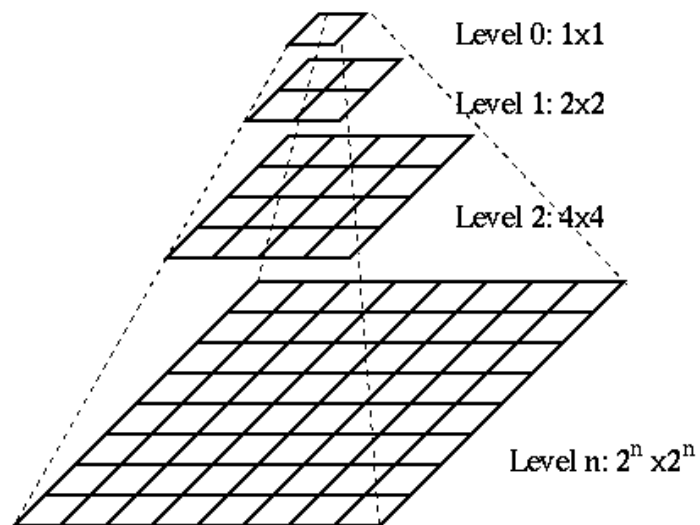
Servidor de teselas

Vector

Qgis + Python + Tippecanoe + tileserver-php

Visor web

open layers



tippecanoe

Builds [vector tilesets](#) from large (or small) collections of [GeoJSON](#), [Geobuf](#), or [CSV](#) features, [like these](#).



build passing codecov 73%

Intent

The goal of Tippecanoe is to enable making a scale-independent view of your data, so that at any level from the entire world to a single building, you can see the density and texture of the data rather than a simplification from dropping supposedly unimportant features or clustering or aggregating them.

If you give it all of OpenStreetMap and zoom out, it should give you back something that looks like "[All Streets](#)" rather than something that looks like an Interstate road atlas.

If you give it all the building footprints in Los Angeles and zoom out far enough that most individual buildings are no longer discernable, you should still be able to see the extent and variety of development in every neighborhood, not just the largest downtown buildings.

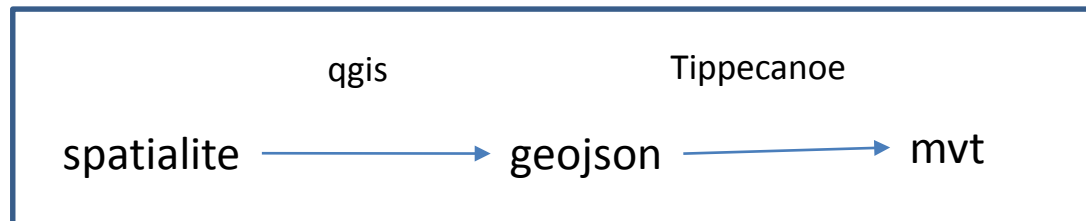
If you give it a collection of years of tweet locations, you should be able to see the shape and relative popularity of every point of interest and every significant travel corridor.

tippecanoe -o out.mbtiles in.geojson

"tippecanoe -s EPSG:4326 -o mbtiles/file.mbtiles -z18 -Z12 -d10 --extend-zooms-if-still-dropping layer.geojson"



*.mbtiles



TileServer PHP: MapTiler and MBTiles maps via WMTS

[build](#) [error](#) [docker](#) [hub](#)

This server distributes maps to desktop, web, and mobile applications from a standard Apache+PHP web hosting.

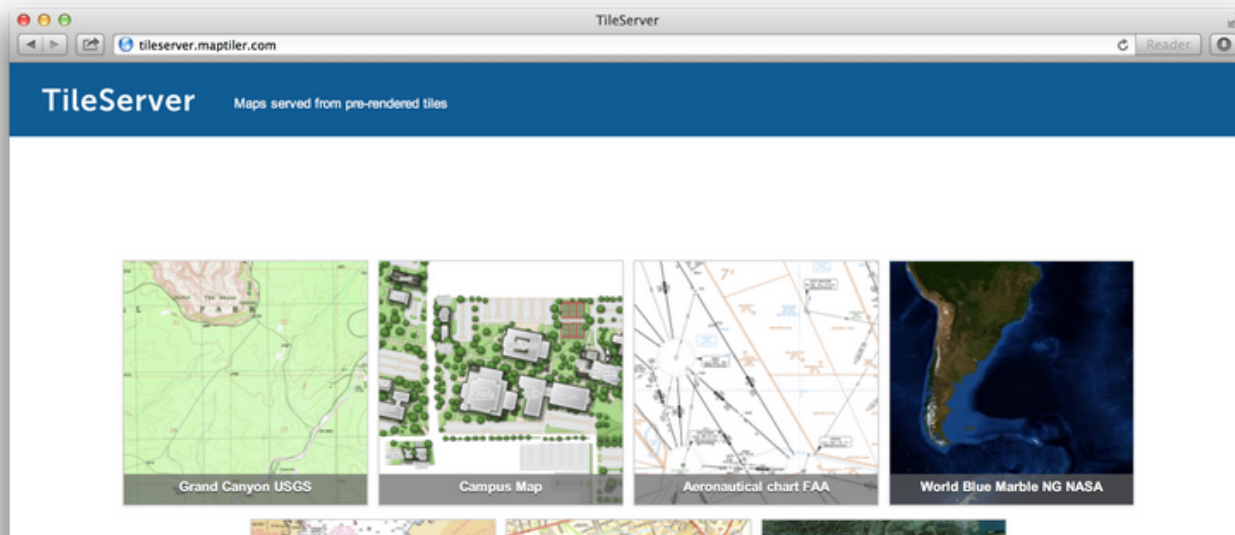
Try a live demo at: <http://tileserver.maptiler.com/>

It is a free and open-source project implementing OGC WMTS standard for pre-rendered map tiles made with [MapTiler](#), GDAL2Tiles, or available as MBTiles files.

It is the easiest and cheapest way how to serve zoomable maps in a standardized way - practically from any ordinary web hosting.

It is easy to install - just copy the project files to a PHP-enabled directory along with your map data.

It comes with an online interface showing the list of the maps and step-by-step guides for online mapping libraries (Google Maps API, Leaflet, OpenLayers, OL3, MapBox JS, ArcGIS JS) and various desktop GIS software:



Server:

Hosting compartido
50GB

Apache + php

Essential

Para páginas web sencillas

6 meses

1 €/mes

después 3 €/mes. IVA excl.

Continuar

Dominios

1 dominio gratis
1 Certificado SSL Wildcard

E-Mail

10 cuentas de e-mail
2 GB capacidad por cuenta

Hosting

50 GB de almacenamiento
5 bases de datos (1 GB SSD)
Hasta 512 MB RAM
PHP 7.3 (256 MB).

Business

Para páginas web dinámicas

Oferta especial

1 año

1 €/mes

después 8 €/mes. IVA excl.

Continuar

Dominios

2 dominios gratis
1 Certificado SSL Wildcard

E-Mail

100 cuentas de e-mail
2 GB capacidad por cuenta

Hosting

100 GB de almacenamiento
100 bases de datos (1 GB SSD)
Hasta 2,5 GB RAM
PHP 7.3 (512 MB)

Expert

Para páginas web de empresas

6 meses

1 €/mes

después 10 €/mes. IVA excl.

Continuar

Dominios

3 dominios gratis
1 Certificado SSL Wildcard

E-Mail

250 cuentas de e-mail
2 GB capacidad por cuenta

Hosting

250 GB de almacenamiento
250 bases de datos (1 GB SSD)
Hasta 6 GB RAM
PHP 7.3 (640 MB)

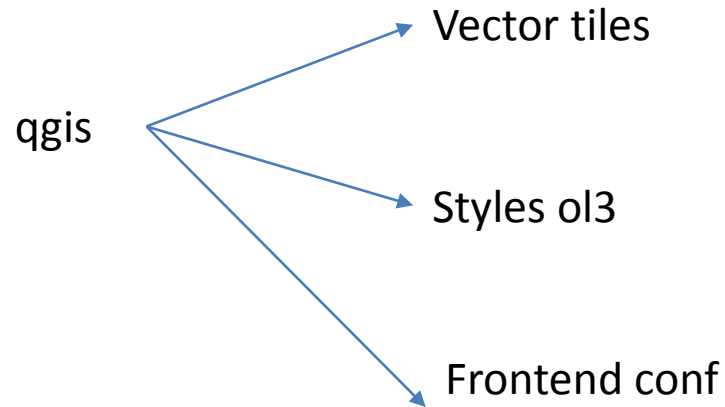
SiteLock malware protection

Dgn / sqlites

Estilos ol3

Vector tiles

Configurador de
contenidos web



Publicación

El frontend

OL3



A high-performance, feature-packed library for all your mapping needs.

LATEST

OpenLayers v5.3.0 is here! Check out the [docs](#) and the [examples](#) to get started. The full distribution can be downloaded from the [release page](#).

OVERVIEW

OpenLayers makes it easy to put a dynamic map in any web page. It can display map tiles, vector data and markers loaded from any source. OpenLayers has been developed to further the use of geographic information of all kinds. It is completely free, Open Source JavaScript, released under the 2-clause BSD License (also known as the FreeBSD).

FEATURES

Tiled Layers

Pull tiles from OSM, Bing, MapBox, Stamen, and any other XYZ source you can find. OGC mapping services and untiled layers also supported.



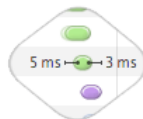
Vector Layers

Render vector data from GeoJSON, TopoJSON, KML, GML, Mapbox vector tiles, and other formats.



Cutting Edge, Fast & Mobile Ready

Leverages Canvas 2D, WebGL, and all the latest greatness from HTML5. Mobile support out of the box. Build lightweight custom profiles with just the components you need.



Easy to Customize and Extend

Style your map controls with straight-forward CSS. Hook into different levels of the API or use [3rd party libraries](#) to customize and extend functionality.



LEARN MORE

✓ Quick Start

Seen enough already? Go [here](#) to get started.

📄 Get the Code

Get the latest release or dig through the [archives](#).

<https://openlayers.org/>

CARTA HISTÒRICA DE BARCELONA

iniciis segle V

Mauris mauris ante, blandit et, ultrices a, suscipit eget, quam. Integer ut neque. Vivamus nisi metus, molestie vel, gravida in, condimentum sit amet, nunc. Nam a nibh. Donec suscipit eros. Nam mi. Proin viverra leo ut odio. Curabitur malesuada. Vestibulum a velit eu ante scelerisque vulputate. Mauris mauris ante, blandit et, ultrices a, suscipit eget, quam. Integer ut neque. Vivamus nisi metus, molestie vel, gravida in, condimentum sit amet, nunc. Nam a nibh. Donec suscipit eros. Nam mi. Proin viverra leo ut odio. Curabitur malesuada. Vestibulum a velit eu ante scelerisque vulputate.

capa 1

capa 2

capa 3



- edificis singulars
- edificis singulars
- edificis singulars

150 a.c. 100 a.c. 14 a.c. 200 260 550 1000 1100 1200 1300

CARTA HISTÒRICA DE BARCELONA



260. Barcino at the end of the Pax Romana

Foundational city walls are a ritual element and a symbol of prestige, which mark the limits of representational space and the living spaces for the elite. Outside the walls lies the suburbium, occupied by the rest of the population. At the end of the 3rd century the Pax Romana comes to an end, and a time of greater uncertainty begins. At that point the Roman wall will be reinforced and 76 towers will be built, transforming it into an impressive defense system.

500 m

150 a.C. 100 a.C. 10 a.C. 200 550 1000 1100 1200 1250 1300 1400 1500 1600 1700 1750 1840 1859 1890 1903 1936 1956 1976 1992 2004 2010

260







CARTA HISTÒRICA DE BARCELONA

1936. Barcelona abans de la Guerra Civil

Xarxa de metro

- Transversal
- Gran Metro
- Gran Metro

Xarxa de tramvies

- Línia 1
- Línia 2
- Línia 3
- Línia 4

Refugis Antiaeris

La militarització de la ciutat

- Bateria antiaèria
- Bateria de mar
- Reflectors antiaeris
- Barraquisme
- Zones barraquistes

500 m

150 a.C. 100 a.C. 10 a.C. 200 260 550 1000 1100 1200 1250 1300 1400 1500 1600 1700 1750 1840 1859 1890 1903 1936 1956 1976 1992 2004 2010

CARTA
HISTÓRICA DE
BARCELONA



150 a.C. 100 a.C. 10 a.C. 200 260 550 1000 1100 1200 1250 1300 1400 1500 1600 1700 1750 1840 1859 1890 1903 1936 1956 1976 1992 2004 2010

1936





Direction:

The CHB is a project conceived and developed by MUHBA

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Direction of cartography:
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Supervision of cartography:
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Image management and documentation
Carme García Soler, Marta Iglesias Urbano

Development:

Elaboration of cartography
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Pablo Martínez
i Mar Santamaria

Collaborators:
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Cartographic server and website:
Gerald Kogler i 300.000Km/s

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Màster de Restauració de Monuments (MRM)

Institut de Cultura de Barcelona (ICUB)

Àrea Metropolitana de Barcelona (AMB)

Barcelona d'Infraestructures Municipals (BIMSA)

<http://ajuntament.barcelona.cat/museuhistoria/cartahistorica/index.htm>