

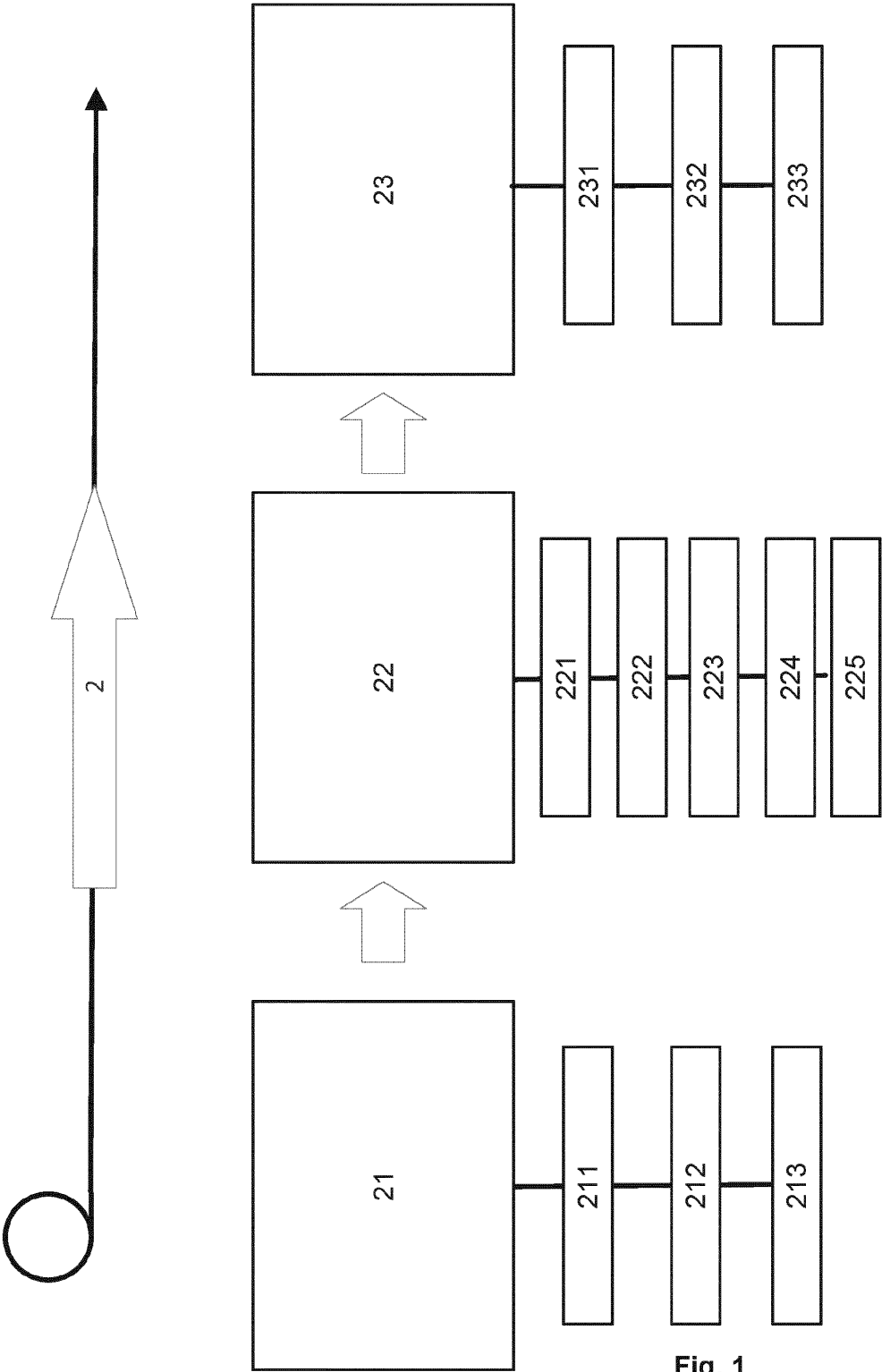


Fig. 1

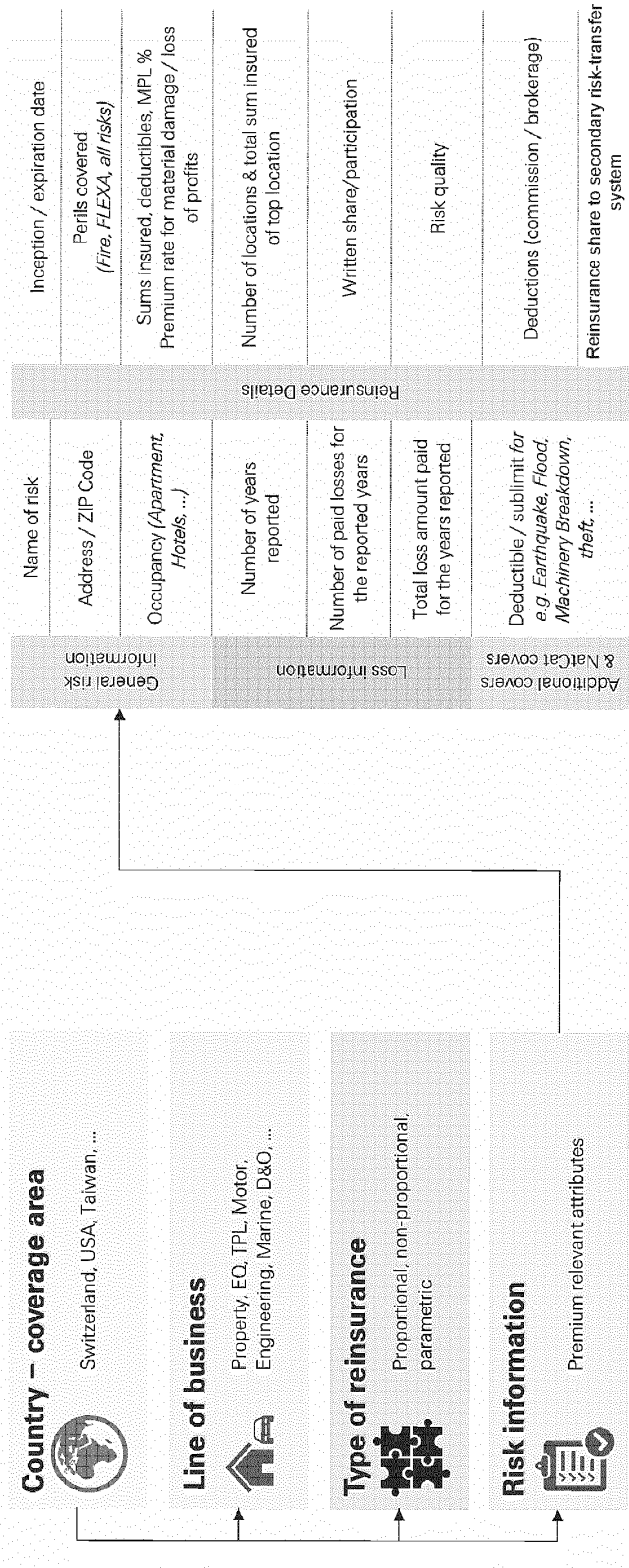


Fig. 2

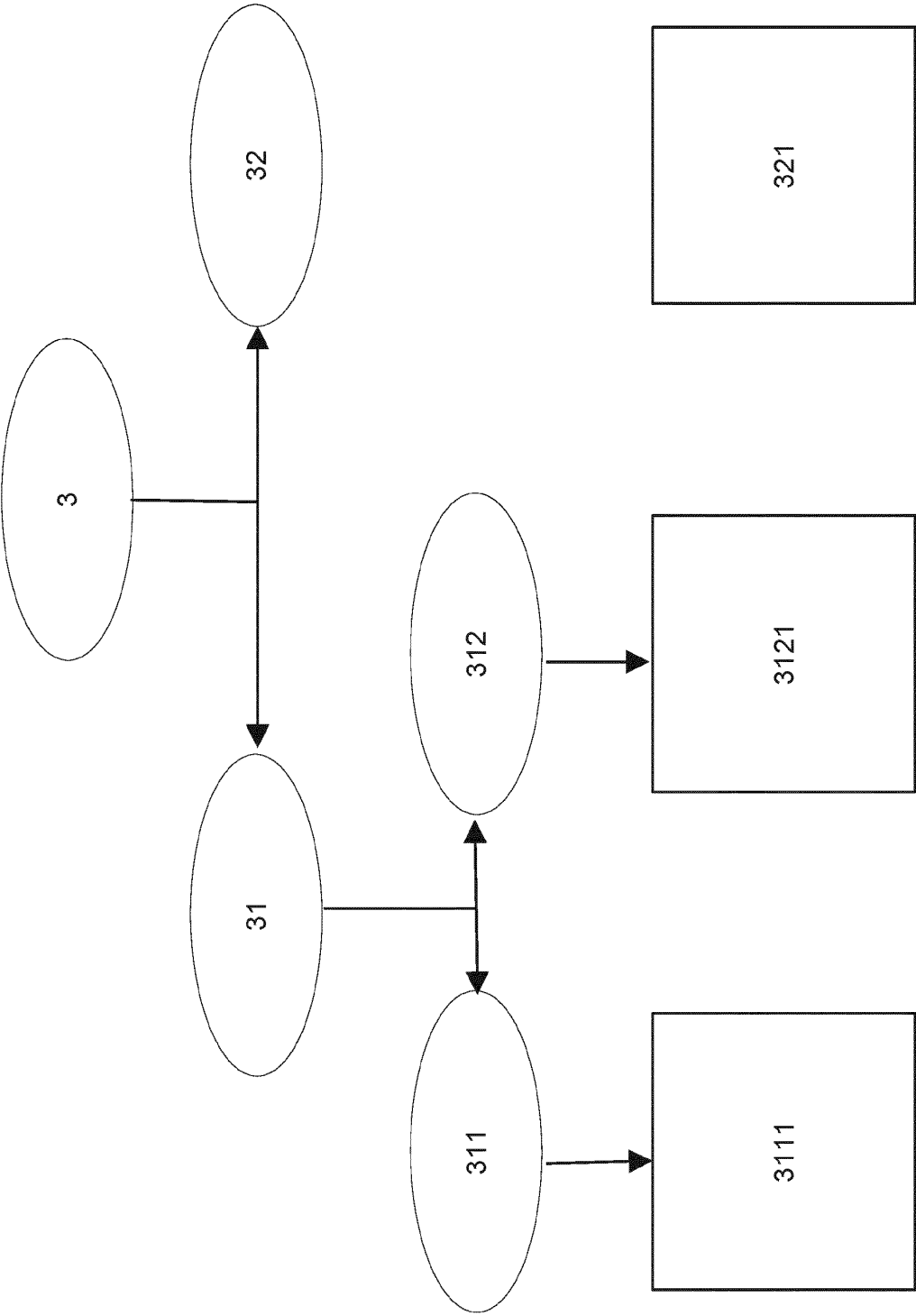


Fig. 3

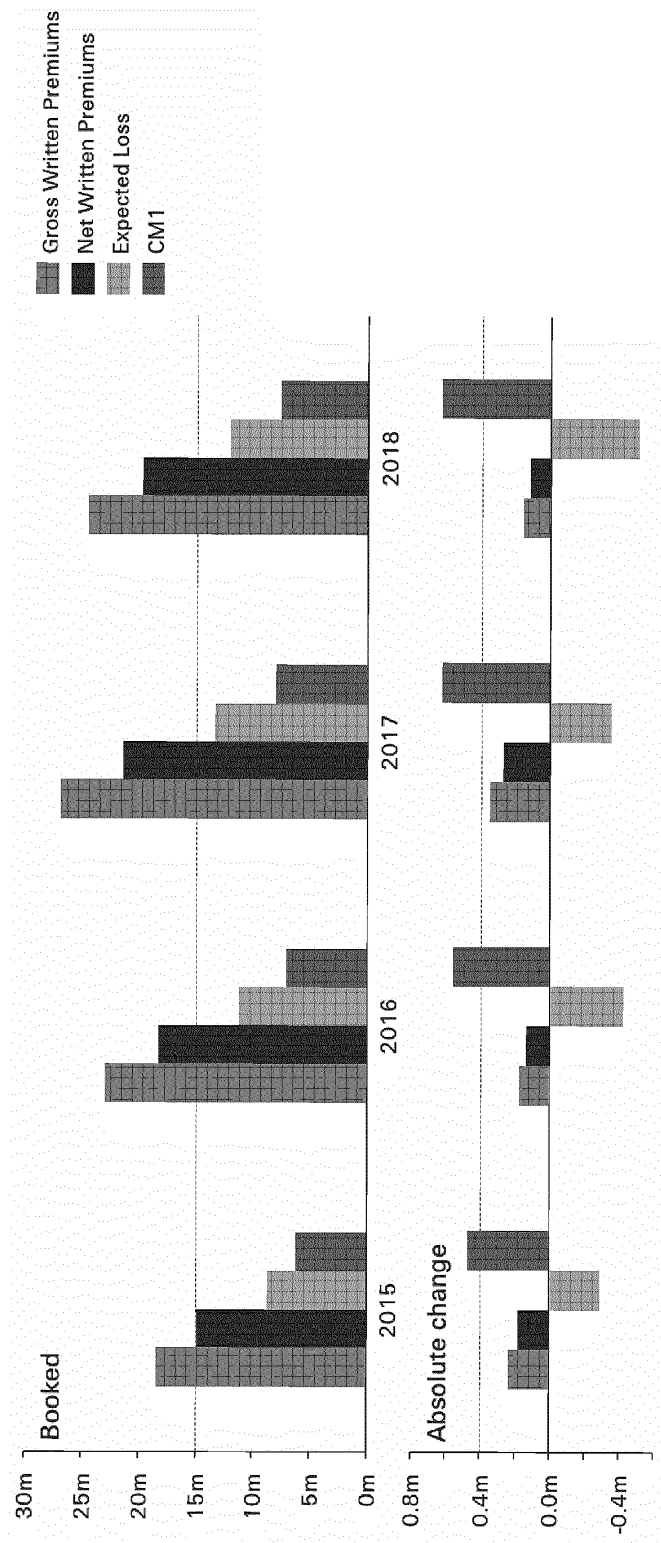


Fig. 4

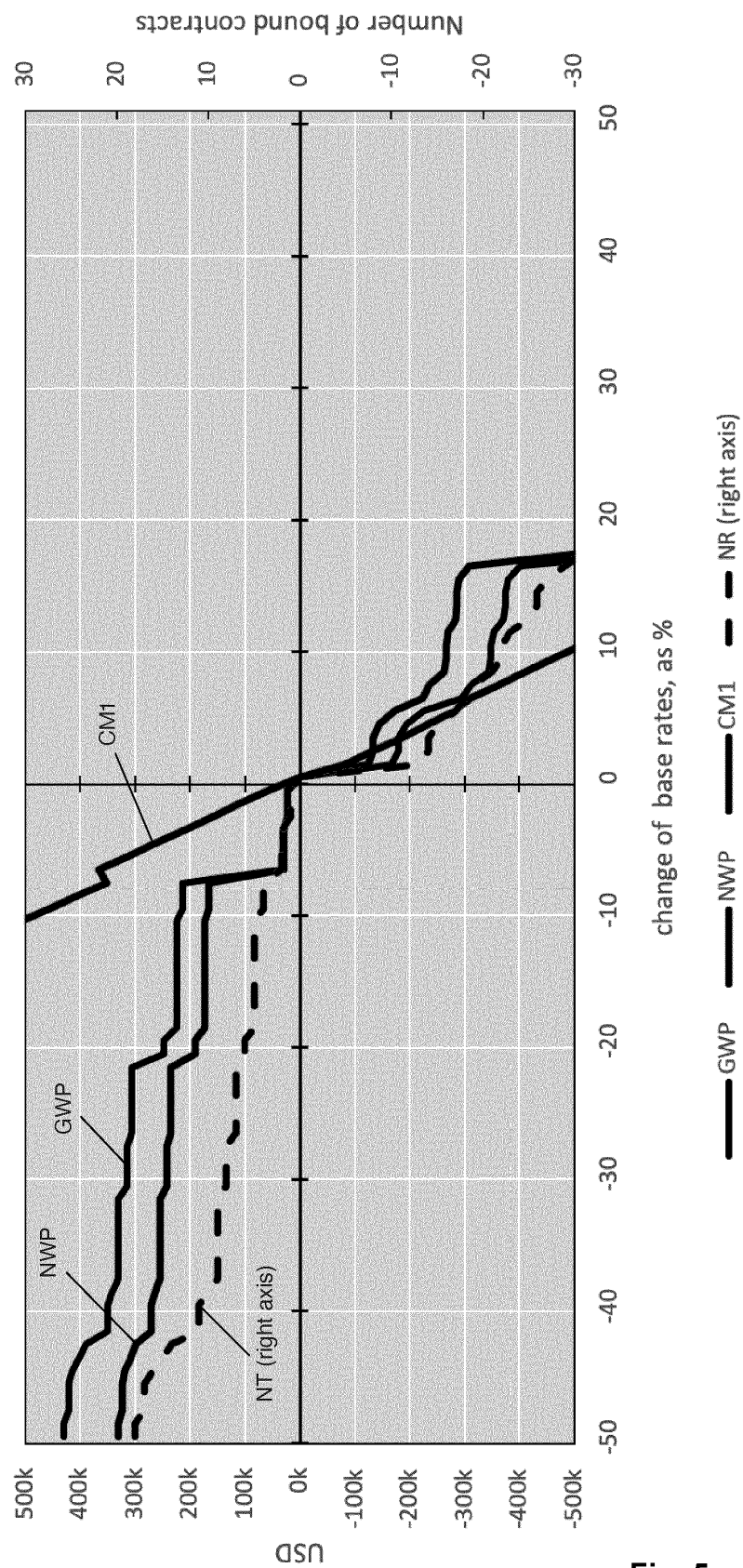


Fig. 5

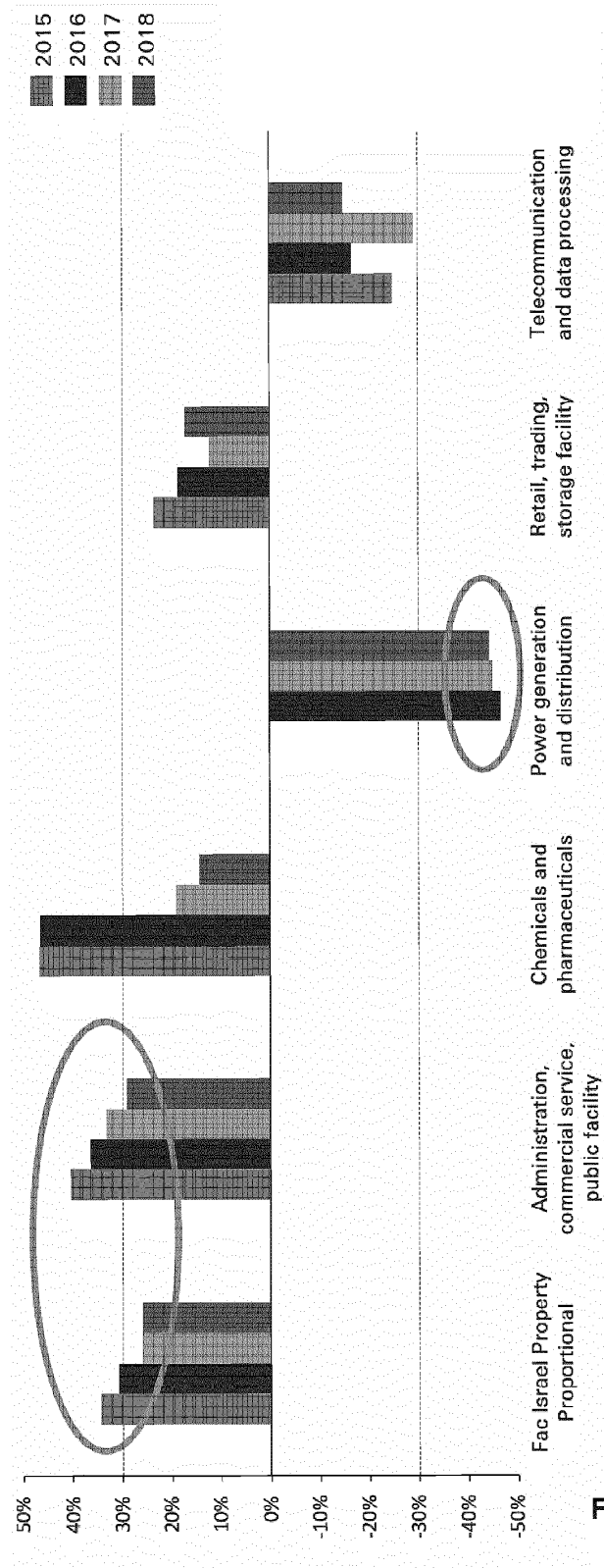


Fig. 6

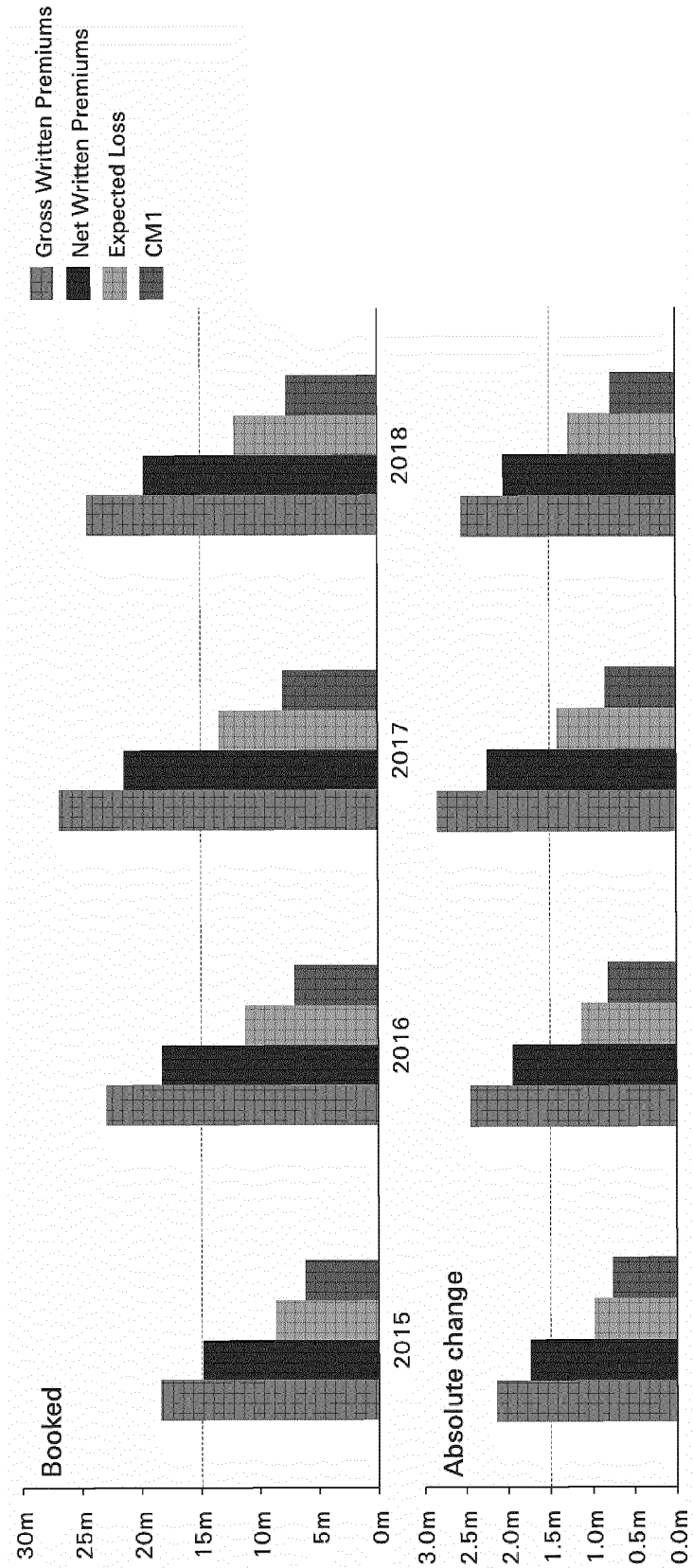


Fig. 7

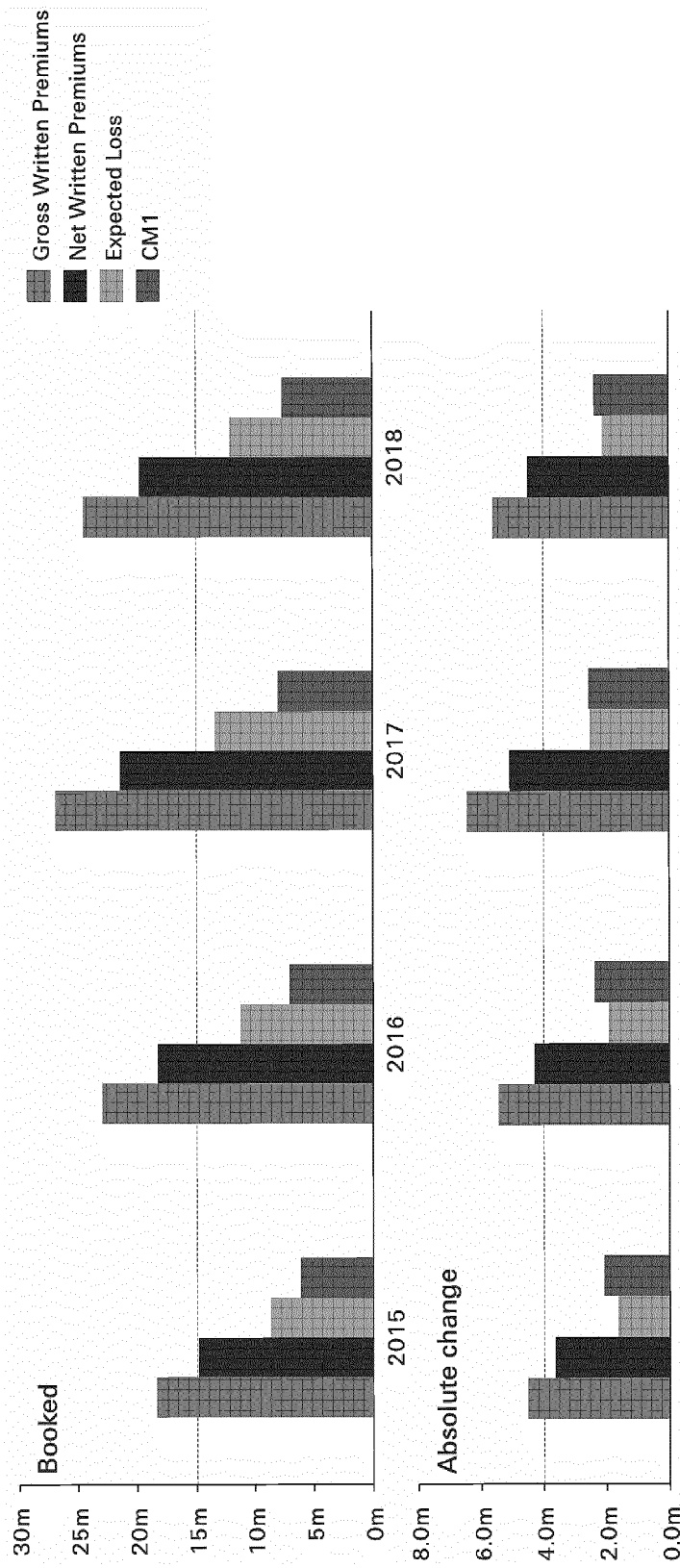
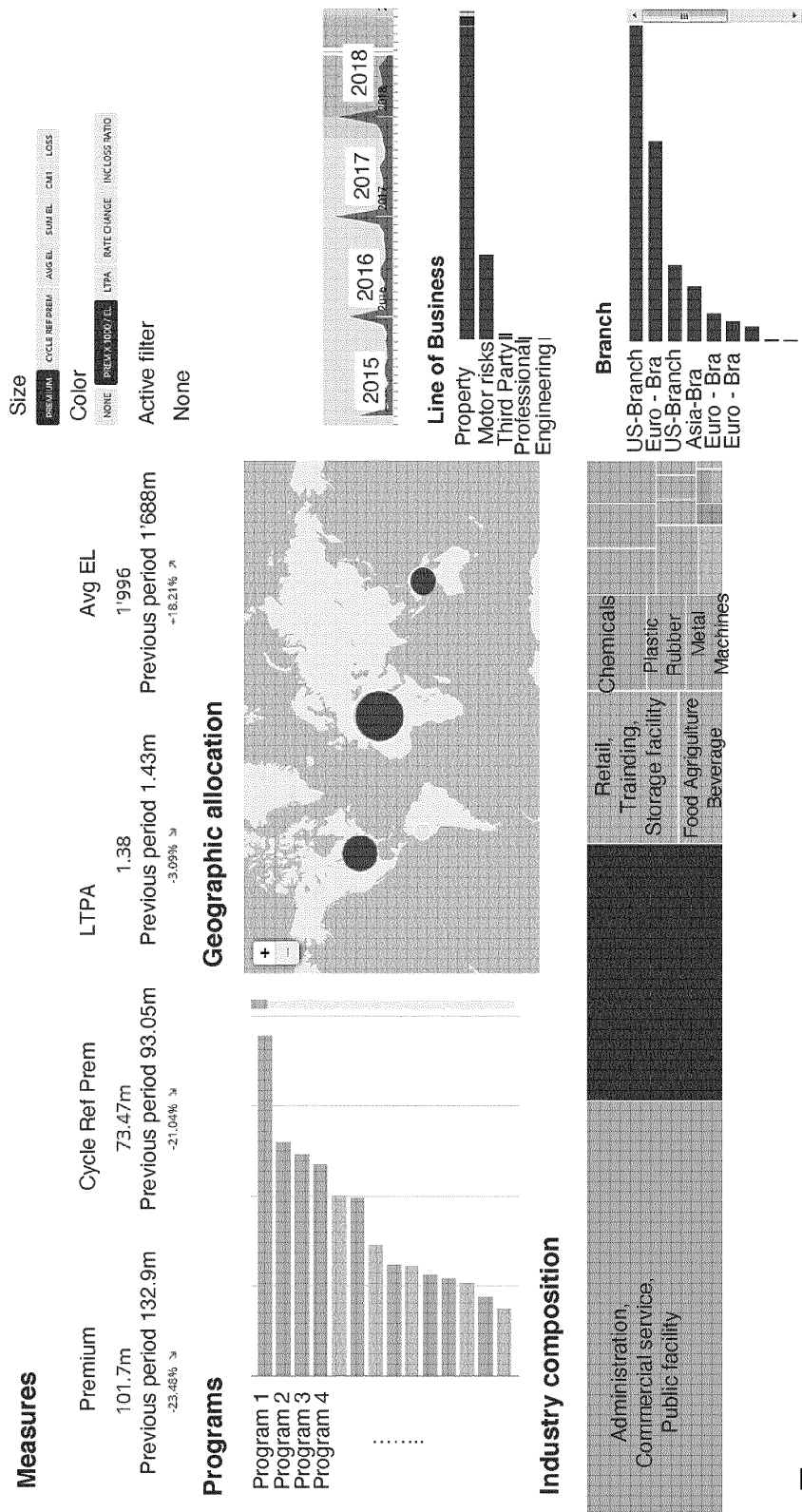


Fig. 8



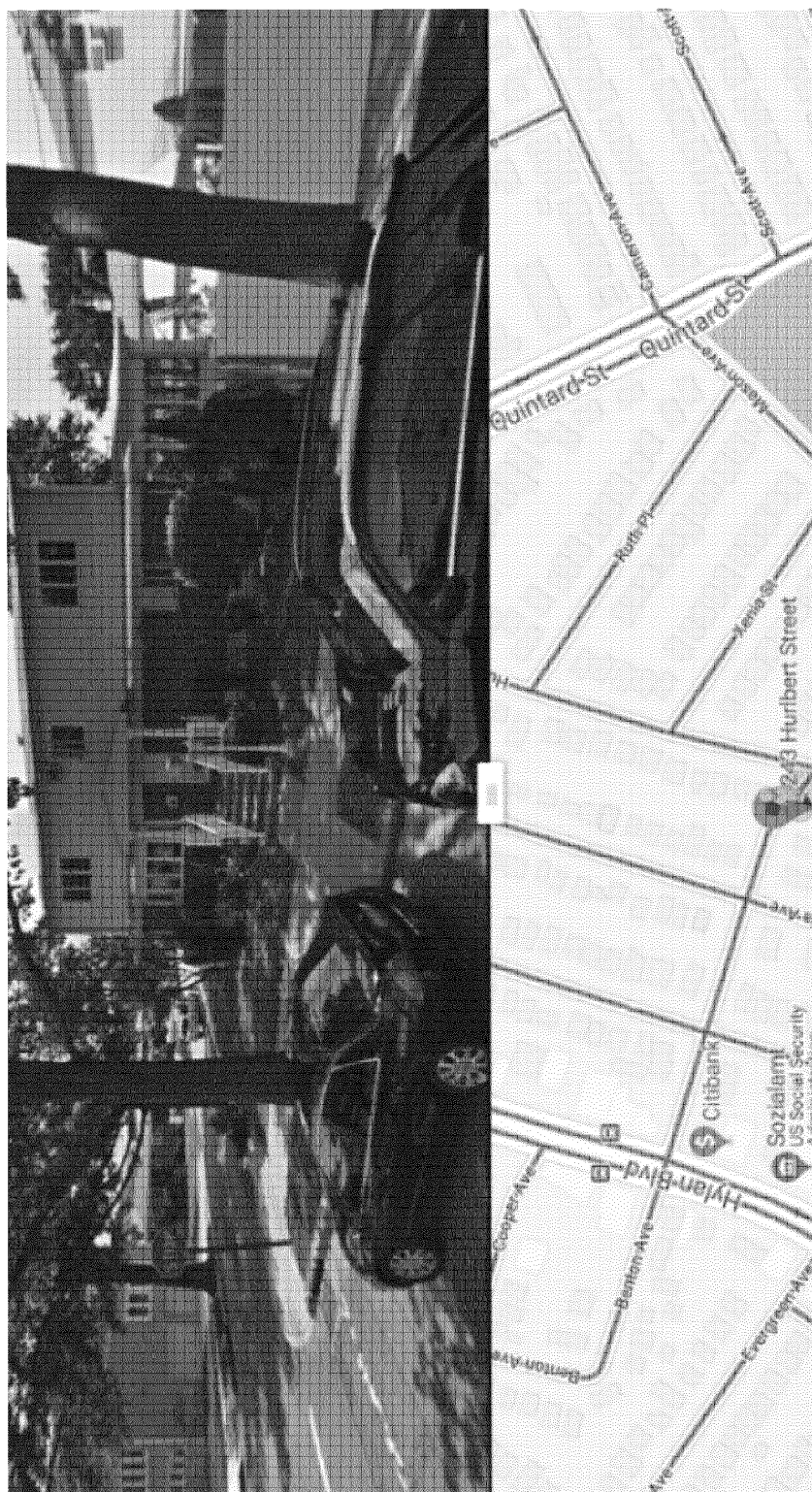


Fig. 10

	Peril	Ground-up Loss
Portfolio with minimum attributes set	Earthquake - Shock	\$ 22
	Flood - River	\$ 48
	Tropical Cyclone - Wind	\$ 701
	Overall Total (All Perils)	\$ 771

Fig. 11a

	Peril	Ground-up Loss
Portfolio enriched with NCEDI	Earthquake - Shock	\$ 18
	Flood - River	\$ 47
	Tropical Cyclone - Wind	\$ 801
	Overall Total (All Perils)	\$ 867

Fig. 11b

Name: Site/1004013113454090		Perils:	
Condition Geographical Location Physical Properties Flood Physical Properties Storm Physical Properties EQ Physical Properties Expert Attributes			
Geo Input Data		Geocoded Data	
Country:	United States (USA)	Admin 0:	United States (USA) (339)
State/Province:		Admin 1:	New York (12026)
County/District:		Admin 2:	Richmond (318119)
Cresta Code:		Cresta:	Richmond (403818)
Cresta Name:			
Sub Cresta Code:		Sub Cresta:	
Sub Cresta Name:			
Zip Code:		Highest Res. Zip:	10305 (50003240)
Zip Code Resolution:		Place:	
City:			
Street:	243 huribert st	Latitude:	40.59138
House Number:	243	Longitude:	-74.08497
Latitude:	40.59138	Encoding Quality:	EXACT
Longitude:	-74.08497	Encoding Status:	ENCODED_AND_COMPLETED
Geocoding Resolution:		Rating Zone:	EQ USA Rest (650044) FL USA Mainland (653051) TC USA Zone 2 (651032)
Geocoding Quality:			

Fig. 12a

Name: Site/100-401311345-4090		Perils:	
Condition	Geographical Location	Physical Properties	Flood Physical Properties
		Storm Physical Properties	Expert Attributes

Input Properties		Reference Properties	
Occ Level 1:		Reference Occ Level 1:	Residential (1018255)
Occ Level 2:		Reference Occ Level 2:	Single-family housing (1018256)
Occ Level 3:		Reference Occ Level 3:	
Main Struct. Type:		Reference Main Struct. Type:	Wood frames (1)
Det. Struct. Type:		Reference Det. Struct. Type:	General wood frames (31)
Design Year:	1960	Reference Design Year	1960
Number of Storeys:	2		
Shape Irregularity:			
No. Of Risks:	1		
Risks Proximity:	☒ Risks In Geo Proximity Flag		
Source Primary Site ID:			
Source Site Name:			
Primary Building Flag:	☐ Primary Building		

Fig. 12b

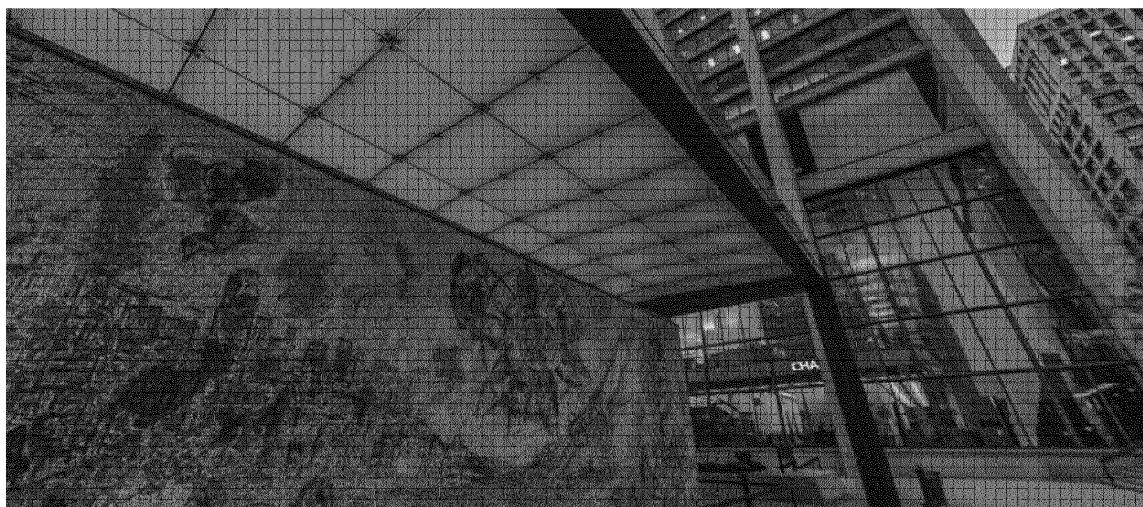


Fig. 13a

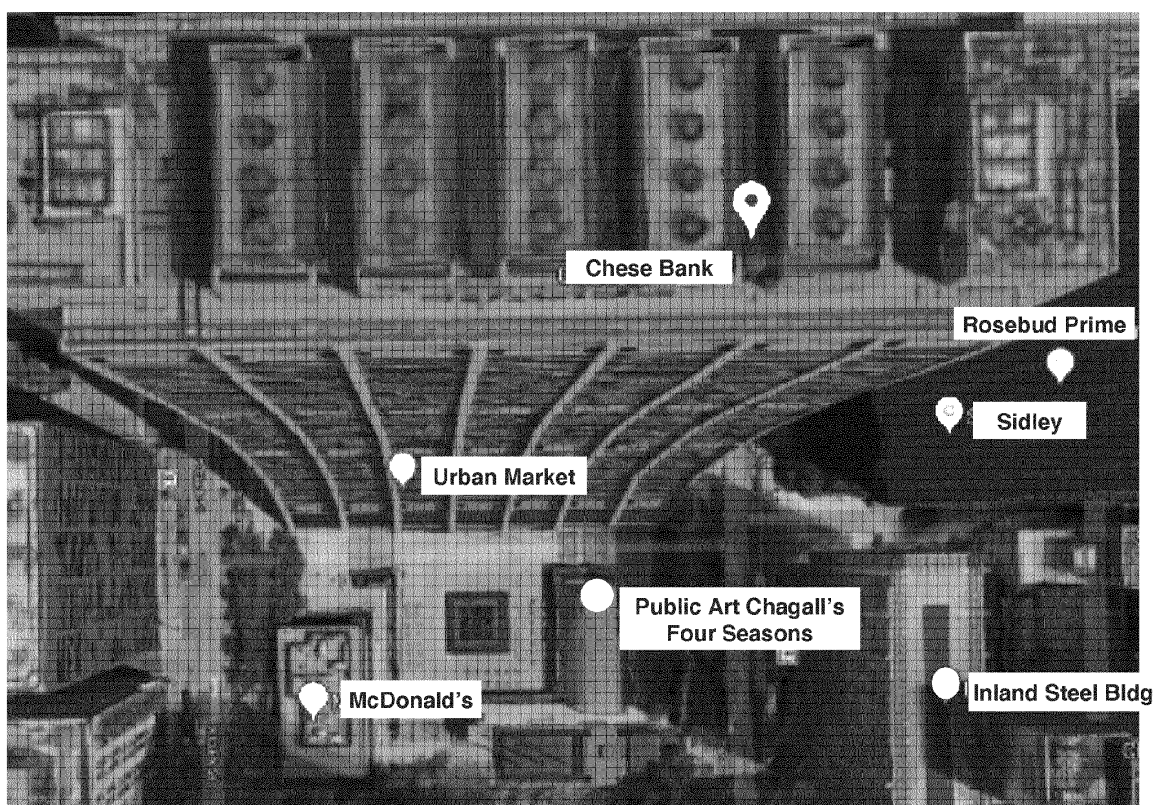


Fig. 13b

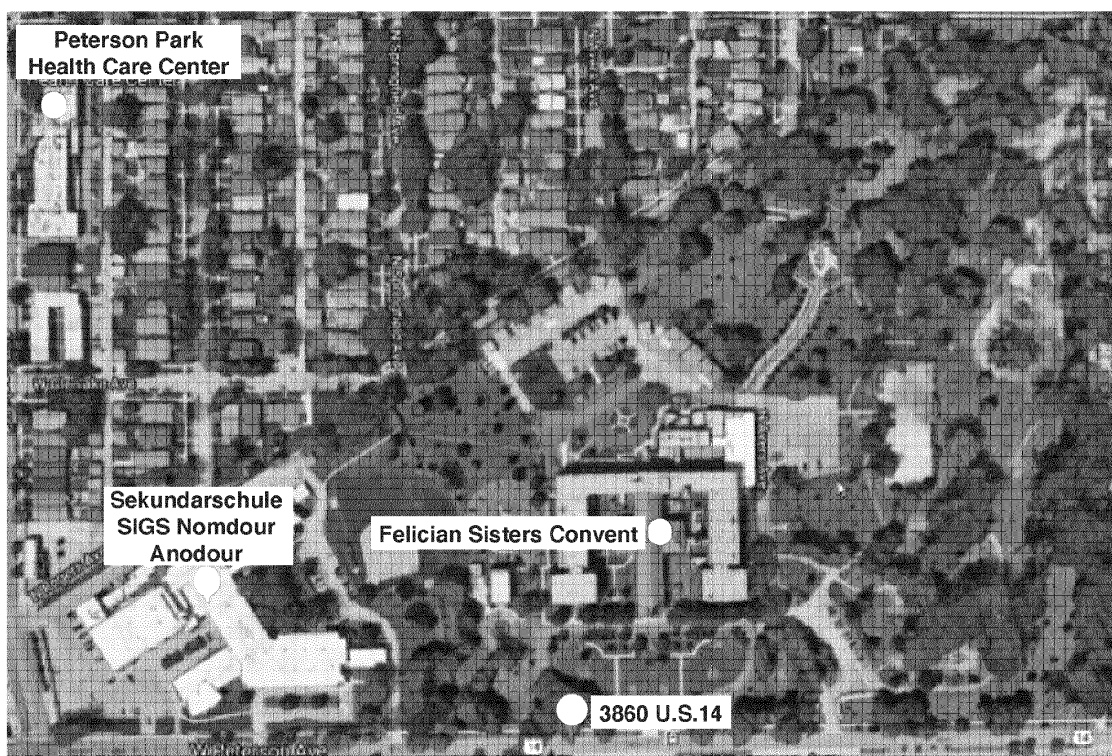


Fig. 14a



Fig. 14b

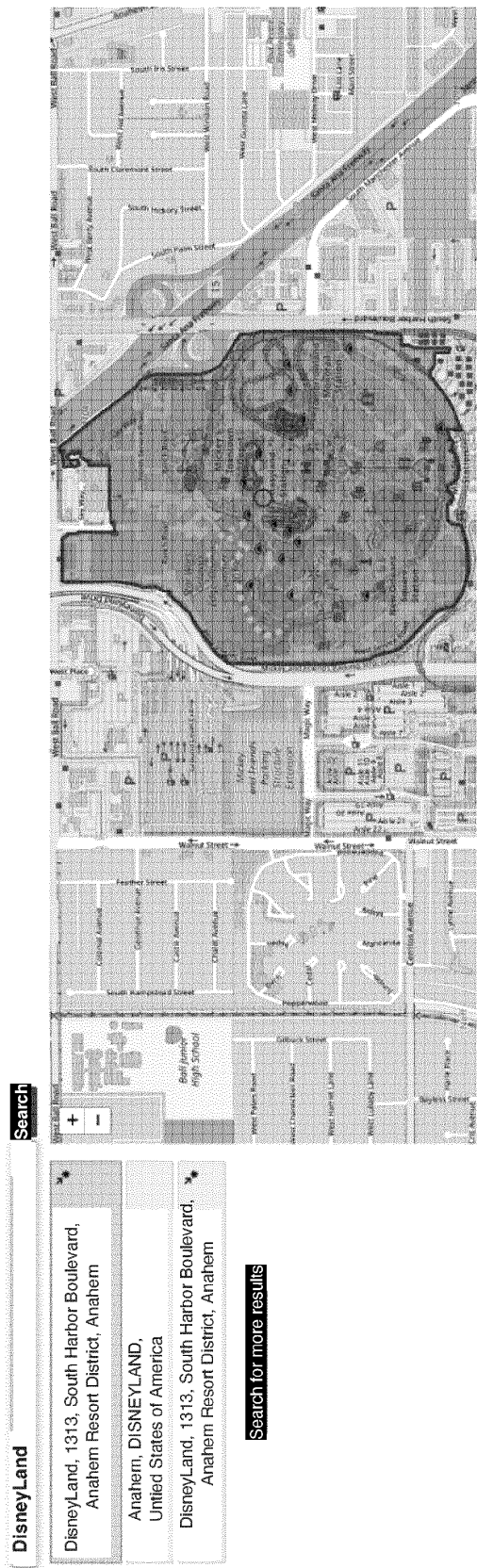


Fig. 15



Fig. 16

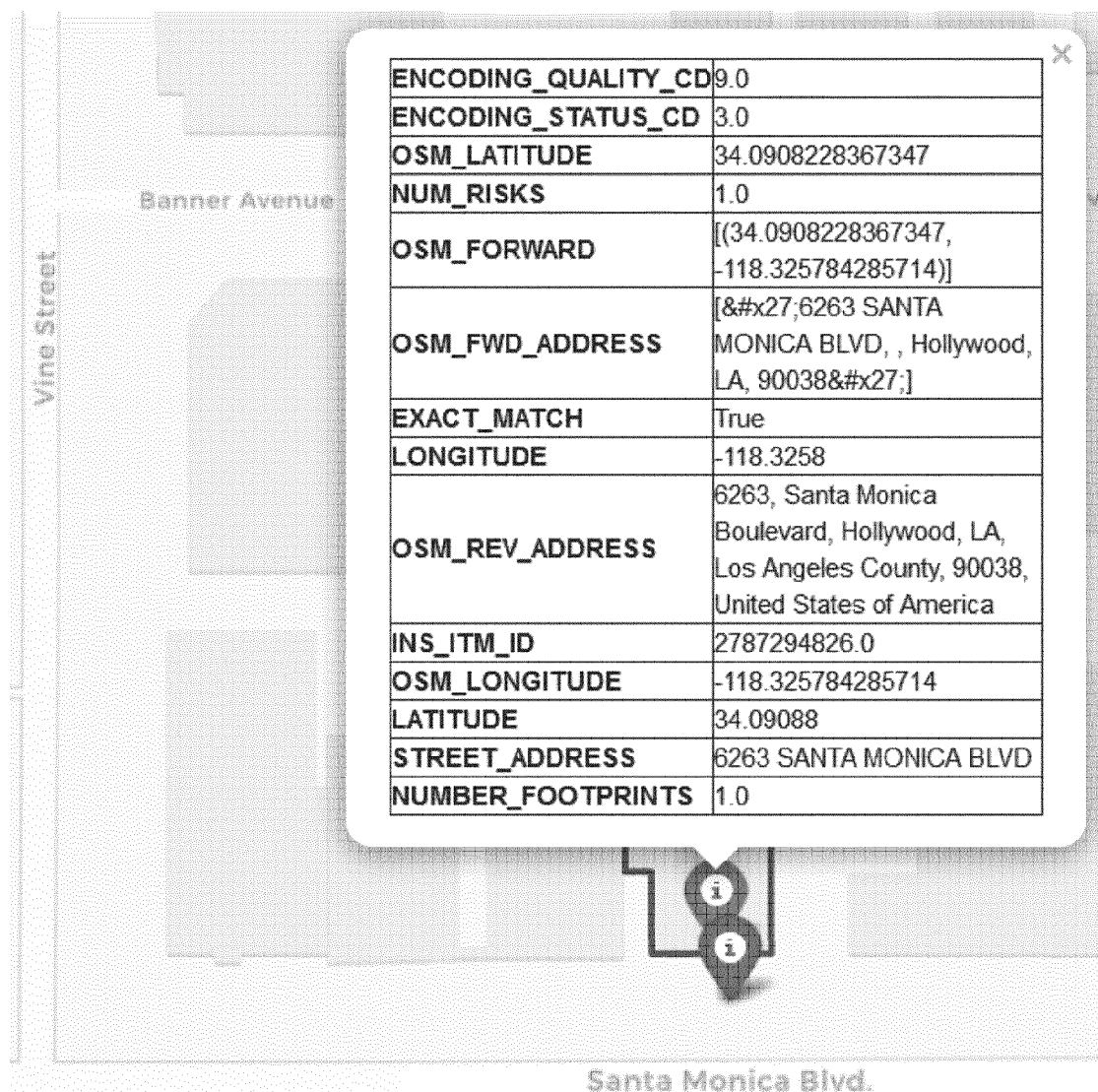


Fig. 17

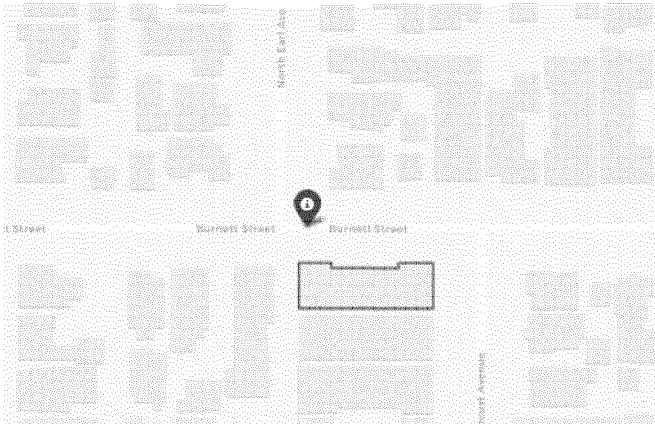
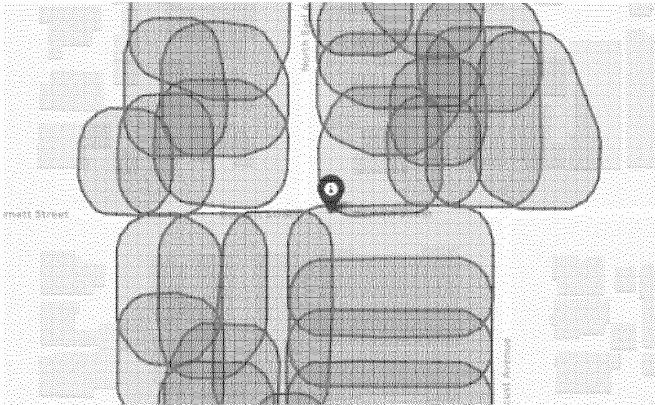
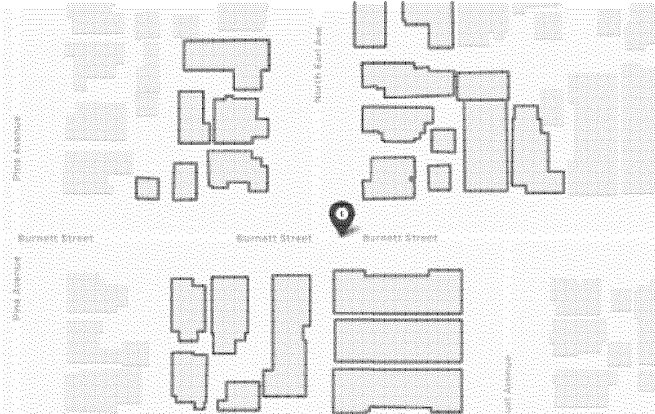


Fig. 18

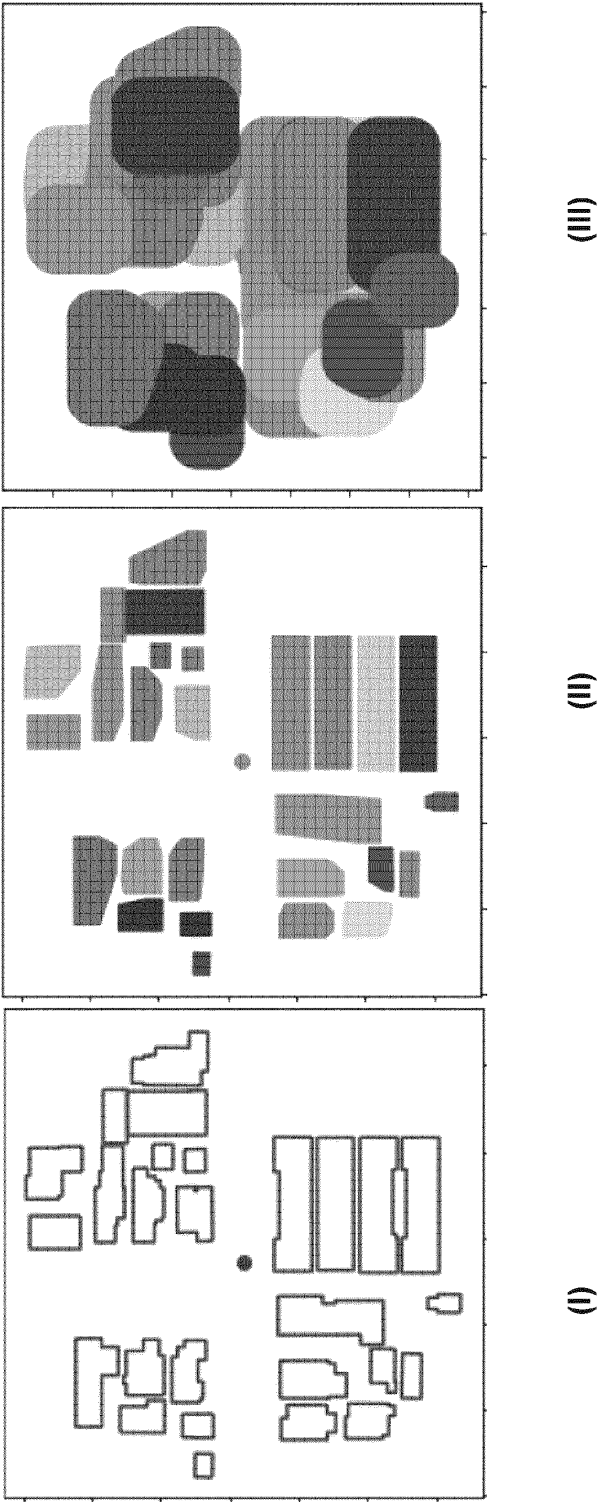


Fig. 19

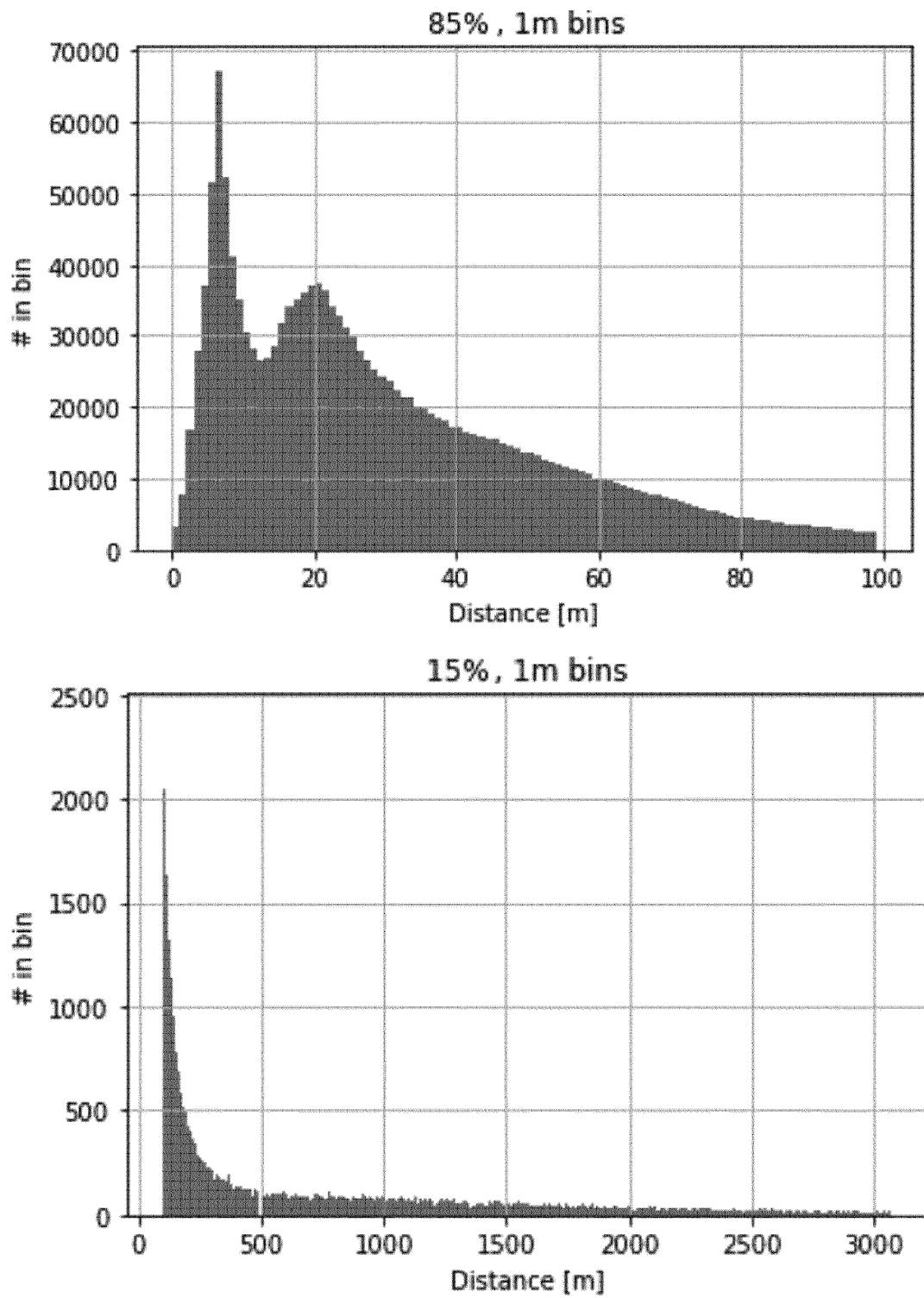
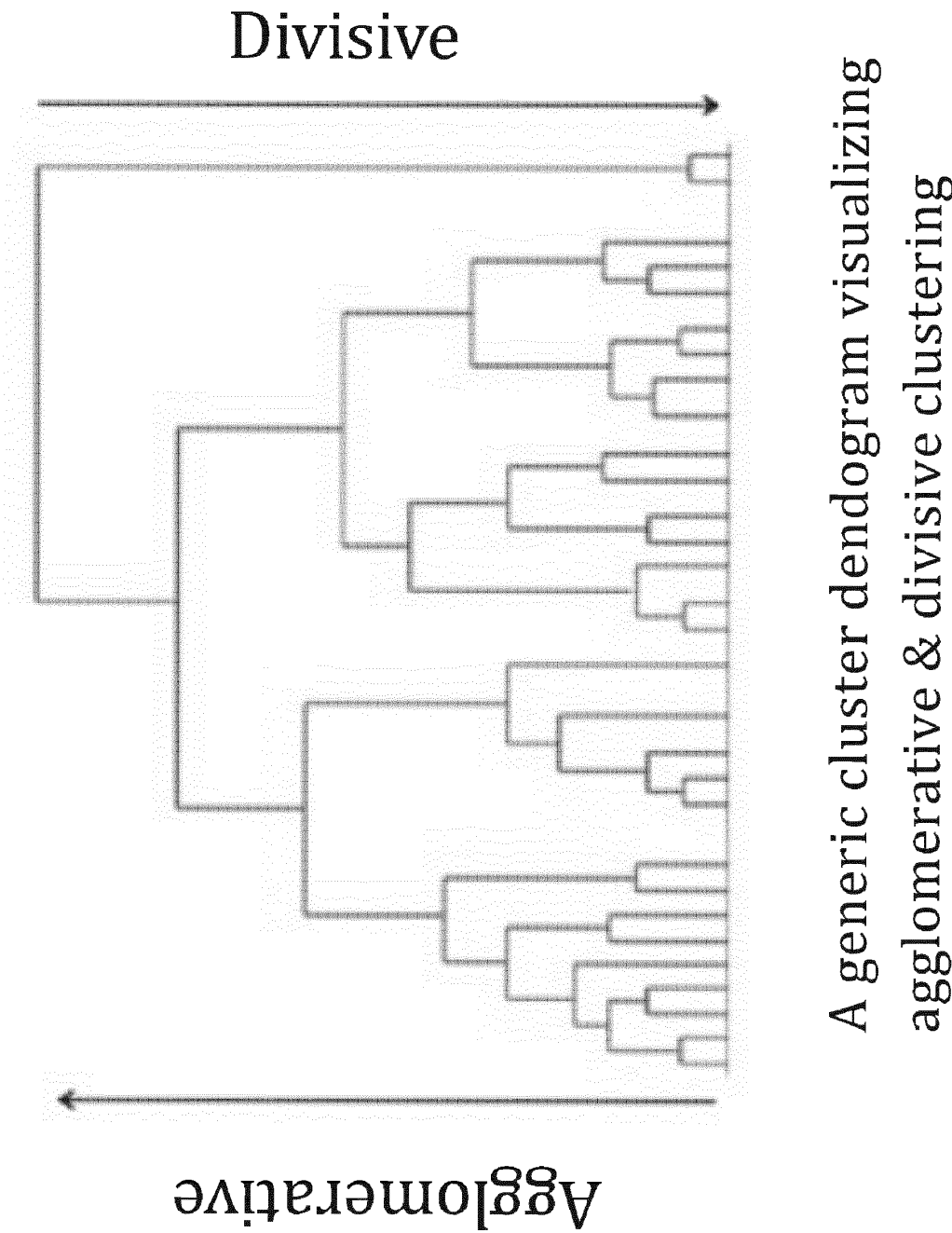


Fig. 20



A generic cluster dendrogram visualizing
agglomerative & divisive clustering

Fig. 21

Clustering or De-duplication of same risk

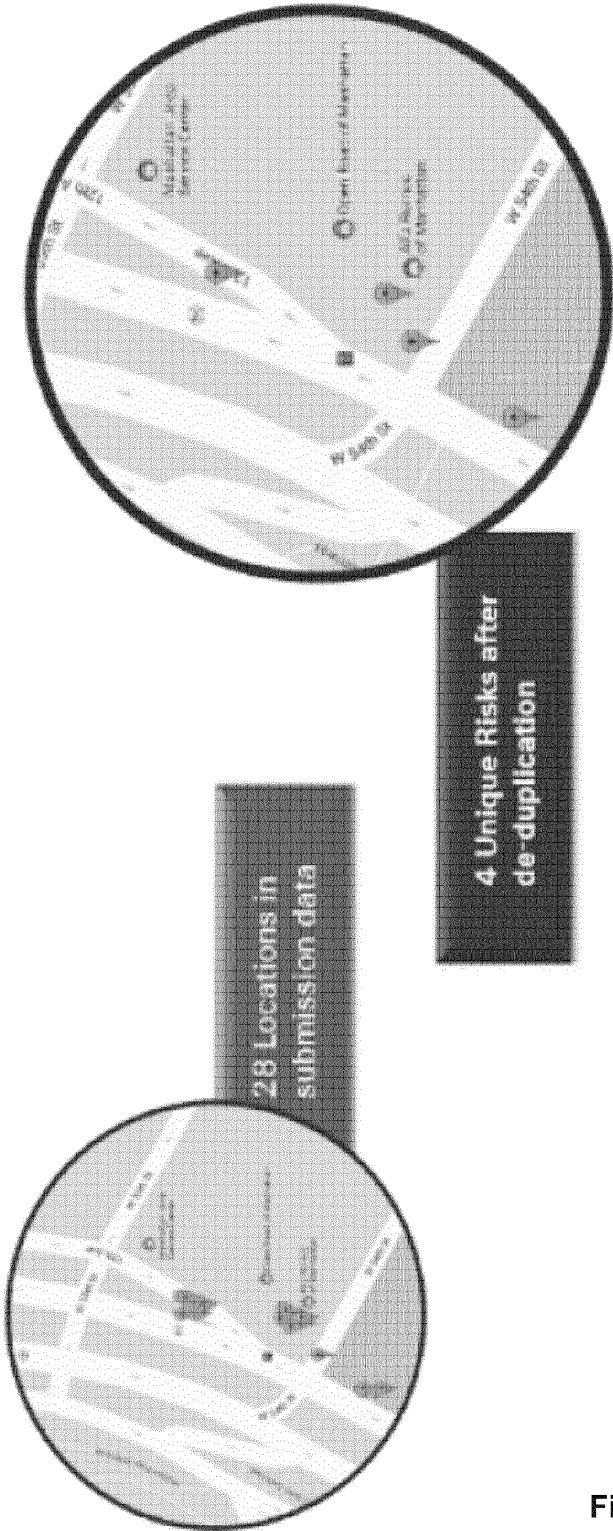


Fig. 22

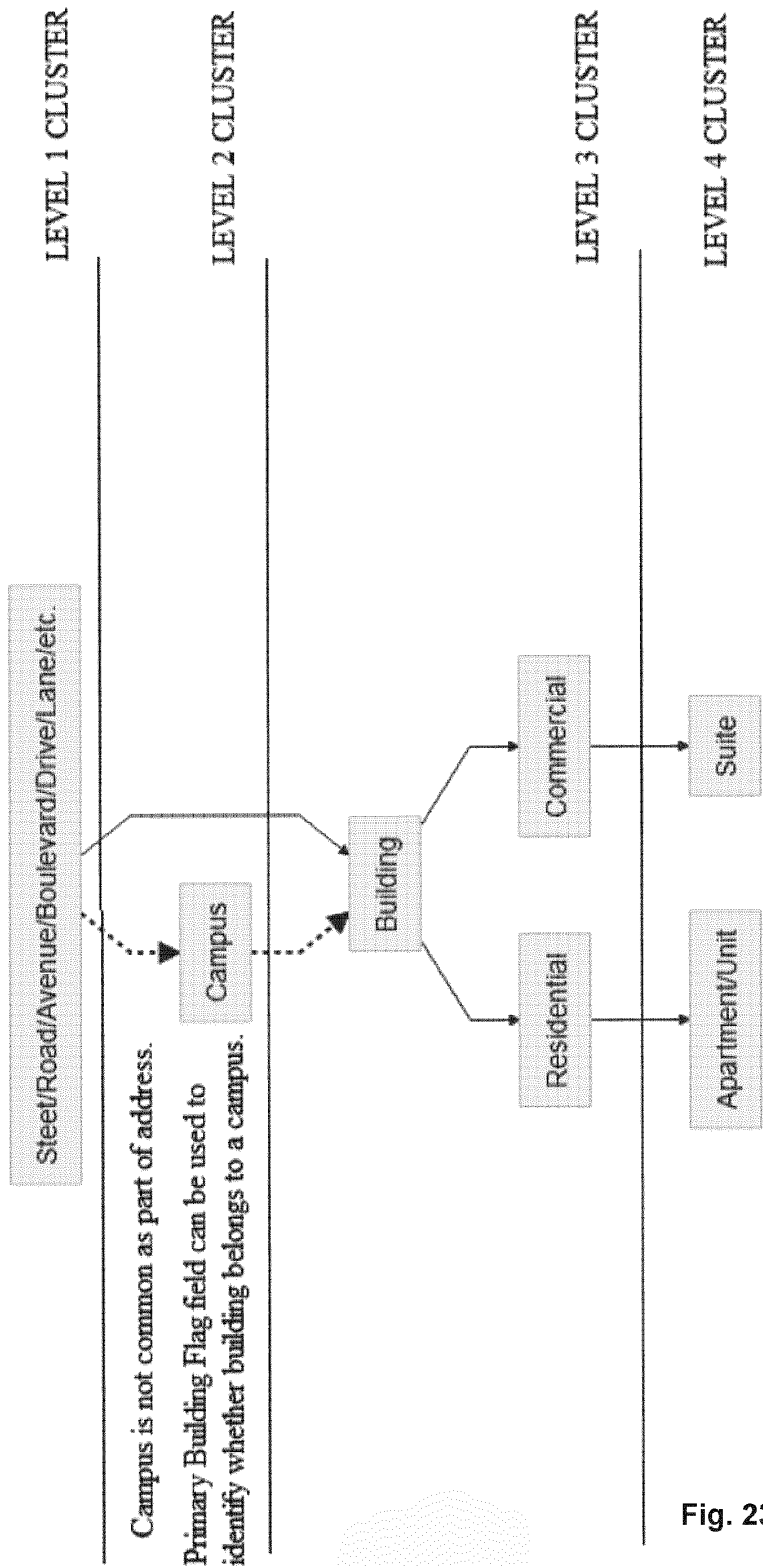
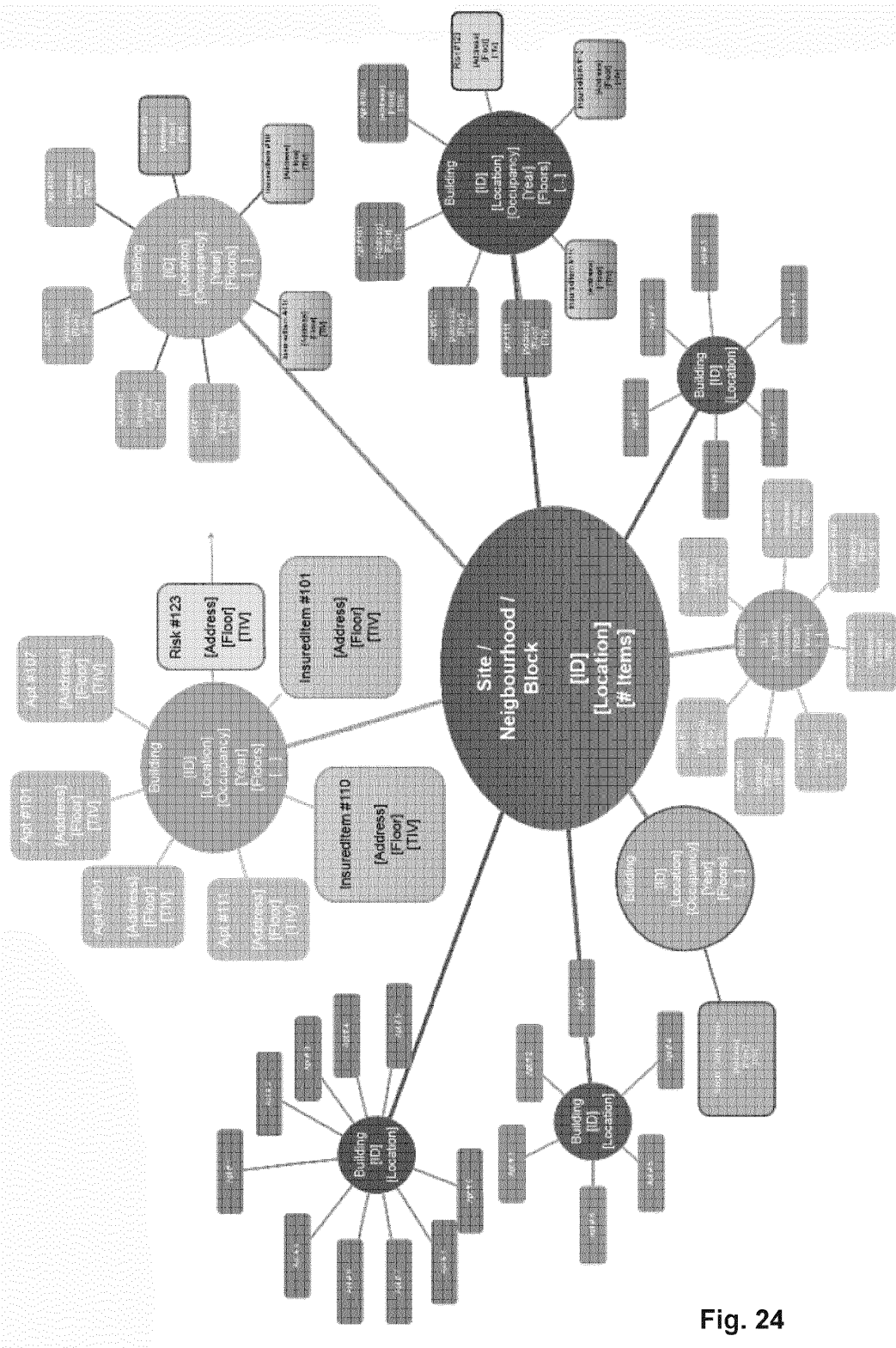


Fig. 23



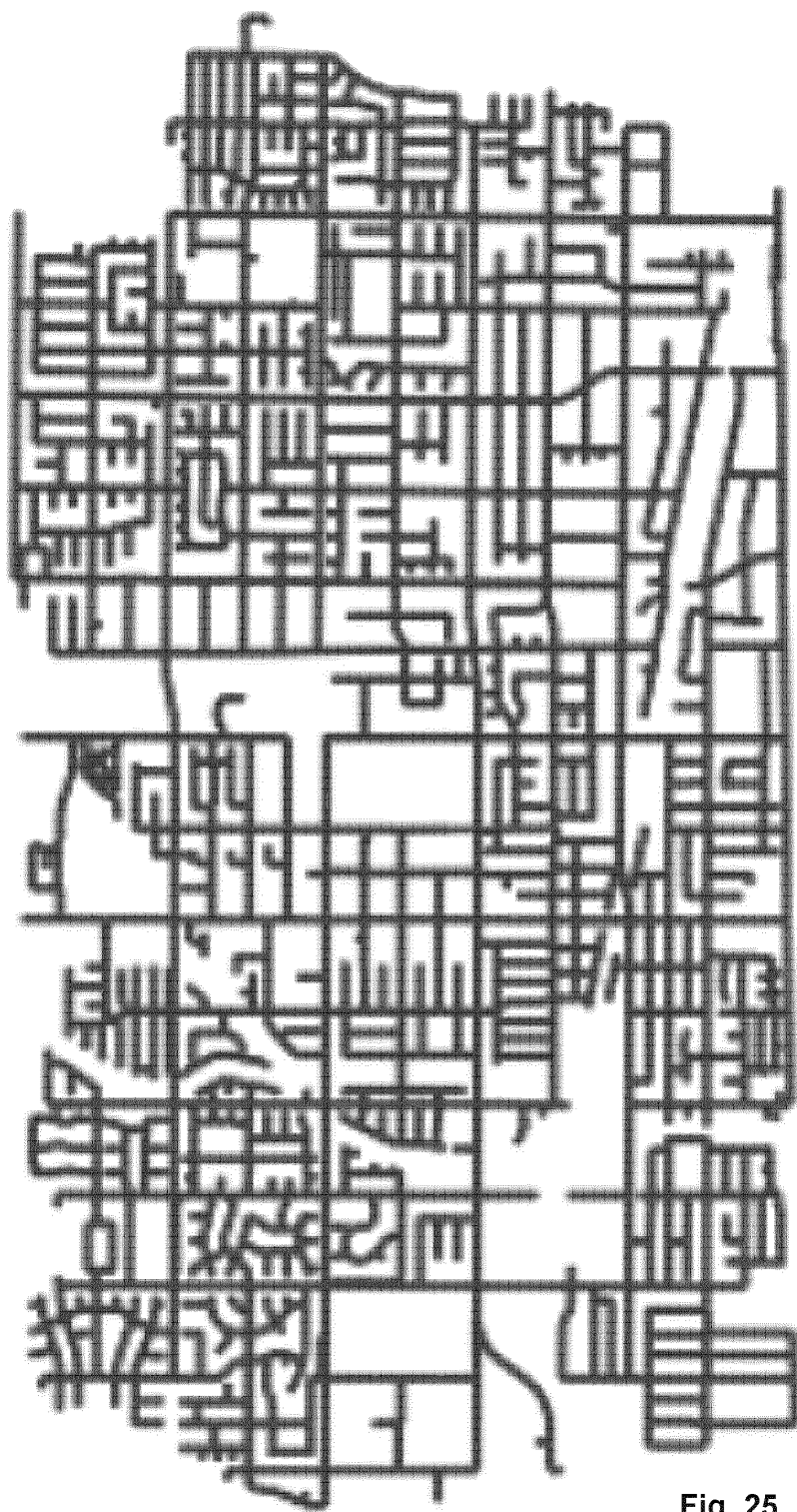


Fig. 25

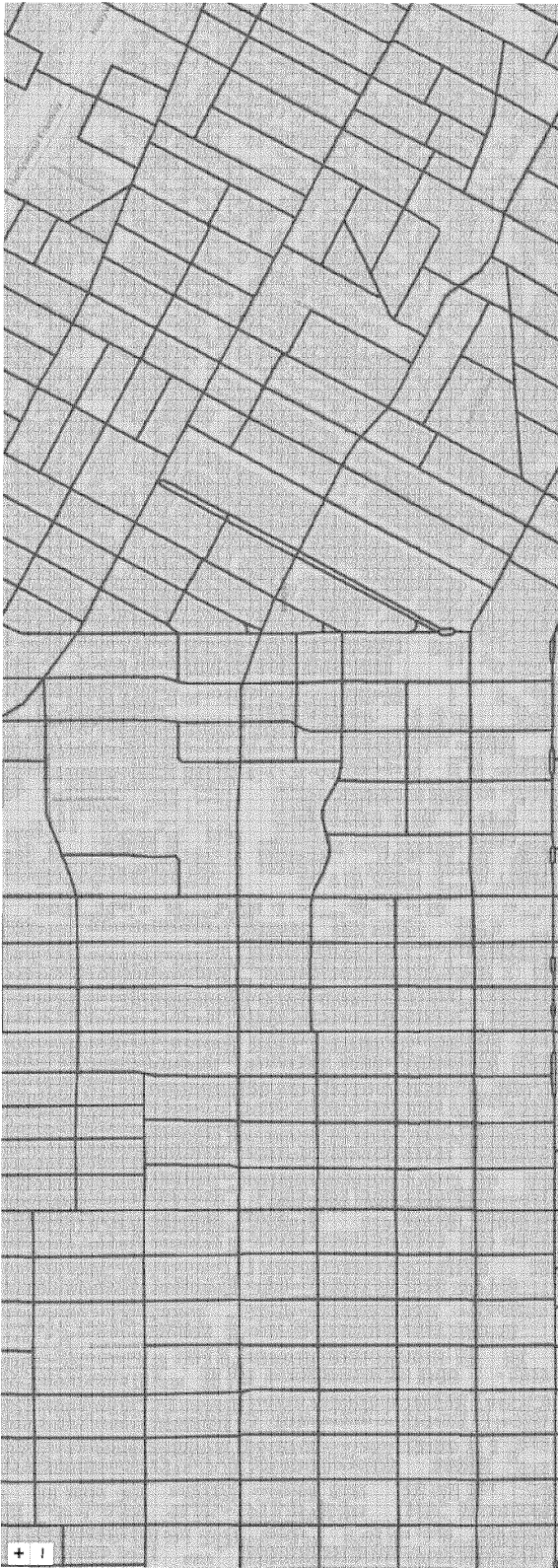


Fig. 26

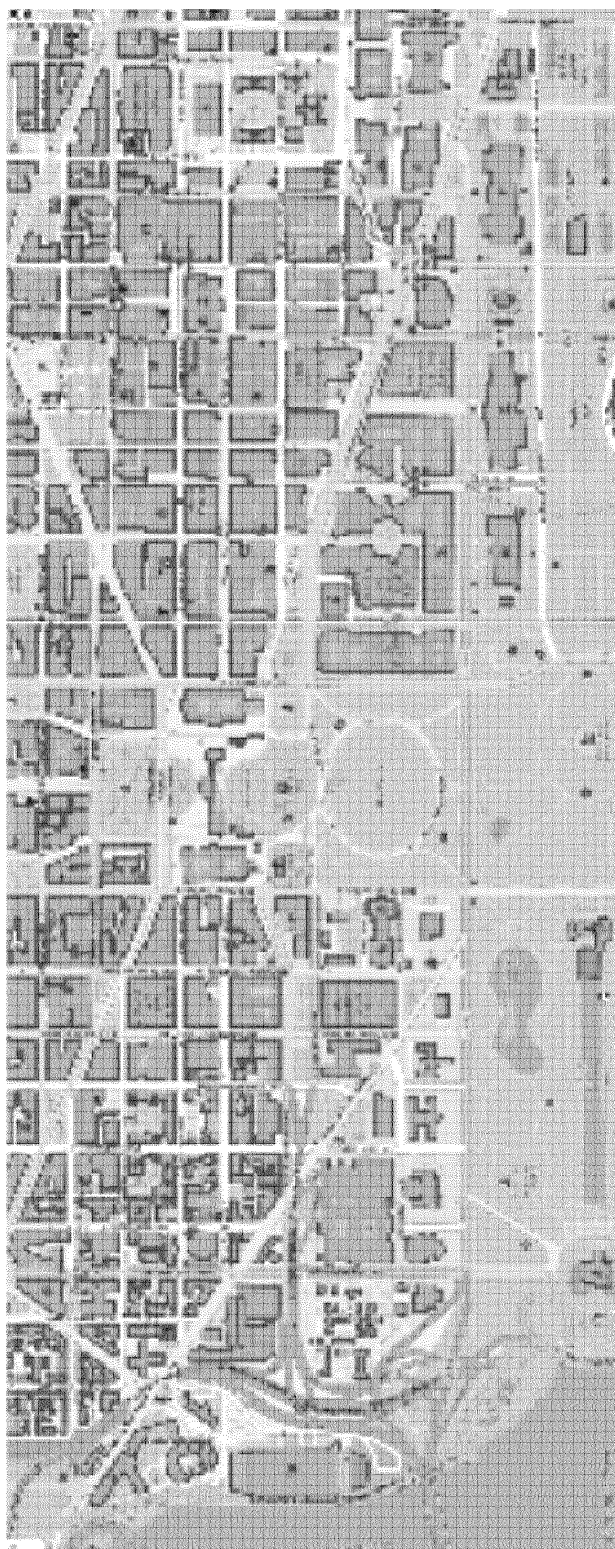


Fig. 27

building				Industrial				landuse		name	
building	units	ele	height	lacounty:ain	lacounty:bid_id	start_date					
0	apartments	8	13.6	6.5	7208013021	503531749871	1959	oil	Industrial	Chevron Oil Refinery	
1	residential	4	10.2	4.5	7205018003	503327749864	1924	port	Industrial	Pasha Stevedoring Terminal	
2	apartments	3	13.1	6.9	7205018001	503420749804	1965	oil	Industrial	Tesoro Carson Refinery	
3	house	1	11.1	5.2	7205018002	503365749865	1925	oil	Industrial	Torrance Refinery	
4	house	1	10.7	4.0	7208012005	503510749975	1942	auto_wrecker	Industrial	NaN	
5	apartments	8	13.7	6.5	7208013023	503527749788	1962	factory	Industrial	SpaceX Manufacturing Facility	
6	residential	4	11.7	6.0	7205018003	503330749797	1924	factory	NaN	Building A - Phase 1 (under construction)	
7	residential	2	14.5	7.8	7208012006	503549750130	1913	electrical	Industrial	Distribution Energy Storage Integration 1	

Fig. 28

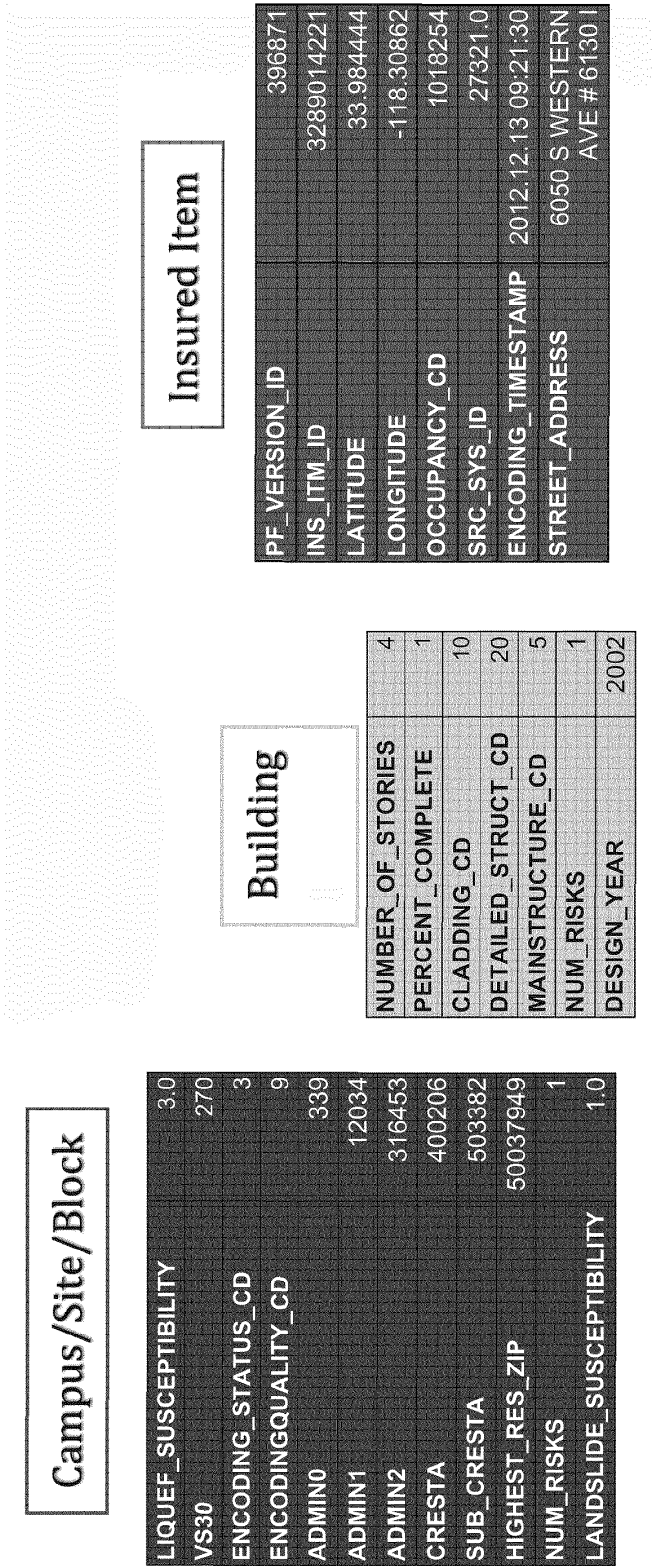
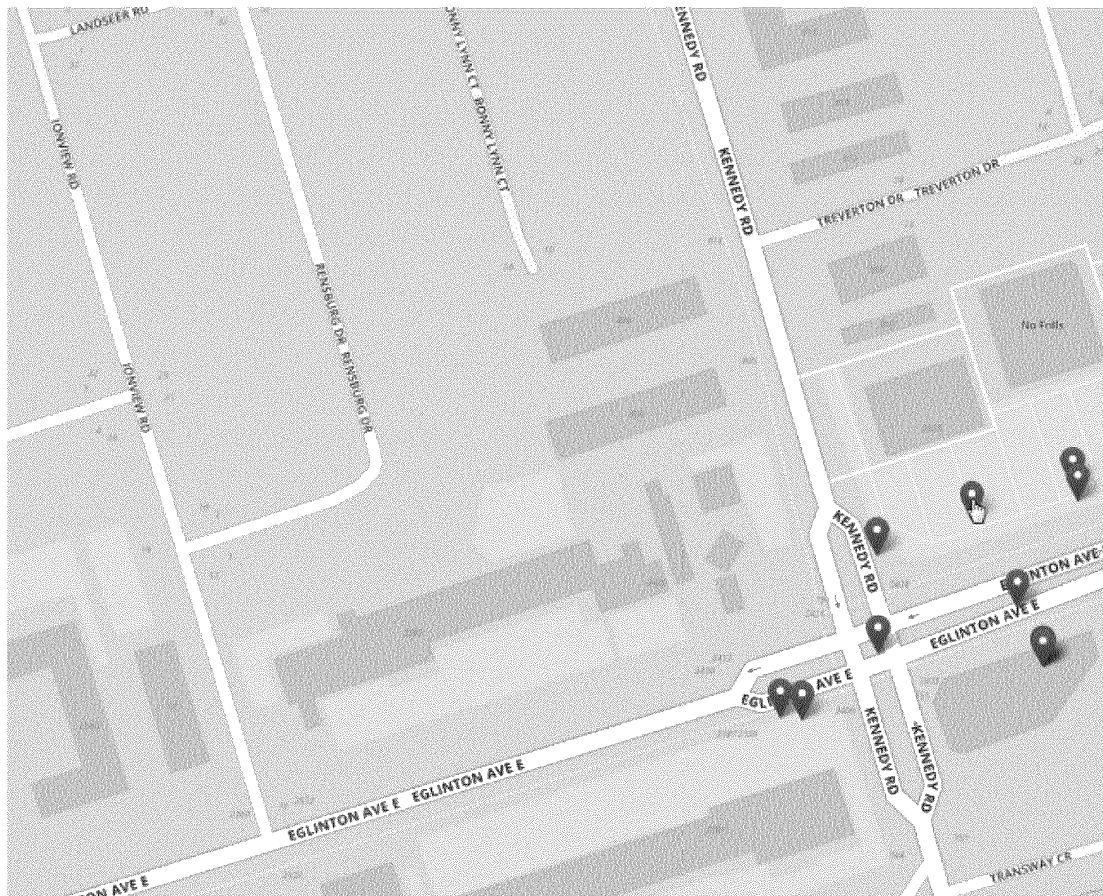


Fig. 29



Location Lookup

Latitude: * Longitude: * Street Address: *

id	latitude	longitude	noofrecords	designYear	occupancy	main_structure	detailed_structure
48336959	43.732127560975606	-79.2670124390244	41		Office building		
101243089	43.732566153846165	-79.26791307692308	26		Retail and trading		
90818321	43.732706521739125	-79.26739652173912	23		Retail and trading		
27776133	43.73284	-79.26685	17		Retail and trading		
113652279	43.732359999999986	-79.267149999999999	15		Retail and trading		
99601038	43.73192133333334	-79.268319999999999	15		Office building		
51322859	43.73193	-79.26844142857145	14		Hotel, motel, casino, restaurant, bar		
24776345	43.73214	-79.26701000000001	14	1985	Retail and trading		
105322456	43.73277692307692	-79.26682230769231	13	1980	Retail and trading	Reinforced concrete frames	Moment resisting RC frames with RC or RM shear walls
81837824	43.732182	-79.26790700000001	12		Office building		

Search for Submission ID:

Fig. 30

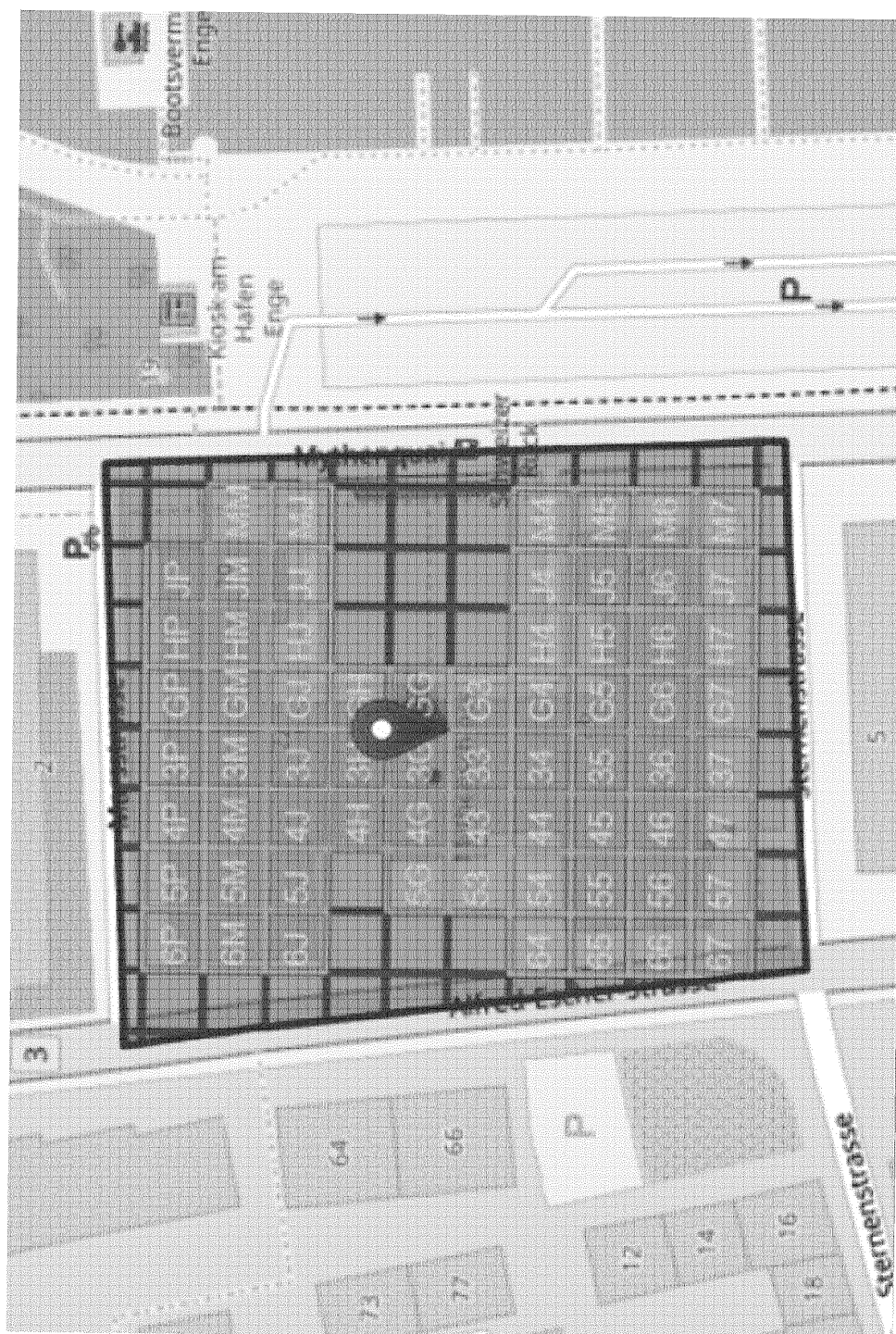


Fig. 31

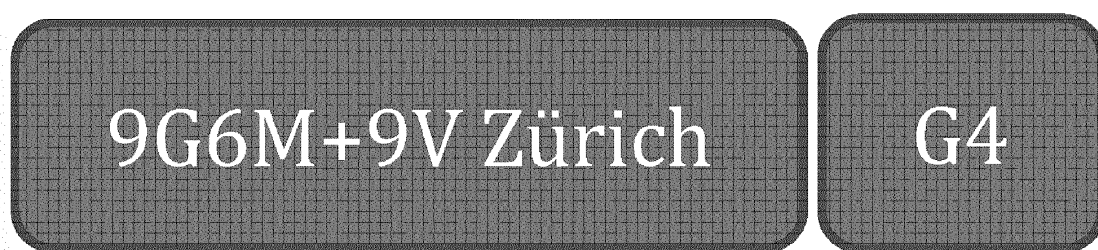


Fig. 32a



Fig. 32b