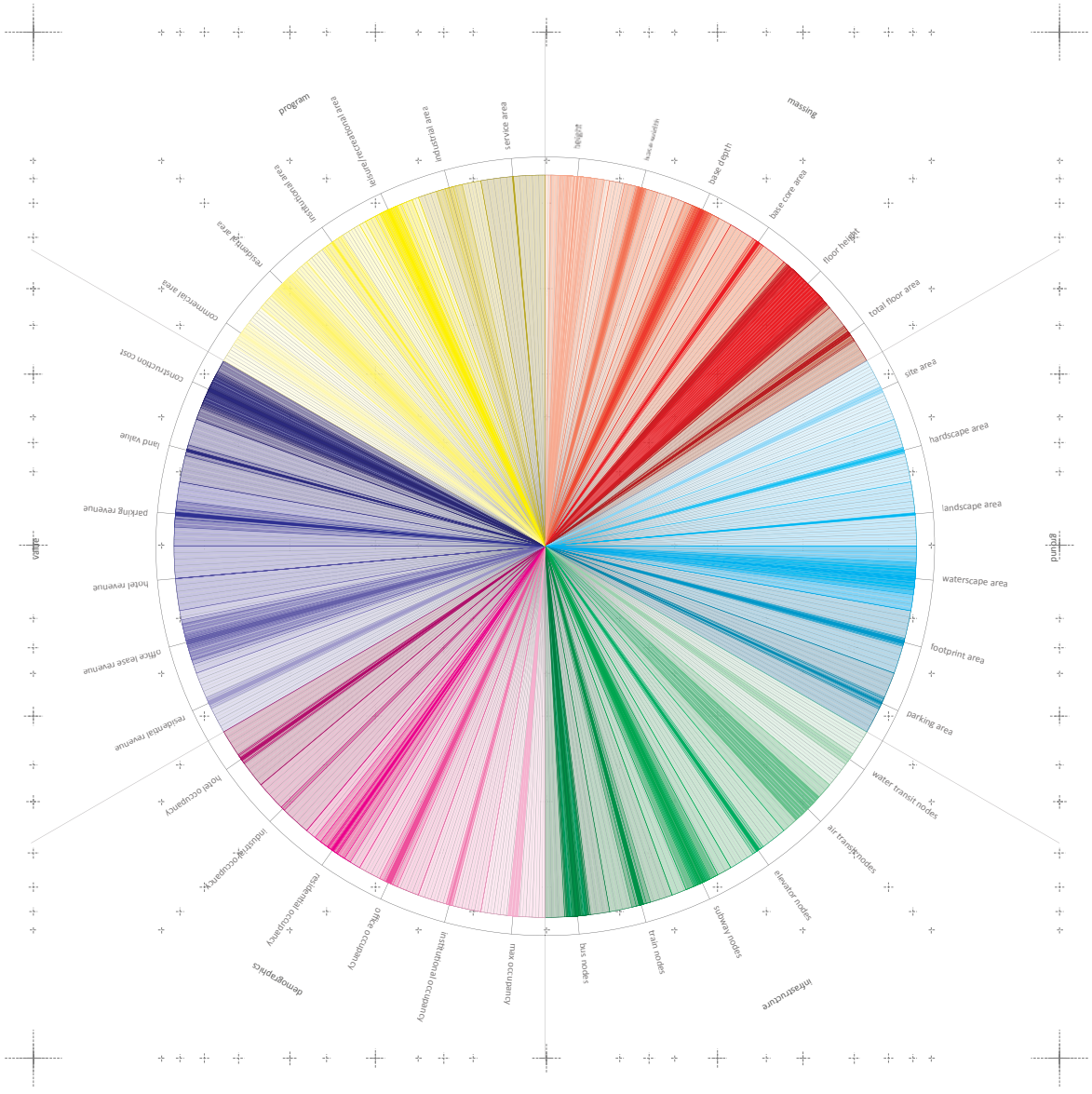


07 - global type - all  
Megaform Primitive

i. Office	i. Massing	Global Category Minimum	Global Category Maximum
1963 - pan am building	Height (m)	3.35	1000.00
1973 - sears (willis) tower	Base width (m)	20.07	30400.00
1986 - fountain place	Base depth (m)	21.42	14900.00
1990 - bank of china tower	Base core area (m <sup>2</sup> )	0.00	144300.59
2008 - world financial center	Floor height (m)	2.90	6.00
2013 - freedom tower	Total floor area (m <sup>2</sup> )	2670.00	92920365.53
ii. Housing	ii. Ground		
1967 - habitat 67	Site area (m <sup>2</sup> )	442.00	284070000.00
1976 - nakagin tower	Hardscape area (m <sup>2</sup> )	0.00	26953446.01
1983 - rokko housing 1	Landscape area (m <sup>2</sup> )	0.00	229712115.00
1991 - nexus housing	Waterscape area (m <sup>2</sup> )	0.00	600000.00
2006 - beekman place	Footprint area (m <sup>2</sup> )	430.00	50867885.00
2011 - infinity tower	External parking area (m <sup>2</sup> )	0.00	1018000.00
iii. Mixed Use	iii. Network		
1969 - barbican estate	Water transit nodes (#)	0.00	11.00
1970 - john hancock center	Air transit nodes (#)	0.00	2.00
1989 - millenium tower	Elevator nodes (#)	0.00	6903.28
1996 - hyperbuilding	Subway nodes (#)	0.00	24.00
2009 - burj al khalifa	Train nodes (#)	0.00	67.00
2013 - museum plaza	Bus nodes (#)	0.00	60.00
iv. Districts	iv. Demographics		1758010.11
1968 - government center	Maximum occupancy (#)	20.00	
1973 - world trade center	Institutional occupancy (#)	0.00	1000000.00
1982 - la defense	Office occupancy (#)	0.00	500000.00
1994 - euralille	Residential occupancy (#)	0.00	266596.00
2003 - ifc hongkong	Industrial occupancy (#)	0.00	26909.78
2021 - one north	Hotel occupancy (#)	0.00	53819.55
v. Gated Community	v. Value		
1963 - sea ranch	Residential revenue (\$)	\$-	\$22,407,973,000.00
1974 - boca pointe	Office lease revenue (\$)	\$-	\$3,624,232,462.97
1980 - desert highlands	Hotel revenue (\$)	\$-	\$1,551,485,530,371.59
1990 - bow quarter	Parking revenue (\$)	\$-	\$254,660,500.00
2002 - the palm jumeirah	Land value (\$)	\$3,768,628.07	\$213,208,170,360.00
2012 - anfa place	Construction cost (\$)	\$15,938,444.86	\$34,725,615,116.13
vi. Satellite City	vi. Program		
1969 - roosevelt island	Commercial (m <sup>2</sup> )	0.00	11250000.00
1973 - tsukuba science city	Residential (m <sup>2</sup> )	0.00	13300000.00
1987 - tin shui wai new town	Institutional (m <sup>2</sup> )	0.00	16740000.00
1996 - celebration	Leisure/recreational (m <sup>2</sup> )	0.00	2512153.00
2006 - city in the desert	Industrial (m <sup>2</sup> )	0.00	39350000.00
2010 - qianhai port city	Service (m <sup>2</sup> )	0.00	4504000.00

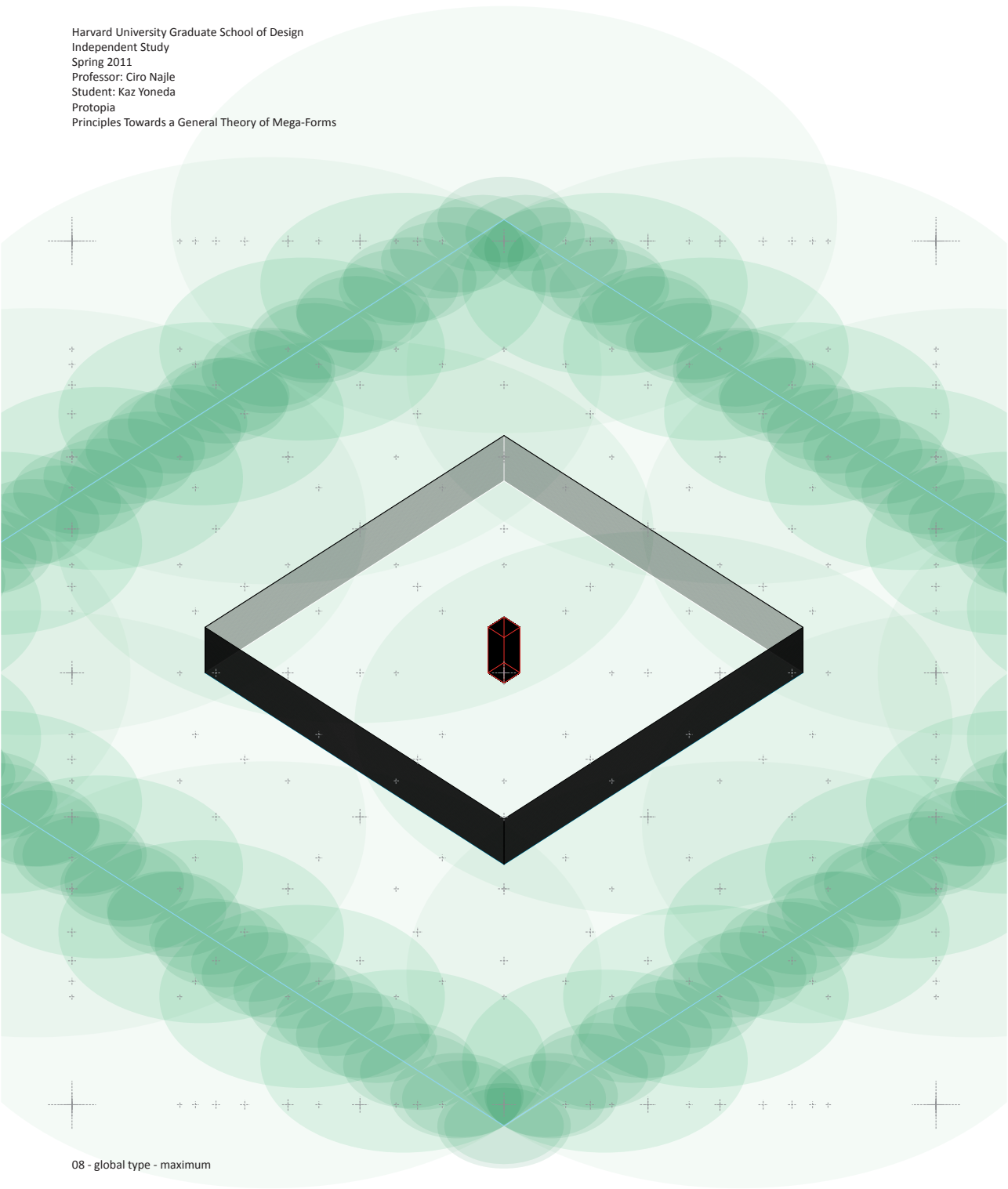
07 - global type - average

Data Sheet



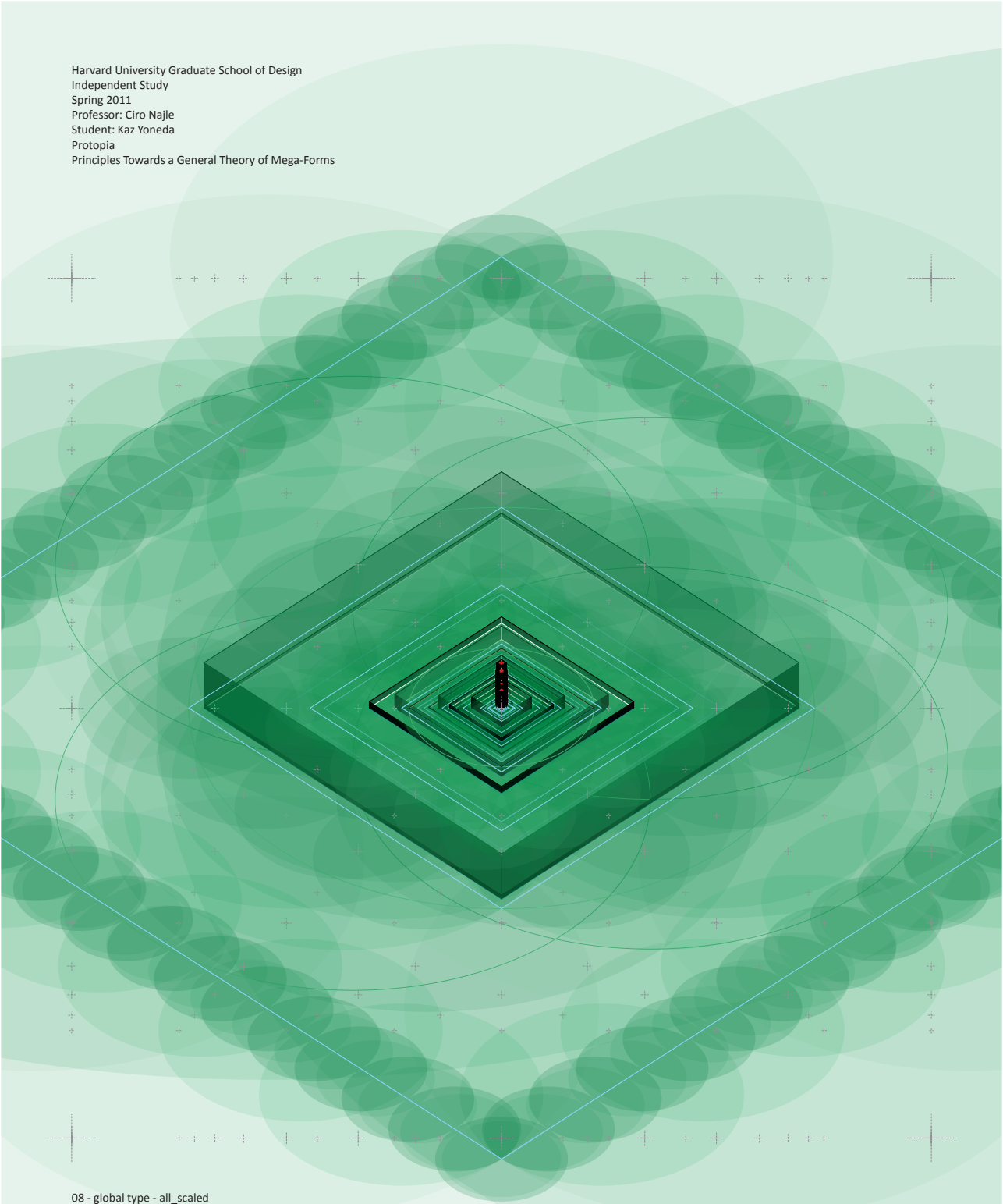
07 - global type - all

Data Chart



08 - global type - maximum

Megaform Primitive



08 - global type - all\_scaled

Megaform Primitive

		Global Category Average	Global Category Index #
<b>i. Office</b>	<b>i. Massing</b>		
1963 - pan am building	Height (m)	252.82	0.25
1973 - sears (willis) tower	Base width (m)	2249.38	0.07
1986 - fountain place	Base depth (m)	1549.84	0.10
1990 - bank of china tower	Base core area (m <sup>2</sup> )	6859.17	0.05
2008 - world financial center	Floor height (m)	4.22	0.70
2013 - freedom tower	Total floor area (m <sup>2</sup> )	5173600.23	0.06
<b>ii. Housing</b>	<b>ii. Ground</b>		
1967 - habitat 67	Site area (m <sup>2</sup> )	10483521.04	0.04
1976 - nakagin tower	Hardscape area (m <sup>2</sup> )	1007841.57	0.04
1983 - rokko housing 1	Landscape area (m <sup>2</sup> )	7037866.99	0.03
1991 - nexus housing	Waterscape area (m <sup>2</sup> )	43121.51	0.07
2006 - beekman place	Footprint area (m <sup>2</sup> )	2074578.56	0.04
2011 - infinity tower	External parking area (m <sup>2</sup> )	40445.08	0.04
<b>iii. Mixed Use</b>	<b>iii. Network</b>		
1969 - barbican estate	Water transit nodes (#)	0.56	0.05
1970 - john hancock center	Air transit nodes (#)	0.25	0.13
1989 - millenium tower	Elevator nodes (#)	328.14	0.05
1996 - hyperbuilding	Subway nodes (#)	2.58	0.11
2009 - burj al khalifa	Train nodes (#)	4.03	0.06
2013 - museum plaza	Bus nodes (#)	6.25	0.10
<b>iv. Districts</b>	<b>iv. Demographics</b>		
1968 - government center	Maximum occupancy (#)	96375.87	0.05
1973 - world trade center	Institutional occupancy (#)	35323.35	0.04
1982 - la defense	Office occupancy (#)	27544.05	0.06
1994 - euralille	Residential occupancy (#)	21073.30	0.08
2003 - ifc hongkong	Industrial occupancy (#)	796.93	0.03
2021 - one north	Hotel occupancy (#)	2244.94	0.04
<b>v. Gated Community</b>	<b>v. Value</b>		
1963 - sea ranch	Residential revenue (\$)	\$1,052,271,314.68	0.05
1974 - boca pointe	Office lease revenue (\$)	\$384,285,224.69	0.11
1980 - desert highlands	Hotel revenue (\$)	\$43,469,476,933.69	0.03
1990 - bow quarter	Parking revenue (\$)	\$12,971,505.44	0.05
2002 - the palm jumeirah	Land value (\$)	\$8,555,416,560.02	0.04
2012 - anfa place	Construction cost (\$)	\$5,972,580,493.16	0.17
<b>vi. Satellite City</b>	<b>vi. Program</b>		
1969 - roosevelt island	Commercial (m <sup>2</sup> )	757531.77	0.07
1973 - tsukuba science city	Residential (m <sup>2</sup> )	1623097.13	0.12
1987 - tin shui wai new town	Institutional (m <sup>2</sup> )	808110.06	0.05
1996 - celebration	Leisure/recreational (m <sup>2</sup> )	279647.32	0.11
2006 - city in the desert	Industrial (m <sup>2</sup> )	168721.75	0.04
2010 - qianhai port city	Service (m <sup>2</sup> )	137233.21	0.03

08 - global type - Average + Index Number

Data Sheet

Office

- a. Least territorial claim; b. Above average floor heights;
- c. Minimal to average connections to infrastructural nodes;
- d. High concentration of office occupants

01a.07i.01:

It is no longer the paradigm of tall megaform.

01a.07i.02:

Developed in high density urban areas, the footprint is the smallest of all typologies.

01a.07i.03:

Infrastructural connections is not a necessary component

Housing

- a. Minimal territorial claim; b. Average floor height; c. Minimal connections to infrastructural nodes; d. High concentration of residential occupants

01a.07ii.01:

Infrastructural connections is not a necessary component

01a.07ii.02:

Increase in residential population parallels with an increasing square footage.

01a.07ii.03:

Second least dense/efficient use of space.

01a.07iii.01:

Highest diversity of infrastructural connections, but without consistent concentration.

Mixed

- a. Max air transit connection; b. Low water transit connection; c. Minimal subway, train, and bus connection; d. Average to above average floor height; e. 1989, 1996 peaks in height; f. 1989 peaks in construction cost; g. Low office, residential, institutional and hotel occupancy

01a.07iii.02:

1980s marks the peak of investment into mixed typology and its height.

Districts

- a. Floor height ranges from average to high; b. Height ranges from low to average height; c. Districts are predominantly office or institutional programs; d. Parking is a part of revenue generating machine; e. Low infrastructural connection

01a.07iv.01:

Districts are predominantly programmed for office or institutional use.

01a.07iv.02:

Parking revenue generates part of the value for districts.

Gated community

- a. None to low connection to ground transportation; b. High floor height; c. Average waterscaping; d. Presence of leisure/hospitality area; e. Revenue need not only be from residential

01a.07v.01:

Gated community is an isolated archipelago with spatial excesses.

01a.07v.02:

The least dense/efficient use of space.

01a.07v.03:

Waterscaping is a consistent feature.

Satellite city

- a. Largest territorial claim; b. Above average floor height; c. Integrated infrastructural connection; d. Average to max leisure/hospitality area; e. High population; f. Only typology to include Industrial area; g. Average to Max range of -scaping elements

01a.07vi.01:

The most infrastructurally connected

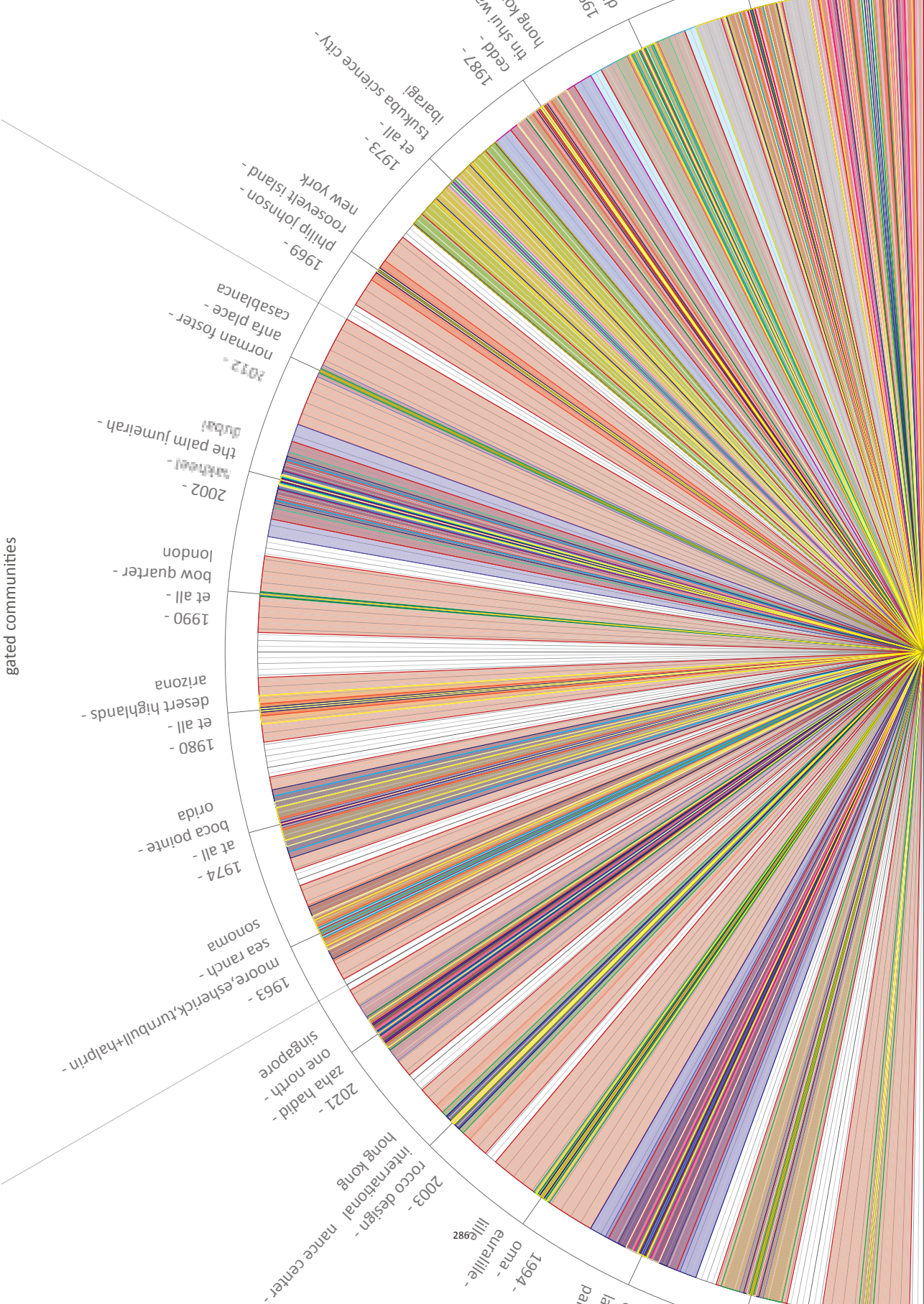
01a.07vi.02:

Prerequires to include diverse types of artificial landscapes.

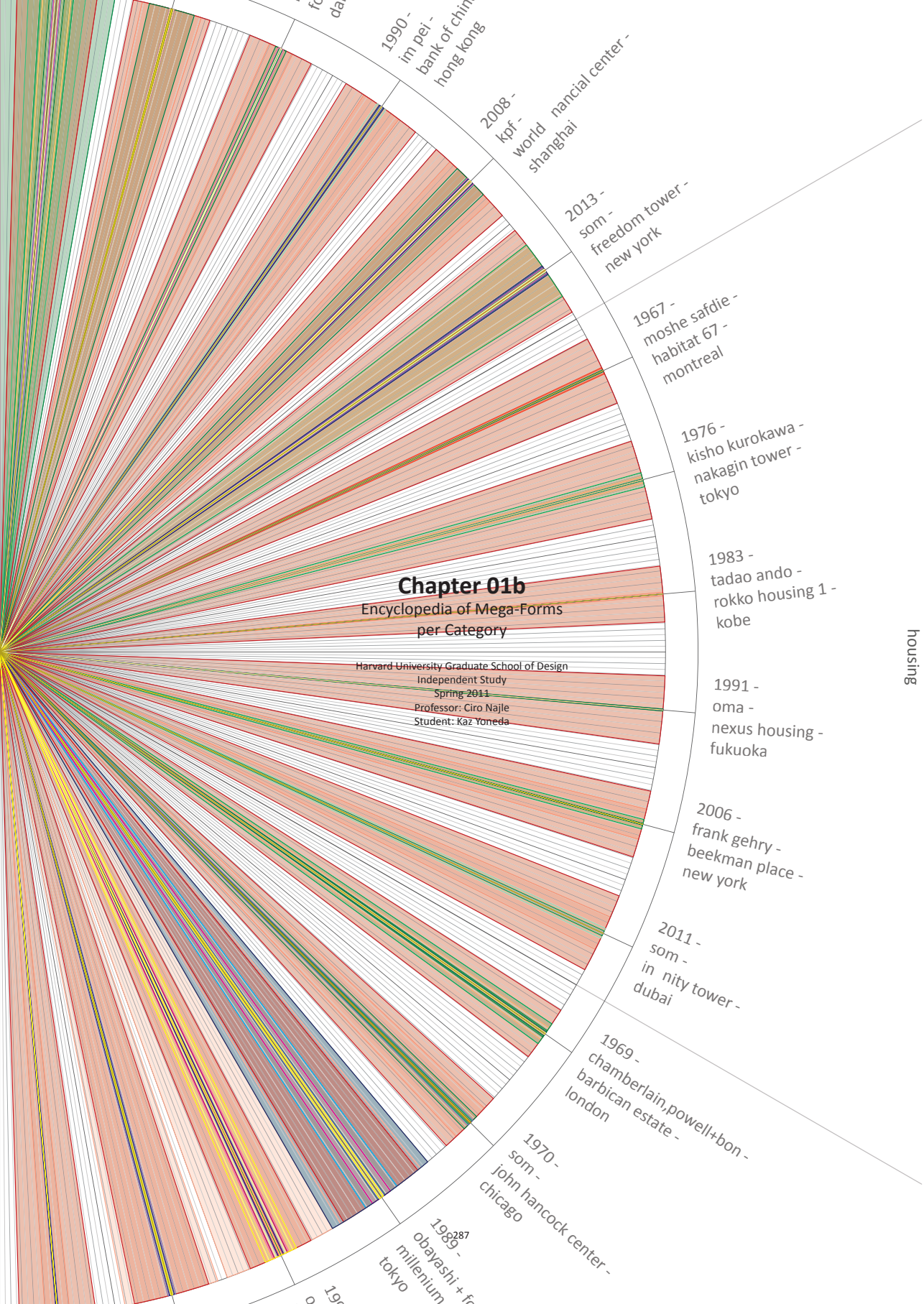
01a.07vi.03:

Satellite city need not be predominantly residential, but increasingly poly-programmatic.

gated communities







## Chapter 01b

### Encyclopedia of Mega-Forms per Category

Harvard University Graduate School of Design  
Independent Study  
Spring 2011  
Professor: Ciro Najle  
Student: Kaz Yoneda

housing

1990 -  
im pei -  
bank of china -  
hong kong

2008 -  
kpf -  
world financial center -  
shanghai

2013 -  
som -  
freedom tower -  
new york

1967 -  
moshe safdie -  
habitat 67 -  
montreal

1976 -  
kisho kurokawa -  
nakagin tower -  
tokyo

1983 -  
tadao ando -  
rokko housing 1 -  
kobe

1991 -  
oma -  
nexus housing -  
fukuoka

2006 -  
frank gehry -  
beekman place -  
new york

2011 -  
som -  
in nity tower -  
dubai

1969 -  
chamberlain, powell + bon -  
barbican estate -  
london

1970 -  
som -  
john hancock center -  
chicago

1989 -  
obayashi + f -  
millenium -  
tokyo

i. Office	i. Massing								
1963 - pan am building	Height (m)					0.00			
1973 - sears (willis) tower	Base width (m)					0.00			
1986 - fountain place	Base depth (m)					0.00			
1990 - bank of china tower	Base core area (m <sup>2</sup> )					0.00			
2008 - world financial center	Floor height (m)					0.00			
2013 - freedom tower	Total floor area (m <sup>2</sup> )					0.00			
ii. Housing	ii. Ground								
1967 - habitat 67	Site area (m <sup>2</sup> )					0.00			
1976 - nakagin tower	Hardscape area (m <sup>2</sup> )					0.00			
1983 - rokko housing 1	Landscape area (m <sup>2</sup> )					0.00			
1991 - nexus housing	Waterscape area (m <sup>2</sup> )					0.00			
2006 - beekman place	Footprint area (m <sup>2</sup> )					0.00			
2011 - infinity tower	External parking area (m <sup>2</sup> )					0.00			
iii. Mixed Use	iii. Network								
1969 - barbican estate	Water transit nodes (#)					0.00			
1970 - john hancock center	Air transit nodes (#)					0.00			
1989 - millenium tower	Elevator nodes (#)					0.00			
1996 - hyperbuilding	Subway nodes (#)					0.00			
2009 - burj al khalifa	Train nodes (#)					0.00			
2013 - museum plaza	Bus nodes (#)					0.00			
iv. Districts	iv. Demographics								
1968 - government center	Maximum occupancy (#)					0.00			
1973 - world trade center	Institutional occupancy (#)					0.00			
1982 - la defense	Office occupancy (#)					0.00			
1994 - euralille	Residential occupancy (#)					0.00			
2003 - ifc hongkong	Industrial occupancy (#)					0.00			
2021 - one north	Hotel occupancy (#)					0.00			
v. Gated Community	v. Value								
1963 - sea ranch	Residential revenue (\$)					0.00			
1974 - boca pointe	Office lease revenue (\$)					0.00			
1980 - desert highlands	Hotel revenue (\$)					0.00			
1990 - bow quarter	Parking revenue (\$)					0.00			
2002 - the palm jumeirah	Land value (\$)					0.00			
2012 - anfa place	Construction cost (\$)					0.00			
vi. Satellite City	vi. Program								
1969 - roosevelt island	Commercial (m <sup>2</sup> )					0.00			
1973 - tsukuba science city	Residential (m <sup>2</sup> )					0.00			
1987 - tin shui wai new town	Institutional (m <sup>2</sup> )					0.00			
1996 - celebration	Leisure/recreational (m <sup>2</sup> )					0.00			
2006 - city in the desert	Industrial (m <sup>2</sup> )					0.00			
2010 - qianhai port city	Service (m <sup>2</sup> )					0.00			

Cases + 6x6 Analytical Categories

Data Sheet

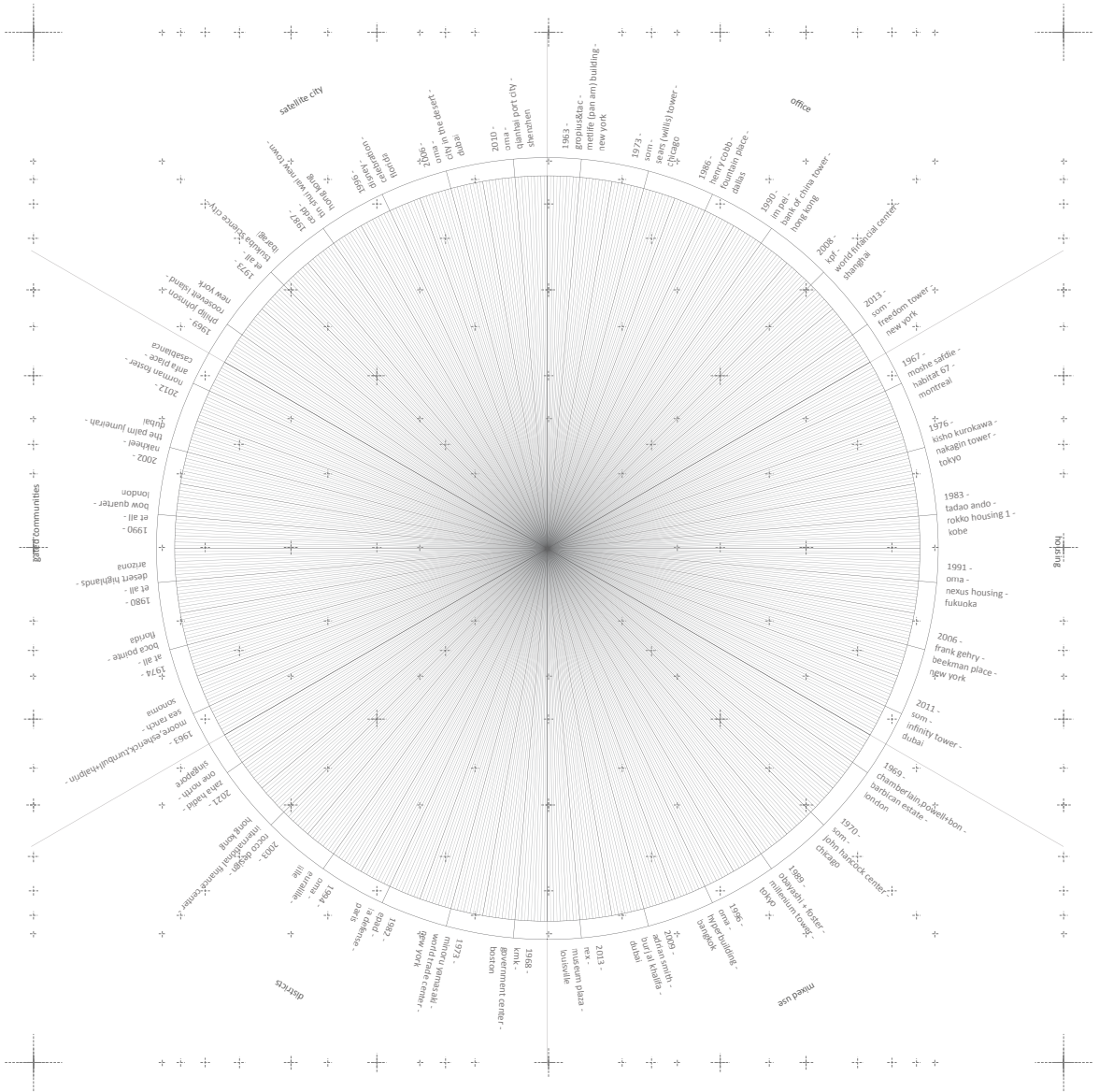


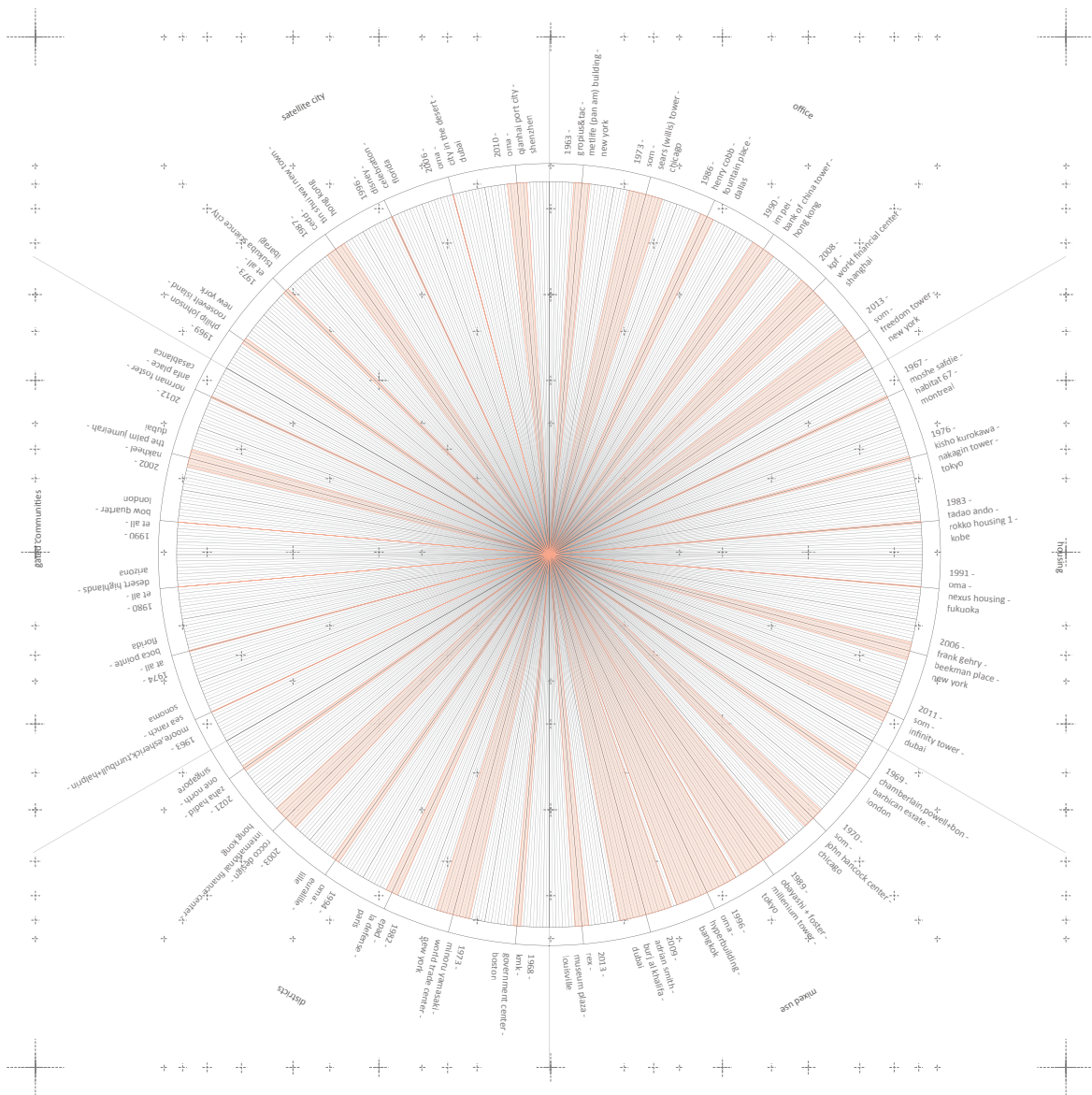
Chart Template: Analytical Category per 6x6 Cases

Data Chart

i. Office	i. Massing								
1963 - pan am building	Height (m)					246.60			
1973 - sears (willis) tower	Base width (m)					527.30			
1986 - fountain place	Base depth (m)					219.50			
1990 - bank of china tower	Base core area (m <sup>2</sup> )					367.40			
2008 - world financial center	Floor height (m)					487.40			
2013 - freedom tower	Total floor area (m <sup>2</sup> )					541.33			
ii. Housing	ii. Ground								
1967 - habitat 67	Site area (m <sup>2</sup> )					44.00			
1976 - nakagin tower	Hardscape area (m <sup>2</sup> )					54.00			
1983 - rokko housing 1	Landscape area (m <sup>2</sup> )					31.55			
1991 - nexus housing	Waterscape area (m <sup>2</sup> )					14.14			
2006 - beekman place	Footprint area (m <sup>2</sup> )					267.00			
2011 - infinity tower	External parking area (m <sup>2</sup> )					307.00			
iii. Mixed Use	iii. Network								
1969 - barbican estate	Water transit nodes (#)								
1970 - john hancock center	Air transit nodes (#)					344.00			
1989 - millenium tower	Elevator nodes (#)					840.00			
1996 - hyperbuilding	Subway nodes (#)					1000.00			
2009 - burj al khalifa	Train nodes (#)					828.00			
2013 - museum plaza	Bus nodes (#)					214.00			
iv. Districts	iv. Demographics								
1968 - government center	Maximum occupancy (#)					117.96			
1973 - world trade center	Institutional occupancy (#)					526.30			
1982 - la defense	Office occupancy (#)					187.00			
1994 - euralille	Residential occupancy (#)					120.00			
2003 - ifc hongkong	Industrial occupancy (#)					416.80			
2021 - one north	Hotel occupancy (#)					80.00			
v. Gated Community	v. Value								
1963 - sea ranch	Residential revenue (\$)					10.67			
1974 - boca pointe	Office lease revenue (\$)					20.00			
1980 - desert highlands	Hotel revenue (\$)					3.35			
1990 - bow quarter	Parking revenue (\$)					27.82			
2002 - the palm jumeirah	Land value (\$)					270.00			
2012 - anfa place	Construction cost (\$)					30.00			
vi. Satellite City	vi. Program								
1969 - roosevelt island	Commercial (m <sup>2</sup> )					93.88			
1973 - tsukuba science city	Residential (m <sup>2</sup> )					88.00			
1987 - tin shui wai new town	Institutional (m <sup>2</sup> )					319.80			
1996 - celebration	Leisure/recreational (m <sup>2</sup> )					23.77			
2006 - city in the desert	Industrial (m <sup>2</sup> )					9.81			
2010 - qianhai port city	Service (m <sup>2</sup> )					300.00			

Cases + 6x6 Analytical Categories - Height

Data Sheet



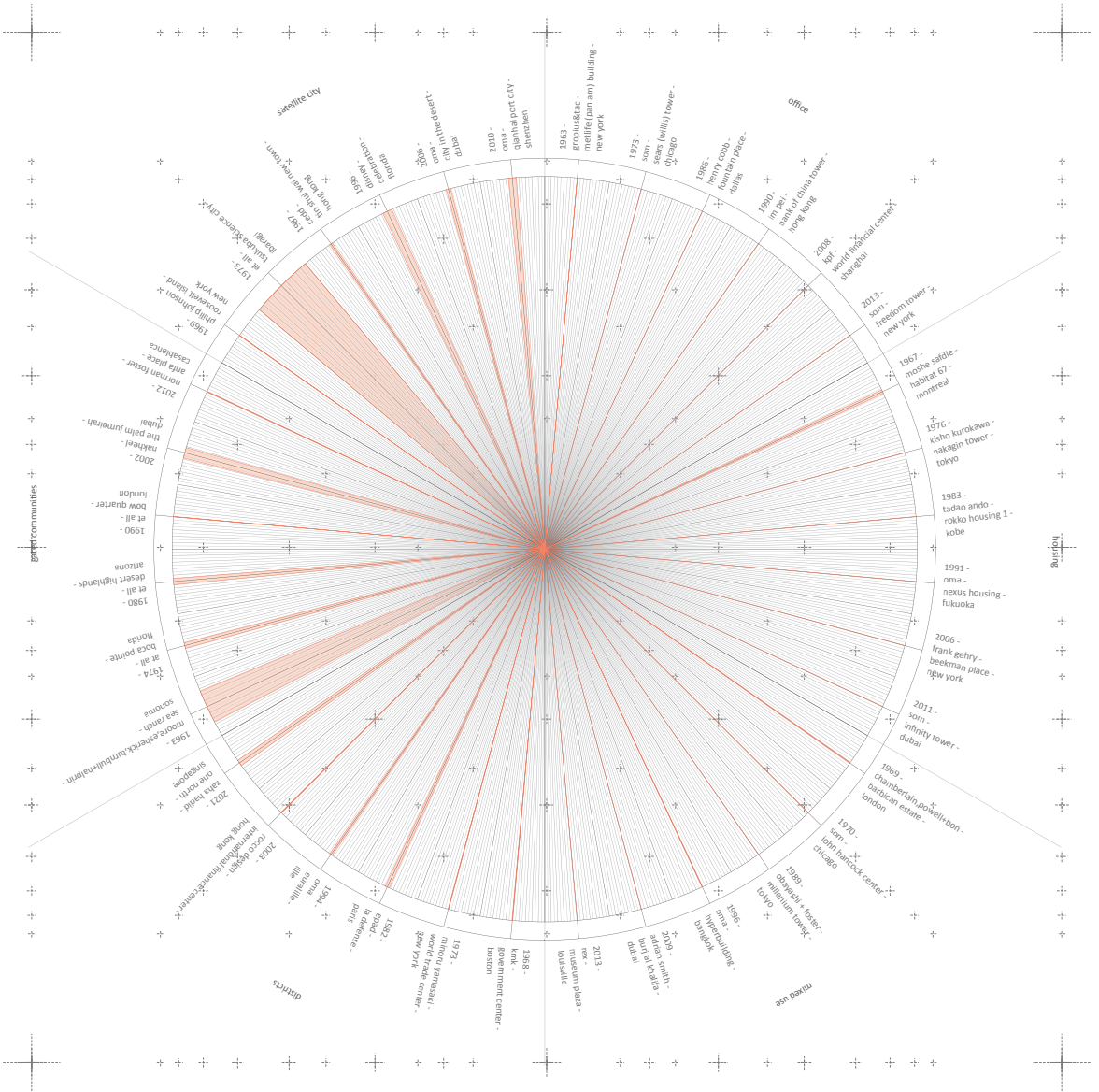
Cases + 6x6 Analytical Categories - Height

Data Chart

<b>i. Office</b>	<b>i. Massing</b>				
1963 - pan am building	Height (m)			98.98	
1973 - sears (willis) tower	Base width (m)			68.58	
1986 - fountain place	Base depth (m)			61.19	
1990 - bank of china tower	Base core area (m <sup>2</sup> )			52.80	
2008 - world financial center	Floor height (m)			60.42	
2013 - freedom tower	Total floor area (m <sup>2</sup> )			63.40	
<b>ii. Housing</b>	<b>ii. Ground</b>				
1967 - habitat 67	Site area (m <sup>2</sup> )			1848.60	
1976 - nakagin tower	Hardscape area (m <sup>2</sup> )			20.07	
1983 - rokko housing 1	Landscaped area (m <sup>2</sup> )			30.00	
1991 - nexus housing	Waterscape area (m <sup>2</sup> )			74.27	
2006 - beekman place	Footprint area (m <sup>2</sup> )			43.67	
2011 - infinity tower	External parking area (m <sup>2</sup> )			39.24	
<b>iii. Mixed Use</b>	<b>iii. Network</b>				
1969 - barbican estate	Water transit nodes (#)			516.16	
1970 - john hancock center	Air transit nodes (#)			80.77	
1989 - millenium tower	Elevator nodes (#)			120.00	
1996 - hyperbuilding	Subway nodes (#)			357.10	
2009 - burj al khalifa	Train nodes (#)			216.81	
2013 - museum plaza	Bus nodes (#)			76.42	
<b>iv. Districts</b>	<b>iv. Demographics</b>				
1968 - government center	Maximum occupancy (#)			341.75	
1973 - world trade center	Institutional occupancy (#)			337.99	
1982 - la defense	Office occupancy (#)			2041.40	
1994 - euralille	Residential occupancy (#)			1410.47	
2003 - ifc hongkong	Industrial occupancy (#)			417.00	
2021 - one north	Hotel occupancy (#)			2962.69	
<b>v. Gated Community</b>	<b>v. Value</b>				
1963 - sea ranch	Residential revenue (\$)			16000.00	
1974 - boca pointe	Office lease revenue (\$)			2584.62	
1980 - desert highlands	Hotel revenue (\$)			2904.59	
1990 - bow quarter	Parking revenue (\$)			195.37	
2002 - the palm jumeirah	Land value (\$)			5000.00	
2012 - anfa place	Construction cost (\$)			425.08	
<b>vi. Satellite City</b>	<b>vi. Program</b>				
1969 - roosevelt island	Commercial (m <sup>2</sup> )			240.00	
1973 - tsukuba science city	Residential (m <sup>2</sup> )			30400.00	
1987 - tin shui wai new town	Institutional (m <sup>2</sup> )			1484.00	
1996 - celebration	Leisure/recreational (m <sup>2</sup> )			4541.84	
2006 - city in the desert	Industrial (m <sup>2</sup> )			2100.00	
2010 - qianhai port city	Service (m <sup>2</sup> )			3762.50	

Cases + 6x6 Analytical Categories - Base Width

Data Sheet



Cases + 6x6 Analytical Categories - Base Width

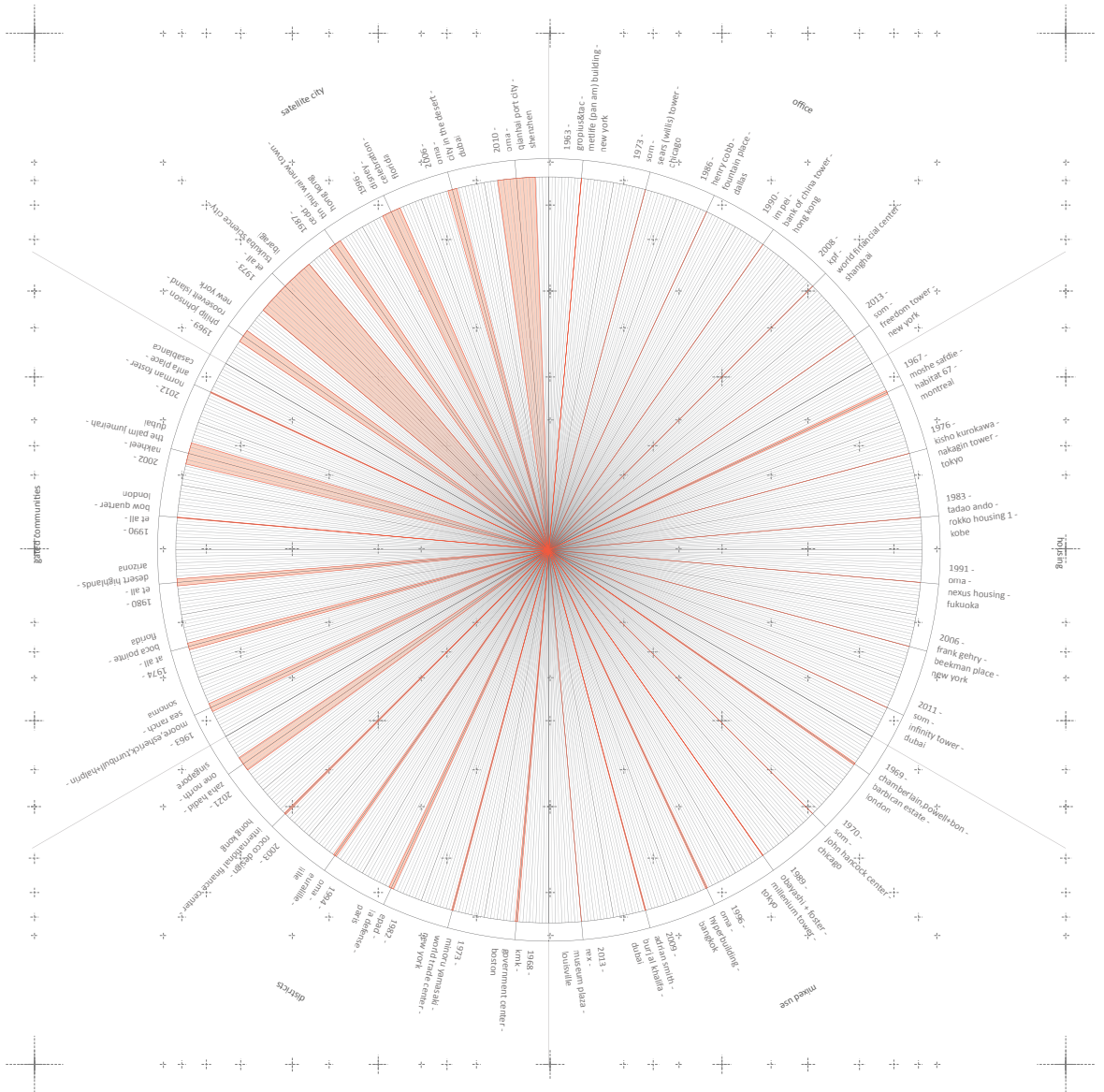
Data Chart

i. Office	i. Massing								
1963 - pan am building	Height (m)								50.00
1973 - sears (willis) tower	Base width (m)								68.58
1986 - fountain place	Base depth (m)								59.46
1990 - bank of china tower	Base core area (m <sup>2</sup> )								52.80
2008 - world financial center	Floor height (m)								60.42
2013 - freedom tower	Total floor area (m <sup>2</sup> )								63.40
ii. Housing	ii. Ground								
1967 - habitat 67	Site area (m <sup>2</sup> )								837.40
1976 - nakagin tower	Hardscape area (m <sup>2</sup> )								21.42
1983 - rokko housing 1	Landscaped area (m <sup>2</sup> )								29.70
1991 - nexus housing	Waterscape area (m <sup>2</sup> )								39.39
2006 - beekman place	Footprint area (m <sup>2</sup> )								60.05
2011 - infinity tower	External parking area (m <sup>2</sup> )								30.24
iii. Mixed Use	iii. Network								
1969 - barbican estate	Water transit nodes (#)								477.24
1970 - john hancock center	Air transit nodes (#)								50.29
1989 - millenium tower	Elevator nodes (#)								120.00
1996 - hyperbuilding	Subway nodes (#)								427.10
2009 - burj al khalifa	Train nodes (#)								216.81
2013 - museum plaza	Bus nodes (#)								91.40
iv. Districts	iv. Demographics								
1968 - government center	Maximum occupancy (#)								520.43
1973 - world trade center	Institutional occupancy (#)								359.57
1982 - la defense	Office occupancy (#)								1055.43
1994 - euralille	Residential occupancy (#)								712.99
2003 - ifc hongkong	Industrial occupancy (#)								420.41
2021 - one north	Hotel occupancy (#)								3476.00
v. Gated Community	v. Value								
1963 - sea ranch	Residential revenue (\$)								2000.00
1974 - boca pointe	Office lease revenue (\$)								1565.74
1980 - desert highlands	Hotel revenue (\$)								1590.61
1990 - bow quarter	Parking revenue (\$)								155.21
2002 - the palm jumeirah	Land value (\$)								5000.00
2012 - anfa place	Construction cost (\$)								254.66
vi. Satellite City	vi. Program								
1969 - roosevelt island	Commercial (m <sup>2</sup> )								3000.00
1973 - tsukuba science city	Residential (m <sup>2</sup> )								14900.00
1987 - tin shui wai new town	Institutional (m <sup>2</sup> )								2964.14
1996 - celebration	Leisure/recreational (m <sup>2</sup> )								4363.23
2006 - city in the desert	Industrial (m <sup>2</sup> )								2100.00
2010 - qianhai port city	Service (m <sup>2</sup> )								8600.00

Cases + 6x6 Analytical Categories - Base Depth

Data Sheet





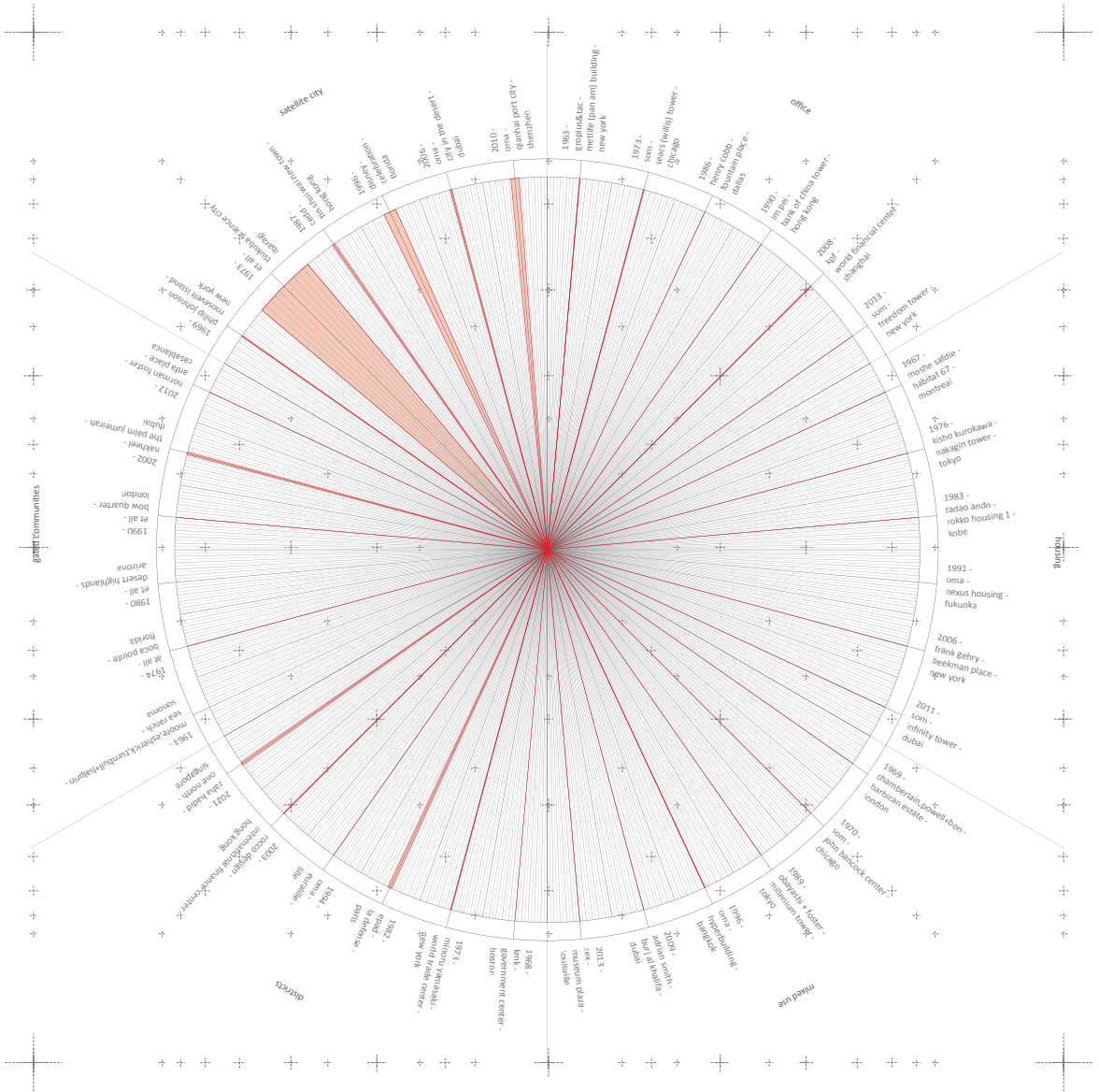
Cases + 6x6 Analytical Categories - Base Depth

Data Chart

i. Office	i. Massing	
1963 - pan am building	Height (m)	1233.29
1973 - sears (willis) tower	Base width (m)	2173.93
1986 - fountain place	Base depth (m)	627.10
1990 - bank of china tower	Base core area (m <sup>2</sup> )	940.64
2008 - world financial center	Floor height (m)	1902.19
2013 - freedom tower	Total floor area (m <sup>2</sup> )	940.64
ii. Housing	ii. Ground	
1967 - habitat 67	Site area (m <sup>2</sup> )	125.42
1976 - nakagin tower	Hardscape area (m <sup>2</sup> )	41.81
1983 - rokko housing 1	Landscaped area (m <sup>2</sup> )	41.81
1991 - nexus housing	Waterscape area (m <sup>2</sup> )	0.00
2006 - beekman place	Footprint area (m <sup>2</sup> )	209.03
2011 - infinity tower	External parking area (m <sup>2</sup> )	146.32
iii. Mixed Use	iii. Network	
1969 - barbican estate	Water transit nodes (#)	162.55
1970 - john hancock center	Air transit nodes (#)	1045.16
1989 - millenium tower	Elevator nodes (#)	1128.77
1996 - hyperbuilding	Subway nodes (#)	1562.85
2009 - burj al khalifa	Train nodes (#)	1191.48
2013 - museum plaza	Bus nodes (#)	334.45
iv. Districts	iv. Demographics	
1968 - government center	Maximum occupancy (#)	689.81
1973 - world trade center	Institutional occupancy (#)	2069.42
1982 - la defense	Office occupancy (#)	8570.31
1994 - euralille	Residential occupancy (#)	1351.00
2003 - ifc hongkong	Industrial occupancy (#)	1902.19
2021 - one north	Hotel occupancy (#)	7253.40
v. Gated Community	v. Value	
1963 - sea ranch	Residential revenue (\$)	0.00
1974 - boca pointe	Office lease revenue (\$)	836.13
1980 - desert highlands	Hotel revenue (\$)	0.00
1990 - bow quarter	Parking revenue (\$)	271.74
2002 - the palm jumeirah	Land value (\$)	5803.11
2012 - anfa place	Construction cost (\$)	94.96
vi. Satellite City	vi. Program	
1969 - roosevelt island	Commercial (m <sup>2</sup> )	2717.41
1973 - tsukuba science city	Residential (m <sup>2</sup> )	144300.59
1987 - tin shui wai new town	Institutional (m <sup>2</sup> )	6312.76
1996 - celebration	Leisure/recreational (m <sup>2</sup> )	28141.84
2006 - city in the desert	Industrial (m <sup>2</sup> )	4480.34
2010 - qianhai port city	Service (m <sup>2</sup> )	18327.75

Cases + 6x6 Analytical Categories - Base Core Area

Data Sheet



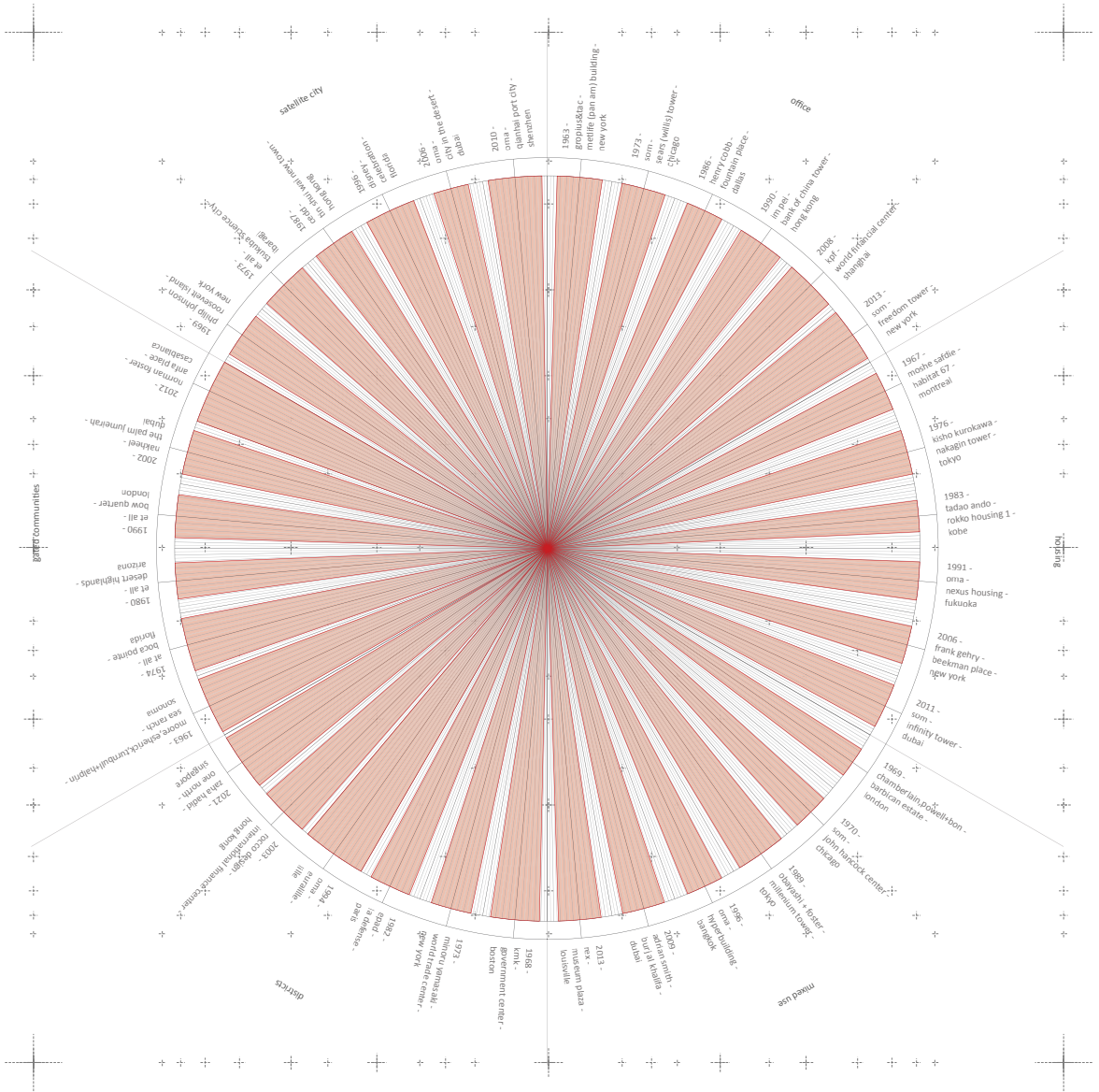
Cases + 6x6 Analytical Categories - Base Core Area

Data Chart

i. Office	i. Massing								
1963 - pan am building	Height (m)								4.18
1973 - sears (willis) tower	Base width (m)								4.09
1986 - fountain place	Base depth (m)								3.48
1990 - bank of china tower	Base core area (m <sup>2</sup> )								4.38
2008 - world financial center	Floor height (m)								4.83
2013 - freedom tower	Total floor area (m <sup>2</sup> )								5.16
ii. Housing	ii. Ground								
1967 - habitat 67	Site area (m <sup>2</sup> )								3.67
1976 - nakagin tower	Hardscape area (m <sup>2</sup> )								4.15
1983 - rokko housing 1	Landscaped area (m <sup>2</sup> )								2.90
1991 - nexus housing	Waterscape area (m <sup>2</sup> )								3.54
2006 - beekman place	Footprint area (m <sup>2</sup> )								3.51
2011 - infinity tower	External parking area (m <sup>2</sup> )								4.21
iii. Mixed Use	iii. Network								
1969 - barbican estate	Water transit nodes (#)								2.93
1970 - john hancock center	Air transit nodes (#)								3.44
1989 - millenium tower	Elevator nodes (#)								4.67
1996 - hyperbuilding	Subway nodes (#)								3.45
2009 - burj al khalifa	Train nodes (#)								3.96
2013 - museum plaza	Bus nodes (#)								3.45
iv. Districts	iv. Demographics								
1968 - government center	Maximum occupancy (#)								4.54
1973 - world trade center	Institutional occupancy (#)								3.79
1982 - la defense	Office occupancy (#)								3.90
1994 - euralille	Residential occupancy (#)								6.00
2003 - ifc hongkong	Industrial occupancy (#)								4.62
2021 - one north	Hotel occupancy (#)								5.33
v. Gated Community	v. Value								
1963 - sea ranch	Residential revenue (\$)								5.33
1974 - boca pointe	Office lease revenue (\$)								5.00
1980 - desert highlands	Hotel revenue (\$)								3.35
1990 - bow quarter	Parking revenue (\$)								3.97
2002 - the palm jumeirah	Land value (\$)								4.15
2012 - anfa place	Construction cost (\$)								6.00
vi. Satellite City	vi. Program								
1969 - roosevelt island	Commercial (m <sup>2</sup> )								4.27
1973 - tsukuba science city	Residential (m <sup>2</sup> )								4.63
1987 - tin shui wai new town	Institutional (m <sup>2</sup> )								4.00
1996 - celebration	Leisure/recreational (m <sup>2</sup> )								4.75
2006 - city in the desert	Industrial (m <sup>2</sup> )								3.27
2010 - qianhai port city	Service (m <sup>2</sup> )								5.00

Cases + 6x6 Analytical Categories - Floor Height

Data Sheet



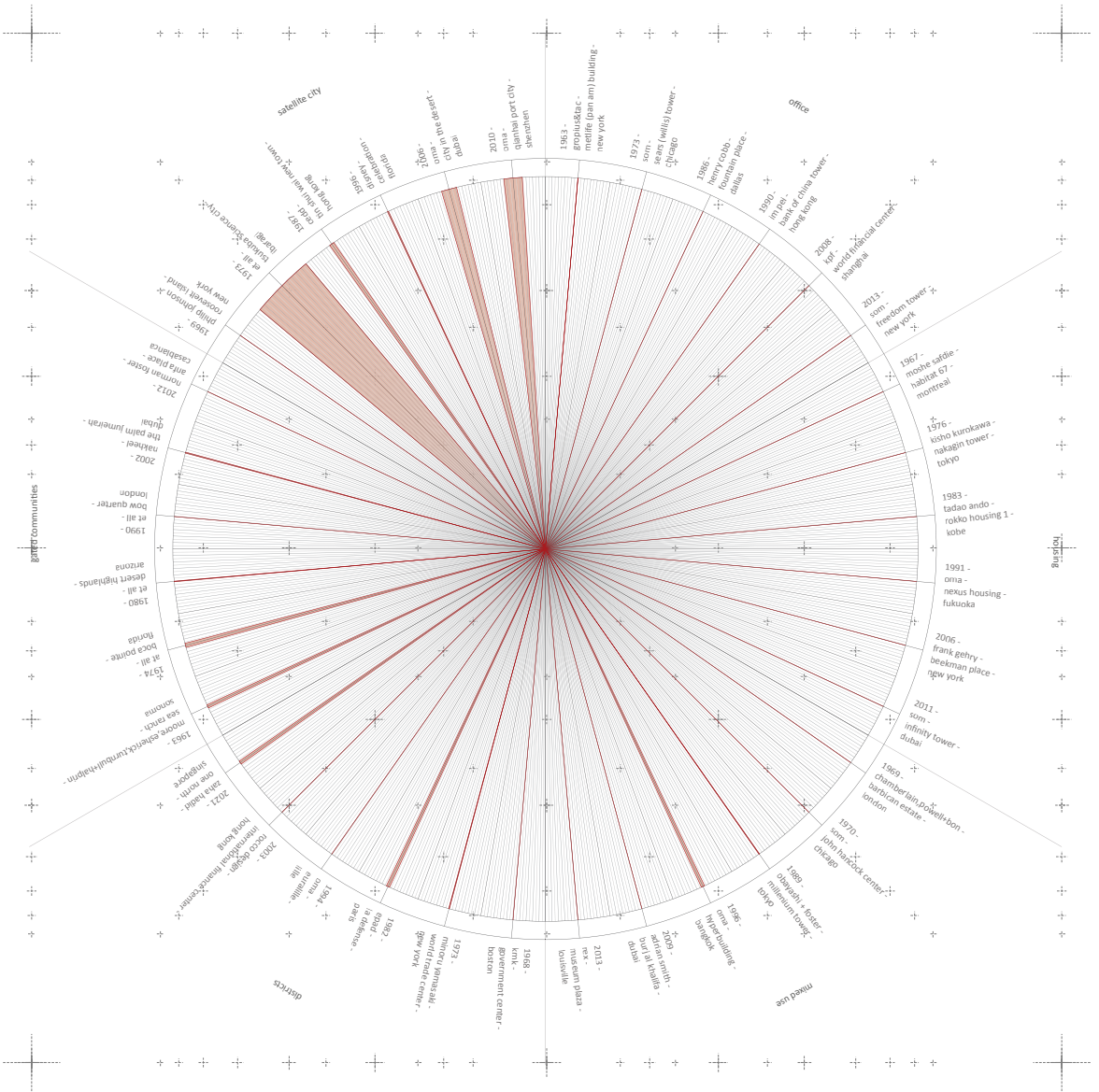
Cases + 6x6 Analytical Categories - Floor Height

Data Chart

<b>i. Office</b>	<b>i. Massing</b>		
1963 - pan am building	Height (m)	292000.00	
1973 - sears (willis) tower	Base width (m)	423637.86	
1986 - fountain place	Base depth (m)	120534.08	
1990 - bank of china tower	Base core area (m <sup>2</sup> )	133800.00	
2008 - world financial center	Floor height (m)	381600.00	
2013 - freedom tower	<b>Total floor area (m<sup>2</sup>)</b>	<b>325160.64</b>	
<b>ii. Housing</b>	<b>ii. Ground</b>		
1967 - habitat 67	Site area (m <sup>2</sup> )	28335.43	
1976 - nakagin tower	Hardscape area (m <sup>2</sup> )	3091.23	
1983 - rokko housing 1	Landscape area (m <sup>2</sup> )	2670.00	
1991 - nexus housing	Waterscape area (m <sup>2</sup> )	5764.76	
2006 - beekman place	Footprint area (m <sup>2</sup> )	93000.00	
2011 - infinity tower	External parking area (m <sup>2</sup> )	111483.65	
<b>iii. Mixed Use</b>	<b>iii. Network</b>		
1969 - barbican estate	Water transit nodes (#)	336913.94	
1970 - john hancock center	Air transit nodes (#)	260128.51	
1989 - millenium tower	Elevator nodes (#)	963000.00	
1996 - hyperbuilding	Subway nodes (#)	5000000.00	
2009 - burj al khalifa	Train nodes (#)	309473.00	
2013 - museum plaza	Bus nodes (#)	141900.00	
<b>iv. Districts</b>	<b>iv. Demographics</b>		
1968 - government center	Maximum occupancy (#)	575998.85	
1973 - world trade center	Institutional occupancy (#)	1040000.00	
1982 - la defense	Office occupancy (#)	4910000.00	
1994 - euralille	Residential occupancy (#)	774000.00	
2003 - ifc hongkong	Industrial occupancy (#)	436644.29	
2021 - one north	Hotel occupancy (#)	5000000.00	
<b>v. Gated Community</b>	<b>v. Value</b>		
1963 - sea ranch	Residential revenue (\$)	4902219.34	
1974 - boca pointe	Office lease revenue (\$)	6038740.90	
1980 - desert highlands	Hotel revenue (\$)	878724.69	
1990 - bow quarter	Parking revenue (\$)	61100.73	
2002 - the palm jumeirah	Land value (\$)	1473954.57	
2012 - anfa place	Construction cost (\$)	260000.00	
<b>vi. Satellite City</b>	<b>vi. Program</b>		
1969 - roosevelt island	Commercial (m <sup>2</sup> )	514686.39	
1973 - tsukuba science city	Residential (m <sup>2</sup> )	92920365.53	
1987 - tin shui wai new town	Institutional (m <sup>2</sup> )	7096204.20	
1996 - celebration	Leisure/recreational (m <sup>2</sup> )	1800290.72	
2006 - city in the desert	Industrial (m <sup>2</sup> )	22134185.00	
2010 - qianhai port city	Service (m <sup>2</sup> )	26500000.00	

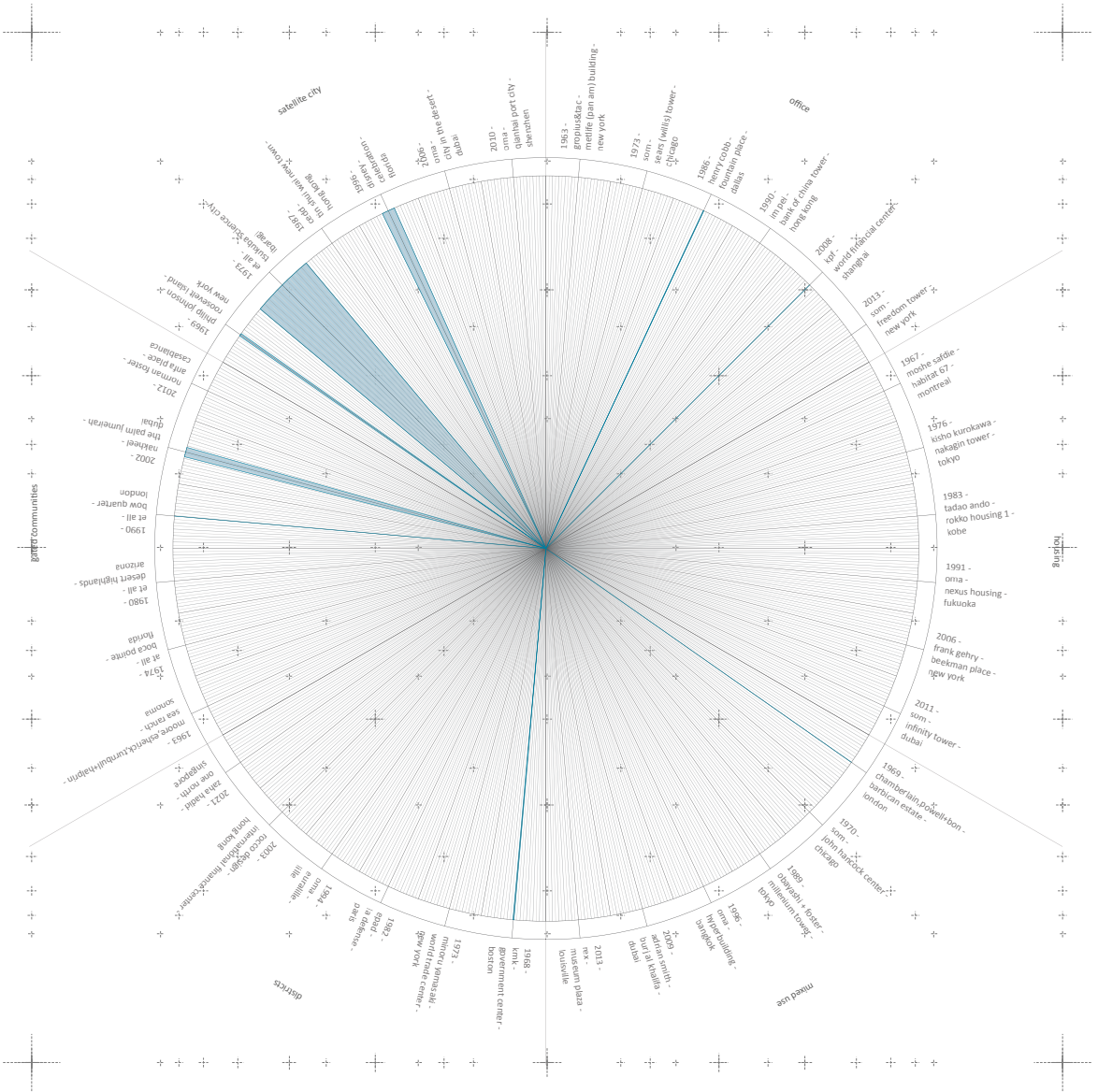
Cases + 6x6 Analytical Categories - Total Floor Area

Data Sheet



Cases + 6x6 Analytical Categories - Total Floor Area

Data Chart



Cases + 6x6 Analytical Categories - External Parking Area

Data Chart



i. Office	i. Massing								
1963 - pan am building	Height (m)					0.00			
1973 - sears (willis) tower	Base width (m)					0.00			
1986 - fountain place	Base depth (m)					0.00			
1990 - bank of china tower	Base core area (m <sup>2</sup> )					1.00			
2008 - world financial center	Floor height (m)					1.00			
2013 - freedom tower	Total floor area (m <sup>2</sup> )					0.00			
ii. Housing	ii. Ground								
1967 - habitat 67	Site area (m <sup>2</sup> )					0.00			
1976 - nakagin tower	Hardscape area (m <sup>2</sup> )					0.00			
1983 - rokko housing 1	Landscaped area (m <sup>2</sup> )					0.00			
1991 - nexus housing	Waterscape area (m <sup>2</sup> )					0.00			
2006 - beekman place	Footprint area (m <sup>2</sup> )					0.00			
2011 - infinity tower	External parking area (m <sup>2</sup> )					1.00			
iii. Mixed Use	iii. Network								
1969 - barbican estate	Water transit nodes (#)					0.00			
1970 - john hancock center	Air transit nodes (#)					0.00			
1989 - millenium tower	Elevator nodes (#)					2.00			
1996 - hyperbuilding	Subway nodes (#)					1.00			
2009 - burj al khalifa	Train nodes (#)					0.00			
2013 - museum plaza	Bus nodes (#)					0.00			
iv. Districts	iv. Demographics								
1968 - government center	Maximum occupancy (#)					0.00			
1973 - world trade center	Institutional occupancy (#)					0.00			
1982 - la defense	Office occupancy (#)					0.00			
1994 - euralille	Residential occupancy (#)					0.00			
2003 - ifc hongkong	Industrial occupancy (#)					2.00			
2021 - one north	Hotel occupancy (#)					0.00			
v. Gated Community	v. Value								
1963 - sea ranch	Residential revenue (\$)					0.00			
1974 - boca pointe	Office lease revenue (\$)					0.00			
1980 - desert highlands	Hotel revenue (\$)					0.00			
1990 - bow quarter	Parking revenue (\$)					0.00			
2002 - the palm jumeirah	Land value (\$)					1.00			
2012 - anfa place	Construction cost (\$)					0.00			
vi. Satellite City	vi. Program								
1969 - roosevelt island	Commercial (m <sup>2</sup> )					0.00			
1973 - tsukuba science city	Residential (m <sup>2</sup> )					0.00			
1987 - tin shui wai new town	Institutional (m <sup>2</sup> )					0.00			
1996 - celebration	Leisure/recreational (m <sup>2</sup> )					0.00			
2006 - city in the desert	Industrial (m <sup>2</sup> )					0.00			
2010 - qianhai port city	Service (m <sup>2</sup> )					11.00			

Cases + 6x6 Analytical Categories - Water Transit Nodes

Data Sheet