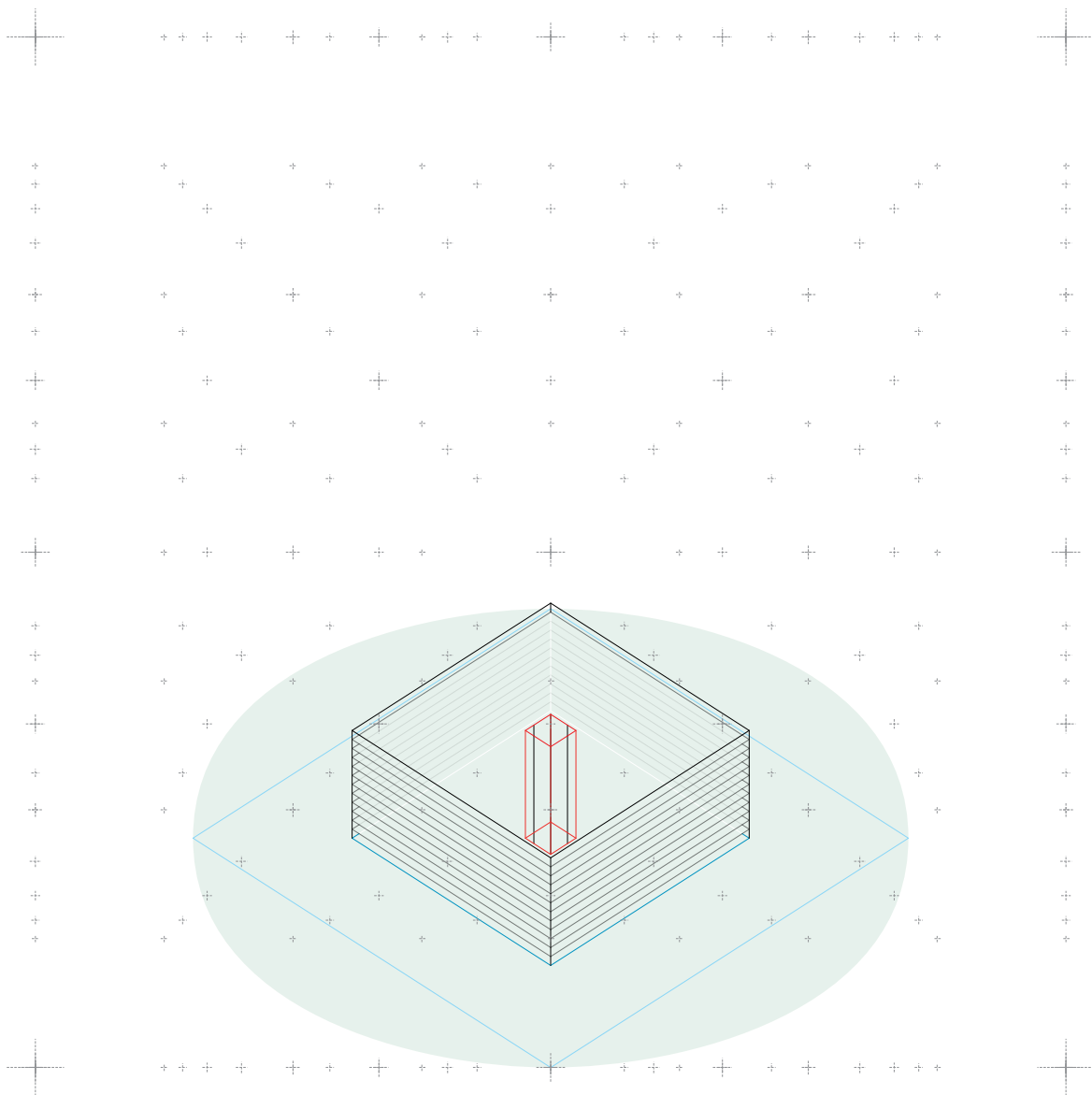


Housing Typology: Charts

1967 - moshe safdie - habitat 67; 1976 - kisho kurokawa - nakagin tower; 1983 - tadao ando - rokko housing 1; 1991 - oma - nexus housing; 2006 - frank gehry - beekman place; 2011 - som - infinity tower



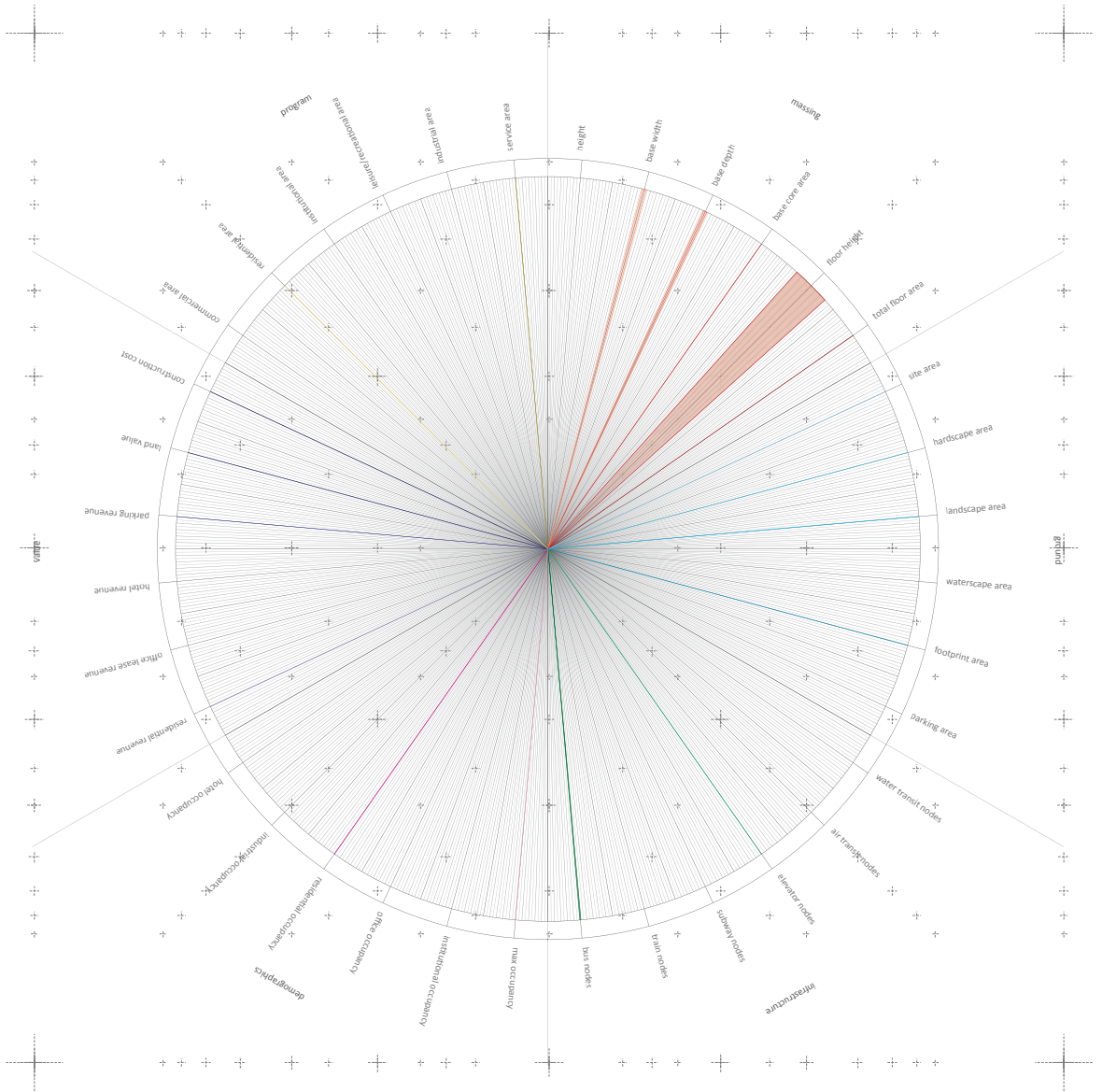
1967 - moshe safdie - habitat 67 - montreal

Megaform Primitive

i. Office	i. Massing		
1963 - pan am building	Height (m)	44.00	
1973 - sears (willis) tower	Base width (m)	1848.60	
1986 - fountain place	Base depth (m)	837.40	
1990 - bank of china tower	Base core area (m ²)	125.42	
2008 - world financial center	Floor height (m)	3.67	
2013 - freedom tower	Total floor area (m ²)	28335.43	
ii. Housing	ii. Ground		
1967 - habitat 67	Site area (m ²)	25150.00	
1976 - nakagin tower	Hardscape area (m ²)	7180.67	
1983 - rokko housing 1	Landscape area (m ²)	10219.33	
1991 - nexus housing	Waterscape area (m ²)	0.00	
2006 - beekman place	Footprint area (m ²)	7750.00	
2011 - infinity tower	External parking area (m ²)	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 (#)	6.00	
1996 - hyperbuilding	Subway nodes (#)	0.00	
2009 - burj al khalifa	Train nodes (#)	0.00	
2013 - museum plaza	Bus nodes (#)	1.00	
iv. Districts	iv. Demographics		
1968 - government center	Maximum occupancy (#)	354.00	
1973 - world trade center	Institutional occupancy (#)	0.00	
1982 - la defense	Office occupancy (#)	0.00	
1994 - euralille	Residential occupancy (#)	354.00	
2003 - ifc hongkong	Industrial occupancy (#)	0.00	
2021 - one north	Hotel occupancy (#)	0.00	
v. Gated Community	v. Value		
1963 - sea ranch	Residential revenue (\$)	\$5,566,410.57	
1974 - boca pointe	Office lease revenue (\$)	\$-	
1980 - desert highlands	Hotel revenue (\$)	\$-	
1990 - bow quarter	Parking revenue (\$)	\$186,945.51	
2002 - the palm jumeira	Land value (\$)	\$22,705,473.54	
2012 - anfa place	Construction cost (\$)	\$178,024,580.84	
vi. Satellite City	vi. Program		
1969 - roosevelt island	Commercial (m ²)	0.00	
1973 - tsukuba science city	Residential (m ²)	23225.76	
1987 - tin shui wai new town	Institutional (m ²)	0.00	
1996 - celebration	Leisure/recreational (m ²)	0.00	
2006 - city in the desert	Industrial (m ²)	0.00	
2010 - qianhai port city	Service (m ²)	5109.67	

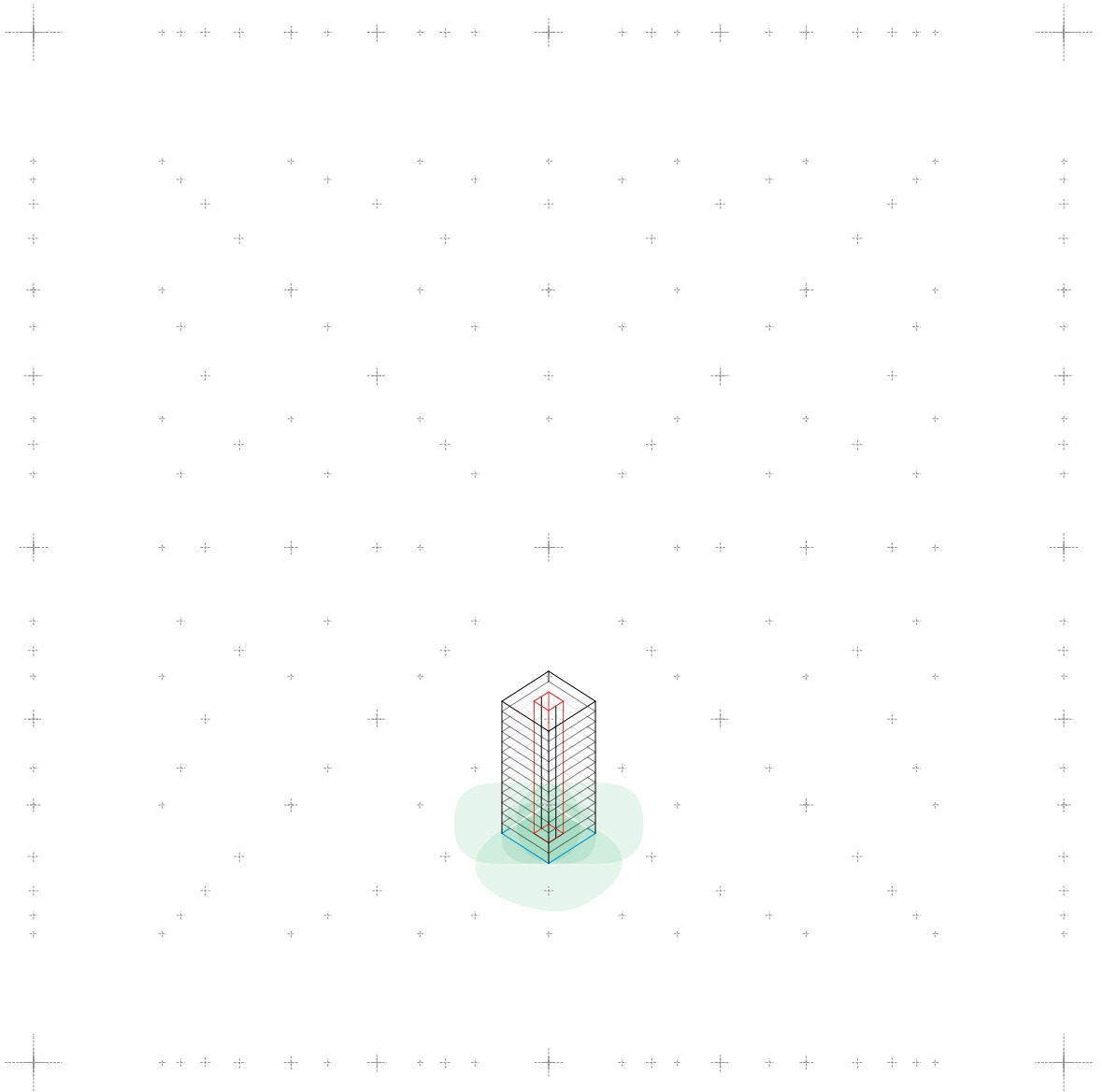
1967 - moshe safdie - habitat 67 - montreal

Data Sheet



1967 - moshe safdie - habitat 67 - montreal

Data Chart



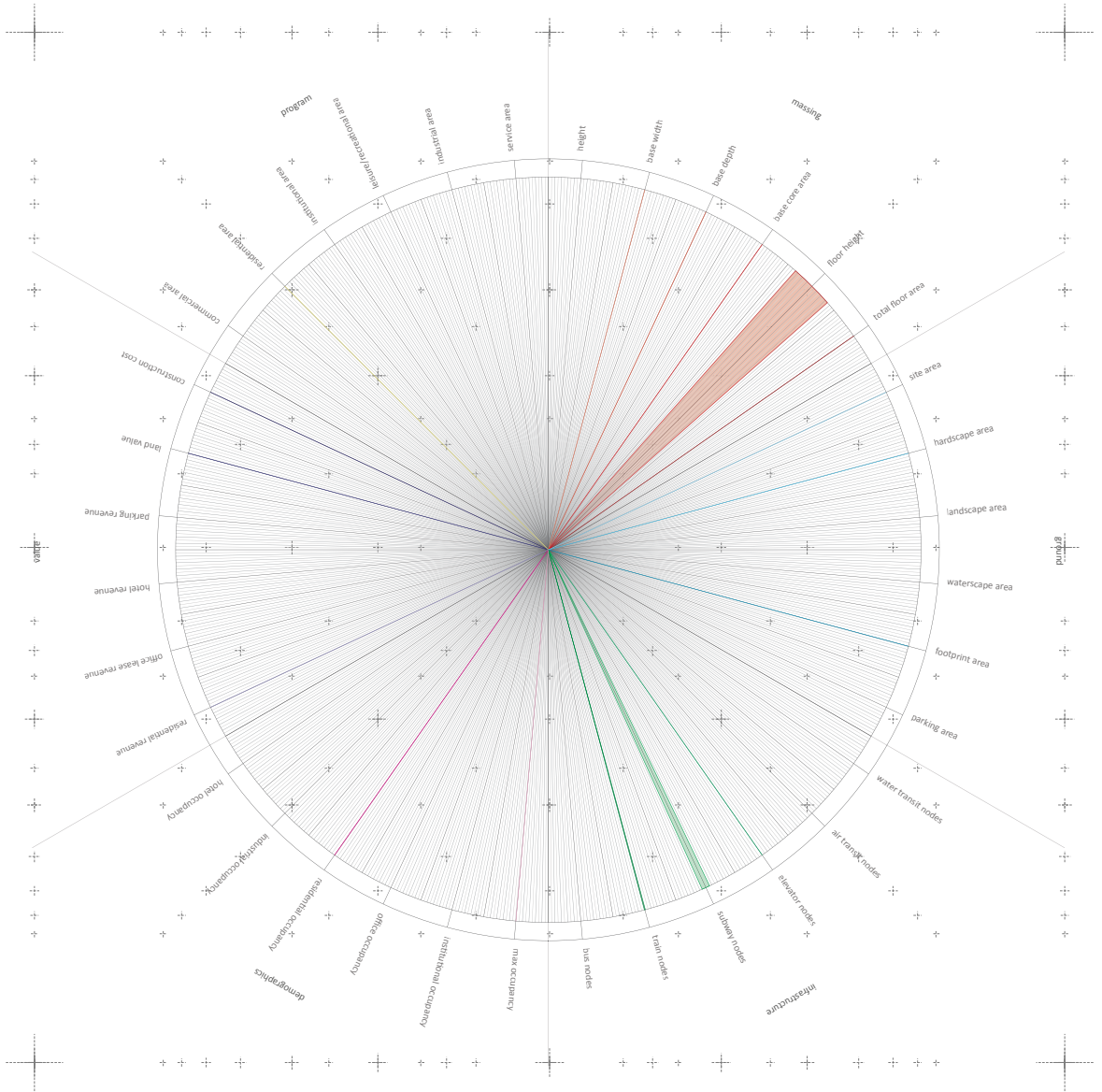
1976 - kisho kurokawa - nakagin tower - tokyo

Megaform Primitive

i. Office	i. Massing			
1963 - pan am building	Height (m)		54.00	
1973 - sears (willis) tower	Base width (m)		20.07	
1986 - fountain place	Base depth (m)		21.42	
1990 - bank of china tower	Base core area (m ²)		41.81	
2008 - world financial center	Floor height (m)		4.15	
2013 - freedom tower	Total floor area (m ²)		3091.23	
ii. Housing	ii. Ground			
1967 - habitat 67	Site area (m ²)		442.00	
1976 - nakagin tower	Hardscape area (m ²)		12.00	
1983 - rokko housing 1	Landscape area (m ²)		0.00	
1991 - nexus housing	Waterscape area (m ²)		0.00	
2006 - beekman place	Footprint area (m ²)		430.00	
2011 - infinity tower	External parking area (m ²)		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 (#)		2.00	
1996 - hyperbuilding	Subway nodes (#)		3.00	
2009 - burj al khalifa	Train nodes (#)		1.00	
2013 - museum plaza	Bus nodes (#)		0.00	
iv. Districts	iv. Demographics			
1968 - government center	Maximum occupancy (#)		144.00	
1973 - world trade center	Institutional occupancy (#)		0.00	
1982 - la defense	Office occupancy (#)		0.00	
1994 - euralille	Residential occupancy (#)		144.00	
2003 - ifc hongkong	Industrial occupancy (#)		0.00	
2021 - one north	Hotel occupancy (#)		0.00	
v. Gated Community	v. Value			
1963 - sea ranch	Residential revenue (\$)		\$1,205,886.53	
1974 - boca pointe	Office lease revenue (\$)		\$-	
1980 - desert highlands	Hotel revenue (\$)		\$-	
1990 - bow quarter	Parking revenue (\$)		\$-	
2002 - the palm jumeira	Land value (\$)		\$87,578,136.36	
2012 - anfa place	Construction cost (\$)		\$15,938,444.86	
vi. Satellite City	vi. Program			
1969 - roosevelt island	Commercial (m ²)		0.00	
1973 - tsukuba science city	Residential (m ²)		3091.23	
1987 - tin shui wai new town	Institutional (m ²)		0.00	
1996 - celebration	Leisure/recreational (m ²)		0.00	
2006 - city in the desert	Industrial (m ²)		0.00	
2010 - qianhai port city	Service (m ²)		0.00	

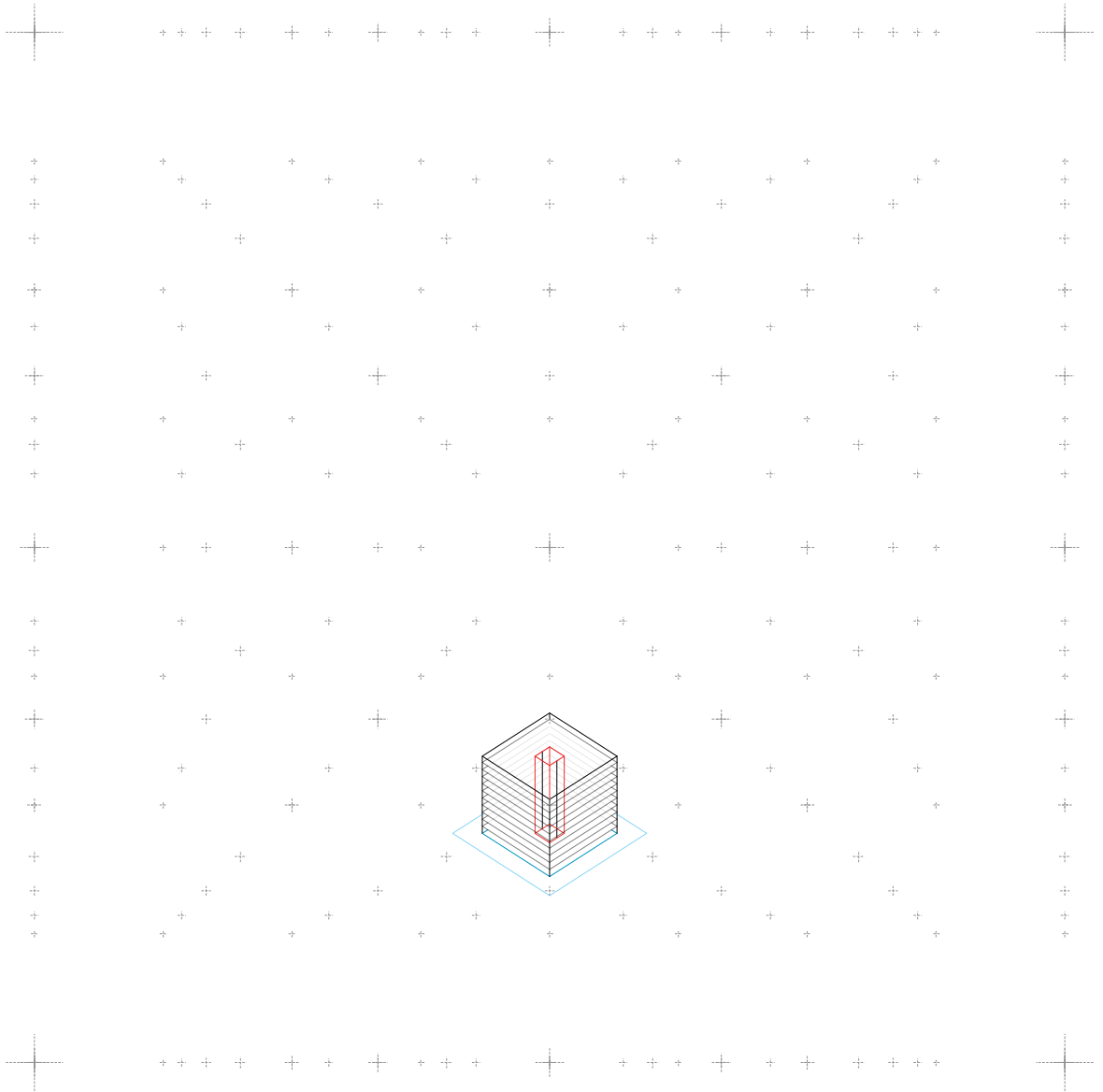
1976 - kisho kurokawa - nakagin tower - tokyo

Data Sheet



1976 - kisho kurokawa - nakagin tower - tokyo

Data Chart



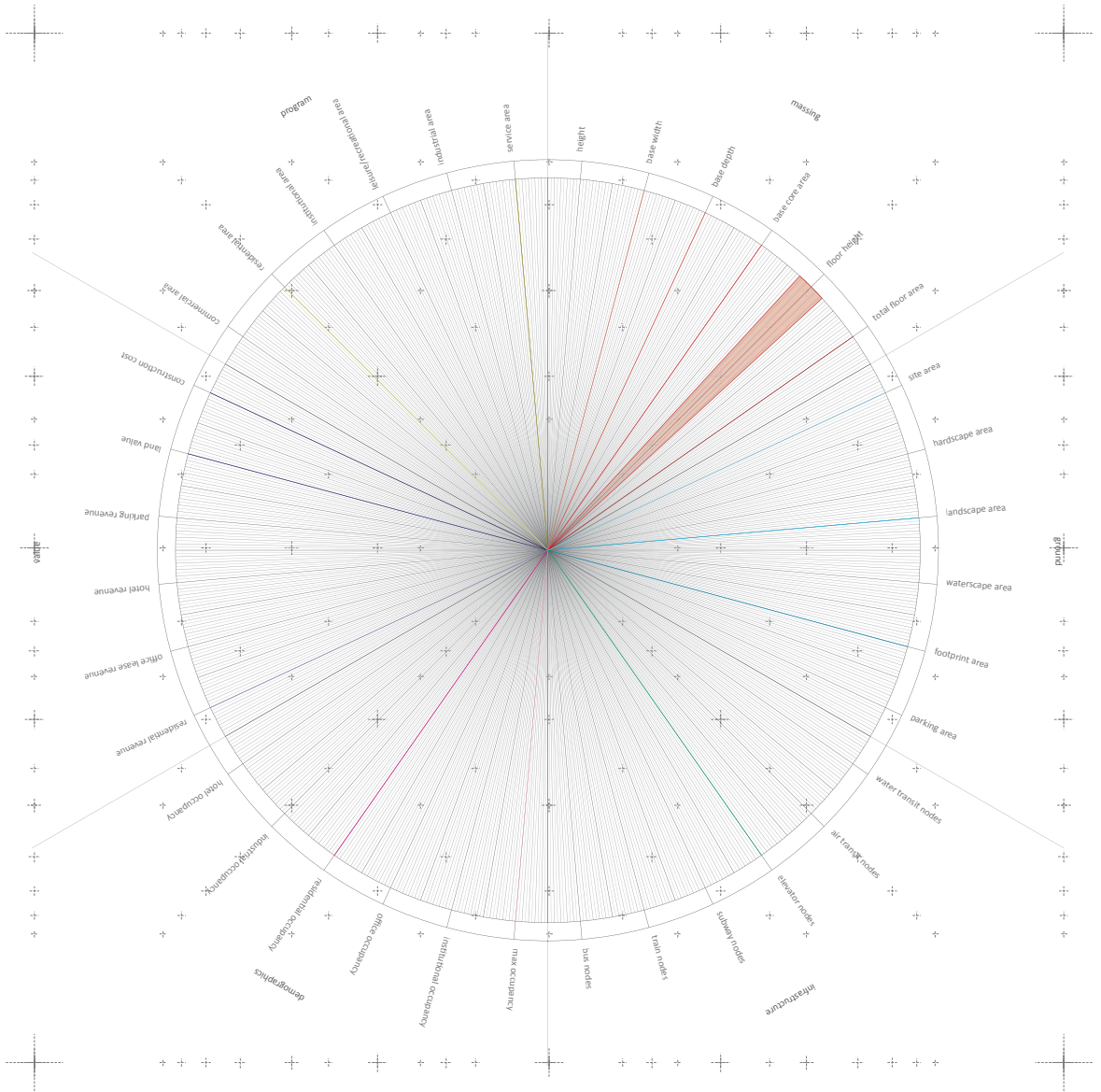
1983 - tadao ando - rokko housing 1 - kobe

Megaform Primitive

i. Office	i. Massing			
1963 - pan am building	Height (m)		31.55	
1973 - sears (willis) tower	Base width (m)		30.00	
1986 - fountain place	Base depth (m)		29.70	
1990 - bank of china tower	Base core area (m ²)		41.81	
2008 - world financial center	Floor height (m)		2.90	
2013 - freedom tower	Total floor area (m ²)		2670.00	
ii. Housing	ii. Ground			
1967 - habitat 67	Site area (m ²)		1852.00	
1976 - nakagin tower	Hardscape area (m ²)		0.00	
1983 - rokko housing 1	Landscape area (m ²)		961.00	
1991 - nexus housing	Waterscape area (m ²)		0.00	
2006 - beekman place	Footprint area (m ²)		891.00	
2011 - infinity tower	External parking area (m ²)		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 (#)		2.00	
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 (#)		20.00	
1973 - world trade center	Institutional occupancy (#)		0.00	
1982 - la defense	Office occupancy (#)		0.00	
1994 - euralille	Residential occupancy (#)		20.00	
2003 - ifc hongkong	Industrial occupancy (#)		0.00	
2021 - one north	Hotel occupancy (#)		0.00	
v. Gated Community	v. Value			
1963 - sea ranch	Residential revenue (\$)		\$12,865,320.00	
1974 - boca pointe	Office lease revenue (\$)		\$-	
1980 - desert highlands	Hotel revenue (\$)		\$-	
1990 - bow quarter	Parking revenue (\$)		\$-	
2002 - the palm jumeira	Land value (\$)		\$4,268,455.34	
2012 - anfa place	Construction cost (\$)		\$66,782,805.16	
vi. Satellite City	vi. Program			
1969 - roosevelt island	Commercial (m ²)		0.00	
1973 - tsukuba science city	Residential (m ²)		1779.00	
1987 - tin shui wai new town	Institutional (m ²)		0.00	
1996 - celebration	Leisure/recreational (m ²)		0.00	
2006 - city in the desert	Industrial (m ²)		0.00	
2010 - qianhai port city	Service (m ²)		891.00	

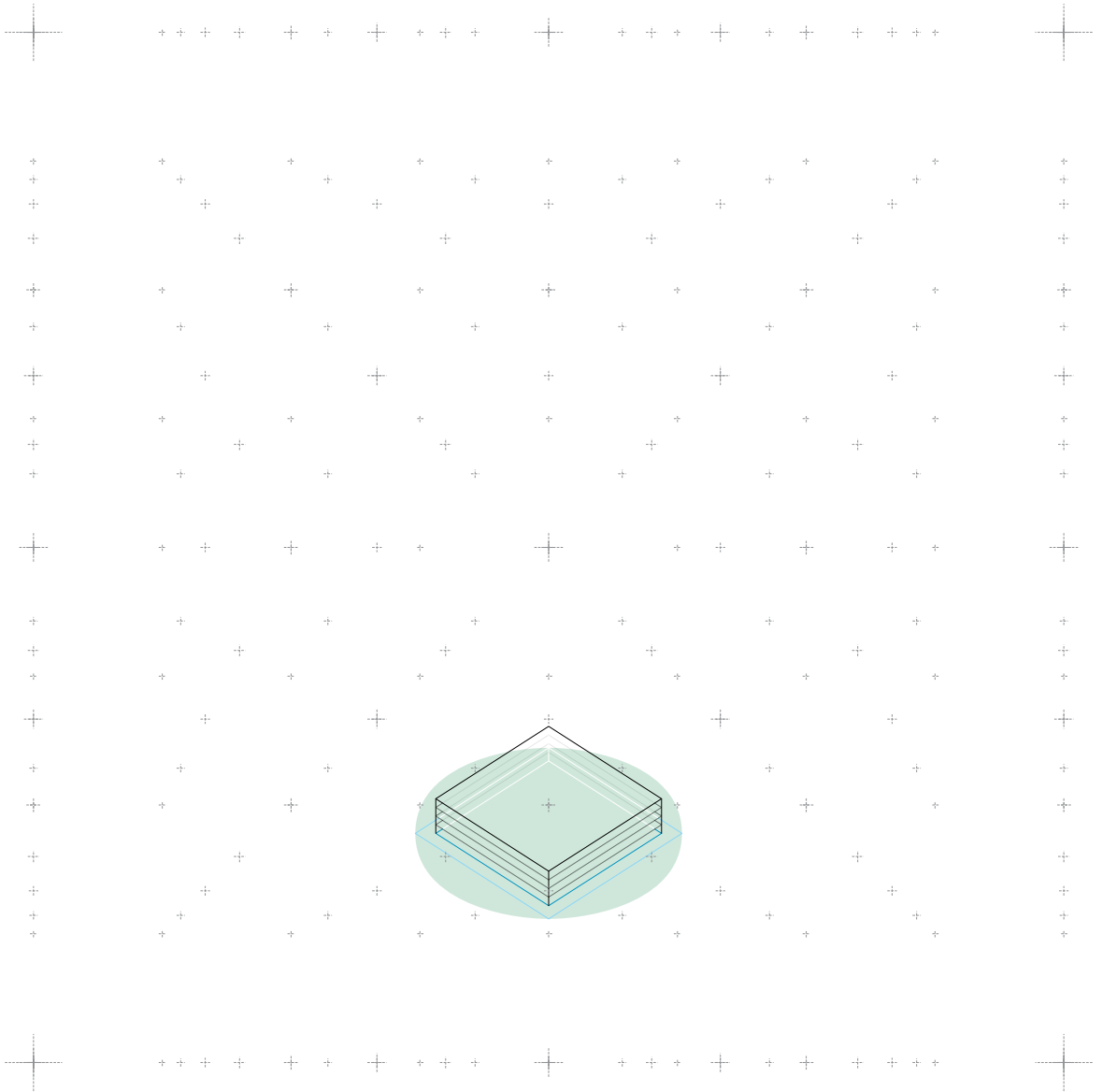
1983 - tadao ando - rokko housing 1 - kobe

Data Sheet



1983 - tadao ando - rokkō housing 1 - kobe

Data Chart



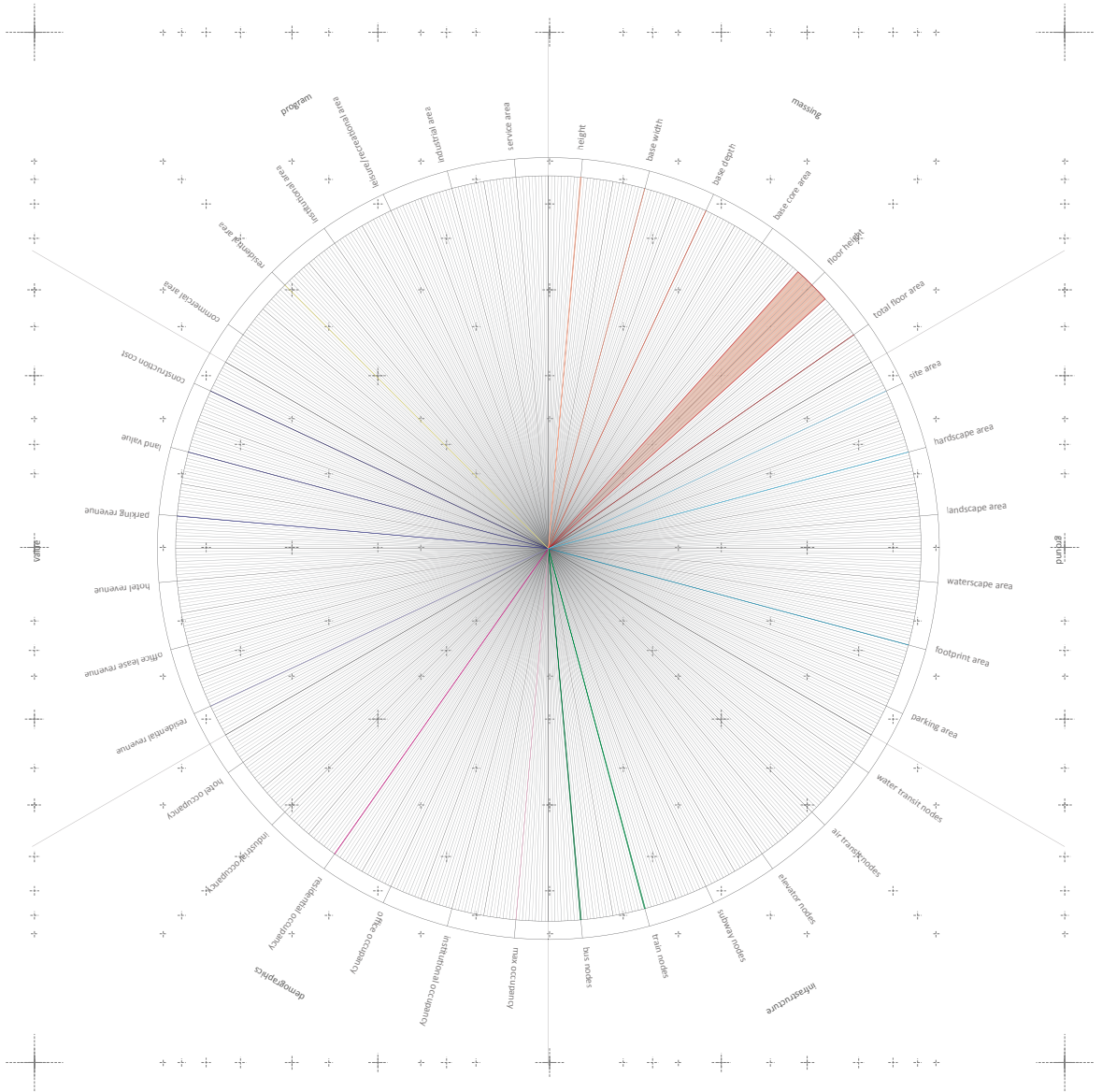
1991 - oma - nexus housing - fukuoka

Megaform Primitive

i. Office	i. Massing		
1963 - pan am building	Height (m)	14.14	
1973 - sears (willis) tower	Base width (m)	74.27	
1986 - fountain place	Base depth (m)	39.39	
1990 - bank of china tower	Base core area (m ²)	0.00	
2008 - world financial center	Floor height (m)	3.54	
2013 - freedom tower	Total floor area (m ²)	5764.76	
ii. Housing	ii. Ground		
1967 - habitat 67	Site area (m ²)	3497.00	
1976 - nakagin tower	Hardscape area (m ²)	991.00	
1983 - rokko housing 1	Landscape area (m ²)	0.00	
1991 - nexus housing	Waterscape area (m ²)	0.00	
2006 - beekman place	Footprint area (m ²)	2506.00	
2011 - infinity tower	External parking area (m ²)	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 (#)	1.00	
2013 - museum plaza	Bus nodes (#)	1.00	
iv. Districts	iv. Demographics		
1968 - government center	Maximum occupancy (#)	24.00	
1973 - world trade center	Institutional occupancy (#)	0.00	
1982 - la defense	Office occupancy (#)	0.00	
1994 - euralille	Residential occupancy (#)	24.00	
2003 - ifc hongkong	Industrial occupancy (#)	0.00	
2021 - one north	Hotel occupancy (#)	0.00	
v. Gated Community	v. Value		
1963 - sea ranch	Residential revenue (\$)	\$25,985,549.95	
1974 - boca pointe	Office lease revenue (\$)	\$-	
1980 - desert highlands	Hotel revenue (\$)	\$-	
1990 - bow quarter	Parking revenue (\$)	\$45,820.57	
2002 - the palm jumeira	Land value (\$)	\$4,870,376.46	
2012 - anfa place	Construction cost (\$)	\$26,663,475.47	
vi. Satellite City	vi. Program		
1969 - roosevelt island	Commercial (m ²)	0.00	
1973 - tsukuba science city	Residential (m ²)	5764.76	
1987 - tin shui wai new town	Institutional (m ²)	0.00	
1996 - celebration	Leisure/recreational (m ²)	0.00	
2006 - city in the desert	Industrial (m ²)	0.00	
2010 - qianhai port city	Service (m ²)	0.00	

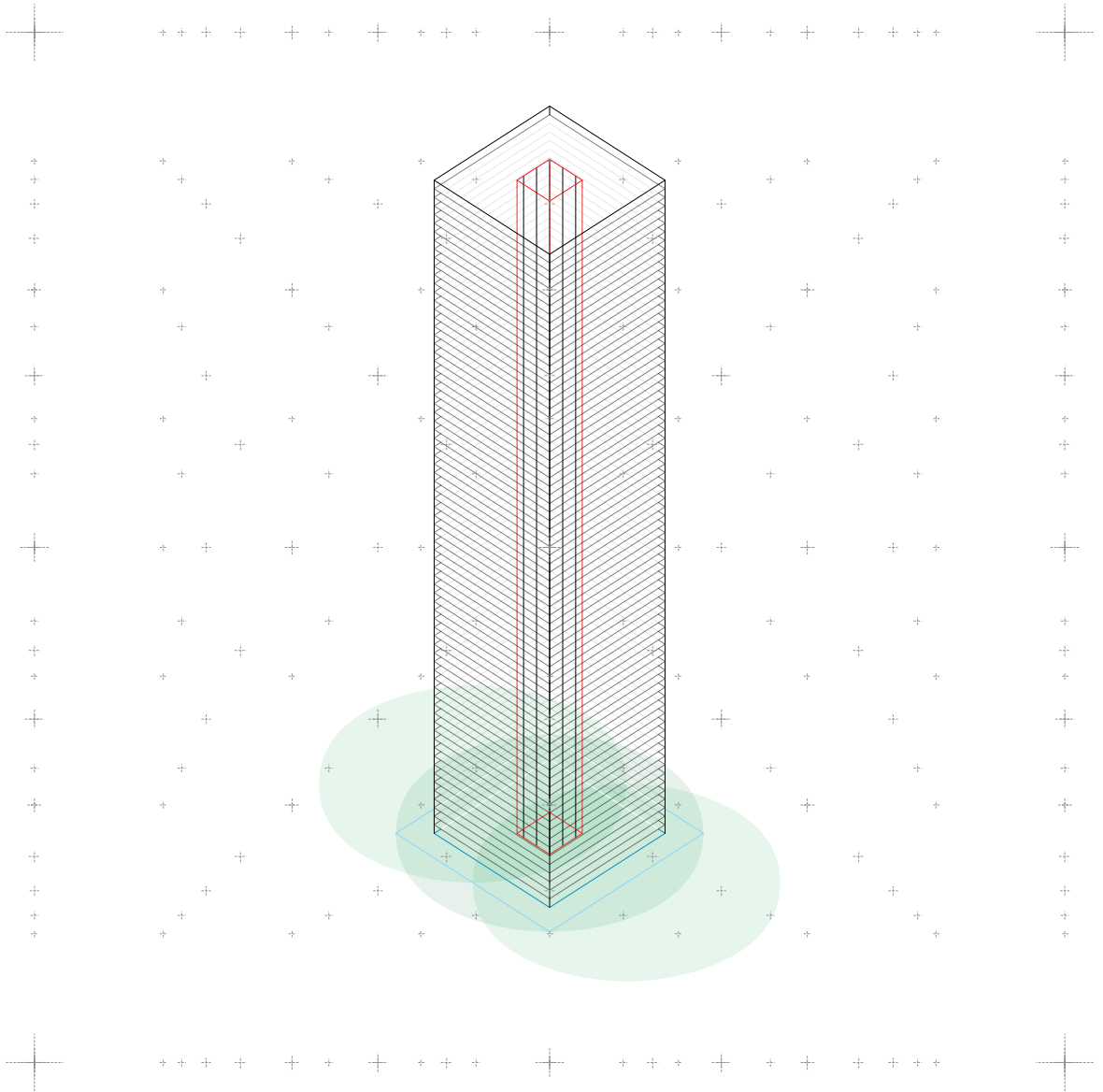
1991 - oma - nexus housing - fukuoka

Data Sheet



1991 - oma - nexus housing - fukuoka

Data Chart



2006 - frank gehry - beekman place - new york

Megaform Primitive

i. Office	i. Massing		
1963 - pan am building	Height (m)	267.00	
1973 - sears (willis) tower	Base width (m)	43.67	
1986 - fountain place	Base depth (m)	60.05	
1990 - bank of china tower	Base core area (m ²)	209.03	
2008 - world financial center	Floor height (m)	3.51	
2013 - freedom tower	Total floor area (m ²)	93000.00	
ii. Housing	ii. Ground		
1967 - habitat 67	Site area (m ²)	4652.61	
1976 - nakagin tower	Hardscape area (m ²)	1393.55	
1983 - rokko housing 1	Landscape area (m ²)	637.13	
1991 - nexus housing	Waterscape area (m ²)	0.00	
2006 - beekman place	Footprint area (m ²)	2621.94	
2011 - infinity tower	External parking area (m ²)	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 (#)	10.00	
1996 - hyperbuilding	Subway nodes (#)	2.00	
2009 - burj al khalifa	Train nodes (#)	0.00	
2013 - museum plaza	Bus nodes (#)	1.00	
iv. Districts	iv. Demographics		
1968 - government center	Maximum occupancy (#)	1503.00	
1973 - world trade center	Institutional occupancy (#)	600.00	
1982 - la defense	Office occupancy (#)	0.00	
1994 - euralille	Residential occupancy (#)	903.00	
2003 - ifc hongkong	Industrial occupancy (#)	0.00	
2021 - one north	Hotel occupancy (#)	0.00	
v. Gated Community	v. Value		
1963 - sea ranch	Residential revenue (\$)	\$47,434,680.00	
1974 - boca pointe	Office lease revenue (\$)	\$-	
1980 - desert highlands	Hotel revenue (\$)	\$-	
1990 - bow quarter	Parking revenue (\$)	\$630,000.00	
2002 - the palm jumeira	Land value (\$)	\$12,600,000.00	
2012 - anfa place	Construction cost (\$)	\$210,000,000.00	
vi. Satellite City	vi. Program		
1969 - roosevelt island	Commercial (m ²)	125.42	
1973 - tsukuba science city	Residential (m ²)	54115.23	
1987 - tin shui wai new town	Institutional (m ²)	34300.00	
1996 - celebration	Leisure/recreational (m ²)	2043.87	
2006 - city in the desert	Industrial (m ²)	0.00	
2010 - qianhai port city	Service (m ²)	2415.48	

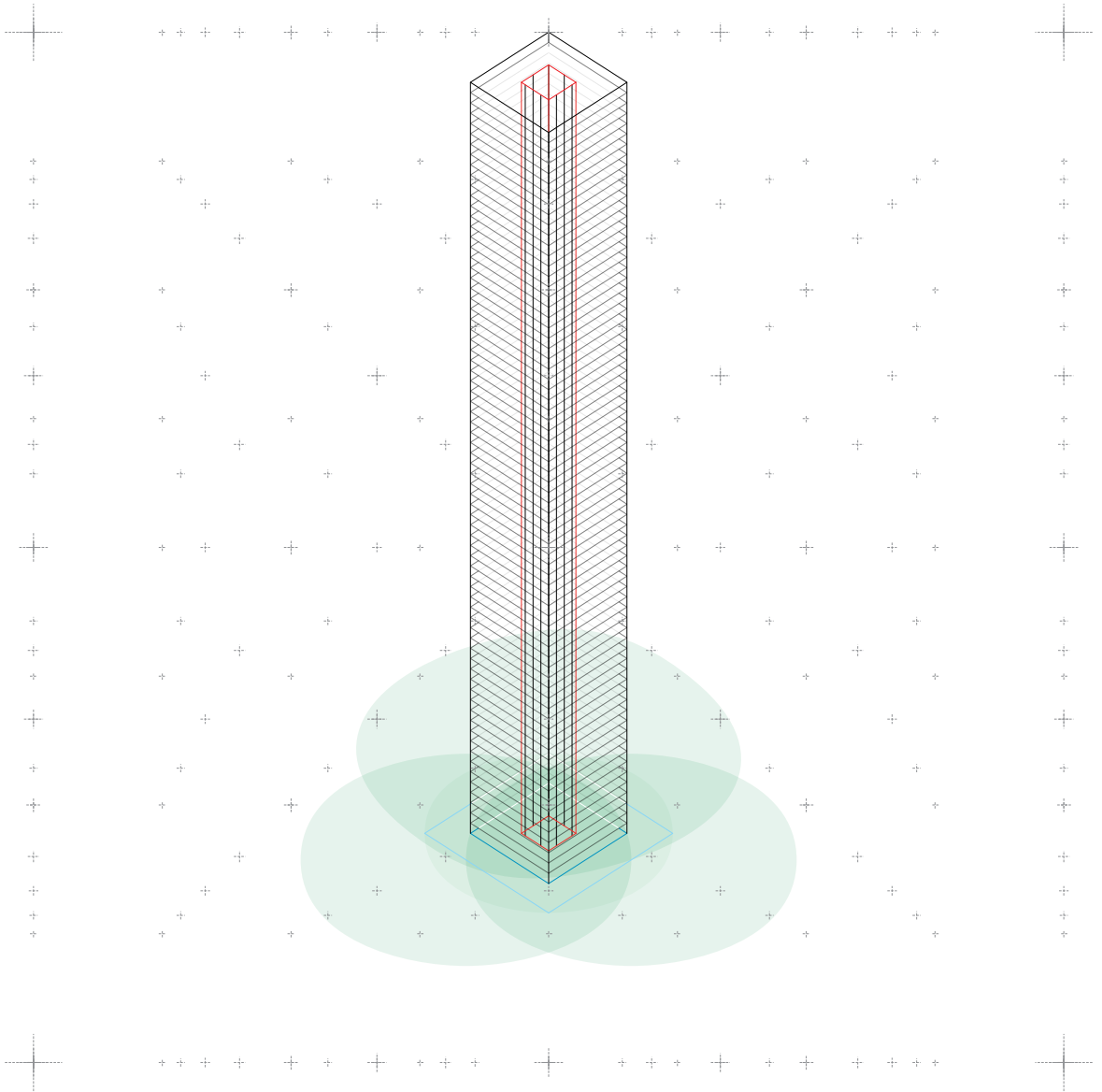
2006 - frank gehry - beekman place - new york

Data Sheet



2006 - frank gehry - beekman place - new york

Data Chart



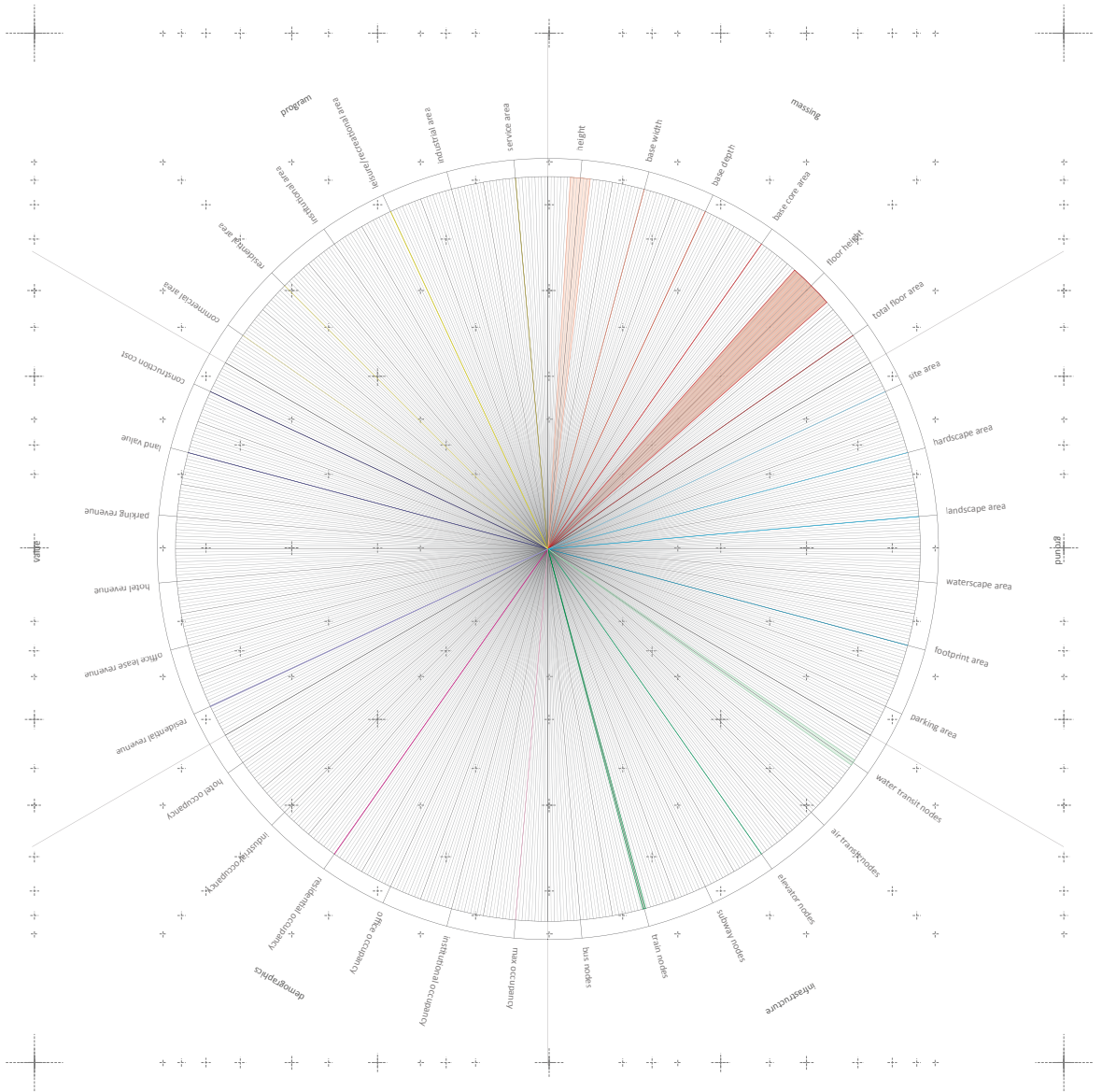
2011 - som - infinity tower - dubai

Megaform Primitive

i. Office	i. Massing		
1963 - pan am building	Height (m)	307.00	
1973 - sears (willis) tower	Base width (m)	39.24	
1986 - fountain place	Base depth (m)	30.24	
1990 - bank of china tower	Base core area (m ²)	146.32	
2008 - world financial center	Floor height (m)	4.21	
2013 - freedom tower	Total floor area (m ²)	111483.65	
ii. Housing	ii. Ground		
1967 - habitat 67	Site area (m ²)	3026.50	
1976 - nakagin tower	Hardscape area (m ²)	911.33	
1983 - rokko housing 1	Landscape area (m ²)	911.33	
1991 - nexus housing	Waterscape area (m ²)	0.00	
2006 - beekman place	Footprint area (m ²)	1203.83	
2011 - infinity tower	External parking area (m ²)	0.00	
iii. Mixed Use	iii. Network		
1969 - barbican estate	Water transit nodes (#)	1.00	
1970 - john hancock center	Air transit nodes (#)	0.00	
1989 - millenium tower	Elevator nodes (#)	7.00	
1996 - hyperbuilding	Subway nodes (#)	0.00	
2009 - burj al khalifa	Train nodes (#)	3.00	
2013 - museum plaza	Bus nodes (#)	0.00	
iv. Districts	iv. Demographics		
1968 - government center	Maximum occupancy (#)	742.00	
1973 - world trade center	Institutional occupancy (#)	0.00	
1982 - la defense	Office occupancy (#)	0.00	
1994 - euralille	Residential occupancy (#)	742.00	
2003 - ifc hongkong	Industrial occupancy (#)	0.00	
2021 - one north	Hotel occupancy (#)	0.00	
v. Gated Community	v. Value		
1963 - sea ranch	Residential revenue (\$)	\$306,397,602.77	
1974 - boca pointe	Office lease revenue (\$)	\$-	
1980 - desert highlands	Hotel revenue (\$)	\$-	
1990 - bow quarter	Parking revenue (\$)	\$-	
2002 - the palm jumeira	Land value (\$)	\$3,768,628.07	
2012 - anfa place	Construction cost (\$)	\$272,293,358.53	
vi. Satellite City	vi. Program		
1969 - roosevelt island	Commercial (m ²)	4581.52	
1973 - tsukuba science city	Residential (m ²)	103847.78	
1987 - tin shui wai new town	Institutional (m ²)	0.00	
1996 - celebration	Leisure/recreational (m ²)	1527.17	
2006 - city in the desert	Industrial (m ²)	0.00	
2010 - qianhai port city	Service (m ²)	1527.17	

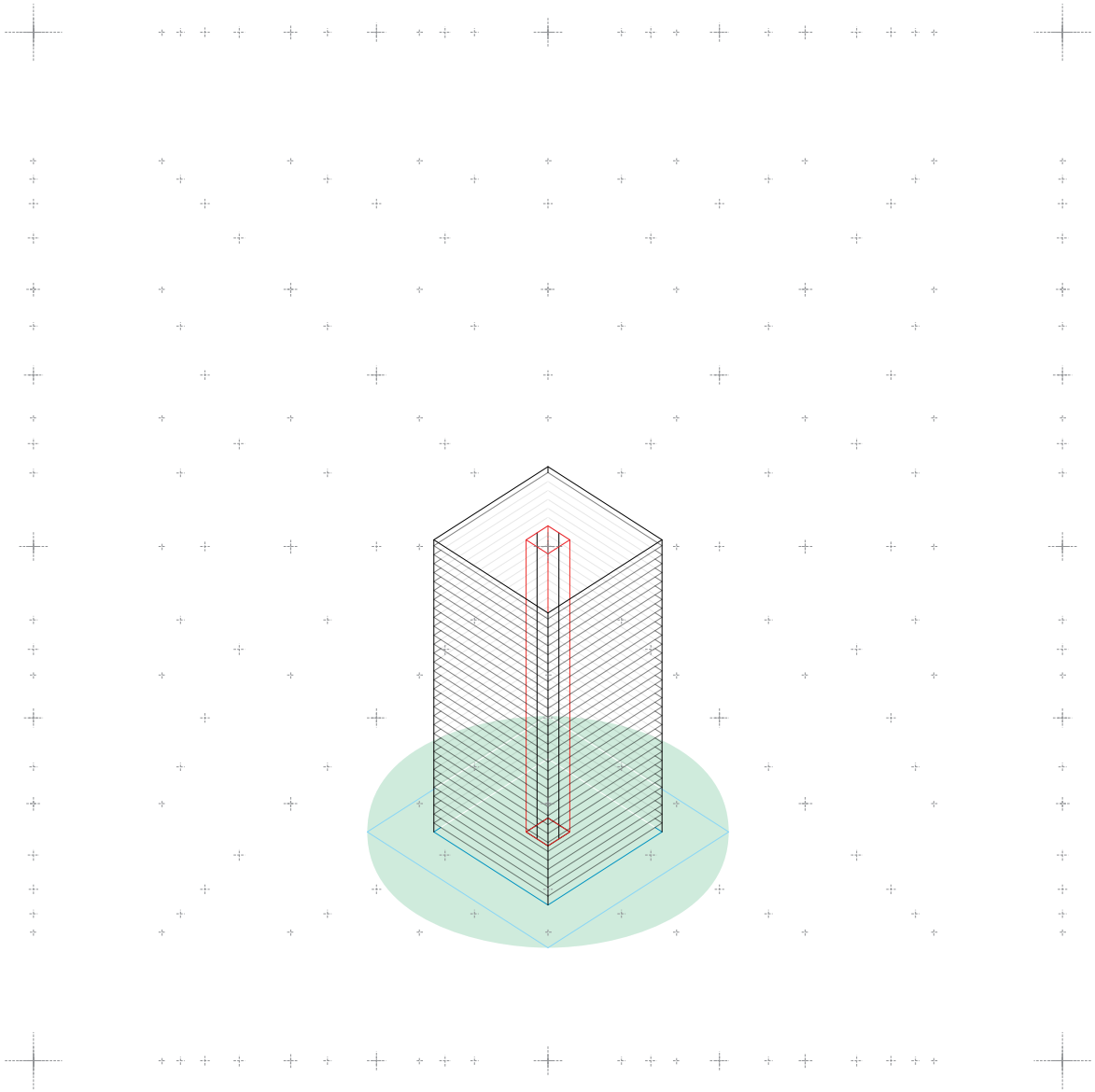
2011 - som - infinity tower - dubai

Data Sheet



2011 - som - infinity tower - dubai

Data Chart



02 - housing - average

Megaform Primitive