

Supplement Material

Table S1. Summary of the reviewed articles

Case study		Country	UA	Land ownership	Benefits						Special benefited groups	Challenges						Government support	Reference
City	Country				status	HE	SR	Ed	Ecn	Eco		CR	LR	FR	HR	LIR	IR		
1	Singapore	Singapore	Developed country	CA, CEA				✓		✓			✓	✓		✓	Inter-agency collaboration	[27]	
2	Singapore	Singapore		CG, HG		✓												Incorporate CG to urban designing	[52]
3	General	Israel		CG		✓	✓	✓		✓	Apartment residents		✓	✓			✓		[34]
4	Greece	Thermi		AG, IG	Government	✓	✓	✓										Free access to water, training on organic gardening	[71]
5	General			CG		✓	✓	✓	✓	✓									[94]
6	General	Germany		CG, IG			✓ (CG and IG)		✓ (IG)										[55]
7	Belgrade	Serbia		CG	Private	✓	✓		✓		Elders					✓			[19]
8	Toulouse	France		IG			✓		✓				✓	✓			✓		[30]
9	New York	USA		CEA, ING, CA			✓	✓	✓		Low-income people		✓					Legislations to use public spaces for UA	[37]
10	Three cities			CG			✓	✓				Immigrants, Elders							

Case study		Country	UA	Land	Benefits						Special benefited groups	Challenges						Government support	Reference
City	Country				HE	SR	Ed	Ecn	Eco	CR		LR	FR	HR	LIR	IR	O		
11	California Central Coast	USA	CG		✓	✓	✓												[31]
12	Toledo, Ohio		CG and ING			✓		✓	✓		Minority, Low income people	✓	✓				✓	Support from the politicians	[14]
13	Boston		CG		✓	✓	✓	✓									✓		[2]
14	Chicago		HG			✓		✓			Migrants		✓	✓					[85]
15	California's San Francisco Bay Area,		CG, HG		✓	✓	✓												[28]
16	South Tyrol	Developed country	AG	Mostly municipal owned and few privately owned	✓	✓		✓			Elders, Disabled people, Pensioners								[18]
17	Milan		CG			✓					Seniors, Retired people								[80]
18	Bologna		CG			✓	✓	✓					✓		✓		✓	Collaboration with municipal council	[35]
19	Campania		CG, Urban Parks, HG		✓	✓	✓	✓	✓	✓	People with mental disorders,								[78]

			School children															
20	Saitama	Japan	Czech Republic	AG	Public, Private	✓	✓							✓	✓	[45]		
21	Brno	Prague		AG	Mostly private	✓	✓	✓							✓	✓	[82]	
22				CG	Public, Private	✓	✓									[29]		
Case study			GN/GS	UA model	Land ownership	Benefits					Special benefited groups	Challenges					Government support	Reference
City	Country	HE				SR	Ed	Ecn	Eco	CR		LR	FR	HR	LIR	IR		
23	Baeza, Andalusia	Spain	Developed country	AG		✓	✓	✓	✓	✓							Land allocation, install irrigation systems	[62]
24	Barcelona			AG	Public and squatted	✓	✓	✓	✓	✓							Integrate into city planning regulations	[16]
25	London			Micro farms	Public, Private		✓		✓								[21]	
26	Salford	UK		Guerrilla gardening		✓			✓							Guerrilla group was encouraged by local authority	[44]	
27	Glasgow			CG, Market gardens, AG	Public, Private	✓	✓	✓	✓	✓	✓	Unemployed people	✓	✓			Informal support from local politicians,	[92]

										Leasing lands	
28Wythenshawe,			CG	Private	✓	✓	✓	Cancer patients	[83]		
29	South Australia	Australia	HG				✓	✓	✓	✓	[74]
30	Adeleid,		HG, ING		✓		✓	✓	✓	✓	[24]
31	General	Netherlands	AG		✓			Elders	[88]		
32	Poznan	Poland	CG		✓	✓	✓	✓		✓ Grants by Municipal councils	[61]
33	General		AG		✓		✓			✓ Legislations	[9]
34	Zagreb	Craotia	CG, Guerilla gardens, City gardens		✓			✓	✓	✓ Municipal council-initiated projects	[40]

Case study		Country	Country status	UA model	Land ownership	Benefits						Special benefited groups	Challenges						Government support	Reference
City	Country					HE	SR	Ed	Ecn	Eco	CR		LR	FR	HR	LIR	IR	O		
35	Stockholm	Sweden	Developed country	CG	Municipal	✓	✓			✓			✓	✓			✓	✓	Leasing gardens by city council, integrate into urban planning, provide started kits for farming	[12]
36	142 cities	Hungary		CG	Public (most), Private (few)		✓			✓						✓				[11]

37	Kathmandu	Nepal	Developing country	IG, AG, CG				✓		Migrants						Establishing corporate markets	[65]	
38	West Jakarta			IG, CA					✓		Migrants	✓			✓			[20]
39	Duri, Kosambi, Jakarta	Indonesia		IG					✓	✓				✓	✓			[15]
40	Pyin Oo Lwin	Myanmar		CA	Government, Private (most)	✓	✓	✓	✓	✓	✓							[46]
41	Lào Cai	Vietnam		IG	Government, Private	✓	✓		✓	✓				✓	✓		✓	[72]
42	Freetown	Sierra Leone		IG	Government, Private				✓		Law income people	✓	✓				✓	[60]
43	Mexico City			CG	Government, Private	✓	✓	✓	✓	✓					✓		✓	[33]
44	State of Tlaxcala	Mexico								Marginalized people, woman, disabled people, elderly people								
				IG, HG				✓			✓		✓		✓	✓	[67]	

Case study		Country status	UA model	Land ownership	Benefits						Special benefited groups	Challenges						Government support	Reference
City	Country				HE	SR	Ed	Ecn	Eco	CR		LR	FR	HR	LIR	IR	O		
45	Shanghai	China	Developing country	CG		✓	✓			✓									[54]
46	Wuhan			CG, IG		✓		✓	✓	✓		✓	✓	✓			✓		[96]
47	Quito	Ecuador		HG		✓	✓		✓			✓	✓	✓			✓		[23]
48	Johannersburg			CG			✓	✓	✓	✓			✓	✓			✓		[93]

49	Eastern Cape province	South Africa		CG	✓	✓	✓								[77]
50	Pune	India		HG		✓	✓	✓							[97]
51	Salvador, Bahia	Brazil		CG		✓	✓								[25]
52	Antananarivo	Madagascar		CA	✓	✓	✓	✓		✓				✓	[7]
53	Bedelle town	Ethiopia		Horticulture, HG			✓	✓		✓	✓	✓	✓	✓	[1]
54	Temuco	Chile													
	Lausanne, Zürich, Bern	Switzerland	Developed country	HG	✓	✓	✓	✓	✓						[48]