Advancing urban adaptation where it counts: reshaping unequal knowledge and resource diffusion in networked Indonesian cities

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Supplementary information

MAPS 1–2 DATA

City	Number of participating networks	Participating networks (from Table 1)
Jakarta, Java	10	Metropolis, UCLG, Sister Cities, CityNet, C40, Compact of Mayors, 100 Resilient Cities, WeGo, PEMSEA, Making Cities Resilient.
Surabaya, Java	9	Metropolis, UCLG, Sister Cities, CityNet, DELGOSEA, ICLEI, ASEAN ESC, Compact of Mayors, CDIA.
Balikpapan, Kalimantan	8	Metropolis, UCLG, CityNet, ICMA City Links, ICLEI, ASEAN ESC, Compact of Mayors, CDIA.
Bandung, Java	7	Sister Cities, CityNet, ICMA City Links, ICLEI, Compact of Mayors, WeGo, Making Cities Resilient.
Semarang, Java	7	CityNet, ICMA City Links, ICLEI, ACCCRN, 100 Resilient Cities, CDIA, GIZ Paklim.
Yogyakarta, Java	7	UCLG, DELGOSEA, ICMA City Links, ICLEI, CDIA, Making Cities Resilient, GIZ Paklim.
Banda Aceh, Sumatra	6	UCLG, CityNet, ACCCRN LT Cities, Compact of Mayors, CDIA, Making Cities Resilient.
Surakarta (Solo), Java	6	UCLG, DELGOSEA, ICLEI, CDIA, UN Habitat CCCI, GIZ Paklim.
Bekasi, Java	5	CityNet, DELGOSEA, ICMA City Links, ACCCRN LT Cities, CDIA.
Bogor, Java	4	Sister Cities, CityNet, ICLEI, Compact of Mayors.
Probolinggo, Java	4	UCLG, ACCCRN, Compact of Mayors, GIZ Paklim.
Tangerang, Java	4	ACCCRN LT Cities, ASEAN

		ESC, PEMSEA, CDIA.
Palembang, Sumatra	4	CityNet, ACCCRN, ASEAN ESC, CDIA
Pangkal Pinang, Sumatra	4	UCLG, CityNet, DELGOSEA, ACCCRN LT Cities
Sukabumi, Java	4	CityNet, ICLEI, Compact of Mayors, PEMSEA
Tarakan, Kalimantan	4	CityNet, DELGOSEA, ACCCRN, Compact of Mayors
Jambi, Sumatra	3	UCLG, ICLEI, Compact of Mayors
Padang, Sumatra	3	DELGOSEA, Compact of Mayors, ACCCRN LT Cities
Cimahi, Java	3	ASEAN ESC, Compact of Mayors, GIZ Paklim
Pekalongan, Java	3	ACCCRN, UN Habitat CCCI, GIZ Paklim
Banjarmasin, Kalimantan	3	ACCCRN LT Cities, Compact of Mayors, UN Habitat CCCI
Makassar, Sulawesi	3	CityNet, Making Cities Resilient, UN Habitat CCCI
Wakatobi, Sulawesi	3	UCLG, DELGOSEA, ICLEI
Mataram, Nusa Tenggara	3	ACCCRN LT Cities, Compact of Mayors, CDIA
Batam, Sumatra	2	UCLG, WeGo
Medan, Sumatra	2	Sister Cities, ICLEI
Tanjung Pinang, Sumatra	2	ICLEI, Compact of Mayors
Blitar, Java	2	ACCCRN, GIZ Paklim
Salatiga, Java	2	UCLG, GIZ Paklim
South Tangerang, Java	2	UCLG, ACCCRN LT Cities
Samarinda, Kalimantan	2	ICMA City Links, Making Cities Resilient
Gorontalo, Sulawesi	2	Sister Cities, CityNet
Kendari, Sulawesi	2	DELGOSEA, Compact of Mayors
Denpasar, Bali/Nusa Tenggara	2	PEMSEA, CDIA
Kupang, Nusa Tenggara	2	DELGOSEA, Compact of Mayors
Bandar Lampung, Sumatra	1	ACCCRN
Bukittinggi, Sumatra	1	ICMA City Links
Metro, Sumatra	1	DELGOSEA
Cilegon, Java	1	ICLEI
Cirebon, Java	1	ACCCRN
Lamongan, Java	1	ASEAN ESC
Mojokerto, Java	1	GIZ Paklim
Pasuruan, Java	1	GIZ Paklim
Serang, Java	1	WeGo

Sidoarjo, Java	1	CityNet
Banjarbaru, Kalimantan	1	CityNet
Bontang, Kalimantan	1	Compact of Mayors
Pontianak, Kalimantan	1	ACCCRN LT Cities
Singkawang, Kalimantan	1	UCLG
Bau Bau, Sulawesi	1	WeGo
Bitung, Sulawesi	1	ICMA City Links
Manado, Sulawesi	1	ACCCRN LT Cities
Palu, Sulawesi	1	CDIA
Tomohon, Sulawesi	1	CityNet
Tual, Maluku	1	Sister Cities
Bengkulu, Sumatra	0	
Binjai, Sumatra	0	
Dumai, Sumatra	0	
Gunungsitoli, Sumatra	0	
Langsa, Sumatra	0	
Lhokseumawe, Sumatra	0	
Lubuk Linggau, Sumatra	0	
Padang Sidempuan, Sumatra	0	
Pagar Alam, Sumatra	0	
Payakumbuh, Sumatra	0	
Pekanbaru, Sumatra	0	
Pematang Siantar, Sumatra	0	
Prabumulih, Sumatra	0	
Tanjung Balai, Sumatra	0	
Tebing Tinggi, Sumatra	0	
Depok, Java	0	
Kediri, Java	0	
Madiun, Java	0	
Magelang, Java	0	
Tasikmalaya, Java	0	
Tegal, Java	0	
Palangkaraya, Kalimantan	0	
Kotamobagu, Sulawesi	0	
Palopo, Sulawesi	0	
Parepare, Sulawesi	0	
Bima, Nusa Tenggara	0	
Ambon, Maluku	0	
Ternate, Maluku	0	
Jayapura, Papua	0	
Sorong, Papua	0	

NOTES:

Because the BPS Statistics Ministry has not recently classified cities by population (e.g. small, medium, large), the Ministry of Public Works and Housing's classification system was used. All medium-sized cities with 100,000–500,000 people, large cities with 500,000–1 million people,

and metropolitan areas with more than 1 million people according to the last census[1] are depicted in Maps 1–2. All medium-sized cities, large cities and metropolitan areas excluding the capital, Jakarta (as defined by Indonesia's Ministry of Public Works and Housing), fall under this study's definition of intermediary cities.

While intermediary cities are, broadly speaking, rural–urban exchange centres with 50,000–1 million people, some Indonesian cities with more than 1 million people still function as zones of rural–urban interaction and serve secondary roles in a Jakarta-dominated urban hierarchy. This study considers these cities intermediary as well, aligned with the inclusive definition used by Roberts et al.[2] In contrast, Oberman et al.[3] classify cities according to a slightly different working definition. They aggregate city populations by urban district boundaries rather than city jurisdiction boundaries, which is why populations in what they term "middleweight" cities span 150,000–10 million. This study chooses to reference Oberman et al.'s population and economic projections, despite their different classification system, because of their clear city-by-city breakdown.

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[1] http://sp2010.bps.go.id/index.php/site/index.

[2] Roberts, B, B Iglesias and J M Llop (2016), "Intermediary cities," in *Fourth Global Report on Decentralization and Local Democracy: Co-Creating the Urban Future*, UCLG, Barcelona, pages 133–164, accessed 21 June 2017 at http://www.gold.uclg.org/sites/default/files/GOLDIV_ENG.pdf.

[3] Oberman, R, R Dobbs, A Budiman, F Thompson and M Rossé (2012), *The Archipelago Economy: Unleashing Indonesia's Potential*, McKinsey Global Institute, 101 pages, accessed 21 June 2017 at http://www.mckinsey.com/global-themes/asia-pacific/the-archipelago-economy.