



**UNIVERSITY OF LEEDS**

This is a repository copy of *Investigating Community-led Urban Intervention in Vacant Spaces: Temporary Urbanism Lenses*.

White Rose Research Online URL for this paper:

<https://eprints.whiterose.ac.uk/221473/>

Version: Presentation

---

**Conference or Workshop Item:**

Danurdoro, D.H. [orcid.org/0000-0002-6380-3631](https://orcid.org/0000-0002-6380-3631), Selim, G. and Newisar, M. Investigating Community-led Urban Intervention in Vacant Spaces: Temporary Urbanism Lenses. In: Livable Cities Amps Conference, 26-28 Jun 2024, London, UK. (Unpublished)

---

**Reuse**

Items deposited in White Rose Research Online are protected by copyright, with all rights reserved unless indicated otherwise. They may be downloaded and/or printed for private study, or other acts as permitted by national copyright laws. The publisher or other rights holders may allow further reproduction and re-use of the full text version. This is indicated by the licence information on the White Rose Research Online record for the item.

**Takedown**

If you consider content in White Rose Research Online to be in breach of UK law, please notify us by emailing [eprints@whiterose.ac.uk](mailto:eprints@whiterose.ac.uk) including the URL of the record and the reason for the withdrawal request.



[eprints@whiterose.ac.uk](mailto:eprints@whiterose.ac.uk)  
<https://eprints.whiterose.ac.uk/>

Friday, 28<sup>th</sup> June 2024  
Livable Cities London Conference Amps - City, University of Leeds

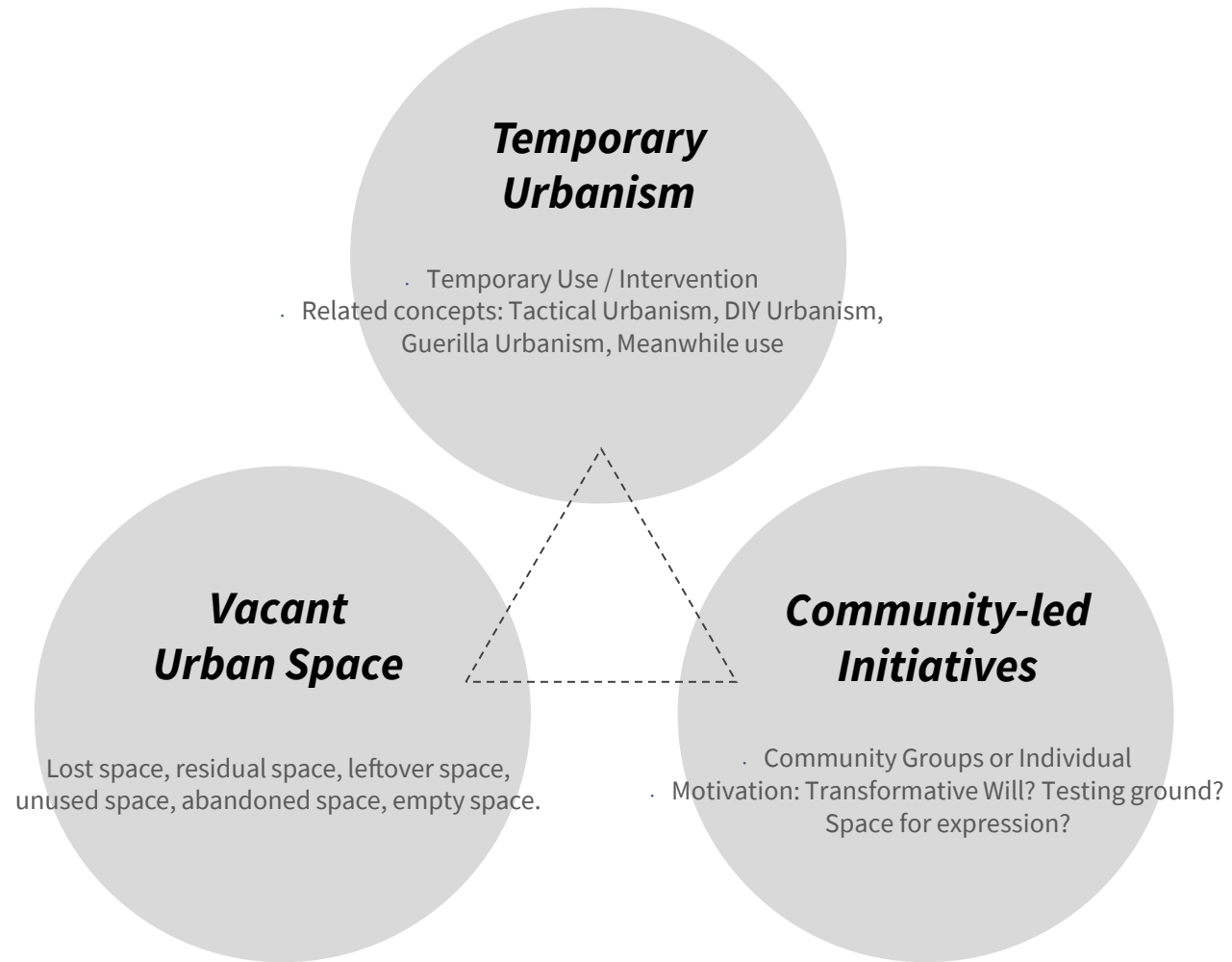


# **Investigating Community-led Urban Intervention in Vacant Spaces: Temporary Urbanism Lenses**



Dwi Hatmojo Danurdoro, Prof. Gehan Selim, Dr. May Newisar  
Architecture & Urbanism Research Group, University of Leeds

# Research Area



# Presentation Outline

- ① Temporary Urbanism
- ② Mini project: 50 Community-led Projects in Indonesia
- ③ Back to my Research

# Presentation Outline

- ① Temporary Urbanism
- ② Mini project: 50 Community-led Projects in Indonesia
- ③ Back to my Research

# Temporary Urbanism

*“Such practices (temporary & tactical), which we will refer to collectively as ‘t/t urbanism’, encompass a myriad of small, experimental design projects led by diverse actors that transform underutilised urban spaces” - Stevens & Dovey, 2023*

- ∨ small-scale, experimental
  - ∨ diverse actors → new urban actors
  - ∨ underutilised urban spaces
- 
- Arises from the need for adaptability and flexibility in the making and design of urban spaces



Fig. 2. *Cinema Paradiso en la Loíza*, San Juan, Puerto Rico, performance by the National Circus of Puerto Rico, 2013.

Photographer: © Michelle Malley Campos

Source: Bernal, 2020

# Temporary Urbanism

*“We define temporary urbanism as processes, practices and policies of and for spatial adaptability, allowing the transformation of a space in perceived need of transition, and thus impacting the surrounding socio-economic urban environments” - Andres and Kraftl, 2021*

↳ transformation of a space → Gonzalez (2022) categorised as action driven by “transformative will”

*“The increased frequency of short-term events, in particular the temporary construction and use of space, has become known as temporary urbanism” - Madanipour, 2017*

↳ increased frequency → trend?

↳ construction and use of space → use & intervention

- There is nothing new about temporary structures or events. For example, fairs, festivals, street vendors, informal housing (e.g. favela Brazil), and so on.



Ice cream sellers occupy space for a short time in York, UK. Source: Danurdoro, 2023



# Mapocho Pedaleable

a self-organised practice driven by individuals and cycling civil organisations who seek to transform a section of Mapocho's river shore into an open public space with a cycling path.



- The idea comes from former Architecture students, 2011. Followed by the cycling community and the public.
- Through a series of events in 2011, 2013, 2014, and 2016, this movement became even stronger. Thousands of people.
- Opening the access to the public. New uses.



Vacant space: unused river bank

Temporary intervention: temp. structure (ramps, stairs)

Community involvement: Bike community events



# Temporary Urbanism

Andres & Zhang, 2020

Types:	<i>Bottom - up</i>		<i>Hybrid</i>		<i>Top - Down</i>	
Expression:	<i>Squat</i>	<i>Spontaneous</i>	<i>Experimental</i>	<i>Organized</i>	<i>Campaign</i>	<i>Ordered</i> <i>Policy</i>
Law position:	<i>Illegal/Informal</i>			<i>Legal/Formal</i>		
Concept/ Movement:	<i>Vernacular Adaptation</i> <i>(Plevoets &amp; Sowinska-Heim, 2018)</i>  <i>DIY Urbanism</i> <i>(Iveson, 2013; Finn, 2014)</i>  <i>Guerilla/Insurgent Urbanism</i> <i>(Hou, 2010)</i>		<i>Tactical Urbanism</i> <i>(Lydon &amp; Garcia, 2015)</i>  <i>Interim Use</i> <i>(Blumner, 2006)</i>		<i>Temporary Use</i> <i>(Groth &amp; Corijn, 2005; Andres, 2013; Bishop &amp; Williams, 2012)</i>	
Scope/Scale of Intervention:	<i>Temporary Interventions/ 2 Dimensional (Stevens &amp; Dovey, 2023)</i>		<i>Temporary Use (Space function change/transformation)/ 3 Dimensional/Spatial Appropriation (Stevens &amp; Dovey, 2023)</i>			
Actor/ Initiator:	<i>Artist/Grasroot</i>		<i>Architect/Urban Designer/ Community groups</i>		<i>Government/Institution/ Developer/Land-owner</i>	
Practices:	<i>Murals/Stencil/Graffiti</i>	<i>Urban Gardening</i>	<i>Protest</i>	<i>Art installation</i>	<i>Parklet</i>	<i>Pop-up Market</i>
		<i>Street hawkers</i>		<i>City Beaches</i>		

Diagram created by  
Danurdoro, 2023

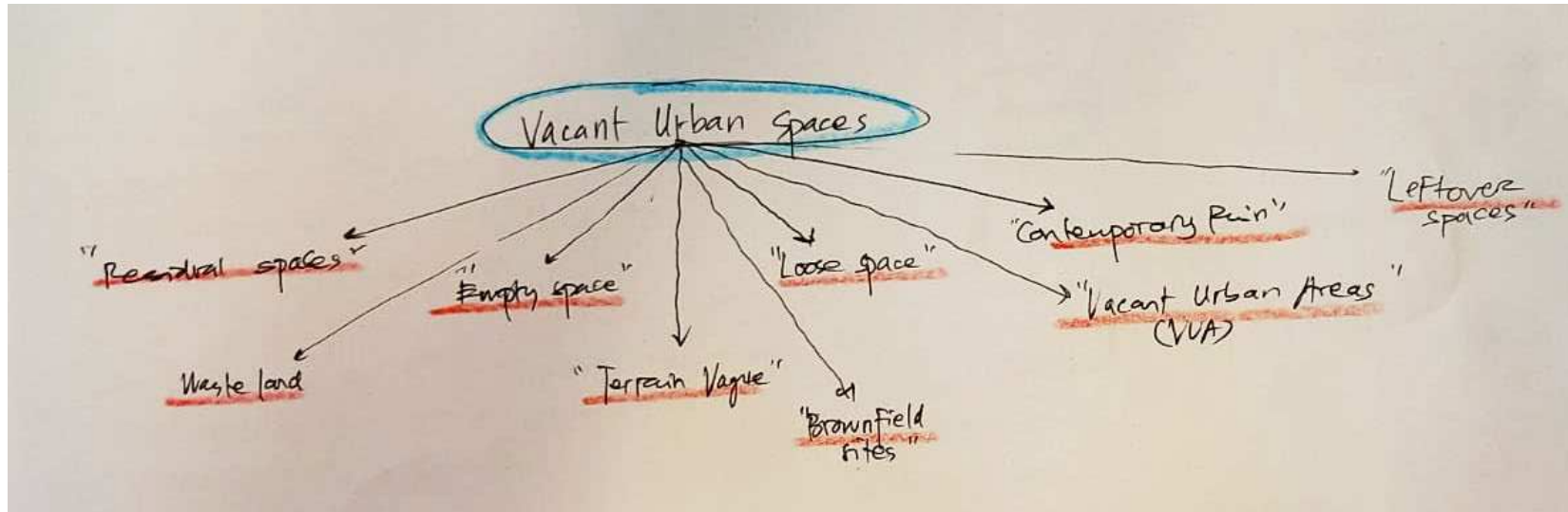
Table 1. Definition of temporary use or other similar terms

No	Terminology	Author (Year)	Definitions
1	Temporary use/urbanism	Madanipour, 2017	The increased frequency of short-term events, in particular the temporary construction and use of space, has become known as temporary urbanism.
2		Lehtovuori & Ruopilla, 2012	Temporary use refers to temporary activation of vacant or underused land or buildings with no immediate development demand
3		Bishop and Williams, 2012 (in Till & McArdle, 2015)	<ul style="list-style-type: none"> <li>temporary use is as a 'meanwhile use' where or when commercial letting is not viable.</li> <li>an 'intentional phase' within the development cycle.</li> </ul>
4		Haydn & Temel, 2006	uses that are 'planned from the outset to be impermanent' and 'seek to derive unique qualities from the idea of temporality',
5	Interstitial urbanism	Tonkiss, 2013 (In Moore-Cherry & McCarthy, 2016)	From an urban practice perspective, temporary use activity has been associated with spontaneous interventions made by artists and community activists on vacant sites or buildings in what might be described as a form of 'interstitial urbanism'
6	Tactical Urbanism	Lydon & Garcia, 2015	a city, organizational, and/or citizen-led approach to neighborhood building using short-term, low-cost, and scalable interventions intended to catalyze long-term change.
7	Interim Use	Blumner, 2006; Hawke, 2009; Arieff, 2011; Németh and Langhorst, 2014	<ul style="list-style-type: none"> <li>'Interim Use' (Zwischennutzung) is the temporary activation of vacant land or buildings with no foreseeable development demand.</li> <li>use of a site is, by agreement with the owner, time-limited</li> </ul>

8	Meanwhile uses/projects	Meanwhile Space CIC (in SQW Consulting report, 2010)	temporary use of vacant buildings or land for social or economic gain until they can be brought back into commercial use
9	DIY Urbanism	Finn, 2014	movement in which urban residents take it upon themselves to do what cities will not, or cannot, to address urban issues
10	Temporary use	Nemeth & Langhorst, 2014 (in Till & McArdle, 2015)	<ul style="list-style-type: none"> <li>temporary use is understood as <i>standing in</i> for the preferred (read permanent) option.</li> <li>define temporary use as that which is explicitly and intentionally time-limited in nature.</li> </ul>

Table created by  
Danurdoro, 2023

# Vacant Urban Spaces



Year	Author	Definition
1974	Sommer	Tight Space, Hard Space
1986	Trancik	Lost Space
1996	Loukaitou-Sideris	Cracks in the City
1996	Solà-Morales	Terrain Vague
2000	Pagano & Bowman	Vacant Land
2001	Hajer & Reijndorp	In Between Space
2002	Nielsen	Superflous Landscape
2003	La Varra	Post-it City
2005	Clément	Délaissé
2005	Groth, Corjin	Indetermined Space
2007	Worpole & Knox	Slack Space
2007	Franck & Stevens	Loose Space

Table 1 | An overview on under managed spaces

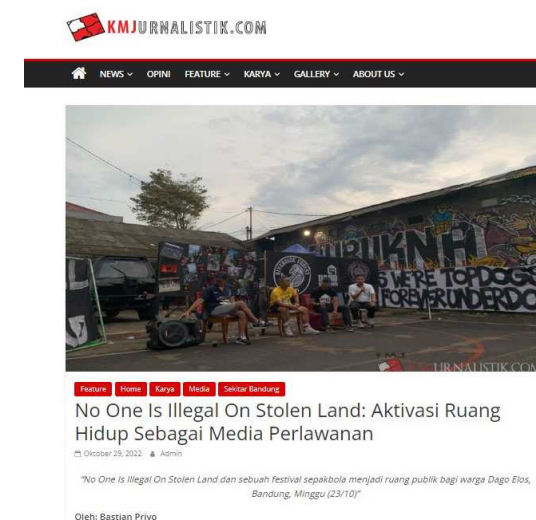
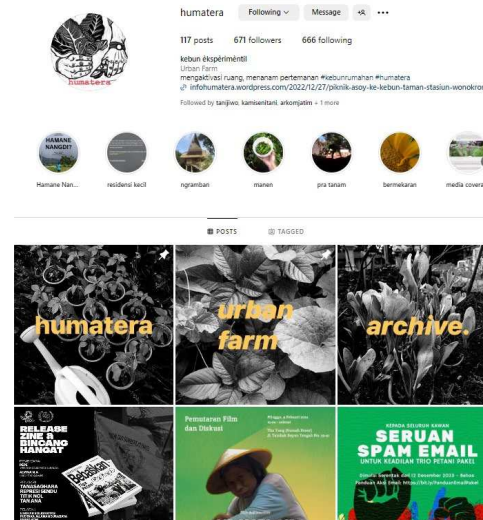
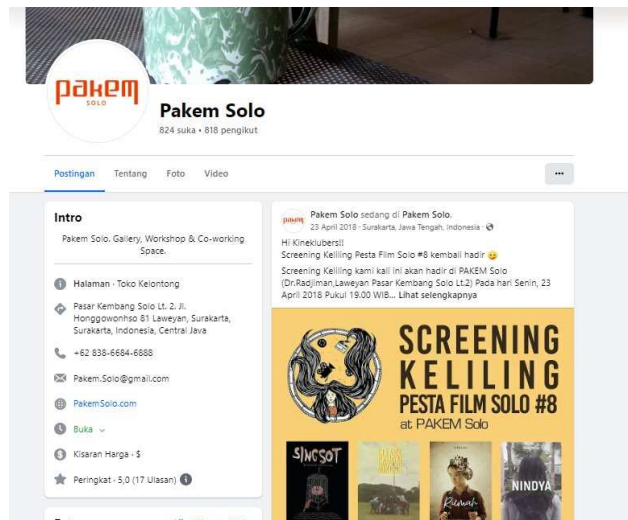
Under managed spaces → Girolamo, 2017

# Presentation Outline

- ① Temporary Urbanism
- ② Mini project: 50 Community-led Projects in Indonesia
- ③ Back to my Research

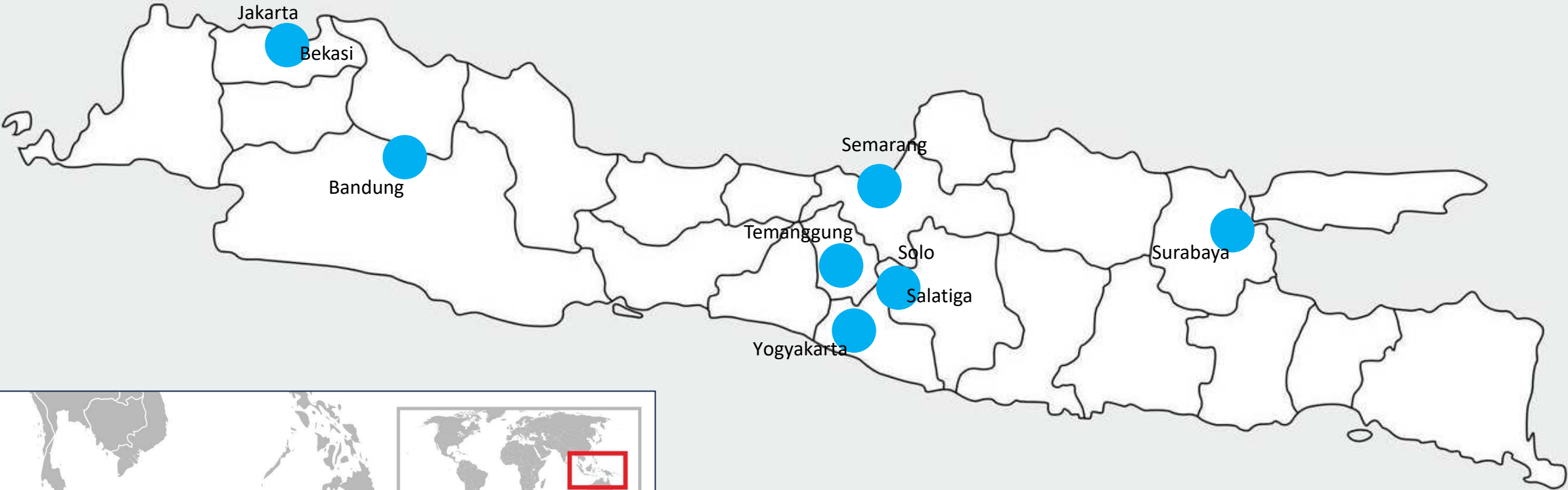
# Community-led project in Indonesia

- Extensive online searching (April-March 2024) identified 50 examples of community-led temporary use/intervention projects in Indonesia. It includes numerous small, experimental projects that have transformed underutilised urban spaces.
- Dating from 2003 to 2024.
- I combined online information with personal knowledge of the context to create the map.
- Searches are carried out through websites, news portals, and social media (Instagram, X, or Facebook) because almost all community groups in Indonesia use social media as a medium for exposure and communication with the public.
- Searches will be snowballing from one search to another.





# Mapping of 50 Temporary Use/Intervention Practices in Indonesia



Map of Java Island



Map of Indonesia

Bandung	28
Jakarta	7
Solo	5
Surabaya	3
Bekasi	1
Yogyakarta	2
Lampung	1
Temanggung	1
Salatiga	1
Semarang	1
	50

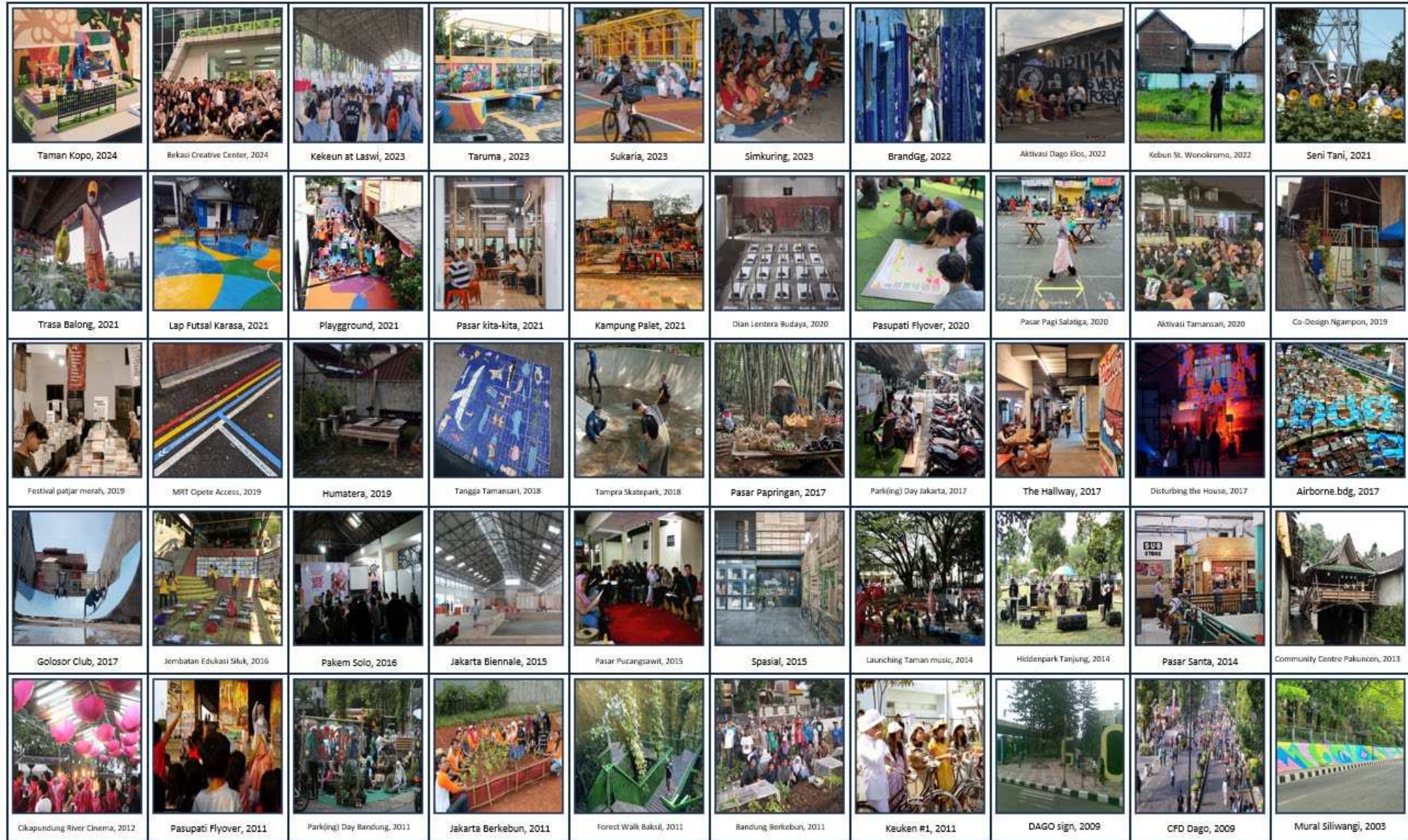


# Table 1: 50 Indonesian Temporary Use/Intervention Practices in Indonesia

Project						Vacant/Underused Space				Temporary Use/Intervention				Community-led		
No	Name	Location	Year	Use	Use Category	Ruined/ Conflicted Spaces	Underutilized Public Spaces	Abandoned Spaces	Residual Spaces	Pop-up Event	Tactical urbanism	DIY urbanism	Meanwhile use	Residents	Residents + Community Group + Stakeholder	Community Group + City Authorities
1	Taman Kopo	Bandung	2024	Park/Garden	Greening			•				•				•
2	Bekasi Creative Center	Bekasi	2024	Creative hub	Art & Culture		•						•			•
3	Keleukan et Laswi	Bandung	2023	Food & Music	Art & Culture			•		•						
4	Taruna - Taman Rukun	Solo	2023	Park/Garden	Greening		•					•				•
5	Sukarna	Solo	2023	Pedestrian	Urban Infrastructure		•				•					•
6	Simkuring	Bandung	2023	Cinema	Art & Culture	•				•					•	
7	BrandGg by Karasa	Bandung	2022	Mural	Art & Culture				•			•				
8	Aktivasi Dago Elos	Bandung	2022	Protest	Activism	•				•					•	
9	Kebun taman stasiun wonokromo	Sureabaya	2021	Urban farming	Greening				•			•		•		
10	Seni Tani	Bandung	2021	Urban farming	Greening			•				•			•	
11	Trase Belong	Jakarta	2021	Urban farming	Greening				•			•				•
12	Lap Futsal Karasa	Bandung	2021	Sports area	Urban Infrastructure		•					•			•	
13	Play gg round	Bandung	2021	Playground	Urban Infrastructure		•			•					•	
14	Pasar kita-kita Tunjungan	Sureabaya	2021	Food tenants	Commercial			•					•			•
15	Kampung Palet	Lampung Palet	2021	Creative market	Art & Culture					•				•		
16	Dian Lentera Budaya	Bandung	2020	Art show	Art & Culture			•		•						•
17	Pasupati Flyover Placemaking	Bandung	2020	Sports area	Urban Infrastructure				•	•						•
18	Pasar Paqi Selatija	Selatija	2020	Food tenants	Urban Infrastructure					•						•
19	Aktivasi Tamansari,	Bandung	2020	Protest	Activism	•				•					•	
20	Co-Design Ngampon	Solo	2019	Community Center	Urban Infrastructure		•					•				•
21	Festival literasi patjar merah	Semarang	2019	Book festivals	Education			•		•						•
22	MRT Cipete Access	Jakarta	2019	Pedestrian	Urban Infrastructure		•					•				•
23	Humatera	Sureabaya	2019	Urban farming	Greening			•				•			•	
24	Tangga Tamansari	Bandung	2018	Pedestrian	Urban Infrastructure		•			•					•	
25	Tempre Youth Space - Skatepark	Bandung	2018	Sports area	Urban Infrastructure		•					•			•	
26	Pasar Paprangan	Temanggung	2017	Food & Music	Art & Culture							•			•	
27	Park(ing) Day Jakarta	Jakarta	2017	Parklet	Greening		•					•				•
28	The Hallway	Bandung	2017	Food tenants	Commercial			•					•			•
29	Disturbing the House	Bandung	2017	Food & Music	Art & Culture					•					•	
30	AirDome.bdg	Bandung	2017	Mural	Art & Culture		•			•						•
31	Golosor Club	Bandung	2017	Sports area	Urban Infrastructure				•			•		•		
32	Jembatan Edukasi Siliuk	Yogyakarta	2016	Outdoor School	Education							•			•	
33	Pasar Kembang (Pakem) Solo	Solo	2016	Creative hub	Art & Culture			•					•		•	
34	Jakarta Biennale 2015 - Gudang	Jakarta	2015	Art show	Art & Culture					•					•	
35	Pasar Pucangpawit	Solo	2015	Creative hub	Art & Culture			•					•		•	
36	Spasial	Bandung	2015	Workspace	Commercial								•		•	
37	Launching Taman musik	Bandung	2014	Park/Garden	Greening					•						•
38	Hiddenpark at Tamantanjung	Jakarta	2014	Park/Garden	Greening		•			•					•	
39	Pasar Santa	Jakarta	2014	Food tenants	Commercial			•					•		•	
40	Community Centre in Pakuncen, Kali	Yogyakarta	2013	Community Center	Urban Infrastructure	•						•			•	
41	Cikapundung River Cinema	Bandung	2012	Cinema	Art & Culture		•			•						•
42	Pasupati Flyover - Berteman taman	Bandung	2011	Outdoor School	Education				•	•					•	
43	Park(ing) Day Bandung	Bandung	2011	Parklet	Greening		•					•			•	
44	Jakarta Berkebun (spring hill?)	Jakarta	2011	Urban farming	Greening			•					•		•	
45	Forest Walk Bakil	Bandung	2011	Protest	Activism	•						•				•
46	Bandung Berkebun	Bandung	2011	Urban farming	Greening			•				•			•	
47	Keuken #1	Bandung	2011	Food tenants	Commercial		•			•					•	
48	DIAGO sign	Bandung	2009	Park/Garden	Greening							•			•	
49	Car Free Day Dago	Bandung	2009	Sports area	Urban Infrastructure		•			•						•
50	Mural Siliwangi	Bandung	2003	Mural	Art & Culture		•			•						•



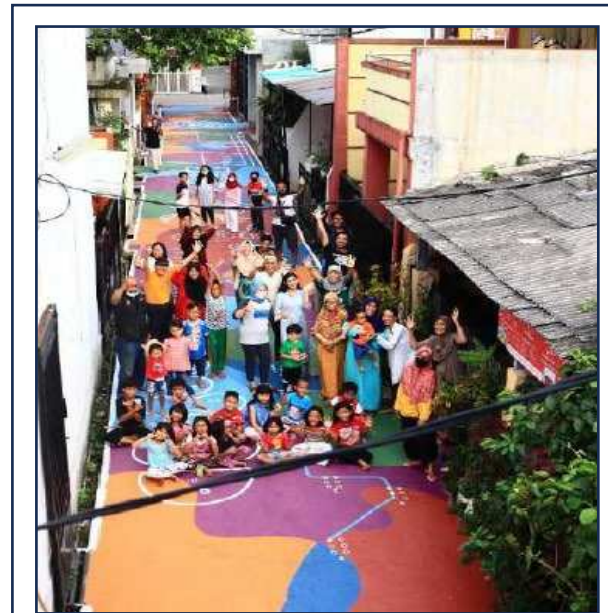
# 50 Temporary Use/Intervention Practices in Indonesia (20 years time span)





**Table 2: A Summary of the Functions of Identified Indonesian Temporary Use/Intervention Practices in Indonesia**

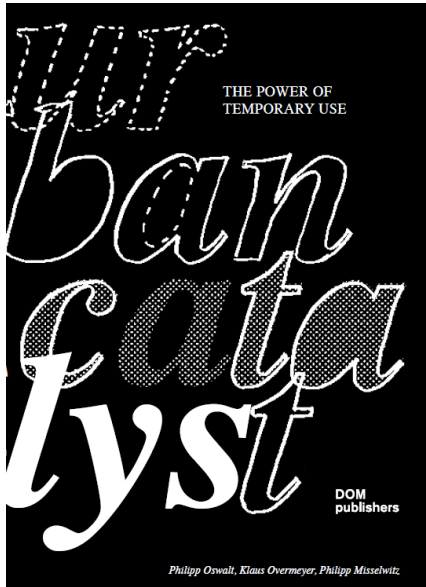
Use Category	Use	Numbers of Project	Total
Art & Culture	Mural	3	14
	Cinema	2	
	Art show	2	
	Creative hub	3	
	Food & Music	3	
	Creative market	1	
Greening	Park/Garden	5	13
	Parklet	2	
	Urban farming	6	
Urban Infrastructure	Pedestrian Infrastructure	3	12
	Sports area	5	
	Playground	1	
	Food tenants	1	
	Community Center	2	
Commercial	Food tenants	4	5
	Workspace	1	
Education	Outdoor School	2	3
	Book festival	1	
Activism	Protest event	3	3
<b>Total</b>			<b>50</b>



Playground, 2021

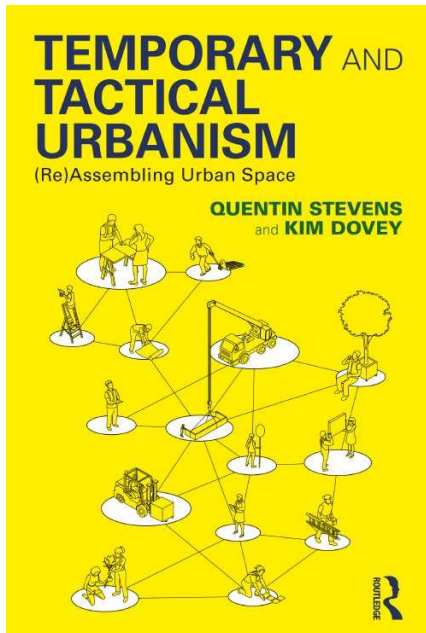


Kekeun at Laswi, 2023



Categorization will reflect on how much it is in sync with previous studies. The largest survey of temporary urban uses, conducted in **Berlin**, categorized over **100 open space projects into four primary activity categories**: culture, gardening, food, and sports (Denton & Senatsverwaltung für, 2007).

Overmeyer et al, 2007



The most recent is a study conducted by Stevens and Dovey (2023) on **66 cases of temporary & tactical urbanism in Australia**. Then, three groupings were formed: greenery, public amenities, and food.

Stevens and Dovey, 2023

**Table 3**

<b>Community-led Character</b>	<b>Numbers of Project</b>
Residents Initiative	3
Residents + Community Group + Stakeholder	27
Community Group + City Authorities	20
Total	50

- Community Groups/Organizations in Indonesia have central role in encouraging and mediating people
- City council/Government start to acknowledge this community based activation

Table 4

Vacant/Underused SpaceCharacter	Numbers of Project
Abandoned Spaces (Building/Outdoor)	17
Residual Space	7
Underutilized/unimproved public spaces	21
Ruined/conflicted spaces	5
Total	50



Residual Spaces



Abandoned Spaces



Ruined/Conflicted spaces

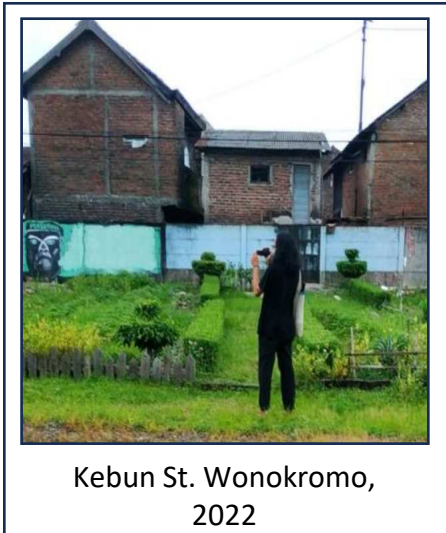


Unimproved facilities



**Table 5**

Temporary Use/Intervention Character	Numbers of Project
Pop-up Event (placemaking)	20
Tactical urbanism (Long-term/policy changed)	6
DIY urbanism (community participation, low-cost)	16
Meanwhile use (in-between, interim)	8
Total	50



Kebun St. Wonokromo,  
2022

DIY urbanism



Sukaria, 2023

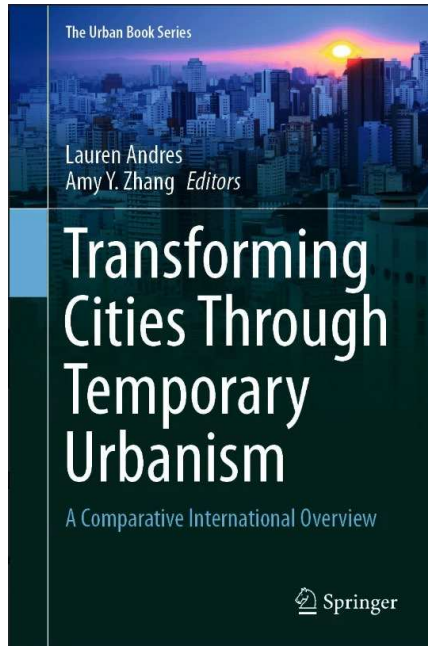
Tactical Urbanism



Jakarta Berkebun, 2011

Meanwhile Use

# Book Sources



## > Edited by: Andres & Zhang (2020)

Comprehensive in covering processes, practice, and policy around the concept

<b>Part I Reframing and Reconceptualising Temporary Urbanisms</b>	
2	<b>Temporiness Takes Command: How Temporary Urbanism Re-Assembles the City</b> ..... 13 Quentin Stevens
3	<b>The Temporality Within Temporary Urbanism: Listening to Rhythms and Timespace</b> ..... 29 Rachel Mc Ardle
4	<b>Artistic Events as Planning Practice: Hybridisation, Expectations, and Pitfalls in Three Swiss Case Studies</b> ..... 43 Thierry Maeder
5	<b>Informality and Temporary Urbanism as Defiance: Tales of the Everyday Life and Livelihoods in Sub-Saharan Africa</b> ..... 61 Hakeem Bakare, Stuart Denoon Stevens, and Lorena Melgaço
6	<b>Temporary Forms of Urbanism in Contested Urban Spaces in Lebanon: The Case of Dbayeh Camp</b> ..... 73 Paul Moawad
7	<b>Political Protest, Temporary Urbanism and the Deactivation of Urban Spaces</b> ..... 89 Tihomir Topuzovski and Lauren Andres
9	<b>The Usefulness of Temporary Use: Narratives from Santiago's Contemporary Urban Practices</b> ..... 127 Liz Crump
10	<b>Developing 'Transient Urbanism' as a New Urban and Real Estate Strategy: The Case of the French National Railway Company (SNCF)</b> ..... 141 Juliette Pinard
11	<b>Activated Alleyways: Mobilising Clean and Safe Dwelling in Business Improvement Areas</b> ..... 155 Debra Mackinnon
12	<b>Debating Temporary Uses and Post-crisis Rationales in Barcelona and Budapest</b> ..... 171 Luca Sára Bródy
13	<b>Address Urban Regeneration Challenge with Temporary Creative Uses: The Case of Beijing's Dashilar Area</b> ..... 187 Amy Y. Zhang
14	<b>Exploring Urban Regeneration Through Temporary Uses in Central São Paulo, Brazil</b> ..... 199 Lucelia Rodrigues, Joana Carla Soares Gonçalves, Renata Tubelo, Nicole Porter,

## > Alarcon et al (2022)

Keywords: public spaces, citizen-led urbanism, tactical urbanism, bottom-up urbanism, placemaking, citizen participation, urban interventions

**Promoters**  
IDB Cities LAB, Municipality of Arica, Undersecretariat for Regional and Administrative Development, Ciudad de Bolsillo

**City/country**  
Arica, Chile

**Website**  
[subdere.gov.cl/programas/division-municipalidades/programa-de-revitalizacion-de-barrrios-e-infraestructura-patrimoni](http://subdere.gov.cl/programas/division-municipalidades/programa-de-revitalizacion-de-barrrios-e-infraestructura-patrimoni)

**Social media links**  
[twitter.com/Prbipe\\_Arica](https://twitter.com/Prbipe_Arica)  
[instagram.com/territorio\\_activo](https://instagram.com/territorio_activo)  
[facebook.com/TerritorioActivoArica](https://facebook.com/TerritorioActivoArica)

**Year or period**  
2018-2020

**Relevant actors**  
K-pop dancers, Arica Municipal Theater, residents and merchants of the area.

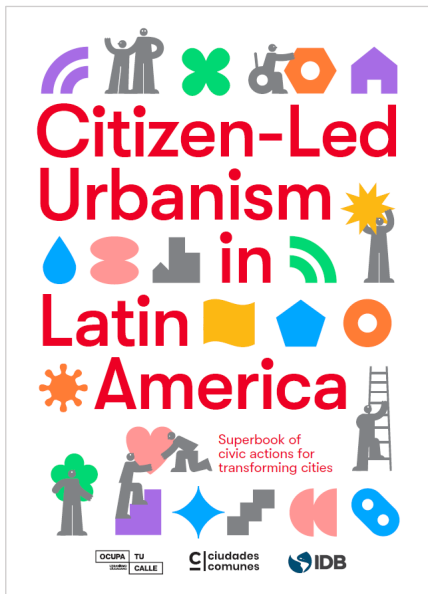
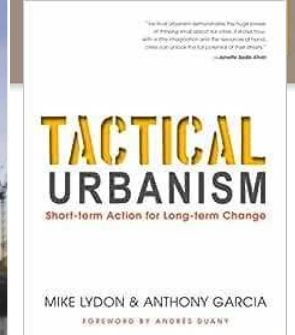
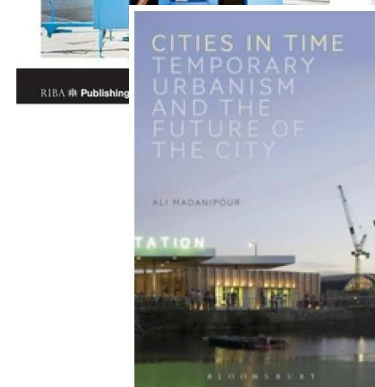
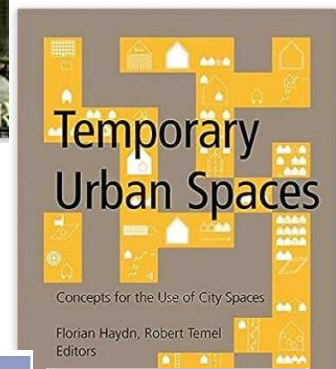
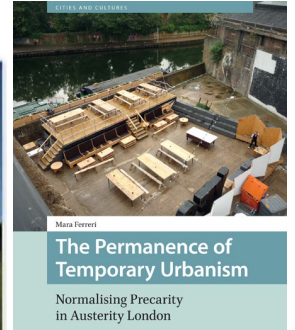
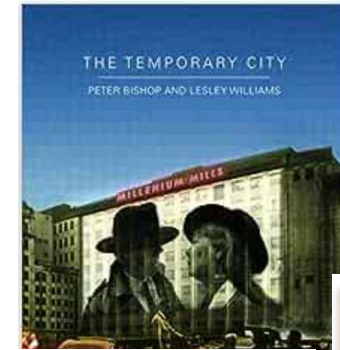
**Project key quote/phrase**  
"I think it is right to listen to society, to the social body, to work with and for them, because, basically, people always think about the tourist side of Arica but not about the people (...) I never imagined that someone, that the Municipality or other social groups would be interested in us as the k-pop community, and that they

did, is sort of the beginning of a major change" (k-pop dancer).

**Type of intervention**  
Temporary

**Keywords**  
tactical urbanism, heritage, historic downtown, collaborative urbanism, neighborhood upgrading, citizen participation

## Other Books





# Atlas of temporary practices worldwide

Gonzalez (2022)

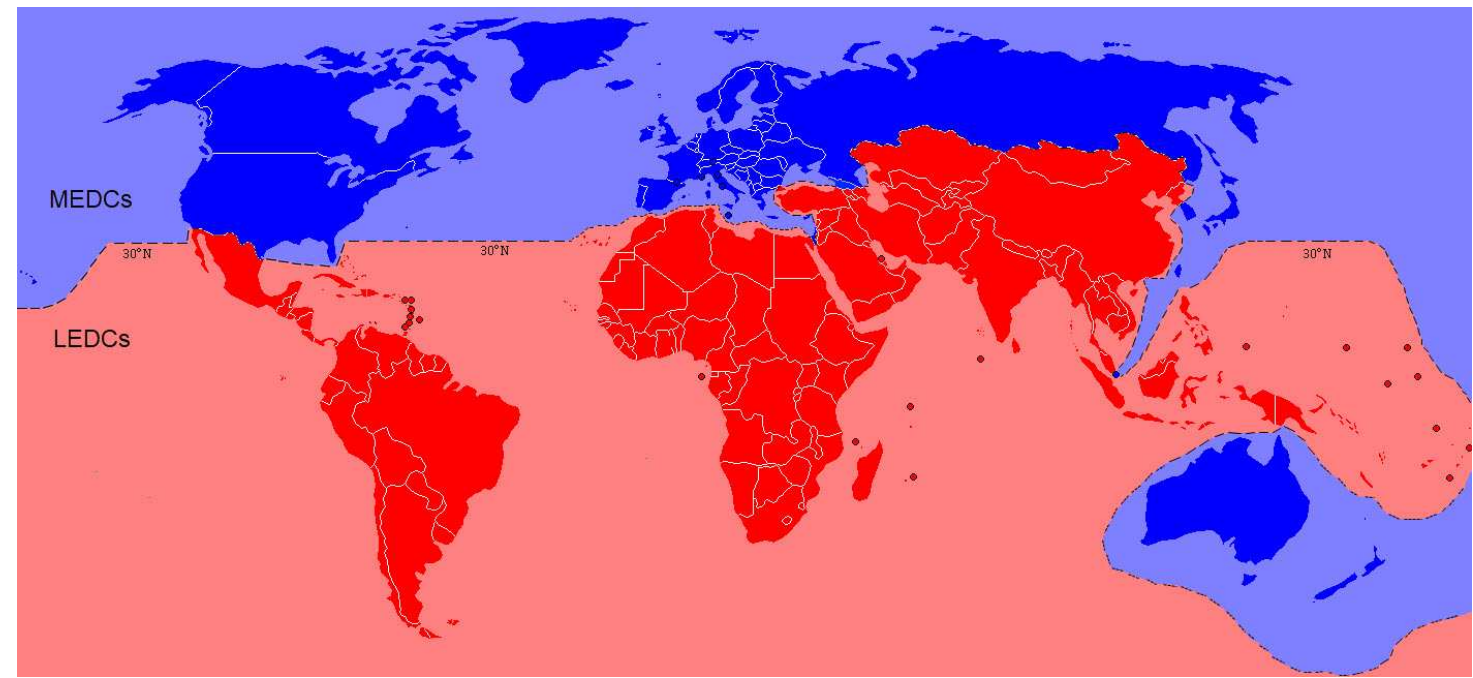
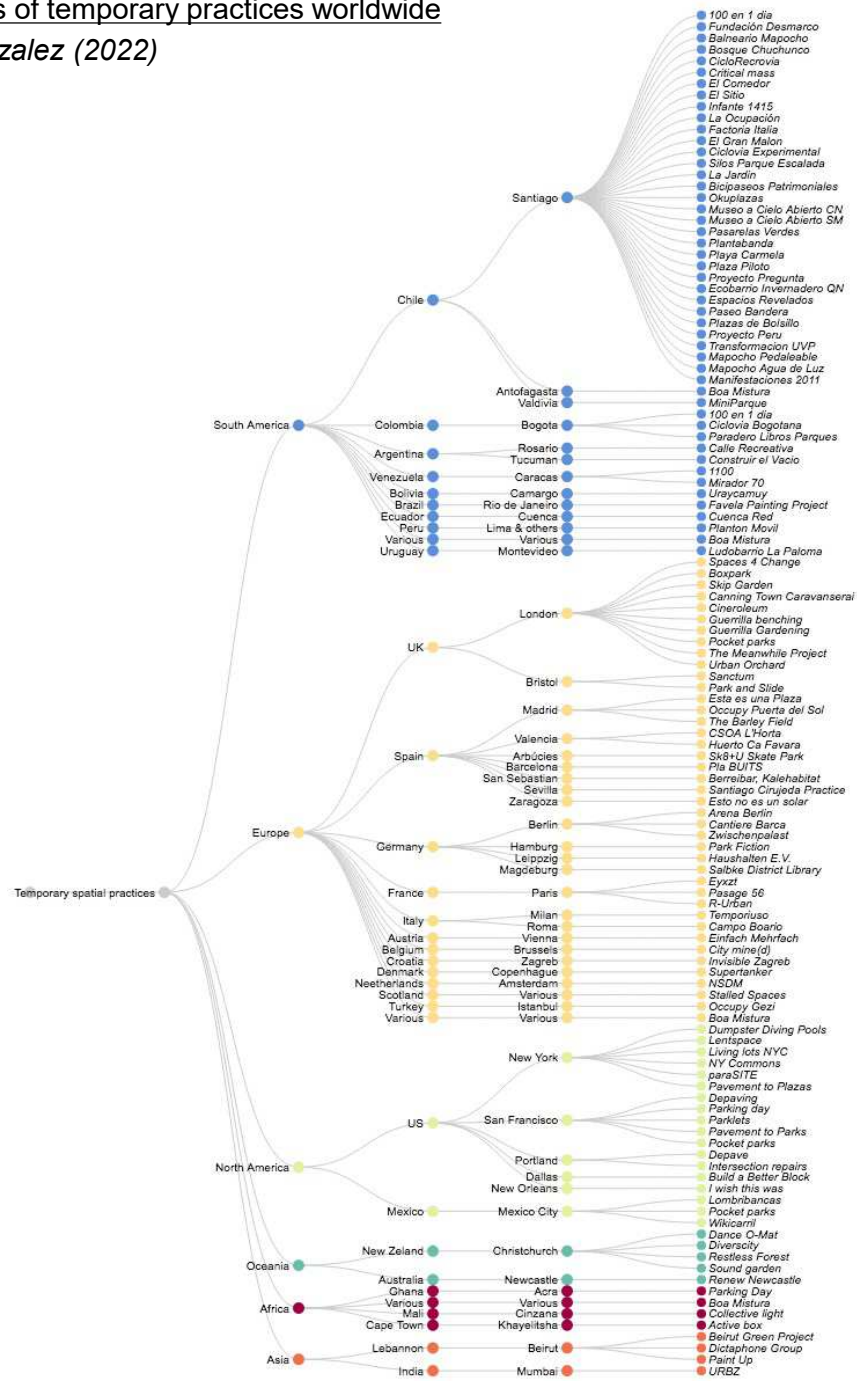
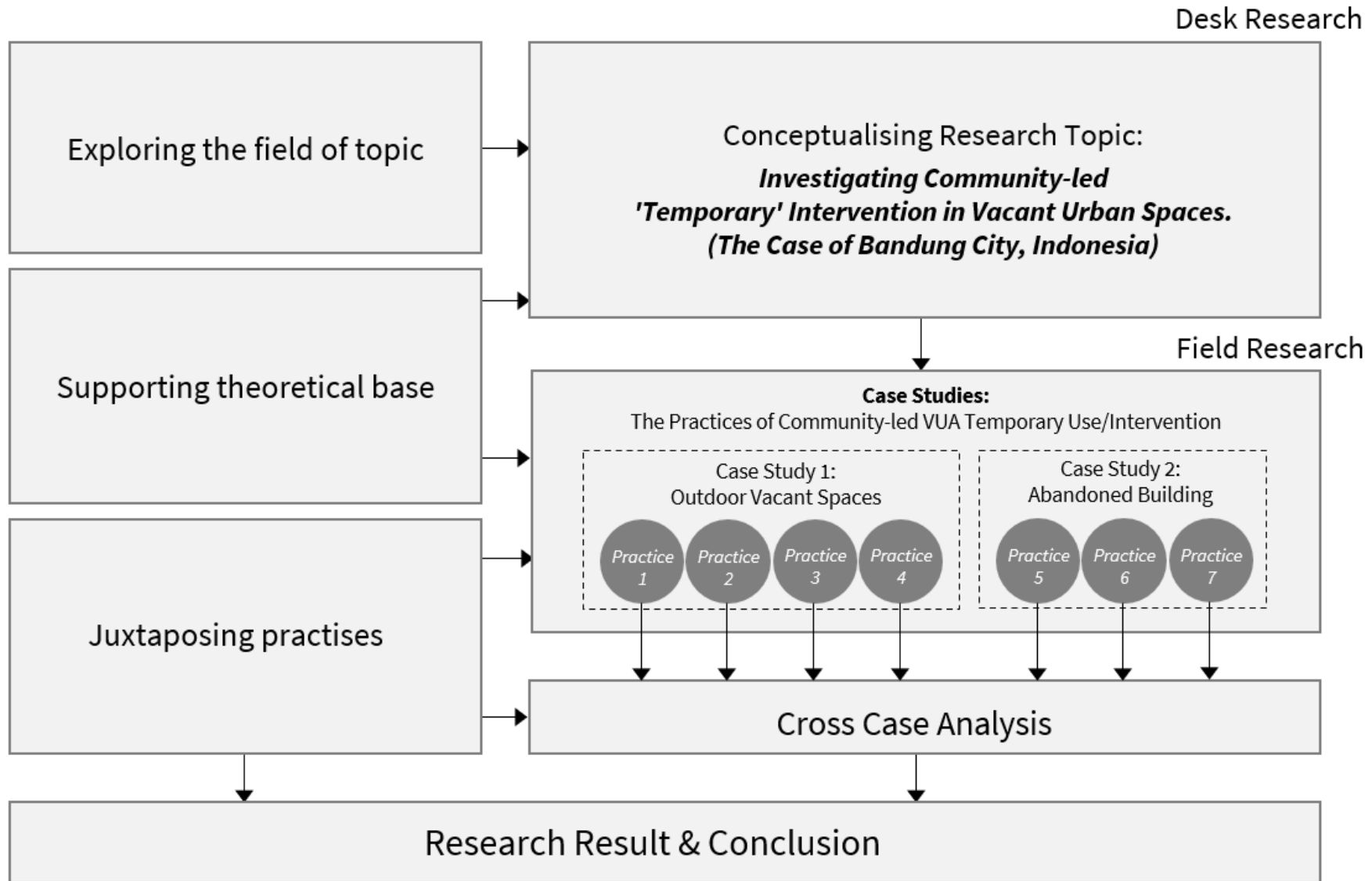


Illustration: The separation of the Global North and Global South  
Bramfab, CC BY-SA 3.0, via Wikimedia Commons

# Presentation Outline

- ① Temporary Urbanism
- ② Mini project: 50 Community-led Projects in Indonesia
- ③ Back to my Research



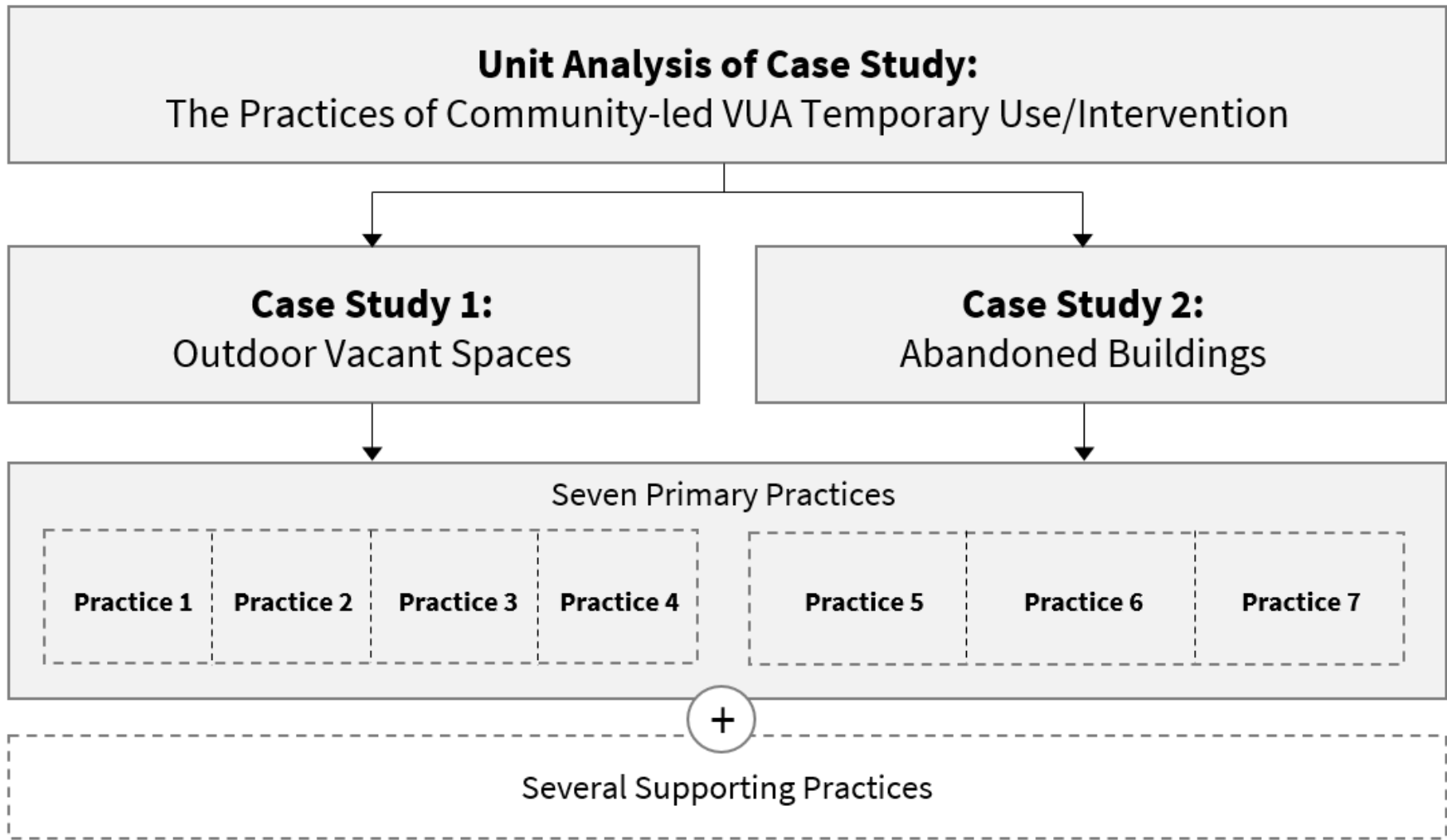




Table 4-1 Seven selected practices as Primary Case Studies.

Source: researcher, 2024.

No	Initiatives	Actors Involved	Use/Intervention	Case Study Category
1	Vacant site at Kampung Braga (2022-2024)	<ul style="list-style-type: none"> <li>Braga Heritage</li> <li>Bandung Film Commissioning</li> <li>Local authority</li> <li>Local residents</li> <li>Developer</li> </ul>	Pop-up events on ruined/conflicted spaces (Open Cinema, Exhibition, etc.)	Case Study 1: Urban Outdoor Spaces
2	Taman Kopo Revitalization (2023)	<ul style="list-style-type: none"> <li>Lakuna Kota</li> <li>WRI</li> <li>Karang Taruna Kopo</li> <li>Local residents</li> <li>Local authority</li> </ul>	Underutilised park improvement; tactical urbanism; placemaking	
3	Brand.Gg Event (2022-2023)	<ul style="list-style-type: none"> <li>Karasa Bandung</li> <li>Local authority</li> <li>Volunteer</li> <li>Local residents</li> </ul>	Residual space activation; DIY urbanism	
4	Seni Tani (2021-2024)	<ul style="list-style-type: none"> <li>Seni Tani</li> <li>1000 Kebun Comm Group</li> <li>Local residents</li> <li>Property owner</li> </ul>	Urban agriculture on vacant plots	
5	KEUKEN at Laswi (2013 & 2023)	<ul style="list-style-type: none"> <li>House The House</li> <li>Tenants/Visitors</li> <li>PT KAI (Prop Owner)</li> </ul>	Pop-up event on abandoned industrial area; post-industrial sites	Case Study 2: Abandoned Building
6	The Hallway at Kosambi (2017-2024)	<ul style="list-style-type: none"> <li>The Hallway</li> <li>PD Pasar (Prop owner)</li> <li>Tenants/Visitors</li> </ul>	Culinary & retail in abandoned building (partial)	
7	Dian Cinema Building (2020-2023)	<ul style="list-style-type: none"> <li>Tisna Sanjaya (Artist)</li> <li>PD Jaswita (Prop owner)</li> <li>Other Exhibitor</li> </ul>	A pop-up event in the abandoned cinema building	

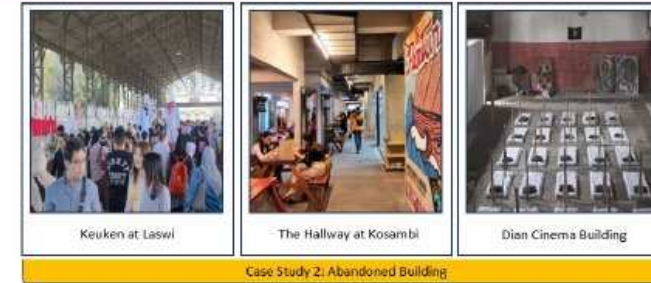


Figure 4.3 Seven selected practices for study. Source: researcher, 2024.

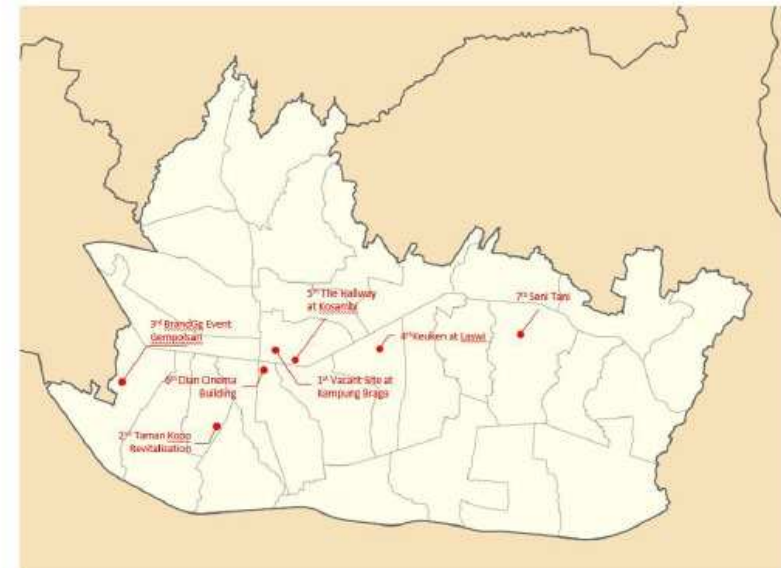


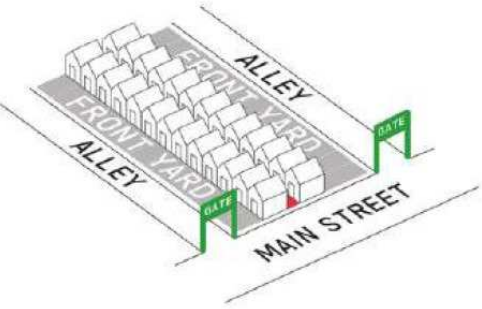
Figure 4.4 Location of the practices in Bandung city map (Source: Mandamaruta, CC BY-SA 4.0 with author modification)

# Brand.Gg. Project

a brandgang/alley activation program carried out by the Karasa Bandung community group, through an artistic approach (mural, painting) involving the public.



Source: Karasa Bandung



Gambar Kondisi Pintu Brandgang sebelum direnovasi





## About me

Second-Year PhD Researcher, University of Leeds.

Currently: **Data Collection** phase.

Fieldwork research: **July-September 2024 in Bandung City, Indonesia**



Scan to my profile