

World Development special issue on COVID-19 – research essay

Mobilising urban knowledge in an infodemic: urban observatories, sustainable development and the COVID-19 crisis

Michele Acuto¹, Ariana Dickey², Stephanie Butcher³ & Carla-Leanne Washbourne⁴

¹University of Melbourne, michele.acuto@unimelb.edu.au; ²University of Melbourne, a.dickey@unimelb.edu.au; ³University of Melbourne, stephanie.butcher@unimelb.edu.au; ⁴University College London, c.washbourne@ucl.ac.uk.

Abstract: Along with disastrous health and economic implications, COVID-19 has also been an epidemic of misinformation and rumours – an ‘infodemic’. The desire for robust, evidence-based policymaking in this time of disruption has been at the heart of the multilateral response to the crisis, not least in terms of supporting a continuing agenda for global sustainable development. The role of boundary-spanning knowledge institutions in this context could be pivotal, not least in cities, where much of the pandemic has struck. ‘Urban observatories’ have emerged as an example of such institutions; harbouring great potential to produce and share knowledge supporting sustainable and equitable processes of recovery. Building on four ‘live’ case studies during the crisis of institutions based in Johannesburg, Karachi, Freetown and Bangalore, our research note aims to capture the role of these institutions, and what it means to span knowledge boundaries in the current crisis. We do so with an eye towards a better understanding of their knowledge mobilisation practices in contributing towards sustainable urban development. We highlight that the crisis offers a key window for urban observatories to play a progressive and effective role for sustainable and inclusive development. However, we also underline continuing challenges in these boundary knowledge dynamics: including issues of institutional trust, inequality of voices, collective memory, and the balance between normative and advisory roles for observatories.

Keywords: urban observatories; infodemic; boundary-spanning; knowledge translation; science-policy interface

Manuscript length: 9,323 words (total)

Omitted references:

Authors 2016 - Acuto, M., & Parnell, S. (2016). Leave no city behind. *Science*, 352(6288), 873.

Authors 2018c - Acuto, M. (2018). Global science for city policy. *Science*, 359(6372), 165-166.

Authors 2019b - Acuto, M., Steenmans, K., Iwaszuk, E., & Ortega-Garza, L. (2019). Informing urban governance? Boundary-spanning organisations and the ecosystem of urban data. *Area*, 51(1), 94-103.

Authors 2020 - Acuto, M., Larcom, S., Keil, R., Ghajeh, M., Lindsay, T., Camponeschi, C., & Parnell, S. (2020). Seeing COVID-19 through an urban lens. *Nature Sustainability*, 3(10), 1-2.

Authors 2018b - Robin, E., & Acuto, M. (2018). Global urban policy and the geopolitics of urban data. *Political Geography*, 66, 76-87.

Authors 2019a - Washbourne, C. L., Culwick, C., Acuto, M., Blackstock, J. J., & Moore, R. (2019). Mobilising knowledge for urban governance: the case of the Gauteng City-region observatory. *Urban Research & Practice*, online first 1-23, available at: <https://doi.org/10.1080/17535069.2019.1651899>

Acknowledgments: the authors would like to thank Rob Moore at GCRO and Robert Ndugwa at UN-Habitat for input into the study, as well as colleagues at Karachi Urban Lab, GCRO, IIHS and SLURC for their time and engagement in the project.

1
2
3
4 **Mobilising urban knowledge in an infodemic: urban observatories,**
5 **sustainable development and the COVID-19 crisis**
6
7

8
9
10 Abstract: Along with disastrous health and economic implications, COVID-19 has also been an
11 epidemic of misinformation and rumours – an ‘infodemic’. The desire for robust, evidence-based
12 policymaking in this time of disruption has been at the heart of the multilateral response to the
13 crisis, not least in terms of supporting a continuing agenda for global sustainable development.
14 The role of boundary-spanning knowledge institutions in this context could be pivotal, not least
15 in cities, where much of the pandemic has struck. ‘Urban observatories’ have emerged as an
16 example of such institutions; harbouring great potential to produce and share knowledge
17 supporting sustainable and equitable processes of recovery. Building on four ‘live’ case studies
18 during the crisis of institutions based in Johannesburg, Karachi, Freetown and Bangalore, our
19 research note aims to capture the role of these institutions, and what it means to span knowledge
20 boundaries in the current crisis. We do so with an eye towards a better understanding of their
21 knowledge mobilisation practices in contributing towards sustainable urban development. We
22 highlight that the crisis offers a key window for urban observatories to play a progressive and
23 effective role for sustainable and inclusive development. However, we also underline continuing
24 challenges in these boundary knowledge dynamics: including issues of institutional trust,
25 inequality of voices, collective memory, and the balance between normative and advisory roles
26 for observatories.
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42

43 Keywords: urban observatories; infodemic; boundary-spanning; knowledge translation; science-
44 policy interface.
45
46
47
48

49 **Introduction**

50 Early in the pandemic outbreak, on the 2nd of February 2020, the World Health Organisation
51 warned that the health emergency of COVID-19 was being compounded by “a massive
52 ‘infodemic’” – an epidemic of misinformation and rumours about the coronavirus, with tangible
53 implications for collective efforts to tackle the crisis (Zarocostas, 2020). This was echoed by the
54 United Nations Secretary General later in April, stressing that “this is a time for science and
55 solidarity” with the launch of a UN Communications Response Initiative to “flood the Internet
56
57
58
59
60
61
62
63
64
65

1
2
3
4 with facts and science while countering the growing scourge of misinformation” on COVID-19.¹
5
6 WHO attributed these risks to “an overabundance of information—some accurate and some
7
8 not—that makes it hard for people to find trustworthy sources and reliable guidance when they
9
10 need it.”² A special ‘myth-busters’ team and advice service has been set up tackle spreading
11
12 misinformation, such as that COVID-19 is transmitted through houseflies, 5G radio and mobile
13
14 networks, or that hot and mild climates are at lower risk of contagion. Whether it has been in the
15
16 shape of the ever-present Johns Hopkins University geolocated atlas of cases, countless op-eds,
17
18 articles and reports in the media, or the endless COVID-19-filled chatter on social media, the
19
20 coronavirus crisis has undoubtedly been deeply entrenched in the circulation of information—
21
22 with much of this focused in and about how cities have responded to the pandemic. The capacity
23
24 to rely on tangible, scientific and actionable information, in particular, has been critical for those
25
26 working across various scales of governance from local to national to make decisions on
27
28 lockdowns, ‘social distancing’ measures, and short and medium-term economic planning in a
29
30 time of sizeable downturn. Equally, evidence has taken a prime spot in the conversation over the
31
32 future of the United Nations sustainable development agenda when the pandemic has seemingly,
33
34 according to some, set back global aspirations “by decades”³ at the very least (Nature 2020;
35
36 Sachs, Schmidt-Traub and Lafortune 2020).

37
38 A rising discourse has already poignantly outlined the challenges of this infodemic for effective
39
40 urban governance, as major sustainable urban development questions – from density and
41
42 transport management to urban inequality and poverty – come to the fore in both Global North
43
44 and South. Numerous public commentaries, from the *Guardian* in the UK to the World
45
46 Economic Forum, but also increasingly academic outlets like *Nature*, have argued for the
47
48 centrality of cities in the crisis (Lee et al. 2020; Bai et al. 2020; Authors 2020) and their imprint
49
50 on the future of sustainable development in the post-COVID ‘normal’. This is no novelty: the
51
52 pandemic unravelled at a historical juncture that has seen the clear rise of a ‘global urban
53
54 agenda’ in multilateral policy (Parnell 2016; Cociña et al. 2019), as intertwined with questions of

54
55 ¹ Antonio Guterres “This is a time for science and solidarity” UN Secretary General press release, 14 April 2020:
56 <https://www.un.org/en/un-coronavirus-communications-team/time-science-and-solidarity>

57
58 ² WHO Novel Coronavirus (2019-nCov) Sit. Rep – 13, 2 February 2020: https://www.who.int/docs/default-source/coronaviruse/situation-reports/20200202-sitrep-13-ncov-v3.pdf?sfvrsn=195f4010_6

59
60
61 ³ UN Department of Social and Economic Affairs, “UN report finds COVID-19 is reversing decades of progress on
62
63 poverty, healthcare and education” 7 July 2020, New York:
64
65 <https://www.un.org/development/desa/en/news/sustainable/sustainable-development-goals-report-2020.html>

1
2
3
4 global sustainability ranging from the role of cities in climate change, to matters of urban
5 equality, and more (Engström et al. 2020). At the end of the last decade, urban areas and local
6 governments received an increasing focus as critical sites for the global governance of
7 sustainability, in response to an array of interconnected environmental and socio-economic
8 challenges (Caprotti et al., 2017). This attention is perhaps best represented by the numerous
9 multilateral agreements for sustainable development emerging in the 2010s, including the *2030*
10 *Agenda for Sustainable Development* and the *New Urban Agenda*, which have increasingly put
11 cities and urban issues centre stage. In turn, cities themselves have been busily driving a global
12 sustainable development agenda through advocacy, policy mobility and networking, when
13 COVID-19 hit. The crisis did not hamper this attention: at the outset of the pandemic major city
14 networks like C40 Cities, a gathering 96 of the world’s largest metropolises, sprang into action—
15 linking environmental questions to the COVID-19 recovery, and making knowledge exchange
16 between and about cities a bedrock of this discussion. Interestingly, questions of urban inequality
17 and inclusive recovery have taken an even clearer role in this link between sustainability and the
18 pandemic response. This has gone hand-in-hand with academic and practitioner calls for cities to
19 develop the capacity to generate, mobilize and access comprehensive knowledge about their
20 environments, and to support policymaking and societal action (McPhearson, et al., 2016;
21 Authors 2018a). Crucially, attention to the need for new organisations that are designed to
22 ‘bridge’ and navigate this ‘knowledge transition zone’ between research and decision-making
23 (e.g. Perry & May, 2010) had been a feature of pre-pandemic global efforts at sustainable (urban)
24 development. These discussions have taken a stronger hold in the wake of the recognition of the
25 impact of the ‘infodemic’ on recovery and longer-term sustainable development. Effective and
26 inclusive knowledge mobilisation at the city level becomes, as commentaries recently put it, an
27 essential “enabling condition of post-pandemic city government” when it comes to addressing
28 sustainable and inclusive development (Parnell 2020).
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50

51 This is where our research note comes in. Although the salience of these boundary-spanning
52 knowledge-intensive organisations and processes is now acknowledged, there is currently only
53 limited systematic reflection on the institutions that operate in this space (Hordijk & Baud 2006;
54 Authors 2018b, Authors 2019a). We suggest that paying attention to the actions and operations
55 of such institutions, in the midst of the pandemic (and infodemic) is an urgent matter. To do so,
56
57
58
59
60
61
62
63
64
65

1
2
3
4 we focus here on a particular type of urban knowledge institutions. These are ‘urban
5
6 observatories’: boundary-spanning institutions focused on producing urban knowledge about one
7
8 or more urban settlements, and performing an explicit monitoring capacity through a regular
9
10 record of a range of urban issues. Our goal here is to capture the operations of these
11
12 observatories against the backdrop of the COVID-19 crisis. We reflect on how urban
13
14 observatories have been working across a number of different Global South contexts, focusing
15
16 particularly on questions of sustainable development. We do this through four case studies: the
17
18 Gauteng City Region Observatory (GCRO) in Johannesburg, the Indian Institute for Human
19
20 Settlements (IHS) in Bangalore, Sierra Leone Urban Research Centre (SLURC) in Freetown,
21
22 and the Karachi Urban Lab in Pakistan (KUL). We seek to capture how these observatories have
23
24 mobilised urban knowledge within an unprecedented time of disruption, and how this has
25
26 intersected with questions of inclusive sustainable development. We discuss initial learnings
27
28 from these four cases, but also by setting these into the context of a larger internationally
29
30 comparative study on the role and challenges of urban observatories, which we had been
31
32 completing as the crisis struck.⁴ This wider, context-setting evidence is being gathered by the
33
34 University of [anonymised] and University [anonymised] in collaboration with United Nations
35
36 UN-Habitat Global Urban Observatory (GUO) program, to offer more systematic insights as to
37
38 the role of 32 of these boundary-spanning institutions in urban governance, including the four
39
40 case studies presented here. Our research note seeks to offer a more in-depth view, aiming to
41
42 capture qualitatively the ‘voice’ of urban observatories at this time.⁵ The cases were created
43
44 through the development of desktop case studies drawing on available academic and grey
45
46 literature, coupled with semi-structured interviews and two focus group (both conducted
47
48 remotely in August 2020) with a total of thirteen representatives of the four cases. The case
49
50 development took place during the crisis, but draws upon other experiences captured in the
51
52 broader study which similarly relied on a desk research and interview-focused case study
53
54 approach taking place before the outbreak of COVID-19, with an additional two interviews

54
55 ⁴ Intentionally, the study coupled institutions that explicitly define themselves as ‘observatories’, like the Manila
56
57 Urban Observatory and entities that perform observatory-like functions like the Afghanistan Research and
58
59 Evaluation Unit (AREU).

57
58
59
60
61
62
63
64
65 ⁵ All quotes in this research note are verbatim from these working group sessions unless otherwise cited. They are
66
67 identified with a tilde (~) asterisk throughout the text. Following the online working groups, researchers then
68
69 transcribed the interviews and performed an iterative content analysis of the transcripts (all interviews and focus
70
71 group quotes transcribed by [anonymised], October 2020).

1
2
3
4 included explicitly in this paper. We begin this research note with a reflection on the challenges
5 posed by conducting urban research and providing advice in a context of crisis; we then move to
6 the issue of addressing knowledge and governance gaps; discuss the role of observatories in
7 reframing narratives, and then offer a reflection on the issue of bridging different kinds of
8 knowledge, and the role of observatories in knowledge translation. Whilst still preliminary, and
9 indeed provided as ‘near-live’ research in the midst of an ongoing and unravelling crisis,
10 especially in much of the Global South, our investigation aims to stress the importance of urban
11 knowledge institutions in the urban governance of crisis, raising a series of preliminary
12 consideration on the role of knowledge mobilisation in urban-policymaking for sustainable and
13 equitable outcomes in the short and longer term, with a particular eye to Southern cities.
14
15
16
17
18
19
20
21
22
23

24 **Deploying urban information and advice**

26 Certainly, urban observatories are not the only type of organisation bridging urban knowledge
27 between diverse institutions in cities. Yet they present an interesting if not unique confluence of
28 information on urbanisation, presenting an important window into how we ‘know’ about our
29 cities, and how knowledge can be mobilised to shape them. They are also an institutionalised
30 form much more common than their limited appearance in urban studies literature and urban
31 policy parlance might suggest. By a latest formal count, as of 2018, there were over 187 of these
32 types of institutions registered internationally as part of UN-Habitat’s Global Urban Observatory
33 (GUO) Network. Broadly, urban observatories serve to collect, analyse, and present urban data.
34 Many do so explicitly for decision-makers in cities who can then mobilise this information
35 towards policy and planning. The positioning of observatories is therefore an important element
36 as to how they might be situated in the urban governance of a crisis like COVID-19, and
37 significant in the type of information that they produce and mobilise.
38
39
40
41
42
43
44
45
46
47

48 This, for instance, is the case for the Gauteng City-Region Observatory (GCRO). GCRO is a
49 Johannesburg, South Africa-based observatory focused on the Gauteng City-Region, the
50 economic heart of the country within which Johannesburg and Pretoria (Tshwane) are located. It
51 was established in 2008 as a partnership between the University of Johannesburg (UJ), the
52 University of the Witwatersrand (Wits), which provide in-kind support to the observatory, and
53 the Gauteng Provincial Government (GPG), from which it receives its core grant. Organised
54 local government in Gauteng is connected through the South African Local Government
55
56
57
58
59
60
61
62
63
64
65

1
2
3
4 Association (SALGA-Gauteng) and is represented on the GCRO Board. GCRO was designed
5 explicitly as an observatory, with an advisory role built into its founding vision. Hence, GCRO
6 was perhaps more destined than other knowledge institutions to take a central place in the city
7 and region’s decision-making processes around the COVID-19 crisis, including work done on
8 request from the Office of the Premier for the Province of Gauteng and the National
9 Government.
10

11
12
13
14
15 Indeed, the crisis brought GCRO into a distinct crisis advisory role. At the time of this project’s
16 focus groups (August 2020), more than half of GCRO’s staff of 19 had been involved in the
17 response work. Throughout the pandemic, GCRO has provided a continuing flow of support and
18 advice to multiple levels of government, mostly through its data visualisation and analytics
19 capacity. GCRO has managed to quickly mobilize spatial information because of its capacity to
20 present spatially disaggregated social and environmental risk factors which are, or could become,
21 critical for the crisis at hand. This approach underlines the importance of continuous baselining
22 as to the state of a city: much of the responsive work by GCRO relied on pre-existing datasets
23 gathered for its “quality of life” survey, now in its 10th year of operation (Authors 2019a),
24 through which GCRO has been able to interpret the evolving situation in Gauteng in terms of
25 COVID vulnerabilities. This has allowed GCRO, for instance, to quantify risk factors pertaining
26 to maintaining social distancing or ensuring in-crisis hygiene, drawing on existing data on
27 household crowding or shared sanitation. However, this information also extends to broader
28 social and health vulnerability factors exacerbated by broader environmental factors, like access
29 to food, electronic communication, health care, or reliance on public transport. Equally, when
30 regularly tracked, this enables authorities to combine these factors with pre-existing health
31 conditions (e.g. the incidence of asthma, heart disease, or diabetes) which can lead to more
32 appropriate policy interventions. In turn, and centrally for our discussion, this baselining
33 approach could ensure some degree of resilience of these data systems to the ‘next’ crisis, be that
34 a similar pandemic, a very different natural disaster, or an unexpected major infrastructural fault,
35 allowing for the transferability of evidence between contexts. In order to understand variations
36 from the ‘norm’, a clear sense of the norm itself is required and often needed, as the case of
37 Johannesburg and countless other cities struck by COVID-19 prove.
38

39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59 This is of course something that has been a feature of other platform-based observatories
60 designed explicitly to keep the pulse of specific urban areas. It is evidenced, for instance, in the
61
62
63
64
65

1
2
3
4 Global North case of the Newcastle Urban Observatory, an example that further validates
5
6 GCRO’s experience that established, trust-based relationships between observatories and public
7
8 authorities is key to prompting a quick adoption of the observatory’s COVID-19 urban research
9
10 by key public stakeholders (James et al., 2020). Importantly, the case of GCRO tells us that pre-
11
12 existing urban research processes and information can be effectively drawn upon and repackaged
13
14 to address an unexpected crisis. Essential in this context are two key elements: the availability of
15
16 baseline information as to the state of a city, and readiness for that knowledge to be translatable
17
18 into both policy-ready and public-graspable information by staff skilled with data analytics and
19
20 with the “mechanics of government” which enables a high degree of responsiveness. The
21
22 GCRO has long played an important role in taking the ‘pulse’ of a 12 million-strong urban area
23
24 and, as the COVID-crisis began to hit the South African metropolis in March 2020, it was able to
25
26 quickly muster accessible and evidence-based information as to the overall situation—learning
27
28 not just *from* a crisis but providing crucial learning *in* crisis. Converting this into useable
29
30 knowledge products has also been key. Such analyses have since been published quickly and
31
32 effectively as a simple ‘supplement’ to GCRO’s regular “Map of the Month” instalment.⁶ GCRO
33
34 has compiled multiple interactive visualisations and special reports that show vulnerability and
35
36 risk to COVID-19 throughout this particularly populous region of South Africa. An initial “Map
37
38 of the Month” was quickly produced in March as the crisis began to unfold using baseline data
39
40 that had already been collected and synthesised through past Maps of the Month and Quality of
41
42 Life Surveys. The longitudinal and continuing data collected by GCRO enabled the observatory
43
44 to assemble and present snapshots of the pandemic in a way that highlights how COVID-19
45
46 might affect the region’s population. GCRO maps have also enabled better understanding of the
47
48 outbreak’s possible effects at different scales. As a result of regular data gathering, monitor and
49
50 in several cases institutionalized reporting activities, observatories like GCRO can often offer
51
52 considerable amounts of localized data readily accessible that can be mobilized quickly to
53
54 address new pressing issues like that of COVID-19. Here observatories can become quite readily
55
56 information springboards for other institutions to act fast in communicating tangible and
57
58 systematic evidence as to the situation at hand.

59
60 ⁶ Mapping vulnerability to COVID-19 in Gauteng” Supplement to *Map of the Month*, 20 March 2020, available at:
61 <https://gcro.ac.za/outputs/map-of-the-month/detail/mapping-vulnerability-to-covid-19/>
62
63
64
65

1
2
3
4 It is precisely because of the “deep, strong data” already collected by GCRO that they are able to
5 contribute key insights for decision-makers – both proactively and in response to specific
6 decision-makers’ queries and needs – rather than relying on “shaky” data from elsewhere. In
7 fact, over the past few months in the context of the crisis, GCRO has begun producing a new
8 output, called “data insights,” which are “presentation-style documents intended to be policy-
9 facing” for the purpose of providing data, particularly spatial, to elicit quick responses from
10 decision-makers. This demonstrates the complementary role GCRO plays to government in
11 providing high-quality research for decision-making. Another example is that in addition to the
12 Provincial and National government, increasingly, local municipalities and metropolitan
13 governments have also sought the expertise of GCRO staff to fill in capacity gaps, particularly
14 related to spatial analysis. However, in the context of the crisis, these demands have expanded to
15 issues outside observatory specialists’ skillsets on which they are not necessarily in a position to
16 consult – perhaps hinting at a widening gap in state capacities. For the GCRO, this
17 responsiveness to multiple levels of government resulted in more than half of the staff working
18 on the COVID response. A direct result of these shifting relationships with government are
19 developments in the “social technology” of the GCRO in their newfound position as an
20 intermediary organisation. While not established to be such, this role as an intermediary has
21 evolved over time and has accelerated with the pandemic. Staff members have been thrust into
22 the “micropolitics of data,” of data accuracy, and of data availability, suddenly navigating
23 through a “very delicate and sensitive political landscape”. And yet GCRO’s careful
24 consideration in managing its relationship with government across all levels has a relatively solid
25 trust in the observatory and likely one that is to reverberate after the crisis.
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45

46 **Intervening into urban knowledge and governance gaps**

47
48 The Indian Institute for Human Settlements (IIHS) is a research and teaching institution based in
49 Bangalore, working primarily in and on Indian cities, but also with a vast variety of international
50 engagements in urban research and teaching. For the purpose of this research note, IIHS is
51 recognised as not ‘just’ an observatory, but rather more correctly is a wider urban knowledge
52 institution which performs, amongst other roles (such as professional training and academic
53 education), ‘observatory-like functions’. From this perspective the example of IIHS both offers
54 an insight into the role of observatory activities within a wider urban knowledge terrain, as well
55
56
57
58
59
60
61
62
63
64
65

1
2
3
4 as an illustrative case of how urban observatories in the Global South have been stepping into not
5 only knowledge gaps but also possibly into urban governance vacuums. The work of IIHS lies
6 not just in data gathering and mobilisation, but also in its vision to be ‘on the ground’
7
8 experimenting and working with communities and government at all levels (national, state, and
9 city) across urban India. It is this vision which positioned the Institute to face complex
10 challenges from the start of the crisis. At the outset of the pandemic, over six million people in
11 Delhi were left with no access to the state-provided food support system, including, for example,
12 migrants without state-established identities. In response, IIHS set up emergency food provision
13 across the city, beginning with hot meals and eventually working with government and other
14 agencies to establish a longer-term system that provides cooking supplies for people to prepare at
15 home. This instance marks “the first step at a universal entitlement for food security”~ that has
16 been a topic of discussion for 14 years, but has now taken its first steps towards becoming a
17 reality. Fundamental to this example is IIHS’s coordinating capacity and ability to design and
18 scale innovative new systems, by integrating existing knowledge of Delhi to the emerging
19 priorities within new circumstances. Also crucial to the success of the Delhi experiment in social
20 protection and other IIHS-led interventions, including the set-up of specialised isolation
21 facilities, was IIHS staff’s deep grounding in spatiality, which enabled them to establish
22 emergency response systems that the state itself did not have the capacity to do~. Throughout the
23 crisis, the Institute has also worked extensively with government. In Tamil Nadu, for example,
24 building on IIHS’ 5-year long engagement with the state government on urban sanitation, IIHS
25 secured personal protective equipment (PPE) kits for at-risk sanitation workers, provided food
26 rations, and created enterprise-based livelihood support programmes for the urban poor. IIHS
27 also authored a high-level report for the Finance Commission of India on the potential of
28 urbanisation to accelerate post-COVID economic recovery, signalling its commitment to
29 strategic advisory support across levels of government. From the perspective of the IIHS case,
30 the role of observatories in a crisis like COVID-19 is thus three-fold. First is their ability to bring
31 together skilled individuals to set up a continuous dialogue that serves as a sort of “collective
32 memory,” thus providing a space for both analysis and reflection on “where things were, where
33 they might be going, and how new imaginaries can be contested”~. Second is their capacity to
34 innovate and develop new methods and approaches while conducting evidence-based action
35 research, to attend to the crisis unfolding in real time. And finally, third is their role as a strategic
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65

1
2
3
4 partner providing critical support to government, where state data and knowledge capacity is
5
6 weak.

7
8
9
10 This latter function echoes GCRO's relationship with the Premiership of Gauteng, which in turn
11 speaks to the potential for the relationship of scientific advice to government to feed back into
12 capacities for academic exchange. Although initially in agreement with the provincial
13 government to embargo research findings before release, the Premier now encourages GCRO to
14 publish openly – a development that the observatory credits to the tone of voice used in their
15 analysis, opting for “modulated analysis”~ instead of critique. As a result, their analysis is
16 “credible, trusted, accepted, and asked for again and again”~. By working across all levels of
17 government and by carefully navigating those relationships to encourage collaboration between
18 them, GCRO networks knowledge that would otherwise remain siloed in their respective
19 government spheres. The human aspect of data analytics is thus immediately apparent,
20 demonstrating that having data itself does not necessarily yield understanding, but rather the
21 work of skilled analysts who can curate information, develop appropriate knowledge products
22 and navigate complex relationships results in tangible impact. The cases of GCRO, bridging
23 provincial government with university research, and IIHS, a standalone educational, capacity-
24 building, and research institution, raises the issue of positionality of these institutions in Global
25 South cities with contexts where urban governance may be splintered, or shaped by significant
26 gaps. The boundary role of observatories has tangible implications as to their place in the
27 structures and institutions of urban governance. Even in relatively resource constrained Southern
28 contexts, research-based universities typically possess the expertise needed to generate the
29 specialised outputs associated with urban observatories.

30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48 The attempt to bridge academic knowledge and decision-making for sustainable urban
49 development should not be blind to often important gaps that exist in urban governance when it
50 comes to community engagement and the valuable contribution of local knowledge – a space for
51 observatory work that is less commonly acknowledged in the literature. Here our third case
52 study, that of the Sierra Leone Urban Research Centre (SLURC), based in Freetown, the capital
53 of Sierra Leone, is a fitting example. SLURC is a research centre established collaboratively in
54 2016 between the Bartlett Development Planning Unit at University College London and the
55
56
57
58
59
60
61
62
63
64
65

1
2
3
4 Institute of Geography and Development Studies at Njala University. The centre conducts
5 research, holds training and workshops, and is primarily focused on “capacity building,
6 knowledge management, and policy influencing.” SLURC’s primary aim is to improve the well-
7 being of urban dwellers, and has done so from its outset with a particular emphasis on informal
8 settlements – a fitting case to capture knowledge translation beyond academia-policy relations.
9 SLURC is an example of a community-engaged institution that has worked for four years
10 primarily on urban informality in response to Freetown’s particular urban context. SLURC has
11 sought to provide technical guidance and research-based evidence which is closely aligned with
12 the capacities and realities of residents living informal settlements. At the outset of the pandemic,
13 SLURC quickly produced a publicly available policy brief drawing lessons from the 2014 Ebola
14 outbreak to apply to COVID-19. From this point of view, the case of SLURC also highlights the
15 important historical memory function of urban observatories. Freetown and Sierra Leone had
16 borne witness to one of the most devastating epidemic outbreaks of the last two decades, with an
17 explicit program of learning from the Ebola crisis which, in itself, was also building on years of a
18 devastating decade-long civil war throughout the 1990s. It does not come to a surprise, then, that
19 SLURC has been taking a very explicit role in support of the livelihoods of informal settlement
20 inhabitants in the wake of the crisis, and that it has done so with a well-established appreciation
21 of contexts of urban crisis. These insights and structures imbued Freetown with a level of
22 resilience in the face of the COVID-19 pandemic, reducing the potentially huge negative impacts
23 on the social and environmental structures of the city.
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41

42 Yet these ‘lessons learned’ also highlight the role of observatories in not just capturing (or
43 monitoring) inequalities, but also giving voice to these living in these marginalised conditions
44 whose lives are often most rapidly and significantly affected by crises. SLURC’s briefing work
45 at the outset of the crisis focused on stressing the blatant health inequalities in Sub-Saharan
46 Africa and foregrounding the social and environmental conditions in informal settlements that
47 cause residents to face disproportionately higher rates of infection. In doing so, SLURC opened a
48 wider discussion about differential (in)access to essential urban services, such as sanitation,
49 health care, and water, within the city, and the need for responses tailored specifically to the
50 conditions in informal settlements, in which social distancing, for example, is rarely a viable
51 course of action. In addition to the policy brief, SLURC has worked closely with city authorities
52
53
54
55
56
57
58
59
60
61
62
63
64
65

1
2
3
4 in their preparation of a COVID-19 action plan, particularly focusing on crafting a “robust,
5 effective, and socially just” response that addresses the “diversity and realities of informal
6 settlements, which may not correspond to the ‘one size fits all’ solutions city authorities
7 normally prioritise”~. Through robust and collaborative engagement with informal settlement
8 residents in Freetown, SLURC has therefore been able to bring these grounded community-level
9 reflections to inform city decisions. SLURC thus contributes valuable insight across government
10 levels by advocating that COVID-19 is not just a health issue, but in fact a complex reality, with
11 compounding and interconnected physical environment, socio-economic and identity factors
12 contributing to the vulnerability of communities to the virus.
13
14
15
16
17
18
19
20
21

22 **Reframing (urban) narratives**

24 The role of observatories in reframing narratives about the city during the COVID-19 pandemic
25 is perhaps best represented by the case of the Karachi Urban Lab (KUL). KUL was founded in
26 2018 and is housed in the Department of Social Sciences and Liberal Arts at the Institute of
27 Business Administration Karachi, Pakistan. KUL seeks to foster connections between research,
28 teaching, public policy dialogue, and advocacy, and to promote sustainable urban-rural
29 development with a particular focus on “issues of social justice and equity in delivery of
30 infrastructure services and housing”^{*7}. Importantly, the Lab is “committed to ensuring that the
31 communities that are the subjects of study are always involved in [KUL’s] projects as
32 stakeholders through co-production of knowledge.” The Lab shares its findings with stakeholders
33 and is careful to highlight how the communities they work with have also supported the analysis,
34 asking: “What do you think about this data? Where are we wrong about this? Where are we right
35 about this? How do you think we can take this forward? How can you use it?”^{*8} While some
36 community members were initially hesitant to engage with KUL, feeling consultation fatigue
37 after having been contacted repeatedly by groups such as other NGOs, government
38 representatives, and multilateral donors, they have ended up inviting the Lab back after seeing
39 the quality of its outputs. As such, through these processes, and with patience and time, KUL has
40 developed “relationships of trust”^{*9} with their regular interlocutors. Yet this is not just a story of
41 trust-building, as for instance already flagged by our GCRO case study. Additionally, the case of
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57

58
59 ⁷ quotes highlighted with an asterisk (*) in this paragraph are from a separate interview with Karachi Urban Lab
60 representatives on 12 February 2020, transcribed by [anonymised], February 2020.
61
62
63
64
65

1
2
3
4 KUL brings into play the challenge of reframing narratives and perceptions about urban realities
5 and processes – an issue that becomes more and more pertinent during the ‘infodemic’ of
6 misinformation. For KUL, part of this critical process of reframing traditional urban knowledge
7 about the city has been engaging closely with the local Urdu media as a mechanism for sharing
8 research findings and agendas directly with communities. This means of dissemination allows
9 their “writing to reach a much wider audience”*, moving beyond the more traditional English -
10 oriented academia in Pakistan. As such, KUL is highly active in “getting their voices out”*
11 through media campaigns, both print and social. This is a stance that involves, as in the case of
12 SLURC, substantial co-production of knowledge rather than just a top-down re-definition of the
13 dominant, and potentially skewed, urban narratives.
14
15

16
17 This work to reframe traditional urban narratives, however, brings forth an ethical challenge
18 faced by the observatory regarding whether its research activities and outputs will endanger its
19 stakeholders. Thus, KUL must balance embedding itself within the communities with which it
20 works without creating damage or upsetting the local order. These ethical research dilemmas
21 came to the fore again amidst the COVID-19 crisis. In fact, research emerging from the Karachi
22 Urban Lab is already challenging state-led narratives about Pakistan’s handling of the crisis. A
23 recent article published in the Wall Street Journal dubbed Pakistan a “bright spot” (Shah 2020)
24 and reported that the country has successfully controlled the virus – a remarkable feat when
25 compared to neighbouring India and to Brazil, which has a similarly sized population. The
26 reality on the ground captured by Karachi Urban Lab, however, tells a less uplifting story of state
27 disorganisation, with residents of informal settlements unable to access food rations, health
28 centres, or welfare checks, and “deliberate and very strategic”~ state-led obfuscation of data in
29 order to “give it the leverage to do whatever it wishes and wants”~. In this context, Karachi
30 Urban Lab plays an important role in challenging the prevailing state narratives and gathering
31 and analysing much-needed data.
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50

51 **Translating multiple urban knowledge(s)**

52
53 Several observatories used collaborative approaches to knowledge production, which has
54 broadened the kinds of actors and expertise which are seen as valuable in informing the COVID-
55 19 response specifically, and urban planning and policy more generally. For these observatories,
56 this manifested in participatory and collaborative research, which seeks to engage ‘local’, ‘lived’,
57
58
59
60
61
62
63
64
65

1
2
3
4 or ‘experiential’ knowledge—alongside more traditional ‘expert’ forms of knowledge— as key to
5 addressing complex sustainability challenges in urban areas (Rydin, 2006; Swilling, 2014; Watson,
6 2014). Such ‘knowledge co-production’ processes have unsettled the idea of knowledge as
7 unidirectional, highlighting the uneven politics through which certain voices or forms of research,
8 are granted great legitimacy and credibility to inform policy and practice (Apsan Frediani, Cociña,
9 Acuto, 2019).

10
11
12
13
14
15 Observatories such as SLURC, KUL, and IIHS engage in participatory action-research, which has
16 extended through the COVID-19 crisis, working closely with vulnerable communities to draw
17 from their ‘lived’ experience, and to collaboratively produce research which responds to these
18 realities. On the one hand, the logic of engaging in knowledge co-production has been articulated
19 as a mechanism to obtain deeper and better sources of information—particularly in areas with high
20 levels of urban informality, and attendant data gaps. In cities of the Global South, for instance,
21 working closely with informal communities has deepened the understand of how social distancing
22 or hygiene challenges can be managed in high-density contexts with limited access to water and
23 sanitation facilities, or in recognizing and addressing the multidimensionality of risk factors
24 (Wilkinson, 2020). Moreover, beyond the value of engaging vulnerable groups to inform better
25 policy and planning outcomes, embedding research within low-income or informal communities
26 was also articulated an important act of, as SLURC colleagues’ flag, “recognizing people living in
27 informal places”~ That is, engaging deeply with marginalized or excluded groups in the city was
28 seen as foundation to encouraging a recovery that, in the words of KUL, was “socially just”~ and
29 from which, as IIHS tells us, “new imaginaries”~ for more equitable cities can built.

30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45 The work of these observatories offered two key lessons for how knowledge co-production can
46 both address the ‘infodemic’, but also help chart pathways towards more sustainable and socially
47 just futures. Firstly, these observatories articulated a strong mandate to build the research and
48 advocacy capacities of marginalized or vulnerable residents. For SLURC this has entailed many
49 years of working with local communities to support them to “understand the places where they
50 live, but also how to take actions to respond to some of the situations that they find themselves
51 in.” Working with community residents as “co-researchers”, this process of “mutually producing
52 knowledge”~ has been a fundamental approach to support informal settlement residents to advocate
53 for just responses, in a context where the priorities of informal areas may be overlooked in
54
55
56
57
58
59
60
61
62
63
64
65

1
2
3
4 traditional governmental responses. SLURC has established durable structures, such as ‘City
5 Learning Platforms’ and ‘Community Learning Platforms’, in which diverse urban groups are
6 brought together to discuss different issues facing informal settlement communities (City Learning
7 Platform, 2019). As a direct result of this capacity and trusted relationship, SLURC was able to
8 continue working remotely with these communities and through these structures, when field
9 activities were suspended in response to COVID-19. Working collaboratively has also been
10 enabled through the relationship SLURC has built with the Freetown City Council (FCC), which
11 has meant that the institute is more readily able to ‘translate’ the knowledge and experiences of
12 the residents it works with to policymakers. In this case, one of the key roles of SLURC as an
13 ‘observatory’ has been in supporting the research undertaken by and with communities, and to
14 connect these community-level structures and leaders with ongoing responses led by local
15 authorities.

16
17 Likewise, KUL has an explicit focus on ‘co-producing’ knowledge and embedding projects
18 predominantly within low-income working-class informal settlements spread across Karachi. In
19 doing so, they have used their positioning with the university to “create a platform for
20 discussions for academic-practitioner exchanges, both locally and globally”~. As in the case of
21 SLURC, this legacy of deep engagement and action-research with these communities has
22 allowed for continued dialogue with these communities even as the ‘field’ was closed in March,
23 due to social distancing measures. These relationships have enabled the sharing of stories about
24 the impacts of COVID-19, and “women and men's abilities to circulate within their
25 neighbourhoods, and their abilities to access certain corridors of power.”~ In doing so, both
26 SLURC and KUL demonstrate the value of collaborative efforts at building knowledge—
27 bringing these often-invisible spaces to bear on urban decision-making, and playing a powerful
28 advocacy role for vulnerable groups in the city.

29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50 Secondly, these observatories have played a key role in positioning the experience of COVID-19
51 within the wider framework of inequality. That is, it is well-acknowledged that the crisis has
52 revealed and deepened existing inequalities globally. As such, the value offered by these
53 institutions was not only in responding to the information gaps linked with the health crisis, but
54 also in highlighting and engaging with the much longer-term environmental and social legacies
55 which have produced inequality over time. Part of this story lies in the work that these
56
57
58
59
60
61
62
63
64
65

1
2
3
4 observatories have done in charting the differential impacts of the crisis across diverse identities
5 in the city, whether linked with gender, (dis)ability, or migration or tenure status. For KUL, for
6 instance, this has meant “putting the question of gender the forefront in all of our work”~, as
7 household dynamics and inequities have been exacerbated under lockdown. Likewise, SLURC
8 has focused a strand of research particularly on residents with disabilities, and has likewise
9 identified emerging issues such as how water scarcity has exacerbated gender-based violence. In
10 India, IIHS’s work in responding to the particular challenges faced by migrant workers, linked
11 with food security and labour precarity. In doing so, these observatories have been deeply
12 attuned to the differential impacts of COVID-19 even within vulnerable communities,
13 identifying the range of specific responses that might be required. For each of these
14 observatories, the deep alignment with vulnerable communities has also meant that these
15 institutions have moved beyond traditional research activities, to also engage in the direct
16 provision of support—whether linked with food and nutrition, sanitation and hygiene
17 interventions, or support against evictions.
18
19
20
21
22
23
24
25
26
27
28
29
30

31
32 Beyond examining and responding to the specific impacts of COVID-19 across diverse identities
33 – these observatories have also positioned the COVID-19 crisis within the wider (unequal) urban
34 and spatial trajectories of their cities. For instance, SLURC has been working closely with the
35 Freetown City Council (FCC) to highlight the specific and unequal manifestations of COVID-19
36 faced by residents in informal settlements in the city. Crucially, SLURC has sought to reframe
37 COVID-19: “not just as an illness, but rather as something that actually reflects the very context
38 of inequalities within this particular time.”~ This has meant producing knowledge not just on the
39 health impacts, but also in linking the crisis with those longstanding issues faced by local
40 communities that go “far beyond health”~, including looking at densities and open space, social
41 protection, water and sanitation vulnerabilities, and housing conditions. In this way, SLURC has
42 been working to open a dialogue on the ways in which health inequalities are fundamentally
43 linked with those policy and planning legacies, which have marginalized and excluded urban
44 poor communities in the city.
45
46
47
48
49
50
51
52
53
54

55 Likewise, IIHS highlighted the critical importance of not only engaging with these past legacies,
56 but also in the value of an observatory in retaining a watchful eye on the underlying politics of
57 the city before, during and after a crisis. Across the globe, cities have seen the combination of
58
59
60
61
62
63
64
65

1
2
3
4 increasing digital surveillance, policing, and greater state powers granted under ‘state of
5 emergencies’ enacted as a mechanism to control and monitor the spread of COVID-19 (Sweeney
6 2020). In India, IIHS highlighted that this has manifested in key legislative and governance
7
8 changes—such as the dilution of labour and environmental protections, arrests of activists, or the
9
10 sale of public lands—which have been enabled under cover of the crisis. Beyond responding to
11
12 the current moment, IIHS has identified the critical role of the observatories in recognizing and
13
14 monitoring how these urban governance processes are enabled during the crisis, and examining:
15
16 “how the terrain is shifting post-COVID-19 — and not just in light of the health question, but in
17
18 light of the range of not-directly related challenges our cities are going to face”~. In the cases of
19
20 SLURC, IIHS, and KUL these institutions have positioned themselves directly within the
21
22 broader politics of the city, seeking to reveal and challenge those political rationalities which
23
24 may not be oriented towards equitable and sustainable forms of urban transformation.
25
26
27

28 In engaging with a multiplicity of knowledge(s) on the city, observatories such as SLURC, IIHS,
29
30 and KUL have played a key role in unsettling the uneven politics of knowledge production, and
31
32 in advocating for the lived realities of marginalized residents to inform the COVID-19 response.
33
34 Through capacity -building, producing collaborative and evidence-based research, or
35
36 establishing structures and platforms of knowledge exchange, these institutions have sought not
37
38 only to respond to the deep inequities extended through the crisis, but also to reorient how
39
40 vulnerable communities are recognized within urban governance and decision-making. Critical
41
42 to the operation of these knowledge co-production processes is the powerful boundary spanning
43
44 role played by these observatories, as institutions which can ‘translate’ across diverse data
45
46 sources and actors, produce diverse outputs for different users and in different languages, and
47
48 provide a platform for the exchange of ideas from very different (and often unequal) urban
49
50 stakeholders. Likewise, the commitment to producing knowledge which is grounded in the
51
52 specific histories and spatialities of the city. As such, these observatories challenge how and by
53
54 whom urban knowledge is produced and understood—not just in relation to COVID-19, but also
55
56 in response to the much broader system of environmental, social and economic inequalities in
57
58 which these cities are situated. In doing so, these observatories demonstrate key lessons for how
59
60 urban knowledge can be collaboratively harnessed to chart pathways for more equitable and
61
62 socially just cities, through the COVID-19 recovery process.
63
64
65

1
2
3
4
5
6 **More boundary challenges ahead?**
7

8 Amidst deep transformations and profound societal challenges, efforts toward knowledge
9 mobilisation might easily fall behind, and not be seen as part of, perceived ‘more-urgent’
10 economic and sustainability agendas. Yet, as we have illustrated above, these debates are instead
11 at the very heart of both global and very localized response to COVID-19 in those key urban
12 theatres of the crisis. Centrally, when looking at our four cases, we would argue that it is critical
13 to stress the second part of the UN Secretary General’s call which we started with— for the
14 COVID-19 response to be a time for science *and solidarity* – with a clear focus on issues of
15 whose urban knowledge counts in charting sustainable development out of the crisis. In this
16 sense, the cases we have presented stress the importance of institutionalising that link between
17 knowledge and solidarity, and the value of spanning boundaries in a context of disruption.
18

19 As we have noted, over the past three decades the United Nations has both acknowledged and
20 encouraged, where not supported directly, the establishment of urban observatories. Likewise,
21 many academic, public and private institutions have developed their own observatory projects.
22 Experiments similar to GCRO, IIHS, KUL or SLURC are now present across the world, whether
23 as independent entities, located within universities, or as embedded within local government. In
24 turn, the proactivity of the cases cited here, and the varied ways in which they have mobilised
25 knowledge across boundaries, speaks volumes to the need to recast assumptions about ‘best
26 practices’ and ‘models’ of urban research institutionalisation. Several of our cases have, for
27 instance, illustrated how Northern institutions can learn from their counterparts in the South
28 when it comes to incorporating an attention for complexity into the “ecosystem” of knowledge
29 mobilisation, and its impacts on social and environmental resilience – as demonstrated for
30 instance by recent work on South Africa’s evidence ecosystem (Stewart et al. 2019).
31

32 Much of the work of observatories is dependent on the capacity to gather, process and mobilise
33 knowledge – something that is increasingly intertwined with the technologies underpinning
34 urban research. Observatories have made use of new technologies, and new use of existing
35 technologies, in light of the pandemic. In the case of SLURC, for example, there has been a
36 heavier reliance on mobile phones for data collection and sharing as well as platforms like Zoom
37 for engagement. Likewise, in Pakistan, research activities have halted as a result of the
38 pandemic, so the Karachi Urban Lab depends on video, telephone, and handwritten dispatches
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65

1
2
3
4 directly from community contacts. Not only are there new methods, tools, and forms of
5 engagement that emerge from the crisis, so too are there new voices not typically captured in
6 urban conversations. For instance in India, COVID-19 has seen the rise of unions of informal
7 workers, whose voices are now coming to the fore through their work with IIHS.
8
9

10
11
12
13 However, this observation on the adaptation of methods of knowledge mobilisation generates an
14 emerging set of ethical dilemmas. Most clearly, reliance on these forms of communication are
15 likely to stay, however the infrastructure to support them and methods based on them still need
16 improvement. Issues of inequitable access to digital infrastructure—particularly in urban
17 contexts marked by high levels of vulnerability and inadequate access to basic services and
18 infrastructure—will be a key concern in how knowledge is generated. Likewise, new challenges
19 have emerged in relation to the intrusiveness of sourcing data remotely from communities under
20 duress from the pandemic. Even if voluntarily shared, researchers at the observatories
21 nevertheless cite some hesitation about using the data gathered from their interlocutors. This was
22 particularly the case for those observatories which engaged in collaborative research with
23 vulnerable communities. Colleagues at KUL expressed a tension between the “interesting ways
24 of capturing stories in real time” facilitated by contemporary technologies and the “ethical
25 questions about how technologies enable us or disable us, and the ethics of representational
26 issues, which in themselves are old issues” and yet “in the present context, are particularly
27 heightened.”~ Another concern pertains to the creeping expansion of digital surveillance,
28 particularly given that COVID-19 has given governments essentially free license to control
29 populations and rapidly acclimate them to a ‘new normal’. And yet despite these concerns, there
30 are concurrent instances of digital empowerment, for example in Delhi as flagged by IIHS
31 colleagues, where an SMS notification from the provincial government about new digital ration
32 cards led to over one million registrations in a matter of days. The current penchant for greater
33 digital surveillance in a context of crisis management certainly opens up greater challenges to the
34 way we gather information and share stories of and data about the crisis. As commentators have
35 already voiced, the relative absence of data collection and monitoring projects in the Southern
36 hemisphere from major COVID-19 initiatives, and the dearth of adequate regulatory frameworks
37 in the Global South, for example in the field of privacy and data retention, might make local
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65

1
2
3
4 authorities “fall prey to outside interventions of a dubious nature”.⁸ Moreover, there remain of
5 course clear “data gaps” in data quality, availability and institutionalisation in most developing
6 contexts. As a recent comprehensive review of research ecosystems in Low- and Middle-Income
7 Countries carried out by the (now reformed) then-UK Department for International Development
8 (DfID) noted, structural problems remain widespread and strike at the heart of the boundary
9 spanning functions we discussed here. Issues such as weak linkages between higher education,
10 research, private sector and government, the lack of adequate ICT infrastructure underpinning an
11 organisation’s research information system, and a lack of incentives to produce research, but also
12 very limited research management capacity across LMICs (affecting for instance ability to obtain
13 and handle research funding), remain crucial and especially poignant in a crisis context like
14 COVID-19 (DfID 2020).
15
16
17
18
19
20
21
22
23
24
25

26 From this perspective the value of often well-established Southern voices like GCRO, IIHS or
27 SLURC, but also of supporting new institutional urban research hubs with some observatory
28 functions, like the KUL, becomes even more crucial in a context of crisis like COVID-19. They
29 emerge as institutions seeking to support sustainable and equitable urban development through
30 the creation and leveraging of urban knowledge to guide better decisions both in ‘normal’ times,
31 and in times of crisis. They play an important role in providing robust, timely and verifiable
32 information in the face of the ‘infodemic’ – which in part relates to their methods, approaches
33 and relationships that enable them to be trusted voices (even if they are not, of course,
34 singlehandedly dismantling the infodemic). They bridge evidence-based information and
35 sustainable development action—and particularly when engaged in collaborative research with
36 urban poor groups—can do so in a way that is deeply steeped into questions of solidarity.
37 Our initial real-time observation of urban observatory activities in response to COVID-19 in the
38 last few months raises some important notes on the value of boundary-spanning urban research
39 both in and beyond a crisis like COVID-19. The review above stresses both the complex
40 institutionalisation of these practices, with a wide variety of geographical scopes and institutional
41 positionings, but also common trends as, for instance, with the aims of gathering and
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57

58 ⁸ As flagged for instance, by building on the Big Data from the South initiative, in Milan, S. & Trere, E. “A
59 widening data divide: COVID-19 and the Global South” *Open Democracy* 3 April 2020, available at
60 <https://www.opendemocracy.net/en/openmovements/widening-data-divide-covid-19-and-global-south/>
61
62
63
64
65

1
2
3
4 disseminating knowledge, but also explicitly influencing policy. Above all, for international
5 development, preliminary results from our study stress the presence of both well-established
6 institutions in the Global South, which have been able to leverage their positioning effectively to
7 advocate for evidence-based discussions, as well as the emergence of new actors and players in
8 this space. Equally, our findings also underscore that many of these institutions have been
9 advocating explicitly for better attention, in the time of COVID-19, to urban vulnerabilities,
10 inequalities and marginalities as longstanding processes shaping the course of sustainable
11 development.
12
13
14
15
16
17
18
19

20 Relatedly then, a set of initial learnings emerge from the four cases depicted. First, it is clear that
21 effectively mobilising advice and information is deeply linked with the establishment of
22 relationships of trust across urban research and governance – which has been key element of
23 driving the effective uptake of information in the wake of sudden disruptions. Second, our cases
24 point to the important role that these institutions play in maintaining a collective urban memory
25 (or memories) when policy and politics, but also market forces, push for short-termism and
26 change in cities, and how critical this role is both at a time of crisis, and in setting a clear
27 development trajectory. In doing so, however, they also ask us to attend to the politics
28 underpinning the work of these memories, and their inherent spatiality (Rose-Redwood,
29 Alderman and Azaryahu 2008), gesturing for instance to the role that boundary institutions can
30 plan in depicting the geographies of inequality at the heart of the crisis. Third, the stories we
31 have recounted show how observatories often play a bridging role as the knowledge ‘glue’ in
32 urban governance gaps, many of which have to do with questions of inequality, marginalisation
33 and engagement with communities that might not traditionally be able to meaningfully influence
34 decision-making. Giving voice to these realities and concerns, and in some cases reframing
35 exclusionary urban narratives, has been identified as a fundamental role, particularly in a context
36 of deepening inequalities as a result of the crisis. Finally, and consequently, we have then
37 stressed the complexity of how boundary institutions might be taking a normative stance as to
38 their role, whilst needing in some cases to balance trust with advocacy. Of course, these are but
39 preliminary and very much ‘live’ considerations as the COVID-19 crisis, and indeed its
40 underlying infodemic, has begun to shift the world’s attention towards Global South contexts.
41 COVID-19 has provided a lens through which to view the contribution and criticality of these
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65

1
2
3
4 kinds of institutions in ensuring positive and resilient urban trajectories on an increasingly urban
5 planet. The way urban research institutions will step up to this reality, but also the mechanisms
6 by which they will be supported to do so in a reality that is perhaps even more fragile than usual,
7 will no doubt leave a clear imprint onto the future of urban observatories and boundary-spanning
8 exchanges for the decades to come.
9
10
11
12
13
14
15
16

17 **References**

18 Authors references omitted (Authors 2016; 2018; 2019a; 2019b; 2020 [+147 words])

19 Apsan Frediani, A., Cociña, C. and Acuto, M. (2019) ‘Translating knowledge for urban equality:
20 alternative geographies for encounters between planning research and practice’, KNOW
21 Program Working Paper no.2, London: Development Planning Unit (DPU), University
22 College London pp. 1–13.
23
24
25
26
27

28 Bai, X., Nagendra, H., Shi, P., & Liu, H. (2020). Cities: build networks and share plans to
29 emerge stronger from COVID-19. *Nature*, 584, 517-520.
30

31 Caprotti, F., Cowley, R., Datta, A., Broto, V. C., Gao, E., Georgeson, L., & Joss, S. (2017). The
32 New Urban Agenda: key opportunities and challenges for policy and practice. *Urban
33 Research & Practice*, 10(3), 367-378.
34
35
36

37 City Learning Platform (2019) ‘Principles of Engagement for the City Learning Platform’,
38 *Practitioner Brief #1*. Freetown: Sierra Leone Urban Research Centre
39

40 Cociña, C., Frediani, A. A., Acuto, M., & Levy, C. (2019). Knowledge translation in global
41 urban agendas: A history of research-practice encounters in the Habitat conferences. *World
42 Development*, 122, 130-141.
43
44
45

46 Connolly, C., Keil, R., & Ali, S. H. (2020). Extended urbanisation and the spatialities of
47 infectious disease: Demographic change, infrastructure and governance. *Urban Studies*, 1-23
48 online first, 1-23, available at: <https://doi.org/10.1177%2F0042098020910873>
49

50 Engström, G., Gars, J., Jaakkola, N., Lindahl, T., Spiro, D., & van Benthem, A. A. (2020). What
51 Policies Address Both the Coronavirus Crisis and the Climate Crisis?. *Environmental and
52 Resource Economics*, 76(4), 789-810.
53
54
55
56
57
58
59
60
61
62
63
64
65

- 1
2
3
4 Hordijk, M., & Baud, I. S. A. (2006). The role of research and knowledge generation in
5 collective action and urban governance: How can researchers act as catalysts?. *Habitat*
6 *International*, 30(3), 668-689.
7
8
9
10 Lee, V. J., Ho, M., Kai, C. W., Aguilera, X., Heymann, D., & Wilder-Smith, A. (2020).
11 Epidemic preparedness in urban settings: new challenges and opportunities. *The Lancet*
12 *Infectious Diseases*, 20(5), 527-529.
13
14
15 McPhearson, T., Parnell, S., Simon, D., Gaffney, O., Elmqvist, T., Bai, X., & Revi, A. (2016).
16 Scientists must have a say in the future of cities. *Nature*, 538(7624), 165-166.
17
18
19 *Nature* (editorial) (2020). Time to revise the Sustainable Development Goals. *Nature* 583, 331–2
20
21 O’Campo, P. (2012). Are we producing the right kind of actionable evidence for the social
22 determinants of health?. *Journal of Urban Health*, 89(6), 881-893.
23
24
25 Parnell, S. (2016). Defining a global urban development agenda. *World Development*, 78, 529-
26 540.
27
28
29 Parnell, S. (2020). The enabling conditions of post-pandemic city government. *Environment and*
30 *Planning B: Urban Analytics and City Science*, 47(7), 1143-1145.
31
32
33 Perry, B., & May, T. (2010). Urban knowledge exchange: devilish dichotomies and active
34 intermediation. *International Journal of Knowledge-Based Development*, 1(1-2), 6-24.
35
36
37 Rose-Redwood, R., Alderman, D., & Azaryahu, M. (2008). Collective memory and the politics
38 of urban space: an introduction. *GeoJournal*, 73(3), 161-164.
39
40
41 Rydin, Y. (2006) ‘Joined-up Knowledge for the Sustainable City?’, *Environment and Planning*
42 *A: Economy and Space*, 38(6), 1005–1007.
43
44
45 Sachs, J., Schmidt-Traub, G., & Lafortune, G. (2020). Speaking truth to power about the
46 SDGs. *Nature*, 584(7821), 344-344.
47
48
49 Shah, S. (2020) Why Youthful, Conservative Pakistan Is a Coronavirus Bright Spot. *The Wall*
50 *Street Journal*, 1 August 2020, available at: [https://www.wsj.com/articles/why-youthful-](https://www.wsj.com/articles/why-youthful-conservative-pakistan-is-a-coronavirus-bright-spot-11596297600)
51 [conservative-pakistan-is-a-coronavirus-bright-spot-11596297600](https://www.wsj.com/articles/why-youthful-conservative-pakistan-is-a-coronavirus-bright-spot-11596297600)
52
53
54 Stewart, R., Dayal, H., Langer, L., & Van Rooyen, C. (2019). The evidence ecosystem in South
55 Africa: growing resilience and institutionalisation of evidence use. *Palgrave*
56 *Communications*, 5(1), 1-12.
57
58
59 Sweeney, Y. (2020). Tracking the debate on COVID-19 surveillance tools. *Nature Machine*
60 *Intelligence*, 2(6), 301-304.
61
62
63
64
65

- 1
2
3
4 Swilling, M. (2014) ‘Rethinking the science–policy interface in South Africa : experiments in
5 knowledge co-production’.
6
7
8 Van Kammen, J., de Savigny, D., & Sewankambo, N. (2006). Using knowledge brokering to
9 promote evidence-based policy-making: the need for support structures. *Bulletin of the World
10 Health Organisation*, 84(4), 608-612.
11
12
13 van Meerkerk, I., & Edelenbos, J. (2018). *Boundary spanners in public management and
14 governance: An interdisciplinary assessment*. Edward Elgar Publishing.
15
16
17 Watson, V. (2014) ‘Co-production and collaboration in planning – The difference’, *Planning
18 Theory & Practice*, 15(1), 62–76.
19
20
21 Wijsman, K. and Feagan, M. (2019) ‘Rethinking knowledge systems for urban resilience:
22 Feminist and decolonial contributions to just transformations’, *Environmental Science &
23 Policy*, 98(1), 70–76.
24
25
26 Wilkinson, A. (2020) ‘Local response in health emergencies: key considerations for addressing
27 the COVID-19 pandemic in informal urban settlements’, *Environment and Urbanization*,
28 32(2), 503–522.
29
30
31
32 Williams, L.A. (1972). The Urban Observatory Approach: A Decade of Conceptualisation and
33 Experimentation. *Urban Affairs Quarterly* 8(1), 5-20
34
35
36 Zarocostas, J. (2020). How to fight an infodemic. *The Lancet*, 395(10225), 676.
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65