Assembling urban regeneration? Resourcing critical generative accounts of urban regeneration through assemblage

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Abstract
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Keywords
resourcing, regeneration, assemblage, accounts, generative, urban, critical, assembling

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Abstract: In critical urban studies, managed urban regeneration has been linked to trajectories of neoliberalising urban policy and urban entrepreneurialism. While the insights arising from this work have been many and valuable, significant gaps remain particularly in terms of the foci of analysis and the conception of politics. In this paper we aim to address these gaps and to reposition the conceptualization of regeneration as a performed and emergent consequence of ‘relatedness’ and as subject to a range of relational effects and determinations. To do so we work through four capacities of assemblage thinking that are particularly productive for this task: (i) revealing the relational, multiple and processual nature of urban trajectories; (ii) revealing the multiscalar labouring involved in configuring the (socio-material) assemblages that constitute regeneration; (iii) identifying openings for multiple possible trajectories of regeneration; (iv) providing critical insights into how regeneration trajectories are constrained. We conclude with reflections on what assemblage thinking offers in terms of critically and generatively rethinking urban regeneration.
Introduction

Urban regeneration projects are well-established in the repertoire of state responses to deindustrialization, urban-economic restructuring and the perceived need to ‘glurbanise’ cities (McGuirk 2004). Critical urban geography has yielded powerful analyses and searing critiques of the processes and distributional effects of managed urban regeneration, linking it to trajectories of neoliberalising urban policy, urban entrepreneurialism and the competitivization of urban development (Hall and Hubbard 1998; Brenner and Theodore 2002; Ponzini and Rossi 2010; Samara 2010; Rossi and Vanolo 2013). The insights arising from this work have been many and valuable. Yet significant gaps remain, particularly in the foci of analysis and the conception of politics.

Much critical analysis has focused on formal policy mechanisms, integrated masterplanned regeneration strategies, megaprojects and their constitutive political alliances (O’Callaghan 2012). Relatedly, it has worked with a conception of the agents, relations and processes that constitute regeneration that, we argue, can be productively expanded to further critical and generative effect. Methodologically, much regeneration research has emphasised policy review and discourse analysis over the practice-oriented or ethnographic. Consequently, it has been tempted to read off the aspirations of policy and strategy documents as if they have pre-scripted effects on interest-formation, agency and power, related identifications and subjectifications (see Jacobs 2012). Critical accounts have also tended to focus on actors perceived to be in politically and economically authoritative positions and on groups resisting these authorities, downplaying the place of public servants, residents and other actors in the everyday enactment of regeneration, whilst giving little attention to the agentic capacities of the material or other non-human entities. Finally, regeneration politics are often read through the prism of neoliberal urbanism with insufficient attention to their unfolding in and through grounded ‘frictions’ in response to particular problematisations, and in light of the accommodations and negotiations that arise in situ from these (Tsing 2011). In short, too little attention has been paid to how practices interact with formal tools of regeneration and how these local practices articulate with ‘wider processes’ (Farber 2014). Seeing politics through the prism of antagonistic struggle against neoliberalisation has, in turn, limited attention to the politics of negotiation around regeneration’s everyday
practice and the various settlements this involves, including in sites outside “antagonistic constellations” (Farber 2014, 121).

So significant scope for expanding the registers through which urban regeneration is understood, the array of constitutive actors, objects and practices and their relational character, the conception of politics and the multiple sites of political negotiation underpinning regeneration (Fuller 2013). Some critical analyses have begun to explore these expansions (see Ward 2011; Lees 2012; O’Callaghan 2012; Brownhill 2013; Lagendijk et al 2014). In this paper, we build on this work to analyse how assemblage theory can inform an expansive reconceptualization of regeneration to reposition it as a performed, emergent and diversely-constituted practice, enacted in the socio-material ‘frictions’ and negotiations of the everyday. By urban regeneration we refer to area-based interventions—often publicly funded or supported—aimed at producing ongoing improvements in the social, economic and physical conditions of places and communities experiencing aspects of decline (adapted from Leary and McCarty, 2013, 9)¹. Following Lagendijk et al (2014) we approach urban regeneration as an open conception, without assuming pre-defined prepositions about actors, roles, practices, materials or mechanisms but regarding it as assemblage of processes centred on producing the above-mentioned improvements.

We draw on an assemblage approach to envisage regeneration as a gathering of heterogeneous elements, consistently drawn together as an identifiable terrain of action and debate (Li 2007, 266). This, we argue, builds a relational and multiplex conception of regeneration as subject to a range of relational effects and determinations, rather than a strategic project driven by institutional design from authoritative bodies (Allen and Cochrane, 2007). Further, this conception opens out the points of political intervention, allowing regeneration’s often naturalized hierarchies and hegemonic power relations to be unsettled such that more generative capacities and trajectories might be revealed and activated.

¹ Gentrification has come to map closely onto urban regeneration, particularly in its state-led, new-build varieties (Cochrane 2007). Other state-led modalities, many associated with gentrification effects, include waterfront and brownfield redevelopment, mixed-used precincts, investments in public space and infrastructures, cultural investments, and community-led regeneration (see Leary and McCarty 2013).
The paper explores what an assemblage lens offers in terms of critically and generatively rethinking urban regeneration. We explore how assemblage thinking can unpack how regeneration is made and how its being made differently might become a possibility, such that inherited understandings of what constitutes regeneration can be enlarged. Nonetheless, we remain sensitive to the materialisations of socio-economic processes that embed any regeneration process (Swanton 2013). We aim to unsettle taken-for-granted meanings of regeneration, recognize the obdurate relations and materialities that stabilize particular regeneration patterns, yet also suggest analyses that might destabilize dominant framings to reveal more fully its constitutive processes and practices (Müller 2015a). We begin by outlining what assemblage brings to understandings of the urban, before presenting a short vignette drawing from our assemblage-informed research on urban regeneration in Newcastle, NSW, Australia. We then detail four capacities of assemblage thinking that are particularly productive for the critical and generative rethinking regeneration we seek to advance through this work. We conclude by drawing out the political capacity of assemblage for urban regeneration scholarship.

**Thinking the urban through assemblage**

Assemblage thinking has a growing influence across urban studies as analysts appreciate its “highly developed sense of urban complexity, of the unities and disunities of the stabilities and instabilities and especially the complex and heterogeneous networks of connection and association out of which the city as a social and as a physical entity is formed and sustained” (Bender 2010, 317; and see Dovey 2010, McCann and Ward 2011, Acuto 2011, Brownhill 2013, Farber 2014; Lagendijk et al 2014). Assemblage’s relational ontology understands the urban as constituted by constellations of elements configured into dynamic arrangements of relations and composed into “some form of provisional socio-spatial formation” (Anderson and McFarlane 2012, 124). These formations’ appearance as well-ordered and stabilized is a product of the sedimentation and territorialisation of order across heterogenous social and material elements and practices (Legg 2009). Cities are viewed not so much as structured and settled, but as being provisionally assembled as ‘an assemblage of assemblages’ (Dovey 2010; Farias 2011). Despite their seemingly enduring nature, cities and their constitutive processes of re/composition are “alive and brimming with movements, practices, performances and contingencies” (Smith 2003, 38). The city’s multiple assemblages are
conceived as socio-material actor-networks\textsuperscript{2}, in which neither actors nor relations between them are assumed to begin with. Instead a central concern of assemblage thinking is to attend to the “on-going labour of bringing disparate elements together and forging connections between them” (Li 2007, 263). So to talk of assemblage is to talk of assembling through labors, material practices, friction and accommodation (Swanton 2013). The city thus emerges from multiplicity in fragmented, unpredictable and asymmetrical ways (Bender 2010).

Repositioning the city as processually produced and always becoming, assemblage thinking reanimates the urban. It achieves this too by insisting that the social is not the only source of action or basis for explanation; rather, assemblage locates human and nonhuman in the same field of observation and explanation (Jacobs et al 2007; Farias 2010; Farber 2014). If something has effect or initiates action, it is considered an actant imbued with agency: not in a reflective sense but because of its capacity to make a difference though creative or destructive capabilities (Latour 2005; Müller 2015a). Broadening the scope of agency makes visible across the city a host of “unexpected practices from surprising angles” (Farber 2014, 133). Furthermore, assemblage thinking suggests that, while any actor or entity in the urban assemblage may be conditioned by the way it is related to others in an assemblage, it is not fully determined by those relationships. Actors retain their autonomy and can be “detached and plugged into” different assemblages where interactions change and actors’ knowable properties can be repurposed to release different and unpredictable ‘capacities’ by virtue of what they act in relation with in practice (McFarlane 2011a, 653). Together, then, the laboring of assemblage and distributed agency suggest the irreducible possibility that the city might be changed in unpredictable ways to be assembled otherwise (see Anderson et al 2012, 172; Grove and Pugh 2015).

Assemblage thinking, then, seeks to explain the urban through mapping encounters and practices through which the heterogeneous elements constituting the city are assembled. In this sense, everything that matters to the assemblage is related to it in some way and the

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\textsuperscript{2} The synergies between the language and conceptual bases of Assemblage Theory and Actor-Network Theory are frequently commented upon. While there are points of distinction between the sets of theories (Anderson et al 2012) they are often drawn on in tandem and assemblage is taken as a close equivalent of the actor-network (Müller 2015a; 2015b).
ways in which “everyday life... and larger shifts in political economy” are linked can be traced without recourse to a division of the social into macro/micro, near/far, structure/agency dualities (Anderson and McFarlane 2012, 124; Ureta 2014). No aspect of the city’s socio-spatiality can be explained as the contingent articulation of larger macro-structures or extra-local forces. Rather, assemblage thinking’s anti-reductionism locates all on the same analytical plane to reveal how urban assemblages are “stitched into place by fragmented, multi-scaled and multi-sited networks of association” (Jacobs 2006 3). The ‘wider systems of relations’ and ‘structures’ in which the city is entangled become part of how its coherence is made, without being ascribed in advance as abstractions with ordering force. Yet assemblage thinking remains critically alert to the obduracy of particular orderings as relations are stabilised and scripted into urban performances such that differences become bounded and the margins for manoeuvre around interactions and identities become prescribed (Acuto 2011). Thus the potential to actualise different and unpredicted urban trajectories is not unconstrained. Far from it. All possible trajectories are embedded in contextual materialisations of socio-economic processes that have contingently produced uneven relations and resources of power. Indeed, assemblage thinking keeps power to the fore by recognising assemblages as “structured, hierarchized, and narrativised through profoundly unequal relations of power, resource and knowledge” (McFarlane 2011c, 655; Ureta 2014, Müller 2015a).

Of course, the idea of thinking the city through assemblage has been critiqued, often by those concerned with the nature and political effectiveness of critical urban studies. Tonkiss (2011), Brenner et al (2011) and Wachsmuth et al (2011), for example, have parsed careful critiques of assemblage’s theoretical coherence founded on the fluidity inferred by the processual becoming of the city; the rejection of linear causality and notions of pre-formed ‘structural’ bases to urban processes and socio-spatial formation; and the rejection of abstraction in favor of empirical detail. Others have raised concerns about the potential for empirical complexity to overwhelm analysis; the equivalence of human agency and the effectivity of matter implied by distributed agency; the capacity to differentiate actors and networks in terms of their relative power and significance; and whether assemblage seeks primarily to understand how the urban is made, rather than how it can be made differently (see Rankin, 2011; Graham 2010).
We see many of the above critiques, however, as arising from particular applications of assemblage rather than being inherent to its theorization of the urban. In what follows, we present a brief assemblage account of urban regeneration in Newcastle, NSW before working through four specific attributes of assemblage in terms of their potential for rethinking urban regeneration to expand its conception both critically and generatively.

**Assembling urban regeneration in Newcastle, NSW**

Following assemblage’s methodological insistence on starting from empirical detail (Brownhill 2013; McFarlane 2011b), our work on assembling regeneration in inner Newcastle has traced the material practices of actors from state and local government bodies, developers, special purpose taskforces, bureaucrats, consultants and facilitators, business associations, not-for-profits, media, residents, artists, community groups, public transport and cycling advocates, and Indigenous groups. We have traced the role of the non-human from standards, modelling and funding formulae, heritage and architecture, maps of sites under-mined by historic mining shafts and grouting used to render undermined sites developable, and visualisations of a ‘renewed Newcastle’ circulated through public consultations, reports and strategy documents. We have observed practices from strategic planning and development, securing planning approvals, decision making around public infrastructure dis/investments, public consultation, visioning events and workshops, protest and lobbying, to negotiating, enabling temporary occupation of vacant commercial sites, and a multitude of small scale community and private sector-led ‘place-making’ activities. We have traced the constitution and contestation of central regeneration concepts such as livability, sustainability, decline and renewal and their differential discursive mobilisation and material rendering by differently located actors.

The accounts we are producing are unpacking the labours, negotiations and settlements involved in creating and maintaining relationships of authority between the NSW state planning and transport authorities, UrbanGrowth (NSW government urban regeneration body), Newcastle City Council, Hunter Development Corporation (regional economic development body), Newcastle Now (Business Improvement Association) and GPT, a largescale developer at the heart of plans to redevelop major sites along inner Newcastle’s...
main thoroughfare, Hunter St. They are revealing how existing hierarchies, distributions of
resources and knowledge, have secured core decisions around planning and infrastructure
investments/disinvestments in the city: notably to remove the city’s heavy rail line, in face of
strident public disquiet, to allow the release of land with rich development potential
(Ruming et al 2016) and to approve a major GPT/UrbanGrowth high-rise redevelopment
project on Hunter St. Yet they are also revealing the assembling of actors and practices that
have enlivened quite a different regeneration trajectory and vision for the city. They explore
how GPT and UrbanGrowth have negotiated with Renew Newcastle—a non-for-profit
dedicated to finding short and medium term uses for vacant buildings in Newcastle’s CBD—
to allow access to city-centre premises by small scale ventures by small businesses, artists,
retailers, community-based organisations that have effectively rematerialized the inner city
and its affective resonances. The success of these ventures in drawing people into the city
centre is connected to a multiplicity of ‘placemaking’ projects, many co-funded by Newcastle
City Council, which have transformed small spaces in the city through street furniture,
graffiti and artworks, community gardens, temporary cultural uses and events. Together
these have produced both an new affective experience and, in a counteractualisation
(Lagendijk et al 2014), a groundswell of support for a smallscale, piecemeal variety of
‘regeneration’ that can coexist with the city’s existing built environment of heritage listed,
low rise buildings. This support took material form in NICRA, a group formed to lobby—using
affective material strategies (see Figure 1)—for a low-rise, heritage-sensitive form of
regeneration. At the time of writing, the GPT/UrbanGrowth proposal had just been
redesigned, with much reduced commercial space and building heights, restored street level
shops, cafes and public space. Meanwhile, in the same week, the work began on physically
removing the city’s heavy rail line and debate continues on what role the released land will
play in the ongoing assemblage of a regenerated Newcastle.

**Assembling urban regeneration: capacities for critical and generative rethinking?**

Our account above is informed by four distinctive analytical capacities of an assemblage lens
that allow regeneration to be conceptualised as a diversely constituted practice enacted in
everyday materiality, as well as discursively and ideologically, and as produced through
multiscalar relations that need to be configured, negotiated and stabilized across an array of
social and material, authoritative and non-authoritative domains. These capacities make
known the variety of forces and relations at work to make urban regeneration possible, the 
excess of capacities and multiple trajectories this generates and, crucially, the ways these 
trajectories may be constrained.

(1) **Revealing the relational, multiple and processual nature of urban regeneration**

Assemblage understands the urban—and hence its regeneration—as multiplex (Farías 2011, 
369; O’Callaghan 2012). Interlocking multiplex processes operate simultaneously to 
regenerate the city: eg developing land and buildings; providing and maintaining 
infrastructure; shaping political identities and interests; fashioning and participating in 
political processes; governing social behaviour and engaging with the city economically, 
socially and culturally. These processes can interact and transform each other. They can 
work in counterpoint and to multiple timelines (eg largescale state-led mega projects vs 
smallscale incremental placemaking practices) (O’Callaghan 2012). Moreover, they involve 
their own modes of ordering that circulate simultaneously and are composed of diverse 
socio-materialities. Consider the actors, devices, materials and social practices drawn into 
relation in regenerating the urban built environment: developers, architects, heritage 
advisors, media, engineers, builders, bureaucrats, planners, residents, politicians, materials 
standards, building codes, environmental regulations, geotechnical reports, strategy and 
planning documents, concrete, glass and steel, designing, strategising, negotiating, planning, 
promoting, consulting. The diverse assemblages these constitute cannot be reduced to any 
single logic, temporality or spatiality (Fuller 2013).

The implications of assemblage’s orientation to relationality, multiplexity and processuality 
for accounts of urban regeneration are profound. Conventional analyses have tended to be 
restricted to a limited array of processes thought to be central to structuring social relations 
of dis/investment; strategic visioning and policy making; political decision making; land and 
building redevelopment processes; and the operation of related power relations, social 
realignments and dislocations. This risks subsuming the multiplexity, multiplicity of entities 
and socio-material practices that are assembled and associated to enable regeneration 
(McGuirk et al 2015). Assemblage thinking’s stance on the city as a relationally crafted 
multiplex informs its exploratory style of inquiry that works empirically from the ground up, 
rather than as a form of critique guided in the first instance by theoretical abstractions
(Farías 2011). Figured as such, urban regeneration becomes the contingent achievement of socio-material processes and specific, concrete and differentially sedimented relations between diverse entities that iteratively and cumulatively shape regeneration trajectories (Swanton 2013; O’Callaghan 2012). Regeneration becomes an ongoing event potentially assuming multiple forms and multiple points of determination (Farías 2011; Jacobs 2006).

(2) Revealing the multiscalar labouring involved in the (socio-material) assembling that constitutes urban regeneration

Assemblage’s focus on the labours of assembling demands a baroque understanding that embraces the empirical messiness and complexity of phenomena (Jacobs 2006). This ethos repositions conventional appeals in critical urban studies to (i) abstraction (ii) articulations of ‘micro’ and ‘macro’ factors and (iii) singular logics of causality, in ways that lay the ground for reconceptualising the nature and potential trajectories of regeneration.

Resisting abstraction:

Rather than seeking social-structural explanations of regeneration related to the dynamics of capitalist dis/investment flows, urban restructuring, or the political projects of neoliberalism, assemblage has us approach these processes from within, through exploration of the variegated practices and processes of ‘how things happen’ as regeneration is achieved (Farber 2014; McFarlane 2011b). Tracing ‘how things happen’ deals with the ‘difficulty of things’ (Dovey 2010, 348) without relying on abstract conceptions of processes (eg capitalist investment imperatives) or pre-formed social categories (eg state or private sector) that can occlude attention to process and practice prior to their investigation (Acuto 2011, Müller 2015a). ‘Investment imperatives’, ‘commodification of place’ or the actions of ‘the state’ cannot be explained as the outcomes of underlying or essential logics of capitalism or neoliberalism, but only as effects of “socio-material processes; as contingent achievements enacted in particular sites” (Swanton 2013, 284). While these conceptions and categories themselves remain useful, they function in assemblage as reflexive heuristic devices whose contextual constitution has to be “studied as they operate in the world” revealing “the work of connection” necessary for them to be effective (Tsing 2011, 6). Assemblage thinking both unsettles processes and categories traditionally foregrounded in critical analyses of regeneration and expands the array of constituent practices taken into account. Simone (2011), for instance, suggests that processes of domination,
commodification and dispossession—abstractions commonly invoked to critique the power
relations and outcomes of regeneration—might be extended to consider the workings of the
iterative, collaborative and adaptive to reveal regenerations’ dynamics and multiple
negotiations.

Resisting micro/macro binary articulations: In conventional critical regeneration analyses,
abstraction is closely related to the analytical move of interpreting local conditions in terms
of macro forces and extra-local determinations that fashion outcomes as contingent
articulations of wider processes and structures. Comparatively, assemblage blurs the division
of the social such ‘macro-structures’ or ‘extra-local forces’ are not separable but must be
understood as part of the relations and dynamics that produce regeneration across
multiscaled practices (Farías 2011). This demands a focus on particular sites through which
regeneration assemblages are composed and enacted, connecting across sites and scales:
for example, creating knowledge through expert reports sourced from global consultants;
engaging communities in small-scale placemaking projects to enhance material landscapes;
attracting development corporation investments in built environment projects; designing
and enacting financial incentive schemes. This focus opens out analysis to incorporate the
multiple scales and temporalities across which labours of assembling occur.

In addition, the focus on labouring foregrounds ongoing, negotiated socio-material practices
through which regeneration assemblages are composed by relating materialities,
technologies, objects, natures and humans (Farías 2010, 13): for instance, circulating
imagery of a regenerated ‘future city’; rehearsing performative routines of consultation
between authoritative regeneration actors and community members; engaging residents in
the emergent socialities of regenerated landscapes. Accounting for the labours needed to
shape and enact particular kinds of regeneration can be uncovered through this focus,
bringing in the ‘forgotten many’ (Jacobs 2006) of the affiliations that form around
regeneration processes to give it the appearance of coherence. Excavating this laborious
assemblage attends to an array of multi-scaled socio-material practices that reveal the
claims made of urban regeneration, how these claims materialize, and how they harness
other processes in order for regeneration to take on specific forms and functions.
In these ways, assemblage thinking speaks to power geometries articulated at multiple, intertwined scales and to specific socio-materialities as they translate in particular urban sites and practices that enable regeneration (Acuto 2011). Critically, this allows us to observe how urban regeneration is written into ‘big stories’—of globalisation, urbanisation, capitalist development, neoliberalisation—by tracing chains of meaning and practice that are pieced together in situated encounters, whereby ‘wider processes’ become practically effective by being mobilised to appear as universals that frame the practice of power. It also allows us to capture the negotiations, collaborations and compromises—the ‘frictions’—these generate in place, as well as the new alignments (including in culture and power) and the ‘structures of confinement’ and opportunity these produce (Tsing 2011).

Resisting singular logics of causality:

Assemblage’s lack of reliance on abstractions or scaled ideas of *a priori* ‘structuring’ macro processes means that causal or determining power cannot straightforwardly be ascribed to given ‘structures’, scaled political economic orderings or social categories (such as ‘the state’). These are repositioned instead as mediated socio-material achievements made in differential enactments. And these enactments are performed in overdetermined contexts shaped through “deeply unequal relations of power, historical traces... practices of routine, struggle and improvisation within particular sites” (McFarlane 2011a, 386). Assemblage, then, has us examine how causality is realised, in place, through relational configuration and recognizes that “the creative reworking of relations in motion may render causality multiple and indeterminate” (Anderson et al 2012, 183). This does not deny causal power to actors, though it insists that this cannot be pre-determined (Cupples 2011). Applying this understanding allows for critical and generative analysis of regeneration, capable of exploring how its situated assembling mediates ‘broader’ socio-economic processes (global competition, neoliberal urban governance) and, simultaneously, generates its own causal powers to enact different forms of agency and generate different realisations of processes (domination, adaptation, negotiation) (McFarlane, 2011c). Assemblage thinking’s insistent focus on specific sites of practice and the labours of composition underlies a fluid and unfinished conception of regeneration as always in-the-making.

(3) Identifying openings for multiple possible trajectories of urban regeneration
A focus on the labours of composition focuses on how urban regeneration assemblages are ordered and stabilised but, equally, with how composition might entail unpredictable change and reassembly. An entity may be “plugged into” a different assembly such that its knowable properties are productive of different capacities. For instance, a policy document staking claims to the livability of regenerated spaces might be mobilised by developers to advance high-density transit-oriented development or, alternatively, by local communities to advocate nurturing local architectural qualities and medium-density streetscapes (Kraftl 2014). Assemblage can thus open out the multitude of possible capacities realized in enacting regeneration, though these are only realised within particular confederations in which urban subjects and objects can perform in multiple ways depending on the sociotechnical networks and sets of practices involved (Farías 2011, Grove and Pugh 2015).

Through this register of thinking, regeneration can be reconceived as a series of relational sites of “doing, performance and events...subject to material, performative and discursive change through relational processes, such as new actors infringing on existing formations” (McFarlane 2009, 562). Remove or lose one entity from an assemblage or add another and the structure of possibilities changes as each new alliance unleashes unpredictable associations and previously under-tapped capacities. Through such shifts, stabilised relations might be reinscribed in meaning and function and actors can take on different social/political attributes (eg politicians or community leaders; council meetings; transit systems; consultation sessions) (see Jacobs et al 2007, Cupples 2011).

These aspects of assemblage thinking open up more careful consideration of the constitutive, generative, reiterative and (potentially) transformative associations of regeneration insofar as what regeneration can be/come is never fully stable or well-bounded. Its elements are multiple, its capacities are immanent, contingent and emergent (Ruddick 2012) and so its trajectories are never fully settled but always open to the possibility of reordering associations, and hence capacities, to create dynamic potential for innovation, novelty and differentiation (Allen and Cochrane; 2010; Jacobs 2012).

Assemblages of urban regeneration need to be viewed, to paraphrase O’Callaghan (2012, 1937), as one potential trajectory that also incorporates multiple other trajectories and possibilities.
This assemblage-inspired reconceptualisation of regeneration provides analysts a capacity to explore how received, sedimented relations (from property relations to affective resonances between human actors and specific built landscapes) might be enacted differently. As Suchman says (2012, 57-58), it can “reanimate the figures that populate our socio-material imaginaries and practices, to examine the relations that they hold in place and the labours that sustain them, and to articulate the material semiotic reconfigurations required for their transformations”. A further step in reanimation lies in bringing into view the nonhuman capacity for agency; for instance, the potential for materials to force an assemblage out of its current configuration and to “jump into trajectories that are neither foreseeable nor controllable” (Henry and Roche 2013). We might consider, for instance, how the material characteristics of a regeneration site—soil qualities, flood liability, construction materials, or the resonances of its built environment with particular cultural affinities—do particular kinds of work to ignite certain regeneration possibilities, constrict others or take unanticipated directions (Harris 2013). Similarly, we might consider the capacity of particular visualisation devices to trigger affective community claims in support or opposition to particular visions of regeneration. This wider prism can account for the diversity of forces at work by making visible the various human and non-human alliances that create regeneration. But it also allows the complexity of processes involved, as these alliances connect the embodied, technical, practical and affective become available for analysis (Jacobs 2008). Such analysis is resourced by assemblage thinking to traverse categorical boundaries (human/artifact, social/natural) and to prise open processes, categories and blackboxed accounts of their dynamics (Acuto 2011; Müller 2015a). Thus it can foreground the ontological possibilities of multiple trajectories and indeed the potential for particular alternatives.

**Providing critical insights into how urban regeneration trajectories are constrained**

Assemblage’s capacity to explore the potential for regeneration trajectories to be unsettled is highly productive and underpins a generative politics. Yet its equal orientation towards the obduracy of particular orderings provides crucial insights for exploring how multiple potential trajectories of regeneration assemblages are constrained as powerful forces “caricature, restrain, restrict and police other objects” (Shaw 2012, 623) such that only “certain common projects...become visible and sayable” (Gidwani 2008, 101), certain actors accrue hegemonic status capable of defining and structuring relations, and certain urban
assemblages get to hold together (Ureta 2014; Fuller 2013). Yet the practice of power
relations is not simple. Different agents within an assemblage possess different resources
and capacities to act, but these do not straightforwardly translate into power. Rather, power
relations are “a performative work in progress...(shaped) through interactions with other
nonhumans, human bodies, institutions, emotions, discourses, and ideas and through the
overlapping of different networks” (Cupples 2011, 940). Hegemonic actors—from global
development corporations to state authorities—or ideologies—from neoliberalism to
creative cities—therefore become (or remain) powerful through situated material-semiotic
and performative configurations.

So assemblage accounts of urban regeneration fully recognise the effects of power, but
explore it through ethnographies of power geometries wherein that power is assembled in
practice (Acuto 2011, 256, Bender 2010). Such analyses resist preconfiguring the power
relations of a particular assemblage, but are poised instead to reveal how some actors
become capable of problematizing, mobilising and enrolling actants such that distinctive
geometries unfold across the socio-material and across articulations of the ‘macro/micro’.
They might trace how, for instance, global formulae for developer profit ratios are
associated with floor space ratios in land use zones in regeneration masterplans, how these
are represented in visualisations that attempt to shape orders of value about future
regenerated urban landscapes, and how these visualisations affectively resonate with
differentiated local communities’ conceptions of worth, or are subverted by them as
culturally implausible (Farber 2014). Power, then, is an achievement that must be, and often
can be, reasserted through the complex coordination of socio-material practices (Ureta
2014). Assemblage provides refined means for excavating the mechanics of power behind
regeneration, revealing empirically how sedimentation, repetition, habit and hierarchised
relations are materialised to enhance or restrict the capacity of certain regeneration
trajectories.

Exploring how urban regeneration trajectories reflect the reproduction of enduring political-
economic power hierarchies, the replay of habitual resource distributions, and the
reassertion of socio-material orderings, is both critical and generative. It reveals the
relational, socio-material dynamics wherein certain capacities and trajectories are prevented
from being activated. As Shaw (2012, 621), puts it “worlds are ... for the most part stable and do not exhibit monstrous contingency...the world is stabilised, anchored”. Applied to urban regeneration, assemblage analytics provide insight into the forging of such anchorings in situated encounters where ‘wider processes’ are translated through negotiations, collaborations and compromises. They excavate how the ‘frictions’ in place forge “structures of confinement...that) inflect historical trajectories, enabling, excluding and particularizing” (Tsing 2011, 6). While assemblage analytics refuse to attribute the obduracy of particular assemblages to linear causality and determination (Fuller 2013) they reveal assemblages as arrangements that “create agents...allowing us to trace relationships of domination as they are dynamically established” (Caliskan and Callon 2010, 8-9). This insight reveals how ‘structural processes’ are shaped through obduracy and enabled to repeatedly ‘stitch in’ patterns of outcomes (Jacobs 2008).

‘Structures of confinements’ in urban regeneration are difficult to unpick as they shape new interests, identities and trajectories that are differentially beneficial. Assemblage analyses’ excavation of the relational, socio-material dynamics behind this formation unsettle categories, processes and hierarchies, questioning their naturalisation as hegemonic, and opening them out as potential points of political intervention, revealing contingency and possibilities for reassembly (Müller 2015a). For our purposes, this is a key capability for a critical and generative rethinking of urban regeneration, sensitizing us to the means by which potential trajectories are channeled and contained. Assemblage thinking allows us to recognize both potentialities and vulnerabilities, and where these are closed down via particular materialisations of power and inequality in which not all potential outcomes are equally possible (Ureta 2014, Müller 2015a).

**Conclusion**

As assemblage thinking has become widespread in human geography, debate has proliferated about its workings and worth. Our gravitation towards assemblage is informed by a commitment to reconceptualising urban regeneration to advance critical and generative

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3 Li (2007, 270) points out that assemblages “cannot be resolved into neat binaries that separate power from resistance, or progressive forces from reactionary ones. It is difficult to determine who has been co-opted and who betrayed. Fuzziness, adjustment and compromise are critical to holding assemblages together”. 


accounts. Assemblage-inspired research provides a political edge in taking us beyond hegemonic categories of powerful actors, structured notions of power relations and ‘universals’ such as globalisation, competitive urbanism and market forces as drivers of regeneration (Müller 2015a). It questions the naturalisation of these categories and forces. Rather than seek to expose this naturalisation through critical deconstruction, it aims to lay out contingent assembly and reveal the conduits that provide stability and unity to hegemonic assemblages by mapping the socio-material creation of categories, frames and structures and rendering them open to political challenge. As Bender (2010, 3005-6) argues, “if the actornetwork is a multiplication of the number of actors then there is also an increase in the number of contingencies and points of potential intervention thus increasing opportunities for responsible action”. This is central to the critical and generative capacities of assemblage accounts of regeneration to enliven our sense of its possible pathways and take hold of the politics that reside within (Shaw 2012, Anderson et al 2012).

So assemblage points urban regeneration analysts to the possibilities of its processes to engender outcomes other than the systematic regressive redistribution of wealth and power, extension of private property rights, and creation of exclusionary, gentrified urban landscapes. It provides conceptual mechanisms—most particularly those examined here—that enable the reconception of actually existing urban regeneration to expose the constitution of its trajectories and “to search out new vantage points (and) make operative undiscovered capacities that are latent” (Ruddick 2012, 211). These conceptual mechanisms reveal how institutional processes that govern regeneration (eg masterplanning, public consultation, public private partnerships)—while they might reflect extant power relations in their attempts to achieve certain strategic purposes and craft particular urban subjects and materialities—cannot fully determine outcomes. Nor can they fully contain the potential for entities to slip out and become aligned with other configurations, overlap with other processes, suggest different identities, trigger other events or create unpredicted capacities that destabilise imagined trajectories (Grove and Pugh 2015). Furthermore, assemblage’s recognition of materiality and its agentic capacities opens out the array of actants and forces thought capable of animating regeneration outcomes. Without pre-emptively falling back on existing categories of analysis or purely instrumental understandings of material, it allows for the capacities of ‘things’, technical devices or material practices to open up new objects
and sites of politics and to transform the issues and claims that can be bound to
regeneration or contested around it (such as collaboration, de commodification,
commoning). These take us beyond the hegemonic actors and forces habitually recognised
and enable us to recognise the emergent and the potential in new animating objects, new
juxtapositions, new capacities and new knowledges of regeneration (Müller 2015a).

This is not an analytics of assemblage bereft of politics (Jacobs 2012) but an explicitly
strategic and politicised assemblage thinking that might inform strategic forms of assembling
aimed to counter attempts to govern for particular interests and arrangements of power
that prevent movement towards more ‘emancipatory assemblages’ (Ruddick 2012). This
might take the form of tracing instances where outcomes are progressive and where power
flows change, and articulating the socio-material practices and relational workings involved
including the settlements reached between informal actors and those in nominally
hegemonic roles. Insofar as we can intentionally control the agentic cuts our academic
interventions actually achieve once they are in circulation (Greenhough 2012), assemblage-
inspired accounts can resource strategic knowledge production to be put to work to
galvanise and inform strategic action by various publics (activist, community, governmental,
hybrid) that seek transformative engagements to enliven alternative trajectories of
regeneration and to advance political and material strategies to stabilise these attempts
(Bender 2010; Russell et al 2011). In this way, assemblage-inspired accounts can resource
bringing people, things and knowledge together to energise the purposive creation of urban
regeneration assemblages aimed to claim authority in the fields of decision-making that
shape urban regeneration and it possibilities (Müller 2015b, Iveson 2013).

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Figure 1. NICRA used balloons to simulate the height of proposed towers, counterposed against the city’s predominantly low rise built environment.

Source: Newcastle Herald