

Unlocking the potential of sustainability transitions to make cities more just and liveable

Dabrowski, M.M.

Publication date

Document Version Other version

Citation (APA)

Dabrowski, M. M. (2021). Unlocking the potential of sustainability transitions to make cities more just and liveable. Paper presented at Urban Studies Foundation's seminar - Climate Urbanism, Glasgow, United Kingdom.

Important note

To cite this publication, please use the final published version (if applicable). Please check the document version above.

Copyright

Other than for strictly personal use, it is not permitted to download, forward or distribute the text or part of it, without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license such as Creative Commons.

Please contact us and provide details if you believe this document breaches copyrights. We will remove access to the work immediately and investigate your claim.

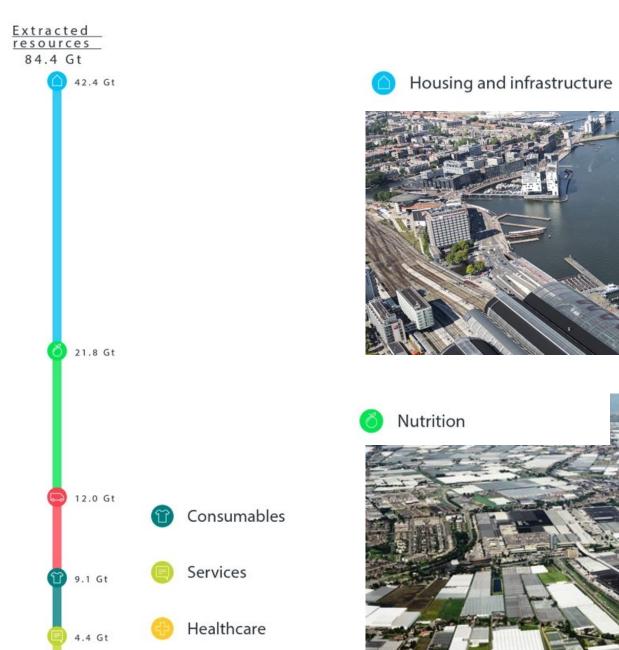






Cities as culprits

- Cities and global urban population set to grow
- ~75% of global greenhouse gas emissions produced in cities
- Main consumers of resources and materials (60-80%)

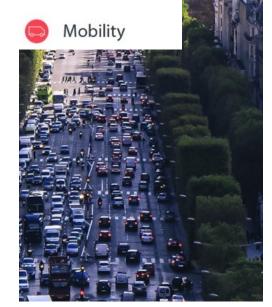


Communication

2.3 Gt

1.7 Gt





Cities bear the brunt of climate change impacts

Growing population and assets exposed

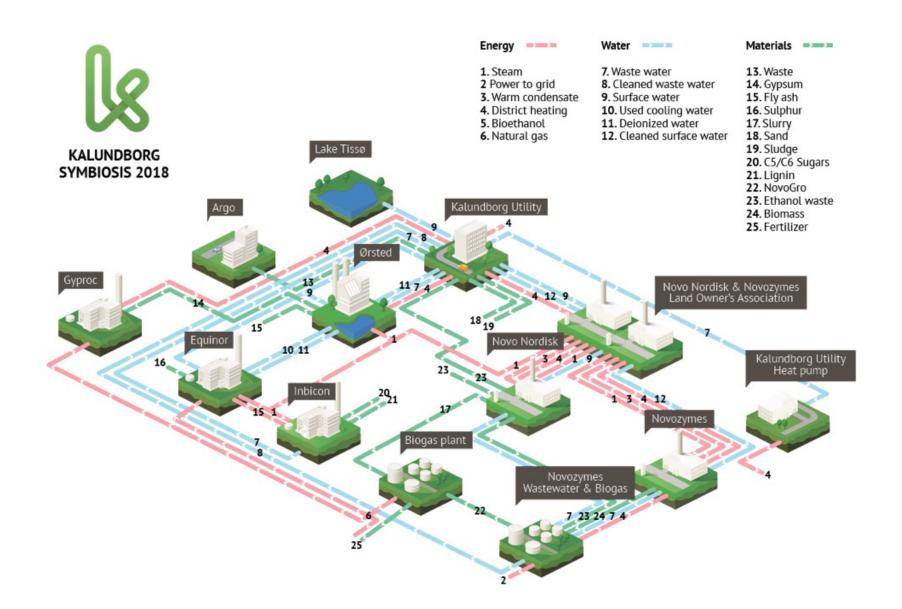
 Uneven vulnerability and adaptive capacity: North/South, formal/informal, poor/affluent

(e.g. Hallegatte et al. 2013; Long & Rice, 2019; Anguelovski et al. 2019; Castán Broto et al., 2020)





https://www.ellenmacarthurfoundation.org/case-studies/effective-industrial-symbiosis















Core circular jobs clustered around industrial areas

CIRCULAR EMPLOYMENT IN THE AMSTERDAM METROPOLITAN AREA Urban centres cluster circular employment

AMA

Total circular employment

0-250 250-750 750-1500

1500-3000

The map presents the spatial distribution of circular employment per district of the AMA (at the level of foun-digit postal codes). All circular jobs are included: core, enabling and indirect. The number of circular jobs per neighborhood varies from 0 (often in sparsely populated rural areas) to more than 3,000 (in densely populated areas, industrial sites and business parks). The cons indicate hotspots of employment by key circular element.





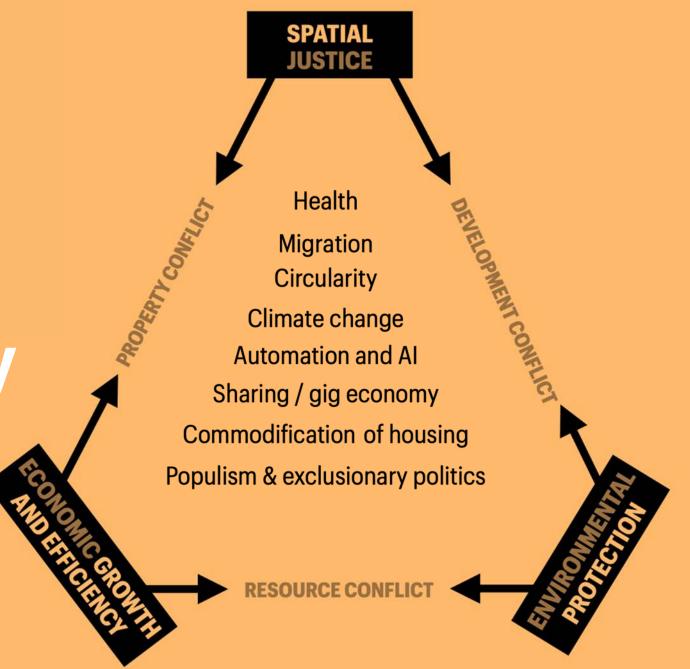
- Sustainable urban development, but for whom?
- Uneven distribution of benefits and burdens, but also uneven partcipation (spatial injustice)
- Hedonistic sustainability, sustainability for growth, exclusionary displacement and gentrification...





Conflicts around urban sustainability set to intensify





Source: Adapted from Campbell, 1996

Overlooking the social

- Neglecting the social needs, inequalities, and potentials for shift towards more inclusive climate urbanism
- Need for translation of complexity into tangible choices for the citizens
- Lack integrated strategy-making cutting across the three pillars of sustainability



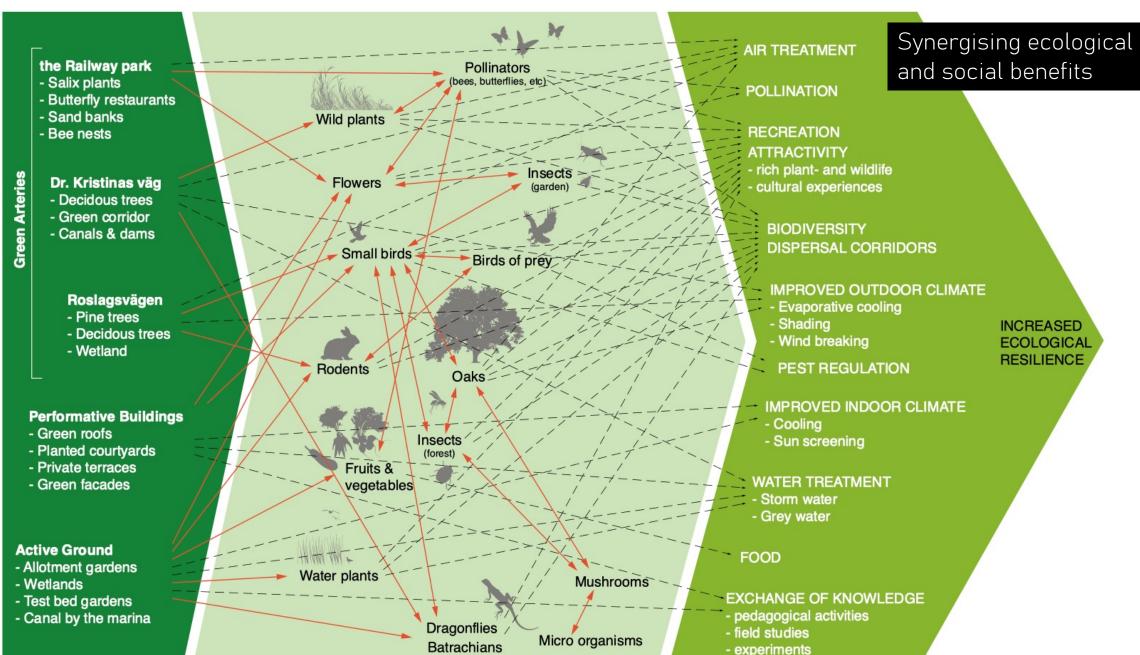
"The current environmental focus of the circular economy is a limitation.
Achieving a just transition to the circular economy requires attention to all aspects of the triple bottom line."

(Circle Economy, 2021, p.4)

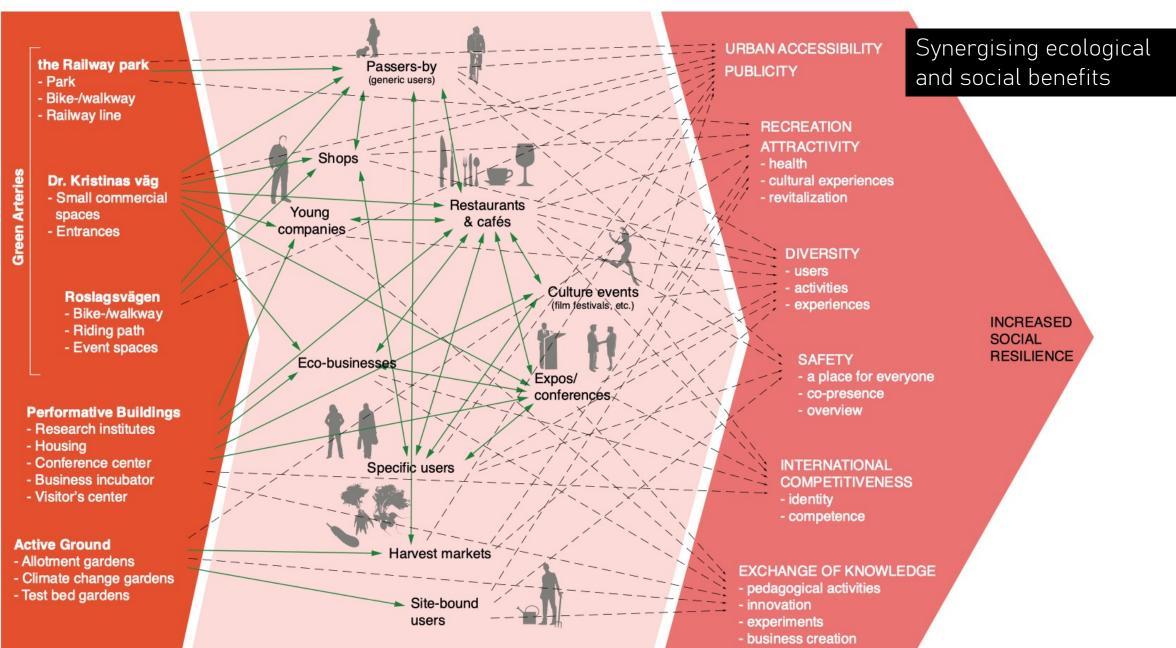




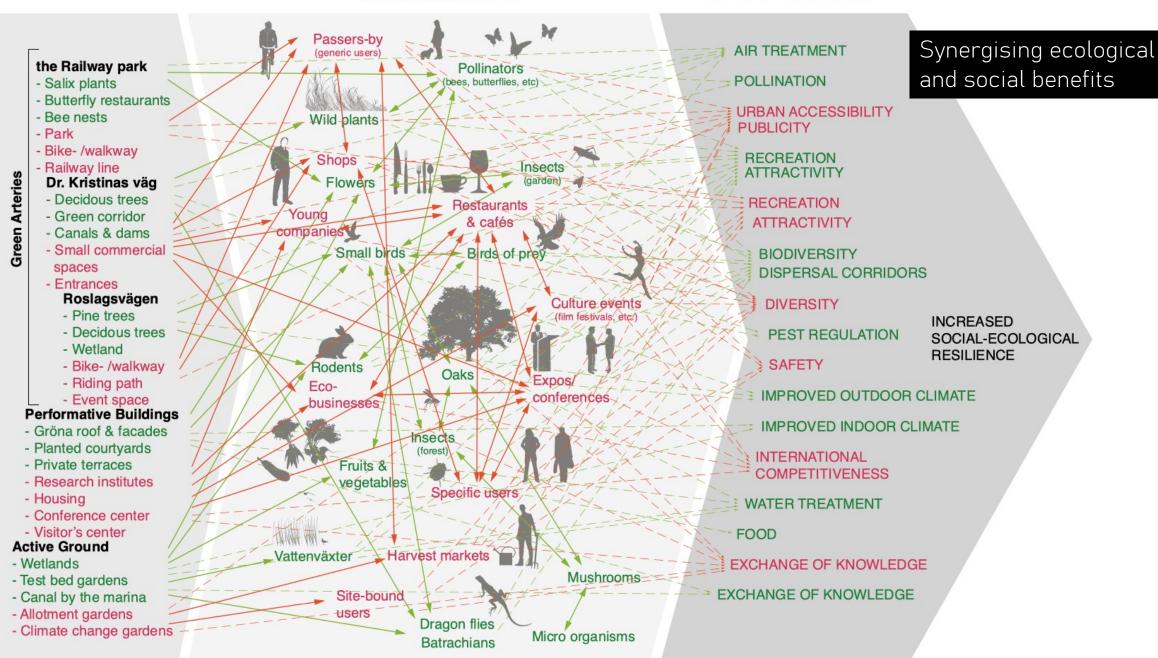




& Colding,



an & Colding, Johan & s & Torsvall, Jonas. (2 s, Stockholm.



& Colding,



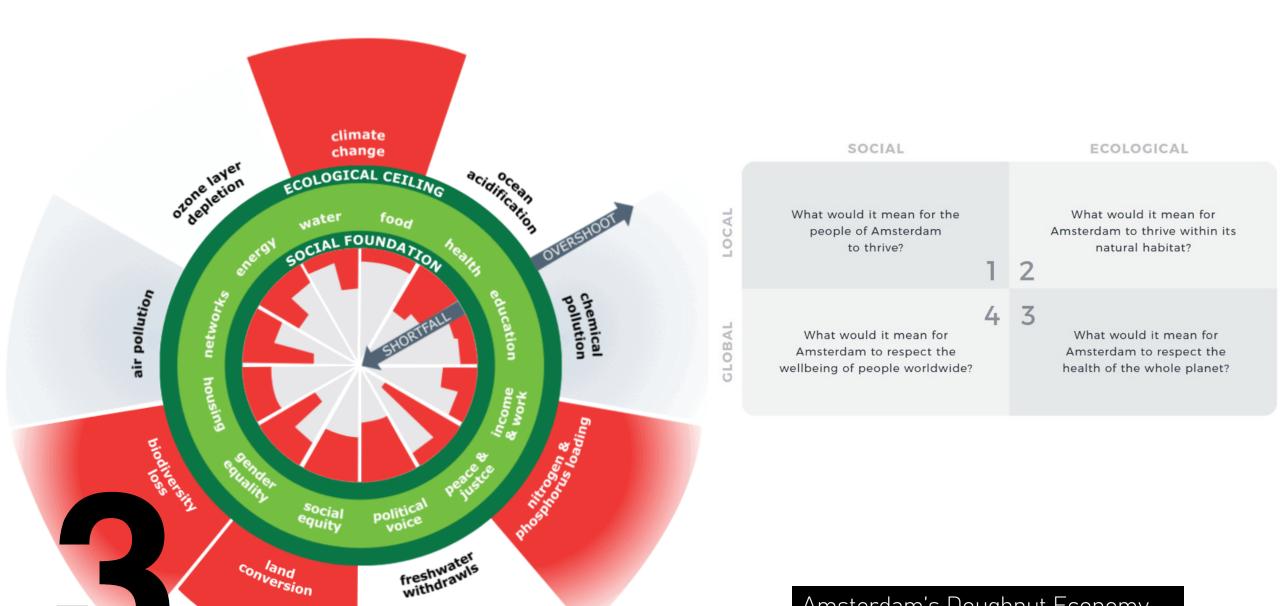




Walking route

Community Center

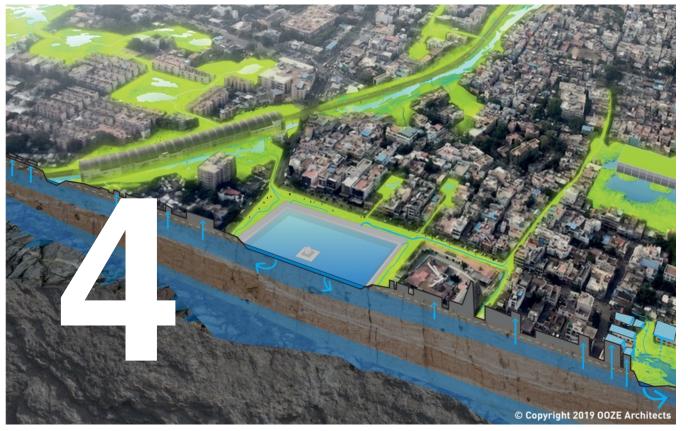
Daily Market

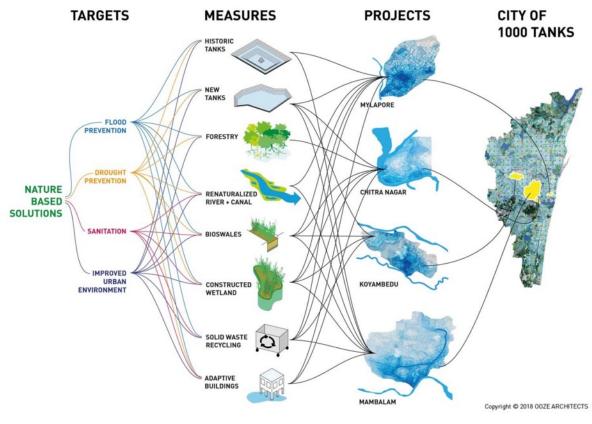


Amsterdam's Doughnut Economy model and monitoring system

City of 1000 Tanks proposal for Chennai – linking spatial justice with water resilience, nature and traditional infrastructures and practices through co-creation









2.Operationalising co-creation and boundary spanning to revamp urban governance

3.Rethinking communication (through stories, design)

5.Stewardship and coalition-building

6.Exposing and preventing displacement and exclusionary politics

7.Recognise and harness the informal innovations and knowledge



References

- Anguelovski, I. et al. (2019). Opinion: Why green "climate gentrification" threatens poor and vulnerable populations. *Proceedings of the National Academy of Sciences*, 116(52), 26139–26143.
- Boudouaya, O. (2020) Casablanca, Coexistance of Contrasts. Towards a circular development approach to integrate les
 bidonvilles within the city. Delft: TU Delft.
- Campbell, S. (1996). Green cities, growing cities, just cities?: Urban planning and the contradictions of sustainable development.
 Journal of the American Planning Association, 62(3), 296-312.
- Castán Broto, V., & Bulkeley, H. (2013). A survey of urban climate change experiments in 100 cities. *Global environmental change*, 23(1), 92–102.
- Castán Broto, Vanesa, Robin, Enora, & While, Aidan. (2020). Climate Urbanism: Towards a Critical Research Agenda. Palgrave MacMillan.
- Dąbrowski, M., Stead, D., He, J., Yu, F. (2021), Adaptive capacity of the Pearl River Delta cities in the face of the growing flood risk: institutions, ideas and interests, Urban Studies https://doi.org/10.1177/0042098020951471
- Frantzeskaki, N., Broto, V. C., Coenen, L., & Loorbach, D. (Eds.). (2017). Urban sustainability transitions. London: Routledge
- Hallegatte, S., Ranger, N., Mestre, O., Dumas, P., Corfee-Morlot, J., Herweijer, C., & Wood, R. M. (2011). Assessing climate change impacts, sea level rise and storm surge risk in port cities: a case study on Copenhagen. *Climatic change*, 104(1), 113–137.
- Long J, Rice JL. (2019) From sustainable urbanism to climate urbanism. Urban Studies. 56(5):992–1008.
 doi:10.1177/0042098018770846
- Wolfram, M., & Frantzeskaki, N. (2016). Cities and systemic change for sustainability: Prevailing epistemologies and an emerging research agenda. Sustainability, 8(2), 144.