

UKBEAG UK Built Environment Advisory Group





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Knowing me, knowing you – a Zoom poll









Three takeaways

- 1. The way governments are funded and financed matter
- 2. Funding does not equal Financing
- 3. Matching funding (as best possible) to project economics there is no one size fits all!

P.S (I promise to do this with only one slide of economics)

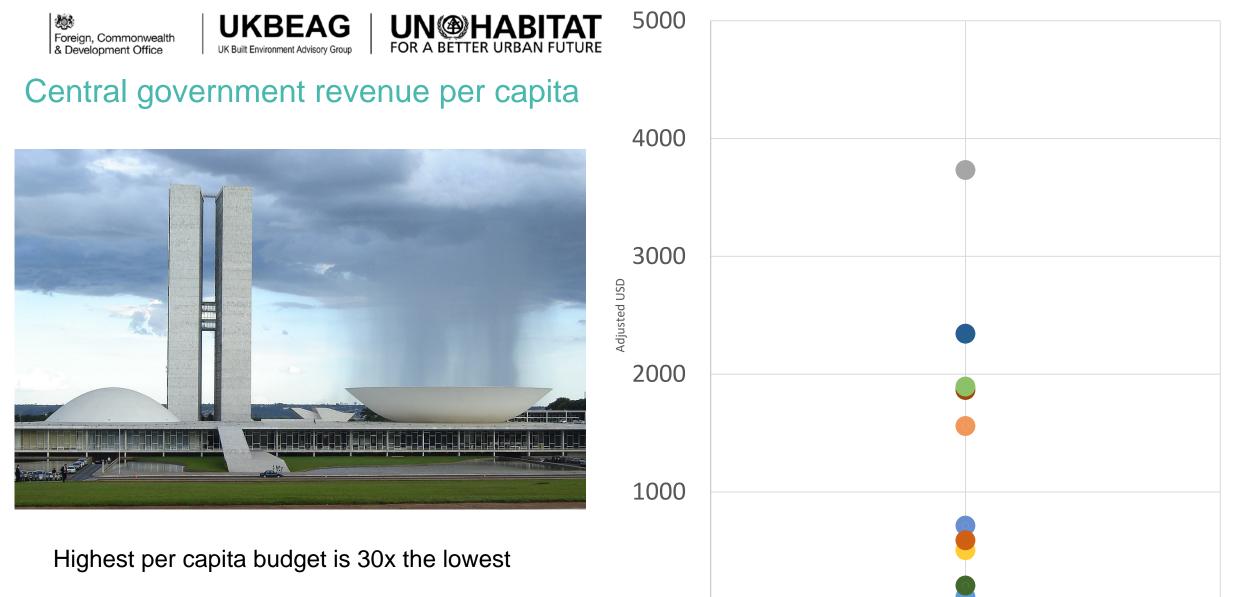




Plus echoing three of my colleagues' takeaways

- Paul Collier 'National objectives are delivered in cities. **Empowering cities makes sense for** central government.'
 - (So we need to finance them)
- Shahrukh Wani Intergovernmental collaboration is essential
 - (Most cities will struggle to finance a lot of projects themselves, need to find common ground)
- Vicky Delbridge Utilising evidence based design and project feasibility showcases what works which can help attract finance and investment
 - (Data can reduce the risk, uncertainty and hence cost for investors / lenders)

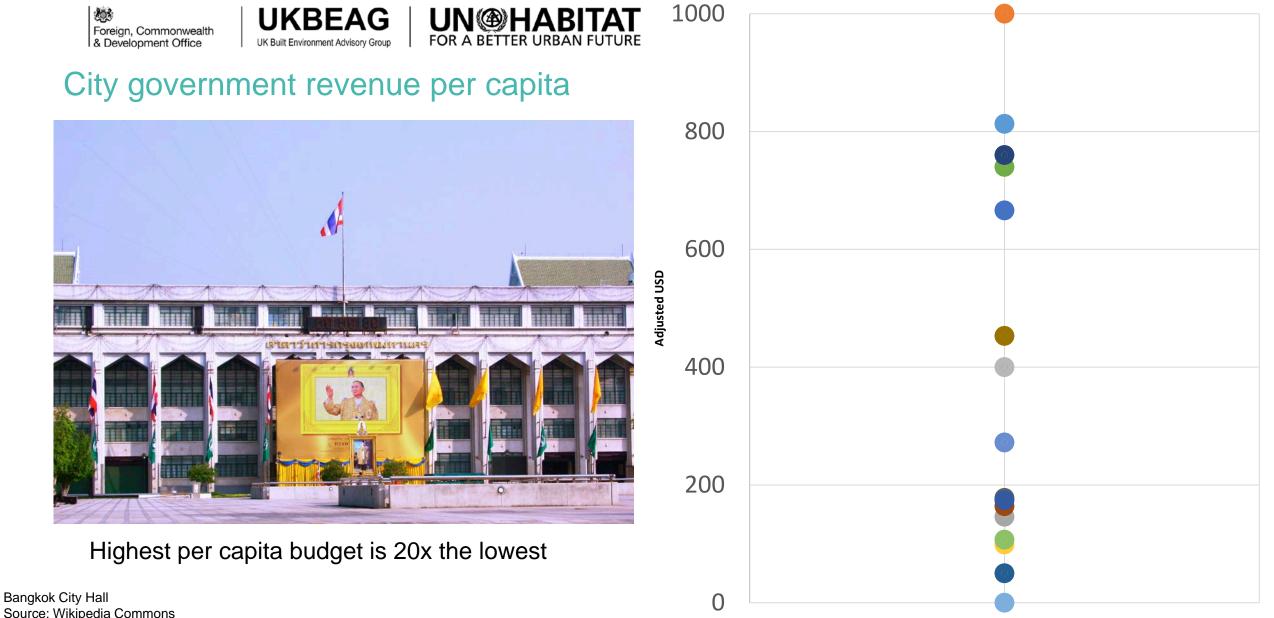
Government budget per capita



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Brazilian National Congress Source: Wikipedia Commons

City budget per capita



Source: Wikipedia Commons







Three pillars of local government finance



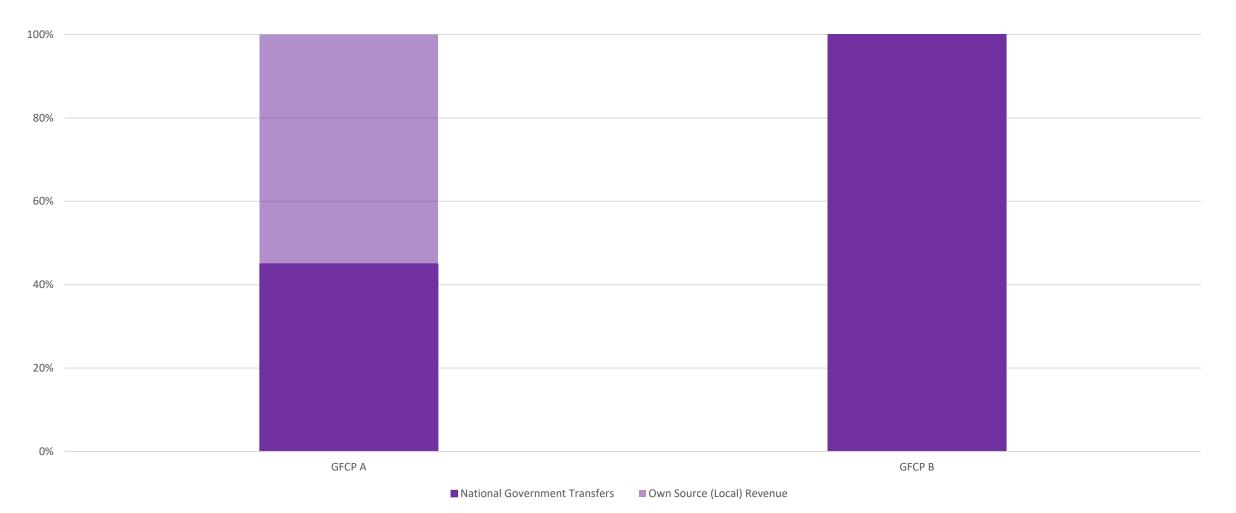




External Finance (Borrowing and Development Partners)



A tale of two cities (and their revenues)







To attract this...

You must give lenders confidence in this...



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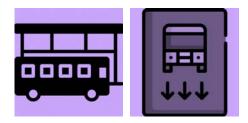
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Funding (capital repayment and operational expenditure) 2 – 20 years

Intervention (Project) Lifecycle





'A key hurdle to the implementation of major transportation projects is funding' Siemiatycki, M (2018)







How city governments are financed matters

• Decisions change with source of finance

















I STR



expenditures that benefit citizens than increases in grant revenues'







Driving project finance cash flows The role of locally generated revenues

- User fees are central (but not enough) to fund interventions
- Pre development (exaction) or post development (land and property tax) are central (but not enough) to fund interventions
- Inter-government transfers fill gaps where public benefits outweigh private costs

Foreign, Commonwealth & Development Office







Funding Projects (Transit infrastructure)

User Fees

 International experience suggests that user fees typically cover 30-80% of the operating costs of transit infrastructure

Land Value Capture

 International experience suggests that 10-20% of infrastructure projects can be financed through land value capture

So we are still missing ~30%

Source: Siematycki, M. (2018)

Foreign, Commonwealth & Development Office





Source: Who Owns England



"Somebody will capture rising land values" – Professor Sir Paul Collier

The question is...who?

Source: W.B Northrup, 1925









Pre-development 'exaction'

Motivation from the UK – two alternatives

Section 106

<u>Criteria</u>

- Site specific
- Money for specific development and solely used for that purchase
- Each separate proposal negotiated



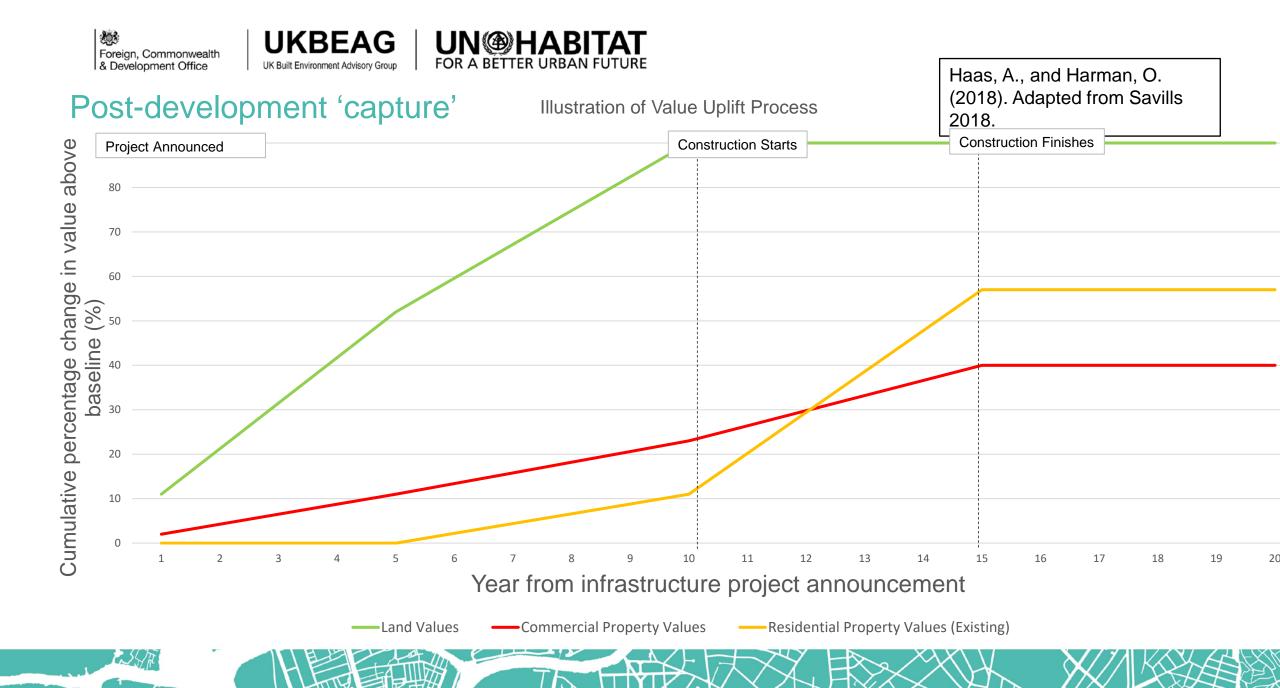
Community Infrastructure Levy

<u>Criteria</u>

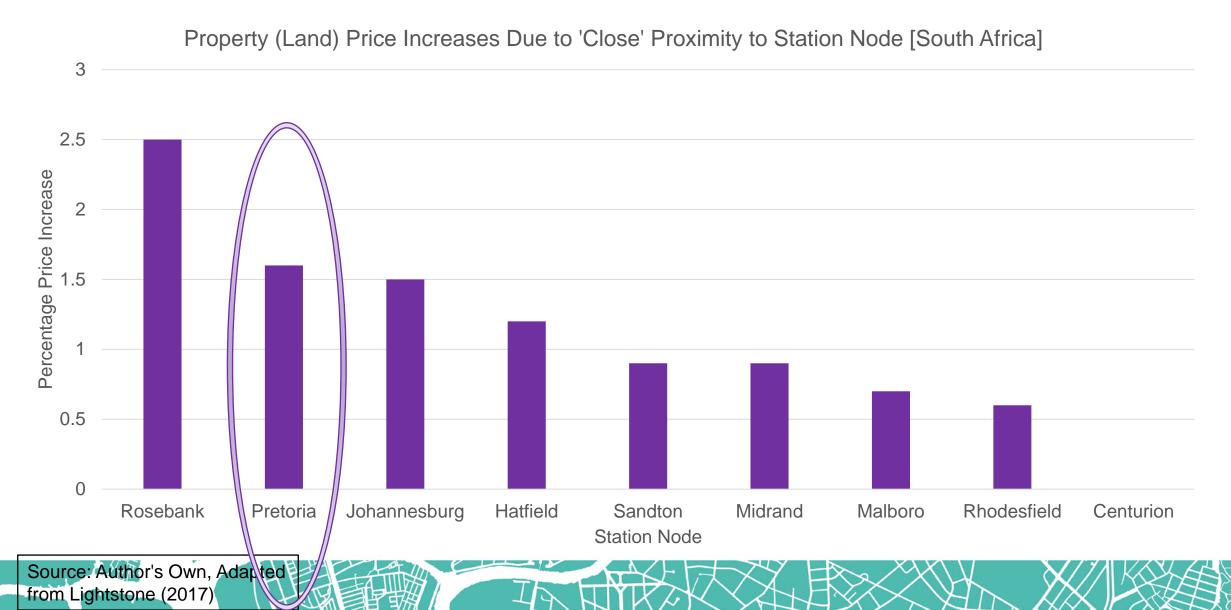
- Local authority decision, if there is a local funding gap
- Not provision of specific infrastructure,
 - Any infrastructure as defined by legislation
 - As long as for the community
- Rates are predetermined and known to all
 - Provides certainty to developers and public
- Fairer, widens contribution





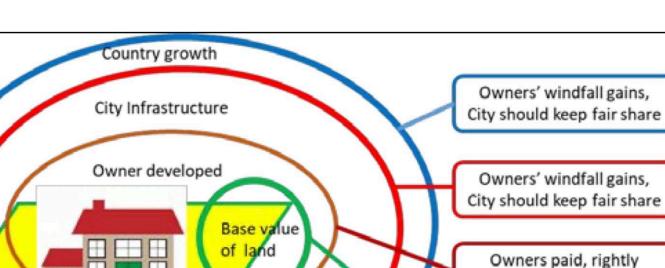






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Source: Authors based on Hong & Burbaker 2010

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FOR A BETTER URBAN FUTURE

retains value

Owners paid and rightly retains value Pretoria, South Africa

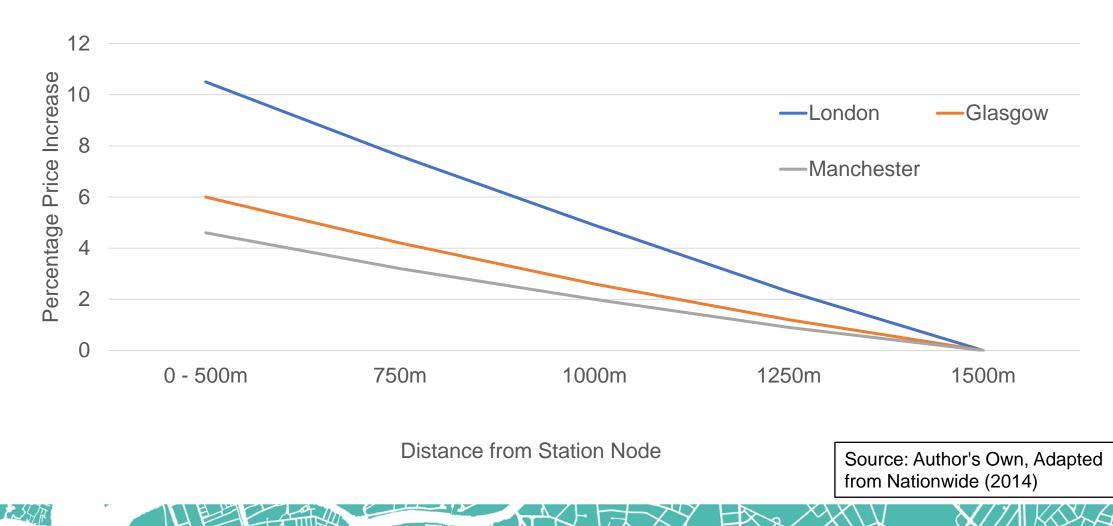
- <u>1.5% increase in property price</u> is actually **ALL land price** increase
- <u>~25% increase in land value</u> (!!)
- From city infrastructure 'city should keep fair share'
- Based on real data from: Centre for Affordable Housing Finance in Africa

Source: Freire, M., and Kopanyi, M. (2018)

City Regulation



Property (Land) Price Increases with Proximity to Station Node [U.K]









Economics of funding models

- Match funding source to project type and beneficiaries
- Encourage private sector engagement on the most profitable projects
 - (don't keep them to yourselves!)







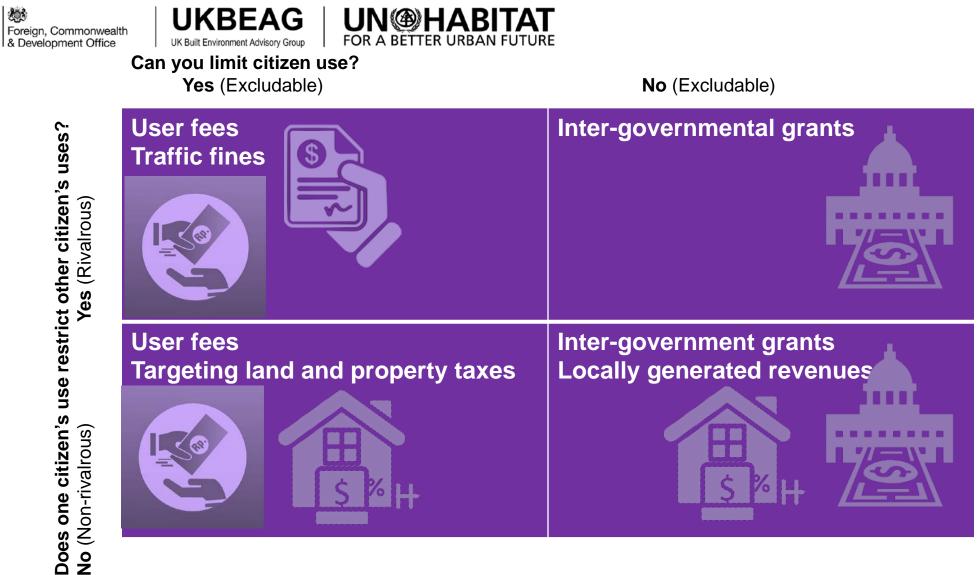
Two policy questions

Does one citizen's use restrict other citizen's uses? (In econ-speak rivalrous vs non-rivalrous)
✓ Yes ~Somewhat ×No

Can you limit citizen use? (to paying citizens) (In econ-speak excludable vs non-excludable)✓ Yes~Somewhat×No



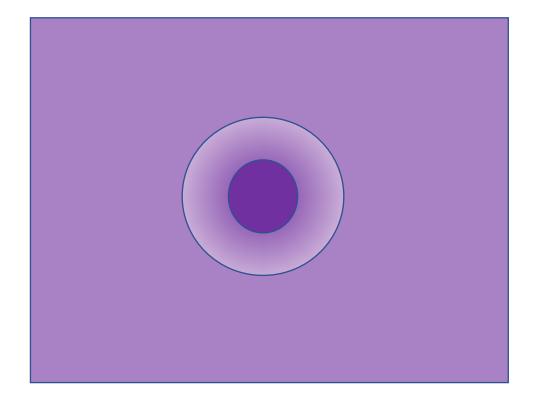




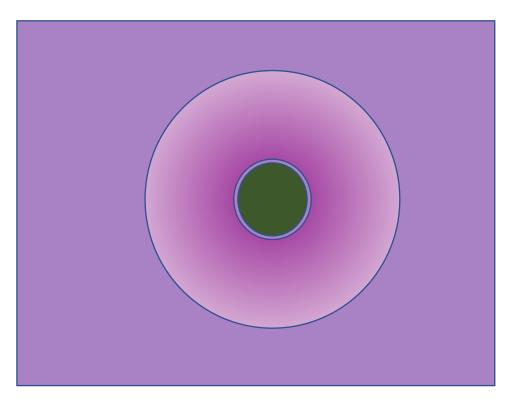




Increasing Quality and Accessibility of Streets In Çankaya Neighbourhoods, Ankara, Turkey



Participatory Design of the Central Park, New Clark City, Philippines

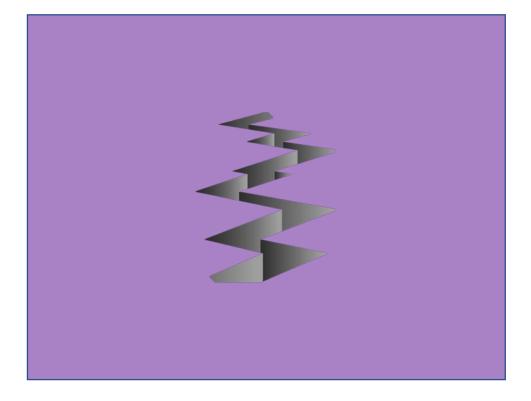




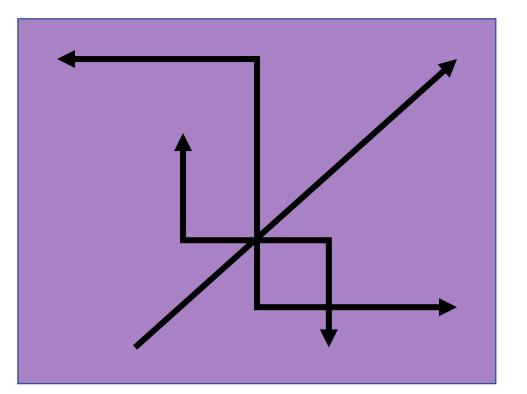




Earthquake Preparedness Strategy for Surabaya, Surabaya, Indonesia



Development of a Smart Ticketing System for Public Transportation Network





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Participatory budgeting and (digital) town halls

- 1. 'Town Halls' / meetings organised by councils
- Certain capital budget % set aside (Freetown 10%, others ~20%)
- 3. Discussion on local needs and investment priorities
- 4. Election of (citizen) neighbourhood representatives
- 5. Coordinate municipal wide to draft agenda
- 6. Passed to city executive
- 7. Final budget based on popular priority ranking, technical and financial feasibility
- 8. City not legally bound to invest

References: (Goncalves 2013) (Lopez-Moctezuma et al. 2020) (Fujiwara and Wantchekon 2013) (Collier and Vicente 2013) (Boulianne 2019) (Esterling et al. 2011) (Fishkin et al. 2015; Sandefur et al. 2020) (Haas and Wani 2019)

- ✓ improve development outcomes
- ✓ increase vote shares of participating parties
- ✓ decrease 'clientelism'
- ✓ decrease occurrences of violent events
- ✓ increase political efficacy of participants
- $\checkmark\,$ allow citizens to become more informed
- $\checkmark\,$ allow for updating of policy preferences

COVID IGC Experiment - digital town halls – via whatsapp, less costly, accessed when convenient, no transportation costs (but other costs), more inclusive discussion, improved argument, exclude political representatives



A segway to (long term) financing...

Internal (public) finance

- Consider large scale public financing in the form of grants Matthias Kroll, economist, World Future Council
- Focus on domestic resources Nick Bryer, head of inequality policy and campaigns, Oxfam GB
- Get everyone on board Hafiz Mirza, chief, Investment Issues Research, Unctad

Inter-governmental transfers – As Prof Sir Paul Collier says "successful urbanisation is nationally important"

External (private) market finance

- The SDG funding gap needs significantly increasing private sector participation Lorenzo Bernasconi Associate Director, The Rockefeller Foundation
- Find the appropriate source of finance for each goal Romilly Greenhill, team leader development finance, Overseas Development Institute (ODI)
- Remember that one size does not fit all Ralitza Dimova, lecturer in development economics, University of Manchester,



A segway to (long term) financing...

Limitations – capacity, legality and knowledge

- Creditworthiness even the 500 largest cities in developing countries, only 20% are creditworthy in local markets
- Legal bottlenecks 56% of countries globally do not allow any local government borrowing
- Information gaps Merit in reducing the large knowledge gap between city budgets & lender requirements
- Form follows finance

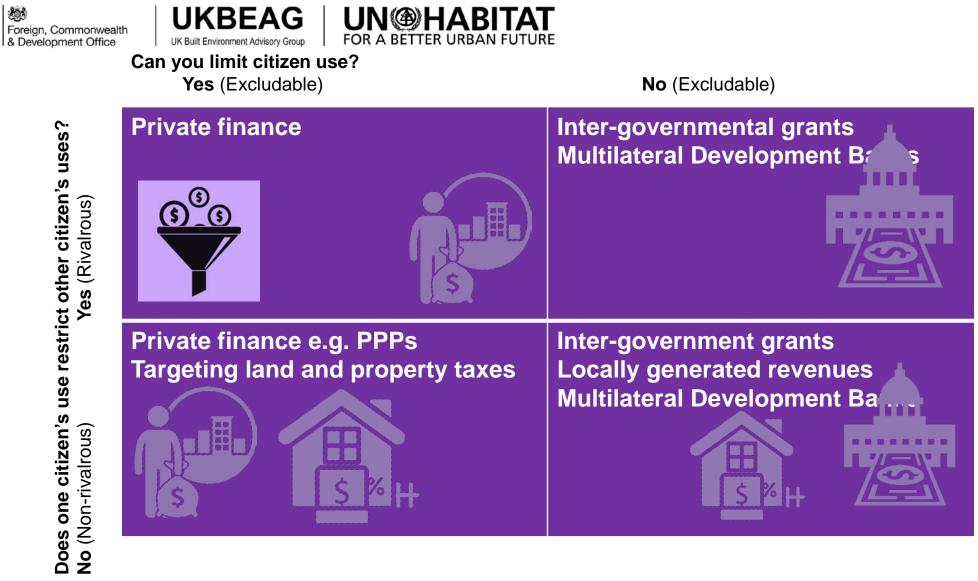
Municipal bonds vs loans – bonds require a lot of prerequisites, are quite rigid. Loans provide flexibility, term lengths and rates are renegotiable and restructure-able.

Public private partnerships - not a panacea and still require very strong governance to deliver better than the traditional procurement

Pooled Financing and Financial Intermediaries – can help with the above –

- ✓ play an important role in investment coordination,
- ✓ facilitate and manage relationships,
- ✓ building the financial capacity of developing cities over time
- $\checkmark\,$ can align national and local incentives











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Further resources and references:

Feire, M., and Kopanyi, M. (2018). **Asset and debt management for cities**. IGC Working Paper. Available at <u>https://www.theigc.org/wp-</u> <u>content/uploads/2018/07/FINAL-Asset-and-Debt-</u> <u>Management-for-Cities_Working-Paper-</u> <u>062118.pdf</u>

Siemiatycki, M. (2019). Strategies for effective procurement and public-private partnerships in the transport sector.

https://www.theigc.org/wpcontent/uploads/2019/02/Strategies-for-effectiveprocurement-FINAL-Feb2019.pdf Collier, P., Glaeser, E., Venables, T., Manwaring, P., and Blake, M. (2017). Land and property taxes for municipal finance. Available at https://www.theigc.org/publication/land-property-taxesmunicipal-finance/

Siemiatycki, M. (2018). **Options for financing and funding transportation infrastructure.** <u>https://www.theigc.org/wp-</u> <u>content/uploads/2018/06/Siemiatycki-2018-policy-</u> <u>brief.pdf</u>

The Guardian (2016). **Seven ideas of how to finance SDGs.** <u>https://www.theguardian.com/global-</u> <u>development-professionals-network/2016/jan/26/eight-</u> <u>ideas-how-fund-sdgs-sustainable-development</u>