Municipal finance for housing: local government approaches to financing housing in cities

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Abstract
Housing policy is usually seen as the domain of national governments, and in many countries local authorities have relinquished direct engagement in the promotion of adequate housing. High costs associated with related policies and programmes are often cited as justification for minimal involvement, leading to fewer community-level interventions on affordable formal housing. This article presents financial approaches for local government leaders and decision-makers to consider in furthering affordable access to adequate housing for their citizens. The article argues that when local governments engage on housing with innovation and financial pragmatism, the housing needs of the urban poor and vulnerable can be better served.

Keywords: Municipal finance, local government, affordable housing, fiscal policy, cities, capacity-building

Introduction
Close to one billion people live in informal housing (PSUP 2016). Living conditions include overcrowding, the absence of permanent walls, and sufficient living area, running water or toilets. The reality of one-eighth of the global population being housed in slum conditions underscores the magnitude of the global adequate housing shortage (OHCHR/UN-Habitat 2010). Access to affordable
formal housing presents one of the most formidable challenges for sustainable urban development, requiring the mobilisation of both international and national actors.\(^1\)

The United Nations (UN) has developed an international urban framework to “make cities and human settlements inclusive, safe, resilient and sustainable” as established in Sustainable Development Goal 11 (UN ECOSOC 2017, p. 11). Nation-states further committed to a ‘New Urban Agenda’ following the UN Conference on Housing and Sustainable Urban Development known as Habitat III (UNGA 2017). These international protocols underscore the interests of national governments to collectively overcome local problems and promote sustainable urban development (Mitlin et al. 2018; Ladner et al. 2018). Key among the national stakeholders are cities, since municipalities lead the way in serving urban citizens and providing local services.

National and sub-national governments\(^2\) throughout the world have started to adopt the UN’s ‘housing at the centre’ approach to their development planning (UN-Habitat 2015). However, limited financial resources pose a central challenge to the goal of adequate housing for all. The costliness of housing has discouraged many leaders and policymakers in city governments from prioritising engagement on affordable housing. Understandably, given their greater financial resources, housing and issues of affordability have primarily become the responsibility of national governments (Datta and Jones 2001). Yet the lack of input by municipalities has limited the success of housing interventions in communities. Without localised expertise and substantive local involvement, large-scale and standardised national housing programmes have limited impact in meeting housing needs, especially for the urban poor and most vulnerable – threatening to make formal housing ever more inaccessible and unaffordable.

This article argues that city leaders can no longer remain idle on housing policy due to financial constraints. The essential role of local governments continues to grow, with the majority of the global population now living in cities (54% in 2014, and rising). Pressure will intensify, as over two-thirds of the world population will likely be urban by 2050 (UN DESA 2018). City leaders must consequently act on housing and its affordability to advance sustainable urban development for all current and future urban dwellers.

The article presents five approaches to financing affordable formal housing for city governments to consider. The research methodology utilised here derives the five approaches from public finance principles enumerated in academic, government and civil society studies (Stiglitz 2002; De Mello Jr. 2002). For housing to be adequate, at a minimum it must meet the following seven criteria: security of tenure; availability of services, materials, facilities and infrastructure; affordability; habitability; accessibility; suitable location; and cultural adequacy. This article focuses on cities’ role in promoting financing for affordable formal housing.

\(^1\) For housing to be adequate, at a minimum it must meet the following seven criteria: security of tenure; availability of services, materials, facilities and infrastructure; affordability; habitability; accessibility; suitable location; and cultural adequacy. This article focuses on cities’ role in promoting financing for affordable formal housing.

\(^2\) Sub-national governments in this paper are defined as regional (state, provincial and county levels) and local authorities. Local governments are defined as the public administration entities of cities and municipalities, including rural settlements.
2002; Hamilton 1975; Hansen and Perloff 1944). These principles are then illustrated through geographically diverse case studies selected from analysis of practitioner literature. While these approaches do not constitute definitive solutions, and it may be difficult to achieve the balance of policy interests with revenues and expenditures, this research provides a starting point for local government to reassess its role on a topic fundamental to the future of socio-economic development.

**Municipal budget shortfall for housing**

Often, financial resources for housing are limited at the local level (Collier et al. 2017). Municipal fiscal resources are commonly only enough to run local services such as waste management, sanitation systems, policing, fire protection and social services (Slack 2009). Furthermore, many cities encounter difficulties in compensating their own employees, much less finding the financing for housing.

On average a city spends 30% of its total municipal budget on salaries and only 1.35% on housing programmes. The high concentration of city expenditure on personnel emoluments and administrative expenses, followed by provision of local services, limits resource allocation for capital expenditure, including housing programmes. As a result, municipalities under-resource housing policies; too frequently human settlements are merely a formal line item in city budgets, with little, if any, funding allocated.

<table>
<thead>
<tr>
<th>County government of Mombasa: financing salaries and housing</th>
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<tbody>
<tr>
<td>In Kenya, 46% of local authorities’ budgets was allocated to paying employee salaries in 2011 (IMF 2013). For its second-largest city, Mombasa (with an estimated 1.2m citizens) half of the county’s 2015/2016 budget of 10.7bn Kenyan shillings (KES) was earmarked for paying salaries and wages, while housing expenditure plans were much smaller at KES 38m (Mombasa Budget Office 2014). If the housing expenditure were applied in its entirety to housing development, the Mombasa government would finance the construction of an estimated 22 formal housing units – an insignificant amount compared to the county’s estimated 82,000-unit housing deficit (Centre for Affordable Housing Finance in Africa 2017).</td>
</tr>
</tbody>
</table>

The limited nature of municipal fiscal resources has led to a tendency for housing providers to bypass city government decision-making. Although private and non-profit residential developers work with cities on urban development and building design, especially in terms of zoning and permits, municipalities have been unable to promote the provision of affordable housing due to lack of financial resources (Brueckner 1981). The consequence of insufficient municipal finance is that those city-led affordable housing projects which do exist are small-scale, and operate in what can be best described as a “fragmented policy landscape” (Lawson et al. 2010, p. 5; Pugh 2001). It is true that cities have been able to encourage affordable housing through mixed-use development mandates and zoning.

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3 Figures are based on author’s own calculations from municipal budgets for a selection of cities in Africa, Asia Pacific, Europe, Latin America, the Caribbean and North America.
legislation to promote infill, densification and the conversion of non-residential buildings. However, financial approaches have been inadequately integrated with city planning and regulations to effectively promote affordable access to formal housing.  

To overcome the housing bottleneck, cities have the potential to contribute innovative policy solutions supported by feasible and financially pragmatic implementation strategies. It is possible for municipalities to change the status quo and assert a leadership role in housing, given their unique authority and local expertise (Province of Ontario 2011; UCLG 2010). And, with sustainable financing alongside city-level leadership on housing, local governments will be better positioned to serve the needs of their communities.

However, proactive city-level involvement on housing, backed by sustainable financing, requires local authorities to develop the fiscal architecture needed to support this financing. An effective large-scale affordable housing response supported by cities has essentially two components (Milligan et al. 2009). It requires local authorities to have committed public funds for housing programmes and policies; and they need to attract cost-effective private and non-governmental financing (Milligan et al. 2009). It is also recommended that cities seek ways to actively generate capital from public and private sources. Strengthening municipal finance for housing requires strategic approaches which can develop sustainable funding and then apply it effectively, to skilfully serve the housing needs of citizens at the local, community level.

Five strategic approaches for cities to sustainably finance housing

In order to strengthen municipal finance for housing, cities must at a minimum develop recurrent funding (Lawson et al. 2010). Regularised financing helps cities promote access to affordable housing to meet the needs of their communities. Although local budgets account on average for 25% of public expenditure in European Union states, in many developing countries the figure is less than 5% (UCLG 2010). Cities must accordingly improve financing to support the effectiveness of housing policies and programmes.

The following section of the article presents five strategic approaches (summarised in Table 1) for city leaders to consider in strengthening financing to effectually provide adequate housing for lower-income and vulnerable residents.  

The presented approaches are supported with global case studies from developed and developing states in different regions of the world. Although these five strategic approaches are not exhaustive of the potential solutions, they intend to stimulate greater dialogue on the role of local authorities and ways to improve municipal finance for housing. The approaches may

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4 The framework aligns with UN-Habitat’s three-pronged approach emphasising urban legislation, urban planning and design, and urban economy and municipal finance (Li et al. 2019; Clos 2015).

5 For success it is essential for local governments to be accountable to all constituents and to act in a fiscally responsible manner.
not necessarily comport with every municipality and its circumstances, but they can help towards building local government capacities towards resolving outstanding housing issues. The outcome can be increased discussion and debate on ways to make unaffordable adequate housing an outmoded phenomenon of the past rather than an inevitability in the future.

Table 1: Five approaches to sustainably finance housing in cities with relevant policies and programmes

<table>
<thead>
<tr>
<th>Financial approach</th>
<th>Relevant policies and programmes</th>
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<tbody>
<tr>
<td>1. Co-finance housing programmes and projects with regional and national governments</td>
<td>● Subsidies ●Grants</td>
</tr>
<tr>
<td>2. Strengthen taxation mechanisms to improve revenue for housing programme expenditures</td>
<td>● Property tax ●Consumption tax ●Income tax ●Payroll tax ●Strengthened tax collection ●Expenditure controls ●Tax incentives</td>
</tr>
<tr>
<td>3. Explore enhancements to non-taxation revenues to fund city housing policies</td>
<td>● User fees ●Cross-subsidisation ●Land provision ●Development planning regulations</td>
</tr>
<tr>
<td>4. Examine debt financing to serve municipal housing needs</td>
<td>● Direct lending ●Bond issuance</td>
</tr>
<tr>
<td>5. Leverage PPPs to encourage private capital and non-governmental expertise in financing affordable formal housing</td>
<td>● Partnerships between local government, developers, financial institutions, non-profits and other relevant bodies</td>
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</table>

**i. Co-finance housing programmes and projects with regional and national governments**

On their own, municipalities customarily have neither the resources nor powers to create a large-scale financing model for affordable housing (Lawson et al. 2010). Compared to national and regional governments, local authorities commonly have fewer resources. Figure 1 illustrates the extent to which higher-level government entities typically have greater financial resources than municipalities. In these instances, close collaboration between local, national and regional levels has proved critical to financing affordable housing programmes (UCLG 2010).
Figure 1: Comparing local and non-local* government expenditure as percentage of Gross Domestic Product (GDP)

Source: UCLG and Dexia (2007)

*Non-local government expenditure is defined as expenditure by national, provincial and state entities
Joint mobilisation of funds to finance housing can benefit both municipalities and their housing stakeholders, by uniting local community expertise from city government with technical housing support from the national and regional levels. Moreover, merging resource pools through intergovernmental transfers, such as subsidies or grants, enables cities to have greater financial resources for meeting local housing needs.

Accra Metropolitan Assembly’s approach to co-financing housing

The city government of Accra, Ghana’s capital city, spent close to G¢ 15.2m on housing from its municipal budget in 2015. The Accra Metropolitan Assembly (AMA) also received G¢ 53,944 from Ghana’s central government (RoG 2015), and sourced an additional G¢ 53.7m for housing development from development donors, including the World Bank and international development agencies (RoG 2015). These capital inflows from central government and foreign donors have helped support housing infrastructure development and have contributed to Ghana’s national housing policy objective to improve housing supply and upgrade existing homes.

Municipal use of intergovernmental transfers is widespread (Banful 2011; Saiegh and Tommasi, 2000; Ma 1997). There are multiple mechanisms cities use to access such funds, which include financing for housing. In many countries, city governments and their housing departments receive an annual allocation from the national government to help lower-income households and vulnerable persons, such as those with disabilities, with their housing needs.

Rental subsidies supplement incomes and assist the less fortunate by making housing more affordable (Hulchanski 2003). Subsidy transfers are typically distributed to local authorities based upon a formula agreed between city officials and their national government counterparts, and then applied equitably to each regional and local government. For example, in France social housing is a shared responsibility. Local authorities co-finance social rental housing supply with funding from the central government through upfront subsidies.

Co-financing by different levels of government can be characterised by intense bargaining, sometimes resulting in conditions placed on city administrations (Basolo 2000; Schneider and Logan 1985). National and regional governments can mandate municipalities to make fiscal reforms as a condition of receiving housing subsidies. Further, local governments can be required to use non-local grants for specific purposes. Local governments might, for example, compete and apply for funding from the central government to contribute towards a national housing priority such as ending chronic homelessness. Alternatively, city leaders might identify grassroots housing issues, perhaps unique to their communities, and appeal directly to regional and national governments to determine their interest and the feasibility of accessing funds.
ii. **Strengthen taxation mechanisms to improve revenue for housing programmes**

Financing for housing is often derived from national government funding sources. At the highest level, the national government can frequently call on a wider range of taxation mechanisms, such as value-added tax (VAT) or income tax, than local governments can (Tanzi and Zee 2001). Consequently, central governments usually have deeper fiscal pools, which currently make them the logical choice for financing housing. Local authorities may seek to replicate this strong tax base and consider measures to optimise taxation in their municipalities so they can finance housing at the community level. Ultimately, strengthened taxation can contribute to municipal needs for recurrent funding for affordable housing programmes and projects.

Because of their tax structure, local governments commonly have fewer resources than national and regional governments, partly due to a smaller taxpayer base and partly due to the types of tax mechanisms employed. Local governments tend to rely on property taxes to fund most of their budget (Slack 2009). After property taxes, municipalities use, to a lesser extent, consumption taxes such as VAT and sales taxes to provide an elastic source of revenue that grows with the urban economy (UCLG 2010). In addition, municipalities also employ payroll taxes to ensure non-resident commuters pay for services (Slack 2009).

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**Table 2: Government financial sources for municipal housing in São Paulo**

<table>
<thead>
<tr>
<th>Sources of SEHAB financial resources</th>
<th>Projections for resource need 2009-2024 (R$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Municipal resources</td>
<td>R$ 15,380,000,000</td>
</tr>
<tr>
<td>State resources</td>
<td>R$ 3,840,000,000</td>
</tr>
<tr>
<td>Federal resources</td>
<td>R$ 6,147,824,000</td>
</tr>
</tbody>
</table>

Source: City of São Paulo (2010)
And finally, cities can implement local income taxes. Although rarer, municipal income taxes are commonly collected in Europe as a proportion of central and provincial income taxes (Slack 2009). A separate locally administered income tax is less common because it is difficult to implement and expensive to administer. Together, these property, consumption and income taxes constitute the main sources of tax revenue for municipalities.

<table>
<thead>
<tr>
<th>Municipal taxes</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Property tax</td>
<td>Annual tax levied on land, buildings, and fixed and permanent facilities</td>
<td>Between 0.2% and 1.0% depending on value of property</td>
</tr>
<tr>
<td>Property transfer tax</td>
<td>Tax on sale price of a property, paid by the buyer</td>
<td>3% of property sale value</td>
</tr>
<tr>
<td>Vehicle property tax</td>
<td>Annual tax on cars imported into the country that are no more than three years old</td>
<td>1% of original value on acquisition, importation or entry into ownership</td>
</tr>
</tbody>
</table>

Source: SAT (2016)
Understanding the relationship between tax modalities and revenue is an important first step in overcoming municipal government revenue challenges to finance housing programmes. Some tax experts believe property tax is not the optimal mechanism to fund housing policies, since it is a regressive tax\(^6\) (Kim 2017) and therefore reliance on it generally results in fewer funds for municipalities, which in turn means limited funding for housing. By comparison income taxes, which have a more redistributive effect, may be considered better suited for financing affordable housing programmes and policies that support lower-income and vulnerable residents (Tanzi and Zee 2001).

Many of the challenges municipalities confront in financing housing stem from having too small a tax base. Cities must therefore optimise both ‘what’ and ‘who’ is, or should be, taxed. Tax modifications should be assessed from a holistic perspective based on the effectiveness of the range of taxes – covering goods, services, incomes and assets, including housing. Effective taxes must also take into consideration their impact in promoting social equity and inclusive economic development at the neighbourhood level (Basolo 2000; Hansen and Perloff 1944).

**Taxing expatriate housing: a growing trend to increase local revenues**

Where housing markets have many foreign homeowners, cities have levied extra taxes on the owners of these units. In Abu Dhabi, the emirate has mandated expatriate owners to pay a 3% municipal fee on the value of their annual lease. This fee is collected by the Abu Dhabi Water and Electrical Authority and goes towards the registration costs associated with programme monitoring for short-term tenancy contracts of less than four years (Fahy 2016). Recently, the Jerusalem Municipality has also sought to increase property taxes for ‘ghost apartments’, which are vacation homes generally owned by wealthy foreigners (Eisenbud 2016). Rented units leased to tenants are exempted. The justification for this tax has focused on the need to overcome a municipal budget shortfall, and secondly to increase affordable housing supply.

Municipalities may also consider actions to optimise tax administration. Strengthening tax collection and controlling expenditure can maximise tax efficiency and help ensure there are greater tax revenues for allocation to housing programmes and projects. Equally, cities can also implement approaches to increase tax compliance, both domestically and internationally, to make certain taxpayers and evaders pay their fair share to the local government.

Lastly, it is advisable for local authorities to consider structuring taxation mechanisms so that they both incentivise affordable housing developers and financiers, and draw informal economy wages into the formal economy. Such incentives and inducements may change government revenues, negatively for the incentives and positively for the informal wages. The added incentives may potentially encourage

\(^6\) Compared to a progressive tax, a regressive tax takes a larger percentage from low-income people than from those with higher incomes.
affordable housing development and recognise the informal sector as a source of economic activity, which in turn can increase affordable housing opportunities and formal economic participation respectively (TJN-A 2012).

**iii. Explore enhancements to non-taxation revenues to fund city housing policies**

Non-taxation revenues for municipalities are typically concentrated in user charges (e.g. fines, and fees for business permits and licences). Through user charges, customers pay for the services they receive from local authorities. For example, persons using recreational facilities, such as a park or swimming pool, may pay a fee upon entrance, which then goes to the maintenance and servicing of the city-provided amenity (Bird 2003).

For affordable housing, however, user charges may not be a good choice for municipal financing. Requiring low-income tenants to pay user fees in accessing affordable housing would add to their income burden. Should tenants have the capital, they would already be able to access housing at prevailing market rates. Additionally, the overuse of such charges to finance housing can be considered regressive, as it asks low-income residents to pay the most for affordable housing. This is why tenant rents for affordable rental units are often supported with a mix of co-financed subsidies to help close the affordability gap.

### Maximising non-taxation revenue in the New York City Housing Authority

The largest municipal housing authority in the USA supports public housing for 400,000 New Yorkers. The New York City Housing Authority (NYCHA) has implemented several reforms to maximise revenues and improve its ability to provide housing to lower-income families. For example, NYCHA housing developments contain a mix of residential, commercial and community spaces. Non-residential space registers at over 2.5m square feet, including 250,000 square feet of retail space. To optimise its financial budgets, NYCHA has established a plan to lease rentable retail space as well as a comprehensive strategy for maximising usage and revenue (NYCHA 2015).

Apart from non-residential ground-floor space, NYCHA also has more than 11,000 parking spaces across 200 developments, for both residents and non-residents. The housing authority has redesigned parking fees to charge full-market rates for non-residents, but capped local rates for residents. The parking lot fee increases are projected to provide approximately US$ 5m per year to NYCHA by 2019 (NYCHA 2015).

Although user charges may not be optimal for direct financing of affordable housing in cities, they can nevertheless supplement municipal financing in other areas: potentially freeing up municipal and citizen funds for housing. For example, user fees for transportation can contribute to the development of better infrastructure, and improved roads can also boost household incomes by shortening commute times,
which in turn reduces petrol consumption so citizens have more money to spend on housing. In Istanbul, for instance, the revenues from İSPARK, the municipal parking organisation, are higher than the combined budgets of 52 provincial municipalities, earning ₺40m per year (Hürriyet Daily News 2013). These revenues likely do not directly support municipal housing programmes, but do demonstrate the potential of non-taxation revenues. Revenues from user charges can reduce strains on the city budget and minimise other municipal expenses.

**Cross-subsidisation and the Khartoum State Housing and Development Fund (KSHDF)**

Since the 1990s, core housing in Khartoum, Sudan has been funded through cross-subsidisation in the construction and sale of “improved and luxury units at market supply” (Hamid n.d.). Sales income from higher-end housing units has been a major financing mechanism for affordable housing in Khartoum State. As shown in Table 4 below, cross-subsidisation helped deliver 11,952 housing units for lower-income residents, due in part to the extra revenues collected from 4,856 housing units produced and sold to upper-income households.

<table>
<thead>
<tr>
<th>Housing types</th>
<th>Target consumers</th>
<th>Average monthly payment</th>
<th>Units sold 2002–07</th>
</tr>
</thead>
<tbody>
<tr>
<td>Popular housing</td>
<td>Low-income</td>
<td>SDG £143</td>
<td>11,952</td>
</tr>
<tr>
<td>Economic housing</td>
<td>Middle-income</td>
<td>SDG &lt;£360</td>
<td>4,608</td>
</tr>
<tr>
<td>Villas or apartments</td>
<td>High-income</td>
<td>&gt;£400 SDG</td>
<td>248</td>
</tr>
</tbody>
</table>

Source: MEFUD and UN-Habitat 2014

Local housing authorities also engage in cross-subsidisation to overcome the difficulties faced in financing affordable housing developments. Cross-subsidisation provides a useful non-taxation means for city leaders to finance housing initiatives targeting the poor and vulnerable. By charging a premium to the higher-income in market-level housing units, municipalities can channel the extra funds acquired into affordable rental housing.

Cross-subsidisation mechanisms, however, can be difficult to implement. The progressive fee structure can alienate those with higher incomes and limit their willingness to participate in these schemes. Moreover, it is possible that the provision of a mixed-income environment may be a disincentive for higher-income households who may avoid such projects altogether.

Beyond user charges and cross-subsidisation, cities can also harness non-financial means to mitigate the high cost of housing programmes and projects. Municipalities can donate, lease or sell public land at below-market rates to encourage affordable rental or ownership developments (Province of Ontario 2011).
Donation of land is a popular tool for municipalities to employ, since housing development costs are much higher than what can be charged through rent to low-income tenants. Developers can use free land as an in-kind contribution to enable affordable housing provision (Zhou and Ronald 2017; Morrison et al. 2012; Firman 2004). Hence, land-use planning provides a non-financial means that can be used to promote housing development accessible to lower-income households. Nevertheless, additional subsidies and investment are also needed. Municipalities should be fully committed to ensuring land donations are properly used to achieve their intended objective.

Land contributions do have their disadvantages. Such actions in effect remove these real estate assets from the municipal balance sheet (Lin 2014). Moreover, it is a once-only solution that can limit the decisions of future city leaders. In addition, these arrangements could risk exploitation of local authorities from developers seeking excessive profits, thereby corrupting local officials in the process (Ren 2018; Butler et al. 2009). As such, the sole provision of land does not necessarily benefit the community in terms of promoting affordable housing. Municipalities must exert strict enforcement on land transactions to ensure development actually delivers the intended benefits for the community (Berrisford et al. 2018).

Besides land donations and discounts, cities can also use legal instruments to require developers to provide affordable housing: another non-financial tool to reduce strain on municipal coffers and promote access to affordable housing in urban areas. The city government of Munich, for example, requires private developers to allocate 20% of new housing units on large sites to social and affordable housing (Scanlon et al. 2014). In Denmark, municipalities have the legal right to assign tenants to at least 25% of unused housing units (Scanlon et al. 2014).

The above examples of non-taxation sources illustrate the creativity and flexibility local authorities can apply as they seek to supplement municipal financing in support of city housing policies. Many other alternatives can be formulated to amplify sources of funding. But local authorities should be attentive that prospective non-taxation mechanisms are developed in a responsible manner. City leaders and policymakers nonetheless may consider harnessing non-taxation approaches as a financial tool to strengthen municipal finance of housing.

**iv. Assess debt financing to serve municipal housing needs**

When municipalities do not have the fiscal resources to finance housing, they can consider debt financing. Debt financing may not be legally permitted or allowed in certain jurisdictions. However, this approach is still presented for consideration depending on the circumstances of the local authority. Cities can develop housing bonds to generate the needed cash flow, and debt financing can be an important instrument to support housing programmes at the municipal level. The proceeds can be used to improve affordable access for many groups: lower-income borrowers, first-time homebuyers,
persons in vulnerable situations etc.\(^8\) (Rieman 2013). In addition, debt-derived proceeds can be used to fund the development of multi-family housing. Once completed, these apartments can be let at lower rents, as they have been less costly to produce. As a result, debt financing can be an important tool in delivering housing affordable to lower-income groups (Rieman 2013).\(^9\)

**Municipal debt financing: Tokyo Metropolitan Housing Supply Corporation**

Managed by the Tokyo Metropolitan Government (TMG), the Tokyo Metropolitan Housing Supply Corporation, known as ‘JKK Tokyo’, was established as a special-purpose public corporation in 1966. JKK Tokyo serves a crucial role as the municipal entity building and maintaining public rental homes in Japan’s capital (R&I 2016). JKK Tokyo manages these units, although they are owned by TMG.

As the city’s largest public housing supply corporation (in Tokyo, the world’s largest urban agglomeration with 38 million inhabitants) with 350,000 apartment units, JKK Tokyo secures positive cash flow through a variety of financing means, including the issuance of corporate bonds (UN DESA 2018; R&I 2016). JKK Tokyo has historically had stable profits supported by a high occupancy rate for its rental units. However, in circumstances where the city entity needs to access capital, for example to preserve public rental stock, JKK Tokyo uses debt equity. Institutional structuring allows JKK Tokyo to access capital through debt financing should its annual budget of ¥ 105m, wholly capitalised by the TMG, prove insufficient for the preservation of public rental housing stock (UN DESA 2018; R&I 2016).

Cities employ two common approaches to debt financing for housing (Lawson et al. 2009; Zhang 2000). The first mechanism is direct public lending from financial institutions to municipalities. Often, depending upon the city’s underlying financial state, municipalities have bargaining power to access cheaper capital through loans with the financial sector. Usually loans, especially those related to infrastructure, are evaluated on a project-by-project basis. Once approved, the municipality agrees to pay back the principal and interest over a period based on the timeline for the project. However, it should be noted that accessing capital through public loans requires developed financial institutions to be agreeable to, and capable of, providing municipalities the necessary liquidity for housing. Without such capital, lending at acceptable terms becomes an option of limited viability.

\(^8\) Through mortgage revenue bonds (MRBs), the borrowed cash flow proceeds can be credited to housing finance lenders to offer below-market rate housing loans (Rieman 2013). MRBs can target borrowers who earn no more than the area median income and have been proven to make homeownership possible for lower-income families (2013).

\(^9\) Multi-family housing bonds provide rental housing through the creation of multifamily units. These units are made more affordable to lower-income families that can qualify if their income is below area median income (Rieman 2013).
Second, municipalities can issue bonds to finance housing development. Bond issuance may attract investor capital rather than requiring a municipality to engage bilaterally with financial institutions. The development of housing bond debt instruments allows cities to access domestic, and potentially international, capital markets to finance affordable housing. However, the issuance of municipal bonds to finance housing requires cities and their projects to have demonstrable credibility with investors, and to develop a product with a competitive advantage compared to similar investment class products. But, if a municipality’s bonds are well received by the market, the borrowed capital can be a significant source of financing for housing.

Debt financing to support municipal financing for housing is an important approach, although city leaders must be alert to potential problems, and realistic and fully committed to this type of financing if they choose to undertake it. It is important for leaders to understand the terms and conditions of the bond, and honour their debt obligations. The borrowed capital comes with principal and interest repayments that must be managed, while bond instruments need to compete successfully with other types of investment. When properly executed with complete responsibility from the municipality, debt financing can be a sustainable approach to the development of affordable housing units for lower-income and vulnerable citizens.

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10 Municipalities have commonly used two classes of bonds: general obligation bonds and revenue bonds. Typically, general obligation bonds guarantee that investors will receive timely payment of principal and interest no matter what the cities’ financial circumstances. By contrast, revenue bonds carry the risk of not being repaid should the local authority not have the means to pay back investors.
v. Leverage public–private partnerships to encourage private capital and non-governmental expertise

Local governments do not generally have the capacity alone to finance, deliver and manage comprehensive affordable housing programmes. Therefore municipalities must work with non-governmental housing actors, including the private sector and civil society, to use participatory processes\(^{11}\) to develop strategic institutional partnerships with non-governmental housing actors (Christensen and Gabe 2018).

Engaging actors outside of government through public–private partnerships (PPPs)\(^{12}\) to finance housing does not just supplement municipal fiscal resources (Moskalyk 2011). PPPs also better align civil society and business partners towards delivering desired housing outcomes. As city resources are limited, partnering with private businesses and non-governmental organisations can be effective in both financing and delivering affordable housing. Thus, PPPs merit strong consideration from city governments as they consider approaches to promote the financing of affordable housing in their communities.

**Financing affordable apartments in the city of Jakarta**

PT Jakarta Propertindo, or ‘JAKPRO’, is a developer owned by the city administration of Indonesia’s capital, the largest urban area in the country. As part of its portfolio, JAKPRO finances and constructs housing for lower-income residents. Broadly, JAKPRO is involved in the development of infrastructure, including transportation and sanitation systems, as well as community facilities and low-cost rental units and subsidised apartments, called rusunawa and rusunami respectively. These housing units are produced in cooperation with local operator PD Pasar Jaya and Jakarta’s Housing Office.

The apartments are financed through capital injections, reportedly Rp 7.7 trillion, sourced jointly from Jakarta’s city government and the regional administration (Tambun 2015). The public mandate to promote housing for lower-income residents, combined with the private nature of its construction and maintenance operations, helps JAKPRO to remain fiscally solvent and generate profits while fulfilling a social responsibility role as a development agency contributing to the good of the wider community in Jakarta. Recently, JAKPRO has signed a cooperation agreement with the state-owned housing company PT Pembangunan Perumahan for additional affordable housing projects in the capital (The Jakarta Post 2015).

\(^{11}\) Historically, political entities with non-existent or underperforming fiscal systems have required or encouraged labour, as part of their participatory process, to support infrastructure and housing construction. The Inca Empire institutionalised mandatory service through the *mit’a* system whereby a majority of the year was devoted to community-driven projects performed by Incan citizens. Alternatively, in communities throughout sub-Saharan Africa, members voluntarily come together to build housing for themselves and the community. Each member brings the required building materials and the focus is on construction of one housing unit at a time. This process has been reported to promote belonging and togetherness among communities, as group members who do not need a house also participate in the construction process (Baitu 2010).

\(^{12}\) Although public–private partnerships take many forms, they may be defined as “a private consortium to assume the financing risk [in] two or more phases of the project’s life-cycle, include[ing] design and construction as well as maintenance and operation” (Moskalyk 2011, p. 2).
Under PPPs, the private sector produces affordable housing with oversight from the public sector. PPPs are well documented for generating efficiency gains in infrastructure construction and financing. (Moskalyk, 2011) They are able to bring private capital into developments which are socially needed, but not commercially viable independently.

Partnerships between city governments and the private sector have been proven to significantly contribute to lower costs and increased operating efficiencies for affordable housing projects. Besides cost savings and optimised infrastructure delivery, PPPs enable risk-sharing on affordable housing projects with the private sector. However, PPPs do require significant efforts and coordination to be effective and beneficial for both sides of the partnership. Local authorities should be vigilant in overseeing developments throughout the lifecycle of PPPs. Strong supervision can ensure contractors are meeting local authority standards. It is also advisable that municipal governments strategically adapt their requests to the changing needs and ongoing priorities of the community as they develop.

**Financing housing through public–private partnerships in Europe**

Partnerships have been effectively used to construct, maintain and operate low-income housing in developed countries, such as the USA, Australia, Ireland and the United Kingdom (Moskalyk 2011). Several European countries also use PPPs in other ways to support municipal finance for social housing. For example, German cities have municipal housing companies that are private entities governed under commercial law, but with their shares held by the local government (Urban 2015). In Sweden, social housing is funded by municipalities in conjunction with housing associations (Magnusson and Turner 2008). Finally, the Danish partnerships between local governments and the private sector are so successful that the social housing programme makes a positive contribution to the central government through the National Building Fund (Adamsen 2014; Andersen 2002).

The Netherlands offers a particularly interesting and complete case study. Dutch housing associations now fund all social housing investment in the country. Over half of Amsterdam’s housing stock is social housing (AEDES 2013), and more than 65% of the total assets Dutch associations use to fund social housing consist of borrowed money. Most housing associations borrow money from what are called sector banks, namely the Bank of Dutch Municipalities (‘BNG’) and the Dutch Water Board, which are institutionally guaranteed by the central government. For example, the central government has a 50% stake in BNG while the remainder is owned by municipalities and provincial governments (AEDES 2013). Housing association loans for construction of social housing units are facilitated through a Social Housing Guarantee Fund (‘WSW’). The partnership with WSW allows housing associations to access lower lending rates for social housing development loans (Gruis and Nieboer 2006).

Although municipalities are constrained in financing housing due to limited public resources, they still have a mandate to meet basic human needs, and they are also under increasing public pressure for greater accountability. These factors have led many local authorities to consider PPPs for housing, with these arrangements becoming increasingly permanent and comprehensive (Abdul-Aziz and Kassim 2011; Tang et al. 2010). PPPs can replace confrontation with collaboration, by building innovative
alliances between municipalities and housing developers and financial institutions. These can ensure the most efficient use of public and private resources in the pursuit of mutual gains.

The PPP approach to housing projects has typically included the creation of a joint venture company within which the private sector and municipal government jointly finance, own and operate a housing development. Risk is shared according to predetermined contractual provisions, based on each partner’s respective strengths and weaknesses. In this model, the municipal government often contributes significant fiscal resources and maintains overall control of the planning and development stages, but draws on the private sector’s resources and expertise in construction and design.

PPPs for financing housing merit consideration from municipalities. As government subsidies become increasingly limited, PPPs present a growing opportunity to engage a diverse range of housing actors and leverage capital and expertise. The advantages of this approach have the potential to make the difference in promoting access to affordable, formal housing for all.

**The way forward: sustainably developing city financing for housing**

As the world continues to urbanise, local governments will be required to increase their engagement on affordable access to adequate housing. Cities will encounter financial constraints in meeting local housing needs while concurrently developing municipal housing policies that serve their communities. Municipalities should not retreat from this challenge, but instead find innovative and pragmatic solutions to finance affordable formal housing in their cities.

Municipal leaders can consider the presented financial approaches to help finance the housing needs in their neighbourhoods. Depending on the circumstances, the municipality should first have a comprehensive understanding of present housing conditions in its constituency. Once these are well understood, the local government should develop a practical strategy to achieve its desired housing policies.

After sufficiently quantifying the financial requirements to deliver the housing strategy, the local government can then consider the financial approaches discussed in this article. Should subsidies or grants be available from national and regional governments, the local government can assess the merit of these funding sources, especially in terms of the future sustainability of these funds and the conditions that accepting monies may impose. The local government can also evaluate its fiscal standing in terms of municipal taxation and expenditure. Specifically, the municipality can examine ways to raise revenue or cut expenditure to meet the funding needs required for the desired housing programmes. This fiscal evaluation can even extend to examining non-taxation options, such as discounted land provision, strategic introduction of user fees or cross-subsidisation. In scenarios where these approaches are not sufficient, or income can be generated from investment, debt financing can be considered – either via financial sector loans or by issuing bonds, depending on the credit standing of the municipality.
Additionally, PPPs can be considered as an important tool for a local government to harness private sector expertise and work in a collaborative and mutually beneficial manner.

Regardless of a local government's circumstances, the five approaches outlined provide a starting point for city leaders and local policymakers to consider as they seek to expand access to adequate housing for their neighbourhoods. While these approaches are neither exhaustive nor applicable to each and every situation, they serve to provoke a dialogue on the role of cities in promoting affordable, formal housing accessible to the urban poor and the vulnerable.

Through improvements and innovations in revenue collection and coordination between different levels of government, private and other non-governmental actors, local governments can deepen financing for housing policies and programmes at the community level. The approaches detailed here provide an opportunity to reappraise the current system of public finance (Pugh 1994), where local government can develop a financial way forward on housing to fulfil their mandate of inclusive and sustainable urban development for all.

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