### **Governments Don't Have to Go It Alone**

# Leveraging public funds to attract commercial finance for improved water services

March 2015

#### INTRODUCTION

Public sector funds alone are often insufficient to provide access to water for all. The Water and Sanitation Program (WSP) of the World Bank's Water Global Practice estimates that in Sub-Saharan Africa alone there is an annual shortfall of US\$14.3 billion in the sector (see Figure 1). This brief demonstrates how governments can increase the overall funding available to the water sector by strategically using their limited public funds to attract additional financing from commercial lenders. Innovative public financing structures can even attract commercial finance into projects that target the poor, a historically underserved population segment.

Many countries suffering from inadequate water budgets to meet infrastructure needs have commercial financing institutions able to help cover some of the budget shortfall. However, water supply projects are often unable to secure commercial loans on their own. Governments, who can identify the common barriers between water service provider borrowers and commercial lenders, can play a key role in facilitating commercial financing in the sector.

This brief highlights the roles that governments can play and the mechanisms they can use to attract commercial finance into the water sector. This note also illustrates successful cases where water service providers have accessed commercial financing to expand coverage, often to serve poor areas. The brief summarizes the common constraints to commercial finance in the water sector and offers several financial structuring and risk mitigation strategies to overcome these constraints.

# COMMERCIAL FINANCE IN THE WATER SECTOR

Safe and reliable drinking water yields significant economic and social benefits. It has been estimated that meeting the Millennium Development Goals for water supply and sanitation could have a 7:1 benefit-cost ratio and generate US\$84 billion in time efficiency and health related savings

- Meeting the Challenge of Financing Water and Sanitation; Organization for Economic Cooperation and Development; Oct 2011; Available at: http://www. oecd.org/env/resources/48923826.pdf
- Costs and benefits of water and sanitation improvements at the global level (Evaluation of the); World Health Organization; 2004; Available at: http://www. who.int/water\_sanitation\_health/wsh0404summary/en/

#### **KEY FINDINGS**

- Governments don't have to go it alone in expanding water access. If public resources are used strategically, governments can leverage existing budgets into larger pools of financing by attracting commercial lenders to the water sector.
- Governments can play an active role in identifying hurdles and creating solutions. Governments can create a supportive enabling environment and de-risk projects to align the incentives between financial institutions and water service providers.
- The water sector can attract a range of lenders to commercial financing from small individual household loans from micro finance institutions to large infrastructure bonds issued in capital markets.
- Technical assistance is key. Service providers, lenders from small individual household loans from micro finance institutions to large infrastructure bonds issued in capital markets, and governments require assistance to overcome capacity and knowledge constraints in the introductory stage.
- Risk mitigation tools are available. Output-based aid subsidies, partial credit guarantees, and dedicated credit lines are tools that can incentivize commercial lenders and target the poor.

per year.¹ Every dollar invested in increasing access to improved water supply can return US\$3 to US\$34 dollars to a nation's economy.²

This high benefit to cost ratio is due to the multiplier effect that improved access to water supply has on a household's daily life. Yet, the task and costs of meeting the water service and supply needs are daunting. Increasingly, governments are unable to meet infrastructure development demand solely through public sector funds and must draw on commercial sources of financing to help meet sector needs.

This brief includes several examples where commercial finance has been mobilized for water sector infrastructure projects, including for poor customers, when:



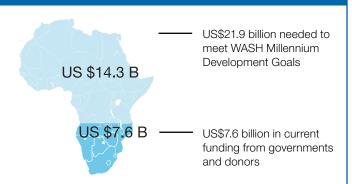


- 1. utilities are able to identify, design, and manage bankable projects, and
- financial institutions are able to assess the risks of water supply projects and have access to tools to help mitigate unacceptable risks, and
- 3. governments or donors play an active role to financially connect utilities and commercial lenders with supportive legislation, financial assistance and/or risk mitigation.

Governments must proactively step in to incentivize financial institutions to lend to the water sector and identify existing hurdles impeding lending. Water service providers often face multiple constraints in attracting commercial finance, due to:

- Perception of water as a social good with low ability to generate commercial returns.
- Enabling environment (regulatory, legal, policy frameworks) is unsupportive of commercial lending.
- Utilities with limited borrowing experience lack financial management capacity to structure commercially viable projects and obtain loans.
- Utility assets of insufficient value to meet collateral requirements of lenders.
- Infrastructure project life and asset depreciation beyond bank lending tenors.
- Low market intelligence resulting in project risk misperception.

# FIGURE 1: WASH PROJECTS FACE A US\$14.3 BILLION FINANCING GAP IN SUB-SAHARAN AFRICA



In sub-Saharan Africa, there is an estimated annual shortfall of US\$14.3 billion: governments, donors, non-governmental organizations, and households are anticipated to provide about US\$7.6 billion annually in financing for improved water supply, while the estimated annual need is US\$21.9 billion for water and sanitation.<sup>3</sup>

#### **BOX 1: "MAJI NI MAISHA" COMMUNITY LOANS**

In Kenya, K-Rep Bank Limited, introduced "Maji ni Maisha" a financing product that provides loans to communities for water infrastructure. This program demonstrated that a combination of technical assistance, output-based grants, and partial loanguarantees can overcome perceived credit risks and other barriers to financing water projects. Today, K-Rep Bank has made 35 loans valued at over US\$3 million to water projects across Kenya's rural communities, providing water to about 190,000 people from networks they financed themselves. Products like these can easily be replicated by national governments to leverage commercial financing of water projects.

From 2006, WSP worked with K-Rep Bank, a commercial bank with microfinance origins in Kenya, to pilot a small program to finance community-managed piped water systems. <sup>5</sup> Through "Maji ni Maisha", K-Rep Bank provided loan financing for community water projects under the general terms below.

- Loan Value: KSH 5 to 10 million (approximately US\$60,000 to US\$115,000)
- Borrower: Legally registered community associations, selfhelp groups and trusts
- Equity Requirement: 20% of project cost in cash
- Interest Charged: Fixed at market rates, at that time between 16% and 18% per annum
- Maximum Loan Tenor: Maximum 1 year grace period + 5 year term loan
- **Subsidy:** Up to 40% of eligible project costs based on achievement of the pre-set connection and revenue targets

K-Rep Bank successfully lent to projects with an average loan size of US\$110,000. Following the successful construction of the project and achievement of targets, an output-based aid subsidy of up to 40% of the total project cost was paid to the community-significantly reducing the payback burden and lowering the debt service risk.

To address the perceived credit risk of water projects, K-Rep Bank provided technical assistance to make projects more viable. The program offered a small (US\$9,000) grant to co-finance with communities consultants and other costs necessary to support the development of a bankable project proposal. If K-Rep agrees to finance a project, it offers a subsequent grant of up to US\$12,600 for consultancy services to oversee project construction and set up management systems.

The Global Partnership on Output-Based Aid (GPOBA) provided an initial grant for this project of US\$1.15 million. Since that grant was issued, K-Rep Bank has made 35 loans valued at over US\$3 million to water projects servicing more than 140,000 people in rural communities.<sup>5</sup>

Africa's Infrastructure: A Time for Transition. Vivian Foster and Cecilia Briceno-Garmendia, editors; 2010; World Bank; Available at: http://www. infrastructureafrica.org/system/files/Africa%27s%20Infrastructure%20A%20 Time%20for%20Transformation%20FULL%20TEXT.pdf

Financing Investment in Water. K-Rep Bank. Available at http://www.wsp.org/sites/wsp.org/files/publications/Maji\_ni\_Maisha\_HandBook.pdf

Financing Small Piped Water Systems in Rural and Peri-Urban Kenya; World Bank Water and Sanitation Program; Sep 2011; Available at: http://www.wsp.org/sites/wsp.org/files/publications/WSP-Financing-Small-Water-Systems-Kenya.pdf

#### **COMMERCIAL FINANCING AVENUES**

The commercial financial sector offers multiple avenues for financing projects of varying size. This section describes the typical commercial financing avenues available for water infrastructure projects, outlines major barriers to introducing investment, highlights examples of successful financing mechanisms, and clarifies the role that governments can play in order to introduce commercial finance to the sector.

#### Microfinance Institutions

Microfinance institutions (MFIs) are often intimately tied to a community and focused on lending to the poor. As such, they are a natural fit to provide financing for water supply projects. Yet, many MFIs have limited capital and lack the technical resources to correctly evaluate water projects. As a result, many projects are unable to secure loans from MFIs regardless of their ability and willingness to repay.

One fundamental problem is that MFIs cannot provide loans with long enough maturities to meet the needs of many water projects. Most MFIs provide small loans for incomegenerating investments, usually without collateral. With the added revenue borrowers can reliably pay back their debt over a shorter repayment cycle, typically 12 to 18 months, but the lack of collateral is a concern. As such, MFIs prefer short tenors, particularly for new clients, as it helps reduce default risk.

In contrast, water service providers need loans for activities that, while income generating, have longer repayment needs. For instance, a water service provider may seek a loan to increase its production capability in order to expand service coverage; however, such an infrastructure installation would likely require multiple years to repay, well beyond the typical microfinance cycle.

#### What can governments do to help?

Governments can leverage public funds by creating partial output-based subsidies for MFIs that lend to water service providers (see Output Based Aid in the Tools section below). The subsidy acts as an additional cash stream for the MFI and reduces payback risk. As smaller infrastructure construction projects often reach completion within one to two years, water service providers can use the output-based subsidy to pay down the loan, shortening the average life of the loans. Donor subsidy programs like the Global Partnership on Output-Based Aid (GPOBA) can assist governments with initial pilot subsidy programs.

Governments can also fund MFIs directly by matching investment capital funds (equity) or offering subsidized dedicated credit lines (debt) for MFIs committed to lending to the water sector. Increasing the capitalization funding of

these MFIs should increase lending to the water sector, thus leveraging public funds by attracting increased commercial financing and extending tenors of average loans.

#### FIGURE 2: GOVERNMENTS CAN BRIDGE THE GAP **BETWEEN LENDERS AND BORROWERS** Finance Microfinance Commercial Banks Pension Funds Source Water suppliers need Borrowers need long-term loan tenors loans with large, long-term What do that match the reasonable collateral loans for incomeborrowers generating depreciation of their requirements and need? assets interest rates infrastructure projects MFIs need short-term Commercial banks Pension funds returns that match the need to structure need an incentive What do expectations of loans to account for to invest and need lenders need? investors as well as loan risk accurately to be able to the capital necessary assess project risk to lend Provide output-based Help banks Create favorable What can subsidies that match understand risk; offer regulatory aovernments the needed returns of subsidies to help incentives for do to close MFIs: offer or match households pay for investment the gap? dedicated lending water: lend directly to lines to MFIs banks

#### **Commercial Banks**

Water suppliers also experience difficulty in securing loans from traditional commercial banks. Most commercial lenders are generally unfamiliar with the water projects as a whole and are unfamiliar with credit analysis of water utilities and structuring project- or cash flow-based loans. As a result, they are unable to correctly appraise the risk of water providers, and often overestimate the actual risks involved, particularly when low-income customers are involved—who are often incorrectly viewed as having a low willingness and ability to pay for water. These factors lead lenders to require collateral levels that are often above the value of the loan and discourage lenders from lending long term.

#### **BOX 2: COMMERCIAL BANK LOAN IN UGANDA**

The Government of Uganda sought the support of donors and NGOs to review the financing conditions and constraints faced by water operators in Uganda and offer technical assistance trainings to local banks to understand their ability to finance water suppliers. As a result, Trandint, a private water operator, was able to receive a US\$100,000 loan from DFCU Bank, a Ugandan commercial bank, to expand piped water services. The provider agreed to install 400 new water connections during the first two years of the contract, expanding service to 13,000 people.

### What can governments do to help?

Governments, often with assistance from donors, can create facilities to help commercial banks overcome their reluctance in lending to the sector. Governments need to ensure that the legal and regulatory environment is conducive to commercial borrowing by the water sector. For example, in Kenya, water service providers are established as independent entities under the Companies Act and the regulatory board allows for the inclusion of commercial financing costs in setting cost-recovery tariffs.

Sector-specific partial credit guarantees for loans can lower or even remove collateral requirements. Technical assistance programs can train banks to analyze credit and sector risks and train service providers to understand commercial lending requirements. Output-based aid subsidies can reduce default risk and the average life of loans. Dedicated lending lines from governments to banks can allow banks to offer longer loan tenors often at fixed interest rates.

#### **Pension Funds**

Pension funds can be a major source of long term finance, especially when incentivized by the government to allocate a certain portion of portfolios to infrastructure projects. The long horizon and relatively stable return of most water utility projects generally fit very well with the asset class investment needs of pension funds. Pension funds often have less stringent collateral requirements and are more comfortable with cash flow based lending; however, pension funds have many of the same reservations about investing in these projects as commercial banks.<sup>6</sup>

#### What can governments do to help?

Governments can create favorable conditions, through both legislation and regulatory oversight, for pension funds to invest in infrastructure projects. For example, regulators can set requirements on the type of projects that pension funds can finance. Governments can also offer incentives like partial guarantees on bonds or bond facilities that create favorable risk dynamics for long-term investors. These are often backed by guarantees and supported by equity positions of donors and/or governments. This facility allows pension funds to invest in products that have partial risk protection and diversifies investor risk into multiple projects and counterparts. However, bond issues are usually substantial investments and require large institutional investors as well as a highly developed capital market.

- Tuesta, David; Pension fund as an investor in infrastructure projects in Latin America; Presentation hosted by the United Nations, The World Bank, The Asian Development Bank; Feb 2012; Available at: http://www.oecd.org/site/iops/research/47846215.pdf
- Requena, Sixto and French, Laura; Local Financing of Water Utilities: The World Bank Group, Jun 2010; Available at: https://www.wsp.org/sites/wsp. org/files/publications/WSP-LAC-TP-Local-Financing-Utilities.pdf

# **BOX 3: PENSION FUNDS SUPPORT CONSORCIO AGUA AZUL IN PERU**

In 2000, the Peru state-owned water utility awarded a concession contract to Consorcio Agua Azul (CAA) for a drinking water production plant. In 2001, Peru's private pension funds regulator encouraged fund managers to allocate financing to infrastructure investment and CAA issued a bond facility on the Lima stock exchange for a maximum US\$45 million. By 2003, private pension funds had purchased approximately US\$18 million. The Government of Peru helped encourage pension fund involvement by including a take or pay agreement in the concession contract backed by a sovereign guarantee-thus guaranteeing some cash flow for the project and encouraging both the pension funds and CAA to take risk. By 2009, pension fund investments in infrastructure totaled approximately US\$2.9 billion, though these investments were primarily targeted at telecommunications, roads, and energy. This represents a considerable portion of the total infrastructure funding gap in Peru of approximately US\$38 billion.8

#### **CONSTRAINTS TO COMMERCIAL FINANCE**

Despite the opportunities for increasing the flow of private finance in water sector, constraints need to be overcome:

- For governments: Policy, legal, and regulatory constraints of the enabling environment.
- For lenders: Market intelligence and sector risk and risk mitigation strategy constraints.
- For borrowers: Water Providers' technical capacity.

#### **BOX 4: TAMIL NADU POOLED BOND FACILITY**

In India, the majority of Urban Local Bodies historically relied on subsidized funding from state governments using state government guarantees. This limited the funding available for infrastructure projects, especially as the Government of India moved to limit state government guarantees. In Tamil Nadu, the state government created the Water and Sanitation Pooled Fund to leverage financing for high priority water and sanitation projects in small- to medium-sized towns without relying on state grants. Though the bonds were unsecured, they were backed by a multi-layered structure that included a deed against revenues and state transfer payments, a state-funded fund that held about 22% of the value of original bond issue in reserve, and a USAID 50% credit guarantee. The pooled bond facility enabled the Tamil Nadu State Government to leverage the equivalent of a US\$1.1 million reserve and a US\$500,000 credit guarantee to finance US\$5 in million water projects.

- Tuesta, David; A balance and projections of the experience in infrastructure of pension funds in Latin America; Available at: http://www.bbvaresearch.com/KETD/fbin/mult/A\_balance\_and\_projections\_of\_the\_experience\_in\_infrastructure\_of\_pension\_funds\_in\_Latin\_America\_tcm348-221384.pdf?ts=1732014
- US Agency for International Development. "Pooled Finance Model for Water and Sanitation Projects: The Tamil Nadu Water and Sanitation Pooled Fund (WSPF). Note No 31. May 2003. Available at: http://pdf.usaid.gov/pdf\_docs/PNACT334.pdf

#### For Governments: Enabling Environment Constraints

Without a supportive policy, legal, and regulatory environment, extending commercial financing to water utilities will fail. Often, laws preclude lending to or borrowing by water service providers. There is no magic formula for an optimal regulatory environment-both too much and too little centralization can hamper decision making. Tariffs that are too high or too low can reduce water revenues; while, overly stringent or relaxed standards can negatively impact consumers and utilities. The key imperative for governments is to help align the incentives of financial institutions with the needs of water suppliers, either directly through policy mechanisms and/or by convening partnerships with organizations that can help.

Many utilities and lenders cite the lack of a cost-recovery tariff as a major barrier not only to securing commercial loans but also to providing water services to poorer consumers. Political pressure and bureaucratic inertia frequently result in tariffs that remain unchanged for years, despite operating costs rising with inflation. Slowly, utilities lose their ability to maintain high levels of service and make infrastructure improvements. When utilities are unable to meet current obligations or capitalize infrastructure expansions, they are unlikely to extend piped water to poor households. As a result, the poor must buy water from informal vendors, who often do not adhere to regulator set cost recovery tariffs and charge higher-than-market rates.<sup>10</sup> Some local government entities do not segregate the costs of their different services in a way that allows them to identify only costs related to water service—a practice known as ring-fencing. Ring-fencing allows utilities to set water tariffs that accurately reflect the cost of providing water and allow for full cost recovery. Often water service providers do not legally own the assets of, or have legal control over the cash flows of, the company. This increases the risk to lenders who depend on assets.

#### **BOX 5: WATER LICENSES IN CAMBODIA**

Cambodia issues licenses to water operators for a period of one to three years. 11 The short license time makes planning and securing financing difficult, as many water providers depreciate equipment over a period of 50 years. The license period is insufficient to give investors confidence that they can recover their investment, despite only one instance of a license renewal being denied. The Royal Government of Cambodia is currently considering reforms to extend the water licensure period from three years to 25. These reforms would also create clearer procedures for license issuance and renewal, giving investors greater confidence in their decisions to lend to water operators.

#### For Lenders: Market Intelligence Constraints

Commercial financial institutions often perceive a high level of risk in water supply projects and are reluctant to lend, especially to projects that are primarily focused on serving the poor. Yet many projects have demonstrated success in expanding water services to the poor without loan defaults. The key problem is that most financial institutions are not familiar with the water sector. Often they are not able to assess the creditworthiness of a water provider, especially a small provider. Lenders do not understand the operational cycles of water providers and don't have a track record of lending to the sector. As a result, they often impose loan collateral requirements that are difficult for borrowers to meet.

Governments, often with donor support and assistance, can work with financial institutions to overcome these constraints. Through education and outreach governments can help commercial lenders to accurately assess the risk of water supply projects and understand the policy, financial, and technical assistance mechanisms available to reduce risk and increase the creditworthiness of borrowers. During the initiating stage, governments, along with donor assistance, can also provide risk mitigating tools, such as partial credit guarantees and dedicated credit lines, to support financial institutions during the pilot transactions.

#### FIGURE 3: CONSTRAINTS OF CRITICAL WATER **STAKEHOLDERS**

Stakeholder

Government



Lenders



Utilities / **Borrowers** 



What is the critical constraint? Local and national laws and policies hinder rather than catalyze loans to water projects

Lenders perceive too much risk and lack the market intelligence to assess the technical viability of projects

Borrowers face capacity constraints, especially around loan management and internal controls

What will help overcome these constraints? Focused policy reforms that encourage lending; technical assistance to governments

Partial credit guarantees, direct lending, subsidies, technical assistance, credit assessments

Technical assistance from governments, donors, and other utilities

<sup>&</sup>lt;sup>10</sup> Walker, Ian; Ordoñez, Fidel; Serrano, Pedro; Halpern, Jonathan; Pricing, Subsidies, and the Poor, Demand for Improved Water Services in Central America; The World Bank; Nov 2000; Available at: http://www-wds. worldbank.org/external/default/WDSContentServer/IW3P/IB/2000/12/15/000 094946\_00111805312992/Rendered/PDF/multi\_page.pdf

<sup>&</sup>lt;sup>11</sup> Mahé, Jean Pierre; Building water utilities with local private entrepreneurs The example of the MIREP program in Cambodia; World Bank Water and Sanitation Program. Available at: http://wsp.org/sites/wsp.org/files/ publications/Building-Water-Utilities-with-Local-Private-Entrepreneurs.pdf

#### For Borrowers: Capacity Constraints

Many water service providers lack the size, internal processes and controls, and technical capabilities to approach financiers and manage loans. Lenders are often hesitant to extend loans to small water service providers because transaction costs can be high relative to the loan. Utilities may be unable to demonstrate water tariff revenues are sufficient to support loan repayment and lack the expertise to identify bankable projects, model financial outcomes, and approach lenders.

# TOOLS FOR CATALYZING COMMERCIAL FINANCE

Governments can use a number of mechanisms to overcome stakeholder constraints and obstacles to introducing commercial finance for water supply projects. These mechanisms include output-based aid subsidies, partial credit guarantees, dedicated credit lines, credit ratings, legal and regulatory policy, and technical assistance.

#### **Partial Credit Guarantees**

Partial credit guarantees are designed to encourage lending by reducing the loss a creditor experiences during a borrower default or by reducing the risk of default on a loan. Guarantees usually require a fee, a deed on receivables and certain project requirements. Partial credit guarantees are designed to give commercial lenders greater comfort in lending to new sectors and can encourage more lending, extend loan tenors, and reduce collateral requirements.

There are many variations of partial credit guarantees. Some are designed to simply cover a percentage of the loan in the event of default while others are structured to reduce the probability of default, increase the recovery if default occurs, and/or extend loan maturity. In general, the objective should be to target specific risk local lenders will not cover and offer the minimum guarantee to facilitate a transaction.

#### **BOX 6: KARAWETI WATER TRUST PROJECT IN KENYA**

Karaweti Water Trust is a small piped water provider that sought to increase membership and revenue collection by providing more reliable water service. The Trust developed a project that installed a new borehole to supplement its existing supplies and customer-level meters. The project was financed with equity from the community, a loan of US\$54,000 from K-Rep Bank, a grant of US\$26,000 from GPOBA and technical support from WSP. The Trust was able to increase its number of connections by 38%, average monthly revenue by 90%, and 7 day/week water service from 8% to 87%.

### Jamora, Lorenzo H, Local water Utilities Administrator, Quezon City, Philippines; Credit Rating System to Enhance Credit Flow for Water Supply Projects in the Philippines; Technical Matters; 2008; Available at: http://www.lwua.gov.ph/tech\_mattrs\_08/credit\_rating\_jamora.htm

#### **BOX 7: DEDICATED LENDING TO CAMBODIAN BANKS**

In 2011, PROPARCO provided an eight year, US\$5 million credit line to Hattha Kaksekar Limited (HKL), a Cambodian microfinance institution that plays an active role in lending to remote and underserved rural areas. The credit line helped HKL expand its portfolio of loans to small and medium enterprises in low-income Cambodian communities. In 2014, Agence Française de Développement announced a US\$15 million concessional loan to the Foreign Trade Bank of Cambodia to make loans available to small private water and electricity companies in rural and peri-rural areas in Cambodia. The loan was provided in conjunction with a US\$15 million portfolio guarantee that helps the Foreign Trade Bank reduce collateral requirements for small operators seeking loans.

However, many governments are increasingly concerned about the impact of these contingent liabilities on the nation's fiscal health.<sup>12</sup> Therefore, governments should closely track the issuance of credit guarantees and play an active role in limiting contingent liabilities.

#### **Output-Based Aid**

Output-based aid (OBA) is an incentive-based approach to catalyzing commercial finance. In an OBA model, a government or development partner provides a subsidy payment to the borrower if a project achieves a pre-specified level of output (e.g., connections made, water supplied). These subsidies can also target efficiency gains such as a reduction in non-revenue water. OBA gives lenders greater confidence in the cash flow of operators, enabling reductions in collateral and can significantly reduce default risk and shorten the average life of loans.

# BOX 8: CREDIT ASSESSMENT OF 43 UTILITIES IN KENYA

In 2011, Kenya Water Services Regulatory Board (WASREB) conducted a credit assessment of 43 Kenya utilities. This resulted in thirteen utilities receiving an A or BBB rating (creditworthy), sixteen receiving a BB rating (potentially creditworthy) and fourteen utilities receiving "no rating." In May 2014 the Kenya Embu Water and Sanitation Company received an 87 million shilling (US\$1 million) loan from Housing Finance Company of Kenya (HFCK) to construct a water pipeline. This is the first commercial loan issued by HFCK and will expand connectivity to 6,000 households.<sup>13</sup>

Gachiri, John. 2014. HF loans Embu water firm Sh87m for new connections. Business Daily Afica. May 2014. Available at: http://www.businessdailyafrica.com/HF-loans-Embu-watrer-firm-Sh87m-for-new-connections/-/539552/2322536/-/8atlyg/-/index.html

#### FIGURE 4: GOVERNMENT TOOLS CAN EXPAND ACCESS TO COMMERCIAL FINANCE Tool **Output-Based Aid Credit Guarantees Credit Assessment Technical Assistance Dedicated Lending Encourages** Gives lenders Makes risk of Helps lenders Helps service How does this financial institutions greater confidence default more understand providers overcome tool expand in the cash-flow tolerable to lenders borrower risk and capacity constraints to lend or increase access to potential of and can reduce risk borrowers establish that can be barriers lending, especially commercial of default in some borrowers credit histories to borrowing for SMEs finance? cases Provide subsidy Provide partial Set consistent Offer direct Convene donor funding and credit quarantees: standards for credit technical funding and/or What can project technical track obligations to assessment or assistance or lend directly to government do assistance ensure solvency of commercial directly provide convene third to help? lenders obligations assessments parties like donors to provide directly

#### **Dedicated Credit Lines**

Governments and donors can encourage financial institutions to increase lending to the water sector by providing dedicated credit lines to financial institutions under the condition that funds be used for water and sanitation infrastructure projects. This conditionality can restrict financial institutions to make loans to water service providers or to projects designed specifically to increase water service to the poor. Governments can either provide funds directly to commercial banks or collaborate with donors to secure lending commitments.

#### **Credit Rating Assessments**

Many commercial lenders have little to no exposure to water supply projects, and utilities often have no financial track record of having secured and successfully paid off commercial loans. Without a standard approach to rating water utilities, lenders have limited inputs and ability to assess the relative risk of water supply projects. Governments can develop a uniform set of creditworthiness standards for water utilities by facilitating partnerships with credit rating organizations. For example, the Government of the Philippines established a Water District Credit Rating System, which classifies districts as either creditworthy, semi-creditworthy, pre-creditworthy, or non-creditworthy. Creditworthy water districts are ready for investment, whereas less creditworthy districts provide opportunities for technical assistance targeted to address their weaknesses.

Providing credit ratings helps water service providers establish credit histories, improves their visibility and bankability with development institutions and private lenders, and aids in benchmarking water service providers with corporate entities.<sup>14</sup>

#### **Technical Assistance**

Governments have a tremendous opportunity to provide direct technical assistance and/or to bring lenders and water service providers together with organizations that can provide technical assistance to overcome capacity constraints. Many water service providers do not have the capacity to identify bankable projects, design and implement internal controls to be considered creditworthy, apply for loans, or manage projects once funded. Likewise, many financial institutions, especially MFIs with small staffs, lack the knowledge to assess the technical merits of a project proposal. There are a number of examples of technical assistance partnerships that expanded access to finance. Moreover, technical assistance would likely be required to support the introduction and use of all market catalyzing tools covered in this section. Technical assistance can also help both water service providers and potential financiers understand the willingness to pay of poor households for piped water. Many stakeholders do not realize that the poor often pay dramatically more for water from informal private vendors than the prevailing tariff rate. For example, in Tanzania, UNDP found that one private water vendor was charging almost 30 times the local water tariff for a jerry can of water.<sup>15</sup> Understanding willingness to pay will give commercial lenders greater confidence in the revenue-generating potential of a project, and encourage reduced collateral requirements and/or lower cost of borrowing.

<sup>&</sup>lt;sup>14</sup> US Agency for International Development. Manual of Credit Rating for Water Districts in the Philippines. Available at: http://pdf.usaid.gov/pdf\_docs/PNADL938.pdf

<sup>&</sup>lt;sup>15</sup> Bayliss, Kate; Tukai, Reema. Services and supply chains: The role of the domestic private sector in water service delivery in Tanzania. United Nations Development Programme. Oct 2011. Available at: http://www.undp.org/content/dam/undp/ library/Poverty%20Reduction/Inclusive%20development/Tanzania-Water.pdf

### BOX 9: RING-FENCING IN THE PHILIPPINES

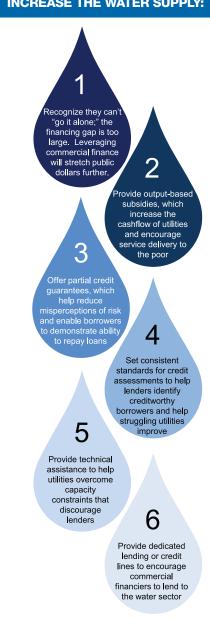
In 2011, the Government of the Philippines launched the Salintubig Project, which provides technical assistance to water supply systems for the 455 waterless areas in the country. Technical assistance included workshops on planning and engineering design, construction supervision, and local water governance, and focused on enhancing the capacity of local government units to implement best accounting practices. Since the launch of Salintubig, the project has transitioned 47 public water utilities to a ringfencing system, enabling those utilities to more effectively set cost-reflective water tariffs.

#### CONCLUSION

There is a considerable gap between the water supply needs, especially in poor communities, and the financial ability of governments to meet those needs. It is unlikely that governments will be able to close this gap by relying solely on public funding and direct donor funding. Governments should strategically stretch public and donor funding to leverage commercial finance into the water sector. However, water service providers and lenders often require government assistance to clear the multiple barriers to introducing commercial financing into the water sector.

There are many examples where governments and donors have worked together to develop and scale efforts to overcome these barriers and catalyze commercial financing in the water sector. WSP has successfully assisted governments, water service providers and commercial financiers in several countries to develop innovative financing to facilitate lending to the water and sanitation sector.

FIGURE 5: WHAT GOVERNMENT CAN DO TO LEVERAGE COMMERCIAL FINANCING TO INCREASE THE WATER SUPPLY:



### About the Author

Kevin Bender is a Senior Financial Specialist at the World Bank's Water and Sanitation Program. He leads the Commercial Finance Cluster in the Domestic Private Sector Participation program and structures financial instruments for water utilities.

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### **About WSP**

The Water and Sanitation Program is a multi-donor partnership, part of the World Bank Group's Water Global Practice, supporting poor people in obtaining affordable, safe, and sustainable access to water and sanitation services. WSP's donors include Australia, Austria, Denmark, Finland, France, the Bill & Melinda Gates Foundation, Luxembourg, Netherlands, Norway, Sweden, Switzerland, the United Kingdom, the United States, and the World Bank.

The Water and Sanitation Program has been engaging commercial lenders across several countries to address supply and demand-side barriers to commercial finance in the water sector. As part of its ongoing efforts to help water, sanitation, and hygiene projects use commercial finance more effectively, WSP solicited feedback from lenders and borrowers involved in sector projects and conducted original research on the successful application of commercial finance in water supply projects.

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