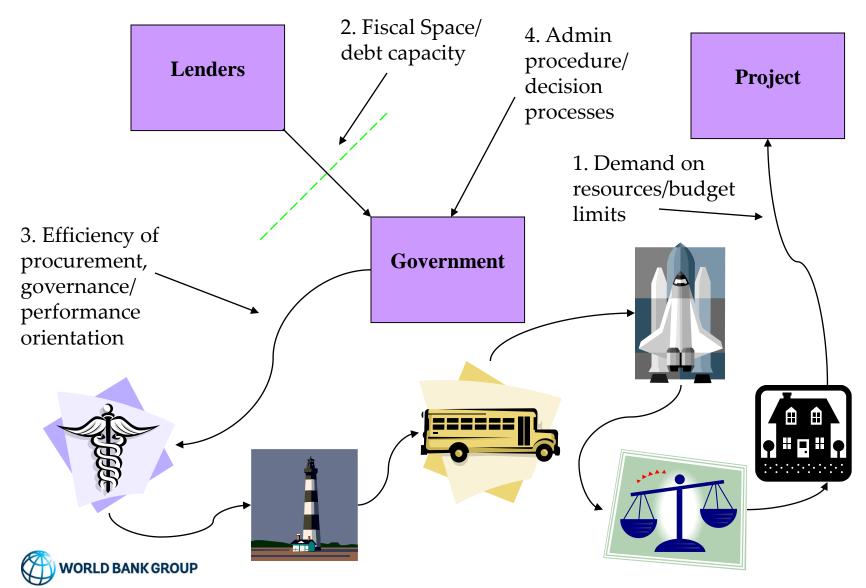


Municipal Public Private Partnerships Academy

Sao Paolo, Brazil September 2019

Local Government Priorities



Institutions working together

Public and private working together

Public and public working together

Community

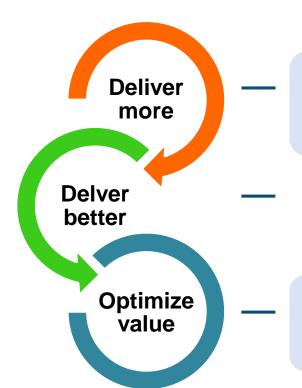




GET SOMEONE ELSE TO DO IT DO IT YOURSELF Reproduction rights obtainable from www.CartoonStock.com



Why PPP?



Use private capital to increase the amount of infrastructure that can be delivered within the same fiscal space

Private companies do some things better, e.g. innovation, service delivery, commercial orientation, operational efficiency – leverage the distinct incentives and capabilities of private partner to create "win-win" arrangements

Well designed / managed PPPs can deliver high-quality infrastructure at a better cost to the municipality as compared to traditional, public delivery





Municipal PPP Framework

- Guidance Note
- 20 Modules
- 100 Project Summaries

www.thegpsc.org

www.worldbank.org/ppplrc

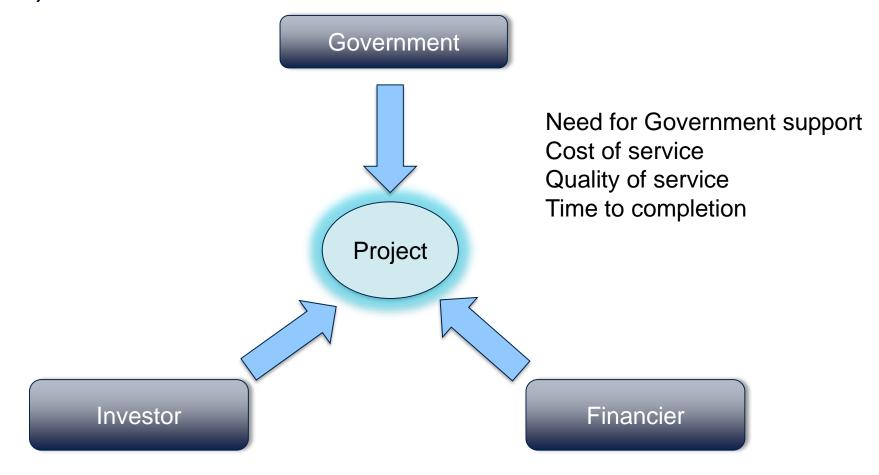
Modules:

- 1 Municipal Readiness
- 2 Project Concept Assessment Tool
- 3 Sample Project Concept Note
- 4 Feasibility Study
- 5 Managing Consultants
- 6 Sample Consultant ToRs
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- 8 Sample RFQ
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Decision Makers



(Un)Common Interests



Construction risks/returns
Equity returns
Control of project
Political/country risks

Certainty of revenue stream
Cushion in returns
Political/country risks
Protection in extremis



(Un)Common Interests

Community

Leverage existing services
Mobilize new services
Support evolution of community, eg jobs

Sectors

Different sector needs/opportunities Leverage between sectors Interfaces

Investors

Space where investor can influence success
Scope of delivery – get creative Consortia

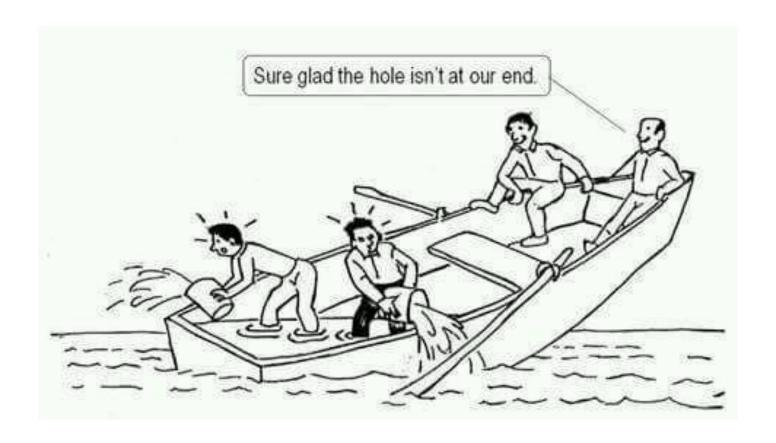
Commercial actors

Leverage existing commercial opportunities

Mobilize new commercial opportunities

Project

We are in this together









A divorce is Messy and Expensive

SYNERGY

1+1=3





The Alphabet Soup of PPP

Private Mixed **Public**

Management of Service provider

Divestiture Joint Venture Public Water Co. Lease contract, Concession, Affermage Output contract, Outsourcing Corporatisation Management contract, Franchizing, O&M, Performance contract Service BOT, BOOT, RLT, ROT, DBFO, contracts DCMF, IPP, BOO Municipal Cooperative, or Provincial Authority **Twinning**

WORLD BANK GROUP

Public

Control of Assets

Mixed

Understanding PPP – Myth vs. Reality

- o PPP is not "free money"
 - Someone will pay users, other beneficiaries, government
- Revenue is the lifeblood of a PPP
 - Carefully select the fairest, most sustainable revenue source(s) – tariffs, ToD, public contributions/support

- PPP is not "cheap" or "easy"
 - Project preparation time and cost
 - Direct and/or contingent liabilities for public partner
- PPP can and should be better
 - Compared to other options for delivering the project, i.e. "value-for-money"

- PPP is not "privatization"
 - Project assets are owned by government or ultimately revert to government ownership
- PPP transfers significant, long-term control to the PSP
 - Cannot be undertaken lightly
 - Requires strong engagement/communication with affected communities and stakeholders





Risk Transfer – How Much is Too Much?

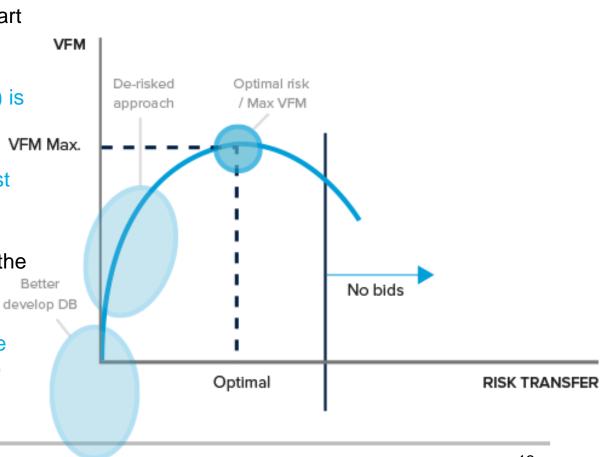
Proper risk allocation is at the heart of a good PPP

Transferring risk to the PSP (financing, construction, demand) is a key benefit to the Municipality

But transfer too much risk and it may lead unduly increase the cost of capital and/or lead to project failure

Project structure largely dictates the risk allocation

As the PSP's control over the project increases, so too does the amount of risk it may be asked to bear (and vice versa)









Country and Political risk







Who takes which risk?

Project Specific Risks

"non sovereign risks"

- Completion Risk (engineering & construction cost, time, performance, defects)
- Operational Risk (technology, quality, cost, technical & operational know-how)
- Environmental and Social Risk (future) liabilities, project delays, costs overruns)
- Credit Risk (project leverage)

Country (Economy wide) Risks

"sovereign risks"

- Political Risk (expropriation, political violence, Gov't breach)
- •Regulatory Risks (pricing formulas, right of way, currency convertibility & transfer)
- Legal Environment (rule of law, judicial system, access to justice and arbitration)

†	market?)	4
	Environmental Risk (past liabilities)	

Pricing Risk (regulated and nonregulated)

Financial Risk Inflation, refinancing risk, interest rate and exchange rate fluctuations





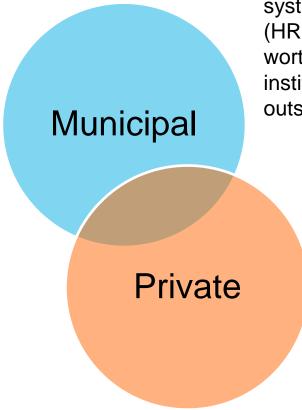
Sample risk allocation matrix for PPP projects

	Types of risk	Public sector	Private sector
1.	Location risk		
	Land acquisition	Typically mostly public	
	Land condition (including pollution and environmental safety)	Typically mostly private	
2.	Design, construction and operational test risk		y mostly private
3.	Sponsor risk Includes default of sponsor, contractor	Typicall	y mostly private
4.	Financial risk Includes failure to reach financial close, interest rate, exchange rate and inflation fluctuation (non-extreme)	Typicall	y mostly private
5.	Operational risk Includes provision of the facility, wrong estimation of O&M costs, etc.	Typicall	y mostly private
6.	Market risk Related to users' affordability and willingness lower than the feasibility level	Could b	e either
7.	Network connectivity risk	Typically mostly public	
8.	Interface risk	Typically mostly public	
9.	Political risk		
	Currency inconvertibility and non-transfer, expropriation, changes in legislation including on taxes and permits, GCA default	Typically mostly	public
	Reasonable changes in legislations	Typicall	y mostly private
0.	Force Majeure risk	Typically	shared
		Typicall	y mostly private

Each project needs a unique structure which meets its specific needs: there's no 'set' risk allocation



Know Your Context



Planning/budgeting systems, internal capacity (HR, funding), creditworthiness, legal & institutional framework, outside assistance

Distinct concerns of importance to private investors – what makes a good investment?



Tool

Module 1: Municipal Readiness

Assessment - framework for assessing a municipality's readiness to implement PPP

Module 19: Private Sector Context - in-depth discussion of private sector concerns









Project Appraisal: Viability Factors

Description

Assessment

Financial viability factors

- Signify the project's ability to generate sufficient cash inflows to meet all its cash outflows, and provide for future growth
- Usually assessed via (i) net present value analysis, (ii) internal Rate of return analysis, (iii) payback period calculation, and (iv) debt service cover ratio calculation, (v) Sensitivity analysis

Economic viability factors

- Signify public "profitability" and the developmental effect of the project on the society/economy as a whole
- Usually assessed using (i) economic rate of return analysis, (ii) laws and regulations analysis, and (iii) current demand and demand growth analysis

Technical viability factors

- Signify the project's basic design, availability of raw materials, basis of the cost estimation, construction schedule, implementation plan, performance and output specification
- Usually assessed by technical experts/ advisors relating to specific technical parts of the project

Environmental and social viability factors

- Verification that this is the optimum solution
- Signify the identification of environment and social characteristic and the project's impact towards them
- Usually assessed using (i) environmental impact analysis, (ii) social impact analysis for the surrounding community, and (iii) land clearing planning



Funding PPP – Who Pays?

- 1. Sustainable revenues from direct beneficiaries (e.g. tariffs)
 - 2. Capture a portion of any land value increase (LVC)
 - 3. Maximize potential commercial revenues (e.g. advertising)
 - 4. Consider public support (grants, payments, guarantees)

Recall that someone must pay (users, taxpayers) - so allocate cost in the most equitable, sustainable manner possible

Tools

Module 16: Harnessing Land **Value Capture Module 17: Capturing Commercial Value**

Information on maximizing revenues from a PPP project









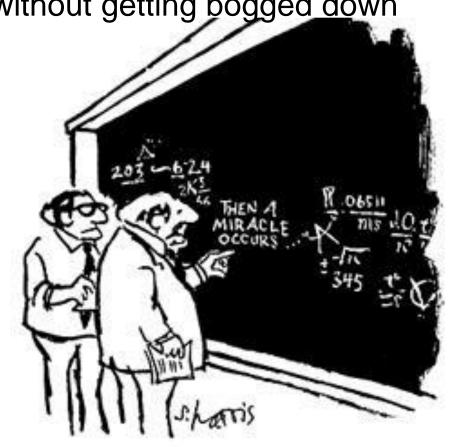


Think differently about infrastructure

Don't focus on the asset, think about the opportunity.

Consult with all stakeholders, without getting bogged down

- Get the right partners
- Don't let the financing lead
- Show me all of the money
 - ✓ Service revenues
 - ✓ Other service revenues
 - ✓ Land value capture
 - ✓ Commercial value capture
- ✓ Other public benefits





"I think you should be more explicit here in step two."

Intercity Bus Terminal - Amritsar, India

Demolishing the existing terminal building and complex and development of a modern state of the art Intercity Bus Terminal.

Under operation by a private operator since 2005 after an initial construction period of 2 years with a concession period of 11 years and 5 months.

Revenue streams

- Collection of "adda fees" i.e. charges payable by buses for use of terminal facilities,
- Revenue from commercial rentals from shops located within Terminal complex
- Other sources of revenue sale of advertising rights, parking fees.

Forecast 2000 to 3000 buses / day, actual average of 1,100 normal buses and 600 mini buses a day, about 80-100 buses are parked overnight. Some buses started operating from outside the bus terminal to avoid paying adda fee.





A BUS TERMINAL

- Bus operations
- Maintenance, petrol, bus parking
- ✓ Hotel, restaurants, cafes
- Commercial facilities warehouses, chillers
- ✓ Transit hub modes, logistics, efficiency
- Advertising, residential, office space, parking, entertainment, solar generation
- ✓ Public services post office, tax office
- Green space, public facilities



Mandaluyong (Philippines) Public Market

The previous Mandaluyong (Philippines) Public Market was razed by fire. The lot remained idle, creating congestion, waste and flooding problems.

Public Market would cost Php 100 million, ie annual outlay of more than Php 10 million. The City Government ruled out huge loans.

The developer provided a public market at the ground floor under the control and supervision of the City Government. The City Government in turn leases the building except the Public Market to the developer, including parking, theatres, restaurants, bowling, etc.

The project provides for a Public Market controlled and supervised by the City Government and additional income of 20 Million (instead of debt service of more than 10 million/annum)

Employment through new commercial district Traffic, flooding, pollution and garbage problems solved.





James F. Oyster Bilingual Elementary School, Washington DC

In 1993, the school was in danger of closure due to an inadequate building and lack of public capital. Led by concerned parents, a PPP was formed between DC Public Schools and a national real estate development firm. They divided the school property in half to make room for a new school and a new residential development.

The District of Columbia issued a thirty-five-year, USD 11 million taxexempt bond for the construction costs, to be repaid entirely with the revenue generated by the private apartment building. The private partner agreed to pay USD 804,000 a year for thirty-five years to repay the bond. The school facilities included a computer lab, library, gym and classrooms

designed to accommodate the school's bilingual programme and office space.





Redevelopment of Library and Fire Station in Washington, D.C., United States

Washington, D.C. needed to refurbish the West End Library and West End Fire Station, and develop additional, centrally located low cost housing. The library and fire station were almost functionally obsolete; their renovations would be extremely costly. D.C. was able to acquire new, modern facilities while also providing affordable housing by leveraging the air rights above the library and fire station. The high-end family sized condominiums provided additional tax revenue.

D.C. awarded, through a competitive bid process, a concession to EastBanc WDC Partners. The proposal included US\$149 million of investment in a new fire station and library, approximately 150 condominiums, 52 low-cost rental units, and retail space. Financial

assistance was provided by D.C. to

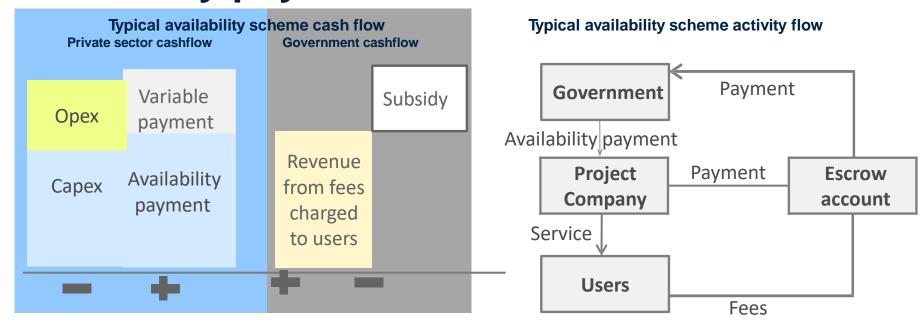
build affordable units.

Source: www.dmped.dc.gov; www.dcclims1.dccouncil.us lmage sources: https://alankarchmer.com/ten-arquitectos





Availability payment mechanism



Source:: Adapted from Infrastructure procurement approaches - Engaging with the private sector by Ernst & Young

- Availability payments work well for projects where the user revenue stream is uncertain, or the government has a comparative advantage relative to the private sector in ensuring demand materializes
- Project remains financially viable for investor regardless of the actual amount of services delivered. The fees from users goes to the government, government compensates shortfall, receives upside
- As the revenue obtained from user fees is unpredictable, there arises an unbudgeted portion of the subsidy which represents fiscal risk for the government



Punjab Grain Silo Project, India



- The project consists of 4 fully equipped silos of 12500 MT each for a total capacity of 50000 MT, to store grain for the government food subsidy operations.
- The private party is also responsible for procuring land for the project.
- 30 year concession period. Total cost of \$ 7 million

The Authority is responsible for making payments based on **fixed and variable charges**. It is also responsible for setting standards and specifications, monitoring and verification of performance, and contract management.

Savings to government of \$ 6 million due to reduction in wastage and retention of grain quality.

The project needs to be of a size sufficient to ensure coverage of all costs and reasonable returns to the investor over a reasonable period of time without unreasonably increasing the tariff level.

Standard contract document for silos needed.

Financing is difficult to come by even with availability payments.



Bhubaneswar Street-lighting Project, India

Private party finances and installs retrofits, operate and maintain the city's street-lighting system for 10 years for 20,000 street lights. **Total cost \$ 4.8 million**. IFC supported.

Public authority sets standards and specifications, monitors and verifies performance.

Payments made based on the savings realized - 90% of energy savings realized plus an Operation and Maintenance fee for each light pole

Annual savings to government of \$100,000 by way of decreased energy consumption, operation and maintenance costs and emissions savings

The project needs to be large enough to be viable and to realize sufficient savings in energy.

Capacity issues at local level: government, equity investors, service providers and financiers, standardizing documents, process





Gandhinagar Rooftop Solar Project, India

Finance and install solar photovoltaic panels on the rooftops of public buildings and connect to grid. **Total cost of \$ 9 million** for a population served: 12000

Public Authority provides access to rooftops of public buildings; facilitates Power Purchase Agreement (PPA); monitors performance standards

The local power distributor buys the power according to the PPA and tariff set through bid.

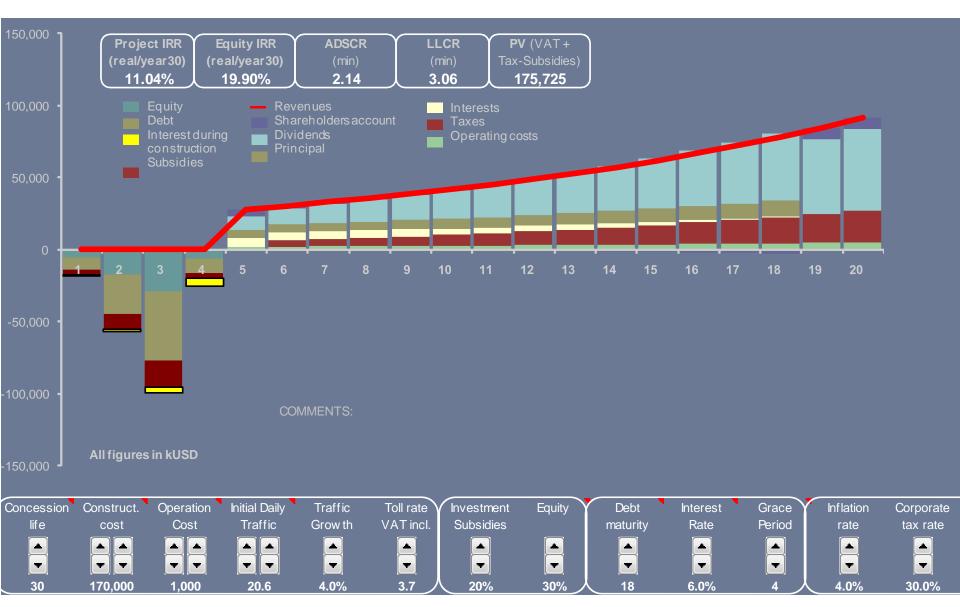
Emissions savings of 6000 tonnes

Multiple agreements needed: rental agreements with residential owners and with public entities;

No standardized documents – for example appropriate rental agreements for renting rooftop space had to be developed from scratch for this project.









How to Make PPP Work



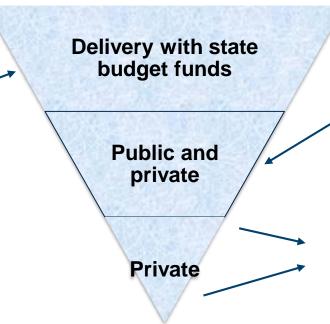
Choose project carefully

The public investment framework needs to leverage private financing systematically

Usual approach: Project identification asks first which projects should be publicly **funded**, then which should be funded with public and private and lastly whether to use fully private – the **inverse of best practice**

Projects are **submitted** for public funding based on little preparatory work and inconsistent screening

Decisions on private financing options are made too early, before much is known about the project



Projects are often directly awarded, in lieu of competitive tender

Preparation and competitive tendering process only applies after a decision has been made not to pursue public options















Overview of the PPP Project Cycle





Module7: Procurement

Process to deliver a PPP project

Module 20: Lessons Learned

 Key success factors for delivering PPP

- Process is fluid
- Expect / allow projects to move back and forth between stages
- Continually ask: <u>Is this project a good deal</u> <u>for the municipality</u>?
- Be flexible, responsive and patient as new information comes in
 - Good PPPs do not happen overnight
 - There is no "one size fits all" solution









Project Selection – Screening

 Uniform evaluation and screening of <u>all projects</u>, using common and objective criteria

Core Project Screening Criteria

Strength of rationale (need, cost benefits)

Institutional and project readiness

PPP Suitability



Tool

Module 2: Project Concept Assessment Tool

Module 3: Sample Project Concept Note



Remark

This may require changing, even reversing, established / customary approaches to infra investment planning and budgeting



Caution

Beware the temptation of new build Small projects can be viable – but small size does not necessarily mean small liability









Project Selection – Prioritization

Of the potential projects, prioritize in view of:

- Development priorities
- Capacity to deliver (staffing and funding),
- Market appetite and trajectory is not infinite

... Remark

The amount / quality of data is likely to be limited at this phase, final decisions should not be made w/ preliminary data, with a view to repeating / revising project assessment as new data is accessible.

The decision to pursue a potential PPP should include a decision to provide <u>funding for project preparation</u>

Municipal resources

Regional / national extrabudgetary support (PPP units, project development funds)

National / bilateral / multilateral development banks and donors









How to be the perfect partner







Project Development – Feasibility Study



The better and more complete the feasibility study, the more sustainable the project will be – don't cut corners

- Comprehensive assessment of all aspects of the project
- Options analysis to determine best delivery model / risk allocation
- Potential revisions to project scope/ design

Remark

Even large, well-staffed municipalities will usually require help from an external adviser or firm to complete the feasibility study

Q Tools

Module 4: Feasibility Study

Module 5: Managing Consultants
Module 6: Sample Consultant ToR



Project Development – Stakeholder Engagement





Speak to potential investors (market consultations) to understand:

- Project structures that meet market requirements
- Market appetite for the project

Proactive engagement w/ <u>affected communities</u> (direct and indirect) on key issues:

- E.g. affordability, resettlement, employment, service delivery standards
- Address any aspects unique to potentially underrepresented groups (poor, women, minorities, disabled, elderly)



Tools

Module 14: Communication Strategy Module 18: Community Engagement











Choose partner carefully

Decide which projects are to be PPP, and stick with it Don't compromise, make them compete – no side deals! Keep it simple, not too many institutions or approvals coordination

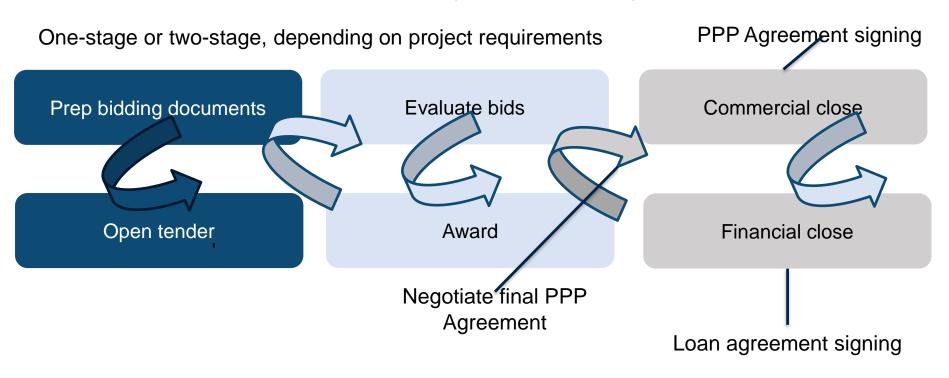
How to find the perfect partner





Procurement and Award – Overview

Rate qualifications, technical / financial proposals, etc., using criteria that embody municipality's aims for the project















Procurement and Award – Tools & Assistance

Tool

Module 6: Sample Consultant Terms of Reference

Module 7: Procurement

Detailed discussion of issues related to procuring a qualified with the FS, municipalities will usually Module 8: Sample Request for Qualifications (RfQ) need help from external advisers to

complete procurement

Remark

Module 9: Sample Request for Proposal (Single-Stage)

Module 10: Sample Request for Proposal (Two-stage)

Module 11: Sample Municipal PPP Agreement













Project Implementation — Overview

1. Pre-construction

Land acquisition, design review, permitting

2. Construction

 Supervise/verify progress, testing, commissioning, payments due

3. Operation

 Performance monitoring/reporting, contract events, payments due, renegotiations, refinancing, disputes

4. Handback

 Test asset condition, maintenance and refurbishment plan, handover of the project assets to the municipality

Municipal roles in implementation

Remark

A good relationship between the public and private partners is key to the longterm success of a PPP. Generally, PPP is flexible and can adapt to crises, changes in circumstances and other unexpected events, provided both partners are willing to proactively work together to manage disputes, avoid defaults, and deliver public services.















Project Implementation – Management

Contract Manager / Contract Management Plan

Composition and Duties of Contract Management Team

- Technical,
- Legal, and
- Accounting experts

Performance Monitoring and Reporting

- Design and implement system
- Report / disclose results

Handling Contractual **Events**

> E.g. tariff adjustments, contract amendments. refinancing, disputes

Preparing for Asset Handover

Making Any **Payments** Due

Remark

The municipality must decide how services will go on after termination of the PPP, to ensure uninterrupted service delivery

















Invest in success



Do not "try" PPP; do it

- Invest time and money in preparing PPP - best transaction advisers
- Monitor progress
- Create, staff and fund a PPP Node/team







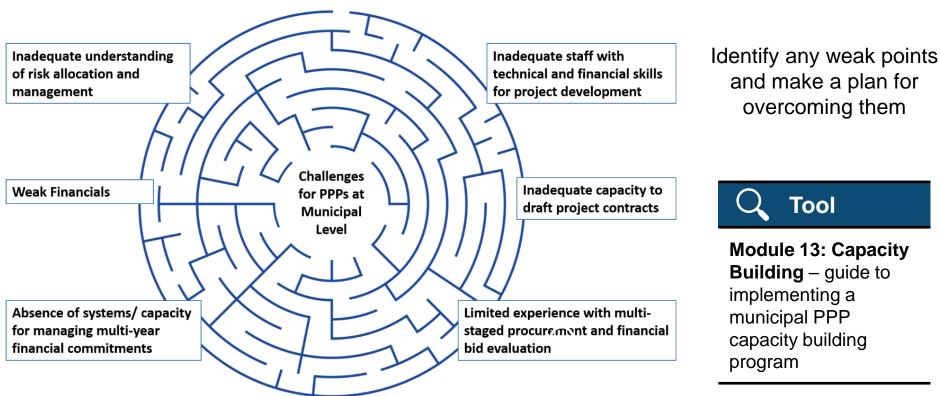








Obtain the Capacity Needed to Succeed



Look for help - fiscal (project development funding) and technical (advisory services)

- National / regional PPP units and other gov't entities w/ PPP experience
- Global / regional multilateral and bilateral development partners





and make a plan for overcoming them

Module 13: Capacity Building – guide to implementing a municipal PPP capacity building



How to be the perfect partner









If you want to go fast, go alone.

If you want to go far, go together.

-African Proverb



Municipal PPP Framework

- Guidance Note
- 20 Modules
- 100 Project Summaries

www.thegpsc.org

www.worldbank.org/ppplrc

Modules:

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Thank you!

Jeff Delmon jdelmon@worldbank.org

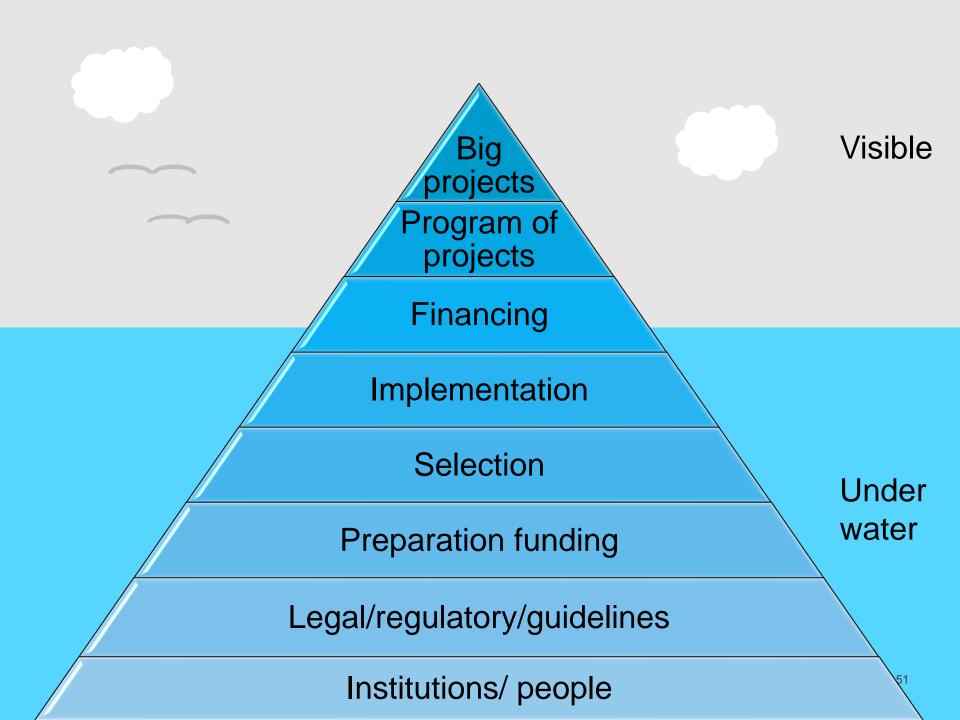
Municipal Public-Private Partnerships Framework. www.worldbank.org/ppplrc

Delmon, Jeffrey, Public Private Partnerships in Infrastructure: An Essential Guide for Policymakers, pp. 200 (2ed, Cambridge University Press, 2017)

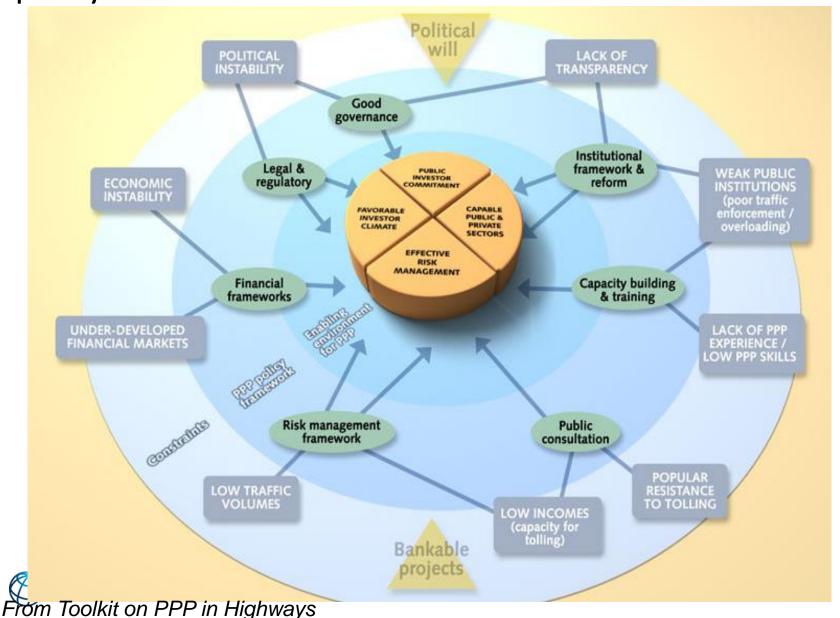
- Delmon, Jeffrey, Private Sector Investment in Infrastructure: Project Finance, PPP Projects and PPP Programs (3ed., Kluwer International, 2016)
- Delmon, Jeffrey, Public Private Partnership Programs: Creating a framework for private sector investment in infrastructure (Kluwer International 2014).



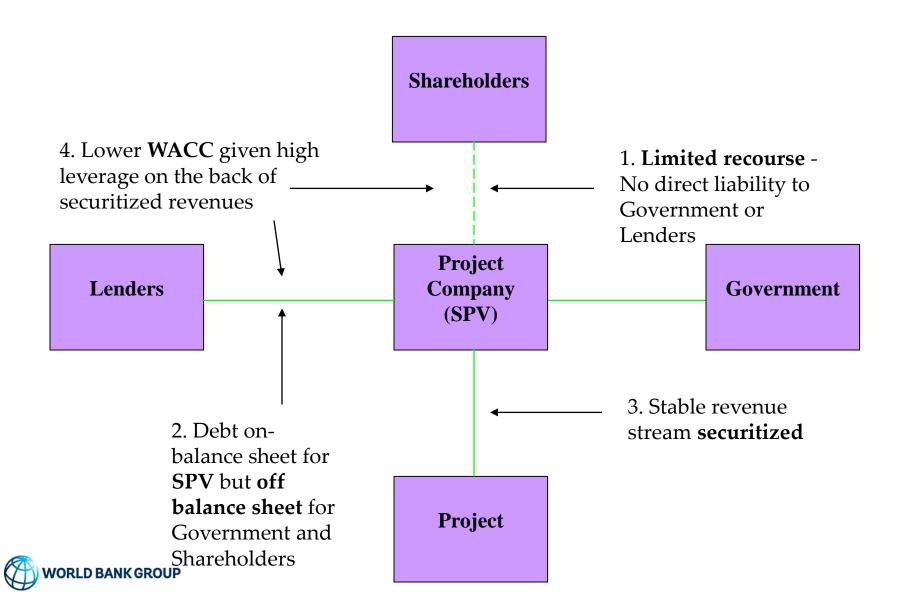




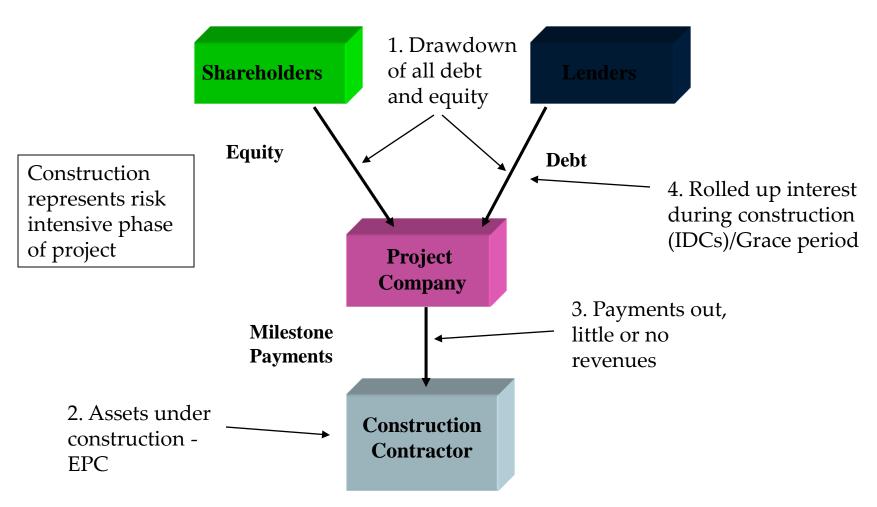
Creating an enabling environment through sound PPP policy framework



Why Project Finance

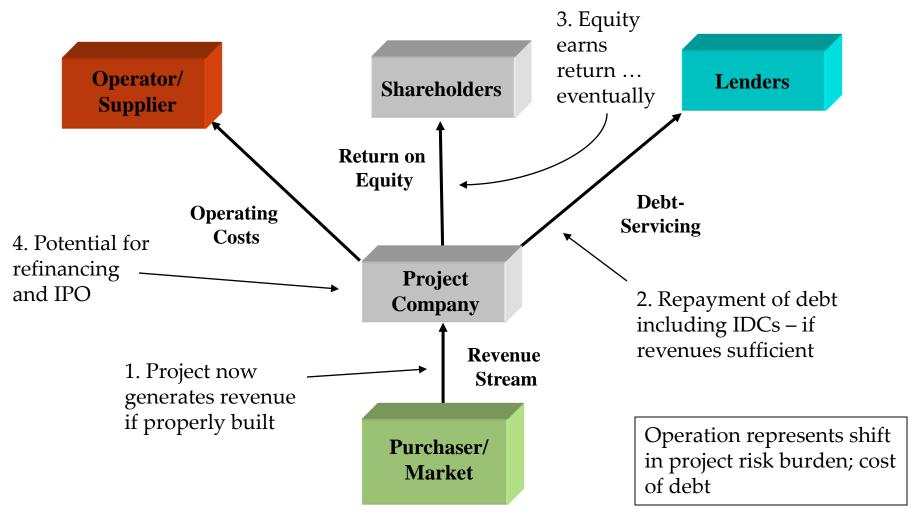


Construction Phase



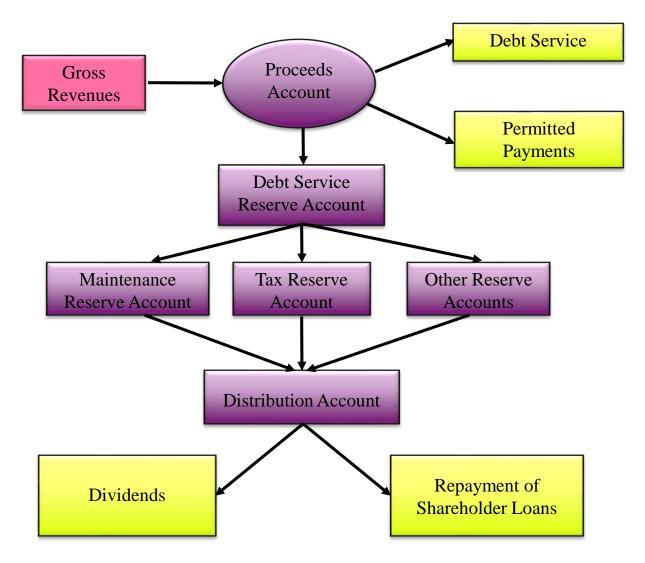


Operation Phase





Cash Flow Waterfall





Recipe for success

Monitoring and implementation – partnership maintenance

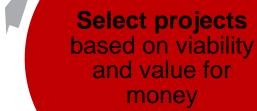
Government buy-in, change in perspective capacity building

Clear PPP
processes –
legal, regulatory,
institutional
framework



Open, transparent
competitive
bidding – avoid
distractions from
direct negotiations
and unsolicited
bids

Spend money and time on preparation – use top, experienced transaction advisers





Leverage

Debt v. Equity – debt is cheaper, but has no up-side (only down-side) making it risk sensitive.

Debt/Equity – how much cushion do lenders need? Based on project, sector and country risks. 90:10 to 50:50

Allows limited investor capacity to finance

a large project

Weighted Average Cost of Capital (WACC) project IRR is combination of Equity

IRR and cost of debt:

IRR of 10% is low for investors, but if D:E of 75:25 and debt at 7%, then equity return is 19%, a significant leverage effect.



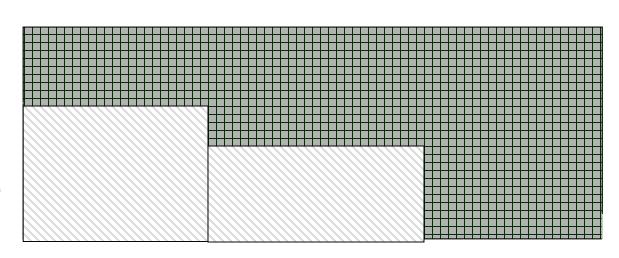
"I think you should be more explicit here in step two."

DSCR

Cash flow available for debt service 1.2 Cushion

1.0

Debt Service



5 yrs

10 yrs

15 yrs

20 yrs

25 yrs

Time post completion



Revenues available for distribution or other





Revenues available for debt service DSCR =

Revenues available for debt service

principal + interest