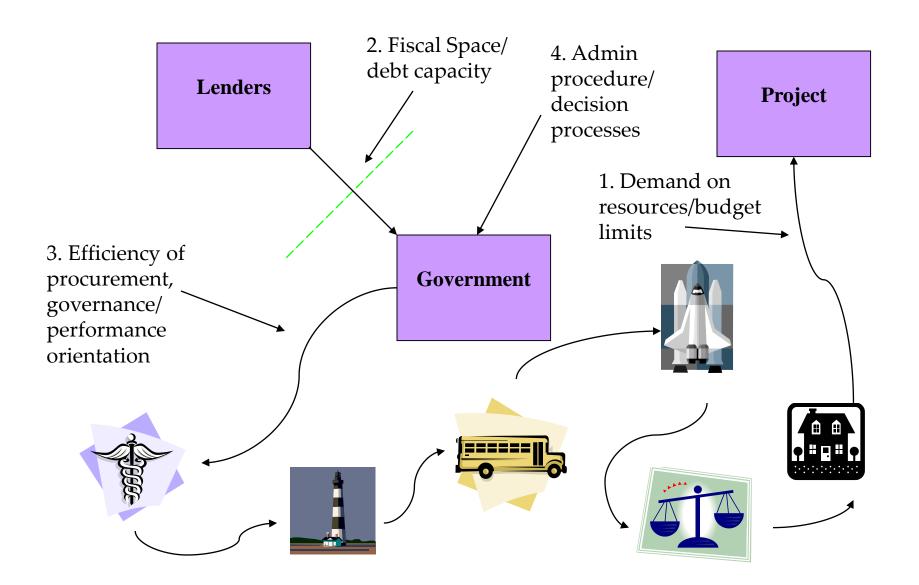


Municipal PPPs: Opportunities and Challenges

Delhi, India October 30, 2017



Government Priorities





"Be patient, a few more strokes and I'll soon have the momentum going."

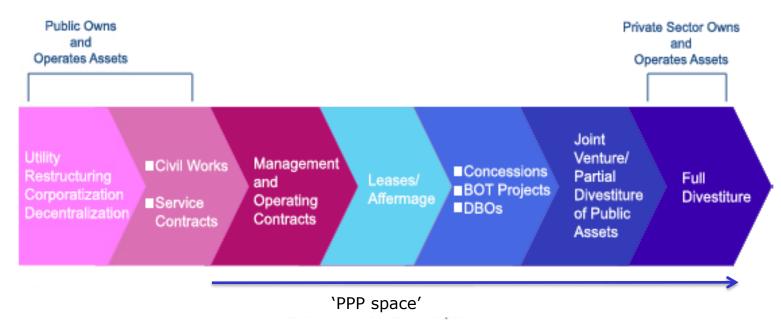
What are Public-Private Partnerships?

- A long-term (5 to 30 year) contract between a public entity and a private company to provide a public service:
 - design;
 - finance;
 - build;
 - maintain; and/or
 - operate
- Output orientation
- A form of fair and transparent procurement process



What are PPPs (cont)?

- PPPs are fundamentally different than traditional government public procurement programs involving civil works contracts
- Selection of type of contract will depend on sector, country, project or benefits that Government is seeking from the PPP
- Variety of sectors



Source: PPP in Infrastructure Resource Center www.worldbank.org/pppirc

What are PPPs (cont)?

- Two basic types:
 - users fees, paid by the consumers of the service (e.g. utility tariffs, toll road charges, etc.)
 - Services the private sector can deliver and make enough from fees and other commercial revenues, and/or
 - Government pays on delivery of services, to a specified standard (eg payment from public utility or Government department);
 - Where private can deliver services cheaper and/or better



Public Private Partnerships can help to:

Improve access to basic services

1

- Output based performance - high quality service standards
- Regular maintenance and upgrade
- Innovation
- Value for money incentivizes project selection

Increase efficiency

2

- Accelerated construction
- On-time and On budget delivery
- Risk borne by party best equipped to handle it
- Access to best practices and private expertise

Mobilize capital

3

- Better fund-raising capabilities
- In-kind donations which increase fund flow
- Budgetary efficiencies
- Focus on revenues/commercial efficiency

Long term perspective

Project Appraisal: Viability Factors

Description

outflows, and provide for future growth

Signify the project's ability to generate sufficient cash inflows to meet all its cash

Assessment

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

Financial

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
- Verification that this is the optimum solution
- Usually assessed by technical experts/ advisors relating to specific technical parts of the project

Environmental and social viability factors

- 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

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

Risk allocation matrix for PPP projects

	Types of risk	Public sector	Private sector	
1.	Location risk			
	Land acquisition	Typically mostly	Typically mostly public	
	Land condition (including pollution and environmental safety)	Typical	Typically mostly private	
2.	Design, construction and operational test risk	Typical	Typically mostly private	
3.	Sponsor risk Includes default of sponsor, contractor	Typical	Typically mostly private	
4.	Financial risk Includes failure to reach financial close, interest rate, exchange rate and inflation fluctuation (non-extreme)	Typical	ly mostly private	
5.	Operational risk Includes provision of the facility, wrong estimation of O&M costs, etc.	Туріса	ly mostly private	
6.	Market risk Related to users' affordability and willingness lower than the feasibility level	Could I	<mark>be</mark> either	
7.	Network connectivity risk	Typically mostly	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	Typical	ly mostly private	
10.	Force Majeure risk	Typical	ly shared	
		Typical	ly mostly private	

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

Public Private Partnership Life Cycle

	Details	Output	Timeline
Phase I: Planning	Project identification and selectionProject prioritization	List of priority projectProject preliminary report	■ 1-2 years
Phase II: Project Preparation	 Outline of business case Process for the required government support 	 Project preparation document 	■ 1-2 years
Phase III: Transaction	 Prefeasibility study completion Bid implementation Finalization and signing of PPP Agreement 	Pre-FS documentPPP AgreementGovernment support agreement	• 0.5-2 years
Phase IV: Contract Management	 Managing the implementation of the PPP Agreement 	 Financial close EPC contract and O&M contract Periodic report on project implementation 	■ 10+ years
Phase V: Handover and transferring	 Handing back asset/facility to the government 	 Third party assessment of the condition of the assets to meet the required standards 	■ 3-6 months

Municipal PPP

Why Municipal PPP is so exciting

- Closer to needs/business/commerce
- Dynamic and innovative
 - Commercially orientated
 - Land value capture
- Less political
 - National politics less present
 - Less pressure/weight/stress
- Small scale
 - local investors local finance forex risk
- Huge spectrum of opportunities
 - Public market places, bus and ferry terminals, parking, lowcost housing

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.
 - project development fee of INR 350,000 and a lease of INR 50,000 per month.
- 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.
- On average, 1,100 normal buses and 600 mini buses a day, about 80-100 buses are parked overnight. At the project conceptualization stage, it was thought that 2000 to 3000 buses / day. Some buses started operating from outside the bus terminal to avoid paying adda fee.
- The project cost was expected to be approximately INR 190m at the time of project conception, but the project cost finally worked out to INR 213.4m

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.



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.

James F. Oyster Bilingual Elementary School, Washington DC

- In 1993, the school was in danger of closure due to a crumbling, 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.



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 to be signed: 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.

Others ...

- Parking
 - User pays versus Government pays
 - Additional commercial services
- Commercial facilities (SEZs, abattoirs)
 - Equity, share of profits, share of revenues
 - Developer competition
- Parks, gardens, nature reserves
 - Hotels (local or linked), office, apartment
 - Betterment levy
- Low-cost housing

St Petersburg Pulkovo Airport

- Staff reduction required to make airport more profitable
- Limited experience of Russia in PPP
- Project reached financial close in 2010, in the middle of the international financial crisis attracting more than Euro 1.2 billion of private investment
- Project elected "PPP transaction of the year" by Infrastructure Investors in 2011. Considered one of the first international PPP project in Russia and the first for St Petersburg

Lessons:

- 1. Experienced international advisers,
- 2. A strong project team, senior officials and a strategic adviser (World Bank)
- 3. Practical approach in selecting the PPP model **flexibility**



How to Make Municipal PPP Work

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"My client has no problem with 'richer' and 'in health'. Our points of contention are 'poorer' and 'in sickness'."

How

- 1. Choose carefully
- 2. Invest in success
- 3. Keep it simple

1. Choose carefully

- Establish clear criteria for public investment management that includes PPP allocation
- Approve the list of projects at highest level and publish it (make sure list is valid and feasible, do not oversell)
- Decide which projects are to be PPP, and stick with it
- Decide based on value for money, cost-benefit
- Don't compromise, make them compete no side deals!
- Get buy-in from the highest levels and give clear orders
- Dutch: PPP unless; Chile: Only 35% of PPPs make the cut;
 UK: PFI credits

2. Invest in success

- Do not "try" PPP; do it
- Invest time and money in preparing PPP best transaction advisers
- Project teams need the resources to do their jobs
- Set performance indicators and milestones and monitor progress
- Project development funds: UK PFI Credits; India IIFCL, VGF, IDFC; Brazil: BNDES; RSA: DBSA
- Create, staff and fund a PPP Node/team
- Report project assessments and pipeline periodically

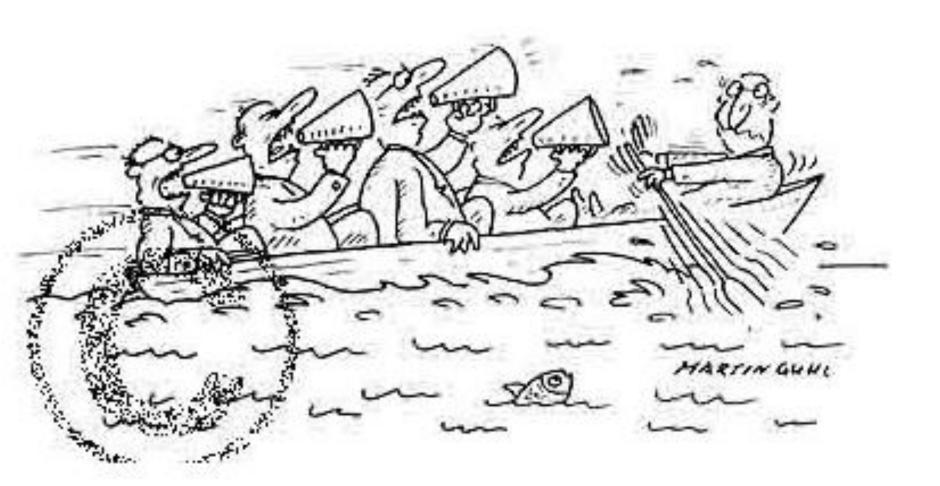
DO IT YOURSELF

GET SOMEONE ELSE TO DO IT



3. Keep it simple

- Keep it simple for Municipalities to use PPP and for investors to understand
- Not too many institutions coordination PPP Committee
- Limited number of approvals/steps, standard forms/contracts, pooling
- PPP Unit: A one stop shop



- 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).

Thank you!

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Mohali, India Bus Terminal and Commercial Complex

- Greater Mohali Area Development Authority (GMADA), Government of Punjab (GoP) and PIDB
- Development of three towers on an area of ~ 7 Acres with a project cost of INR 4,320m along with the bus terminal operations.
 - Tower A = Bus Terminal and passenger amenities with a BUA of 117,000 sq.ft
 - Tower B = Hotel cum retail with BUA of 200,000 sq.ft
 - Tower C = Commercial cum retail with a BUA of 400,000 sq.ft
- The landmark of the project is the development of a 17 story building with Helipad. The project was awarded on the basis of highest upfront consideration of INR 57Cr (reserve price was INR 52 Cr.) for 20 years, plus:
 - INR 12.5m project development fee to GoP
 - INR 28.5m annual concession fee with 15% escalation every 3 years
- The concession period is 20 years for Bus terminal and 90 years for commercial complexes.
- The estimated potential bus trips per day ~1940 buses / day. Revenue via "Adda fee" for private and public sector buses, rentals from commercial and hotel facilities, parking, and advertisement rights on the terminal.

Risks of PPP

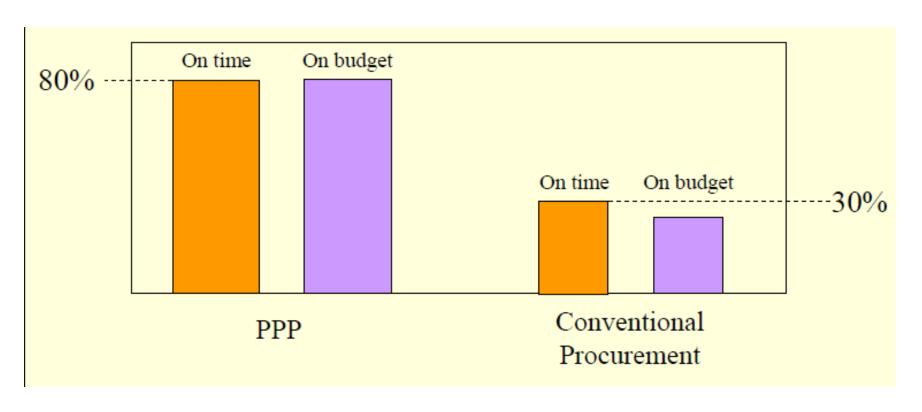
Lack of capacity –
Government must negotiate complex commercial arrangements with sophisticated private investors.

Cost - time and money to prepare projects well

Capture - political, Govt to Govt or business to business

Government resistance – direct or indirect - change in practices/ perspective – coordination of Government inputs

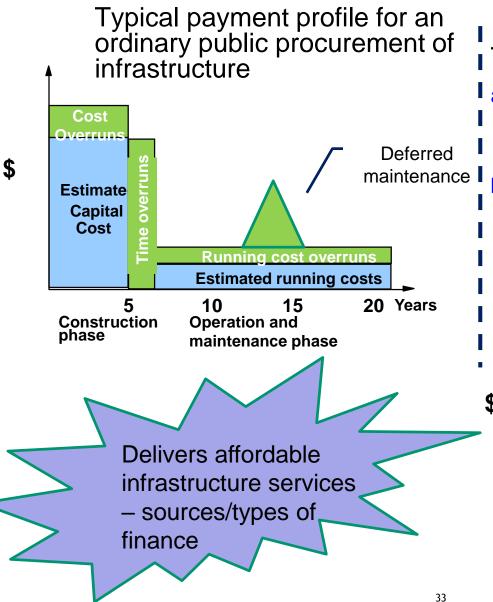
Why PPP (cont)



Source: National Audit Office-UK Parliament-Expenditure Auditor

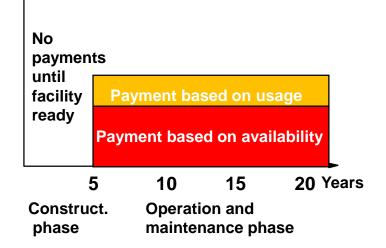
On time and on budget

Why PPP (cont)



Typical payment profile for PPP

- a) User pays
 - Largely or entirely privately funded
- o) Government pays
 - Payment against services
 - Maintenance/life cycle



Recipe for success

Monitoring and implementation – partnership maintenance

Government buy-in, change in perspective capacity building

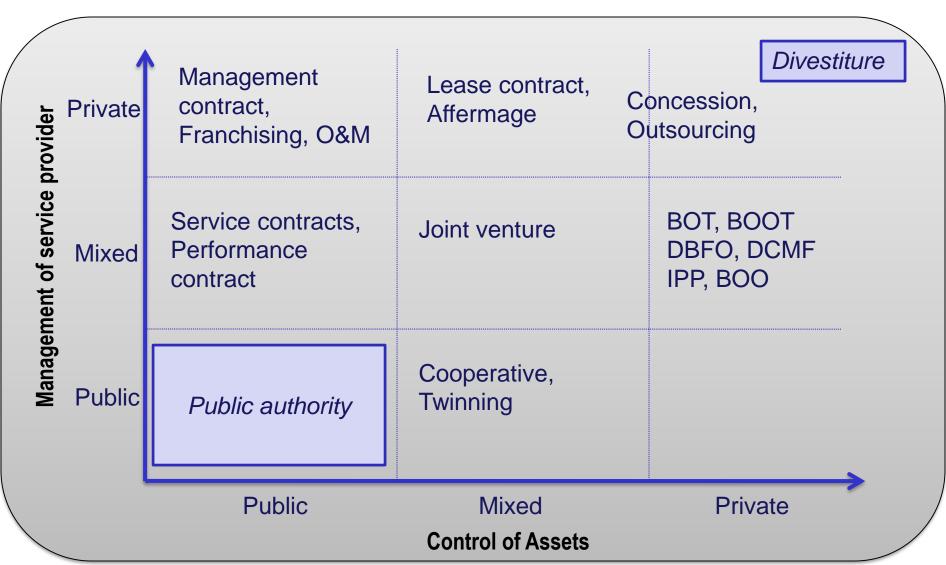
Clear PPP
processes –
legal, regulatory,
institutional
framework

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

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

Select projects
based on viability
and value for
money

Variety of PPP arrangements

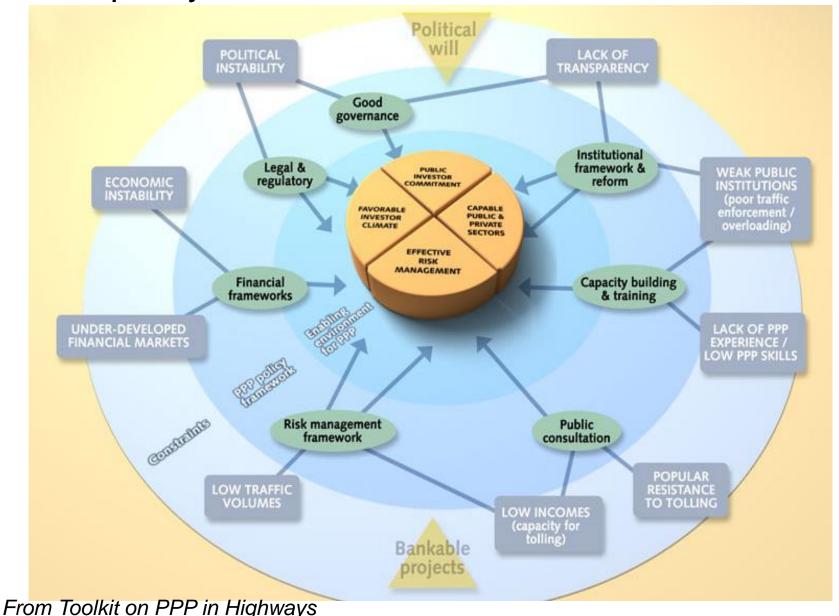


The Classification Model

Business	Construction Obligations	Private Funding	Service Delivery	Source of Revenues
New	Build	Finance	Bulk	Fee
Existing	Refurbish		User	Tariffs

Source: Delmon, "Understanding Options for Public Private Partnerships in Infrastructure: Sorting out the forest from the trees - BOT, DBFO, DCMF, concession, lease . . ." (World Bank Working Paper 2010).

Creating an enabling environment through sound PPP policy framework



Government Inputs

Legal / Institutional Framework

Clear allocation of tasks

Coordination mechanisms

Conducive investment climate

Project Selection

Choosing most viable projects

Choosing where to allocate public funds most effectively

Ensuring they are not hijacked by other "more expedient" forms of financing

Project Implementation

Sector responsibility and technical with Central resources and know-how

Good advisers!

Stages:
pre-feasibility →
feasibility →
transaction →
follow-up

Gatekeeper

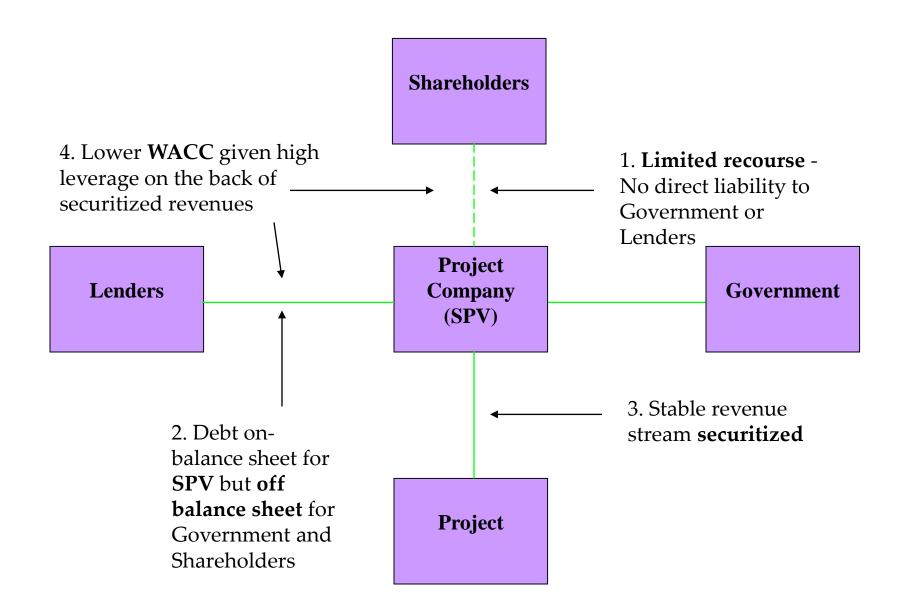
Fiscal risk management

Rationing of Government support

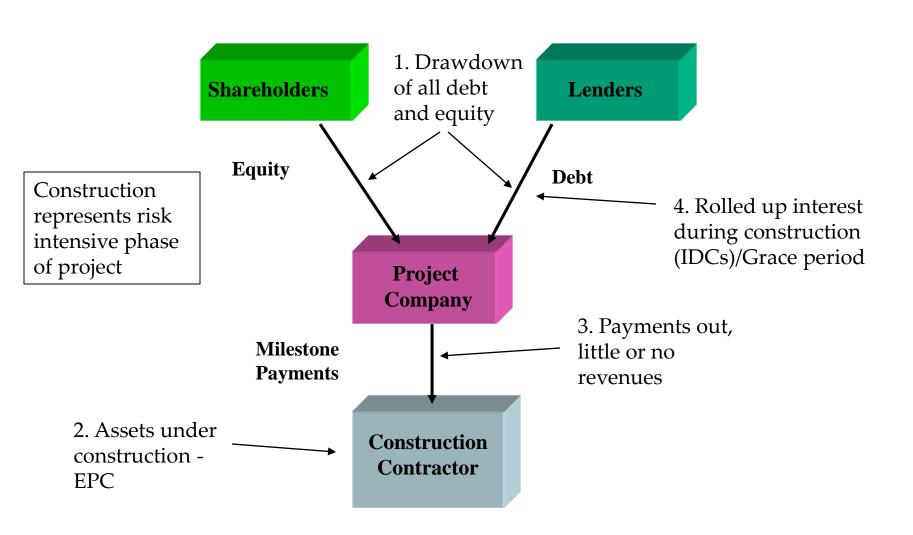
Ensure VfM

Gather lessons learned – standard forms etc.

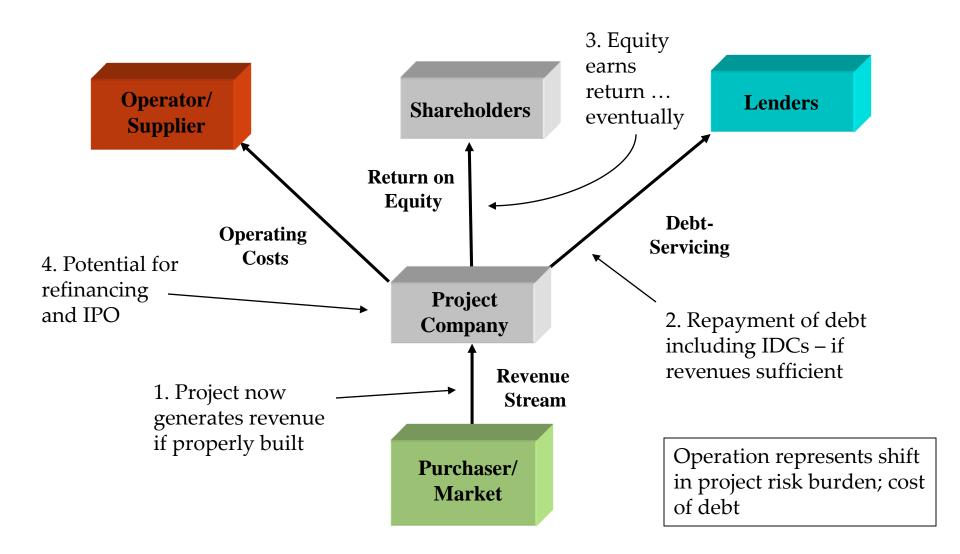
Why Project Finance



Construction Phase



Operation Phase



Cash Flow Waterfall

