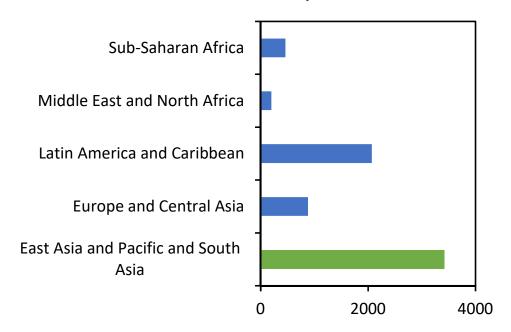


Private contributions are critical to meeting region's infrastructure finance deficit

- Public sector finances 92% of total infrastructure investments
- Private participation in infrastructure (PPI) will need to grow by 60% from 2016–2030
- But we have many risk gaps:
 - weak property rights
 - lack of dedicated policies
 - poor governance
 - lack of institutional structures and capacity

Privately Funded Infrastructure Projects Cancelled or Under Distress, 2018

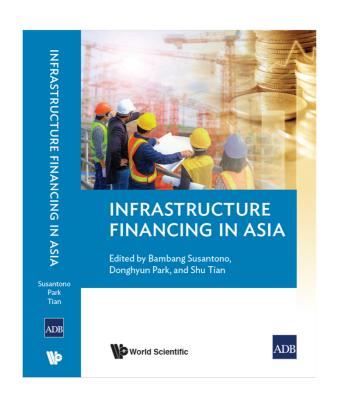


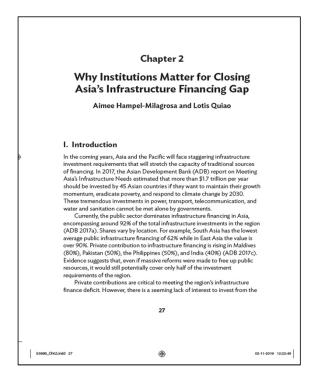
Source: World Bank Private Participation in Infrastructure

database. https://ppi.worldbank.org/



Chapter 2 of Infrastructure Financing in Asia: Why Institutions Matter







What are institutions and why are they important?

Levels of Institutions

Pace of change

Level 1: 100-1000 years

Level 2: 10-100 years

Level 3: 1-10 years

Level 4: continuous

Level and characteristics

Social embeddedness and informal rules of the game; customs, tradition, religion



Institutional environment; formal rules of the game; polity, judiciary, bureaucracy



Governance structures or institutional arrangements; play of the game



Resource allocation and employment; Incentive structure

Purpose of change

Non calculative, spontaneous



Getting institutions right



Getting governance right



Getting prices right

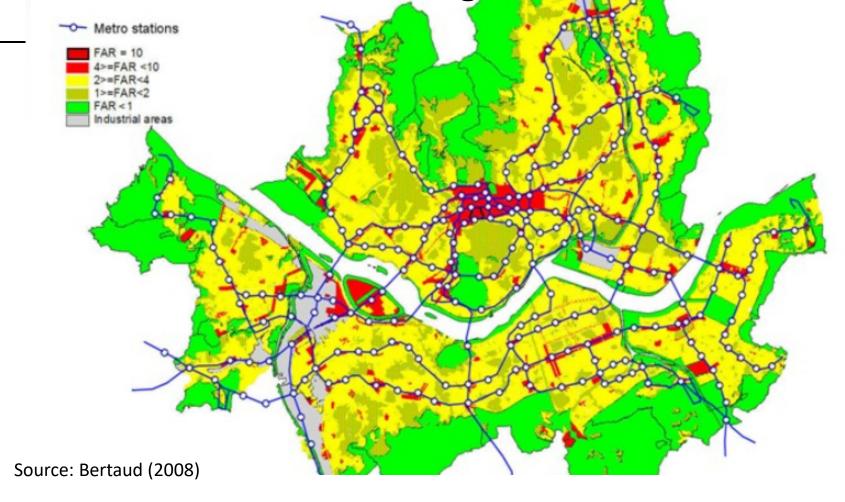
Source: Adapted from Williamson (2000).



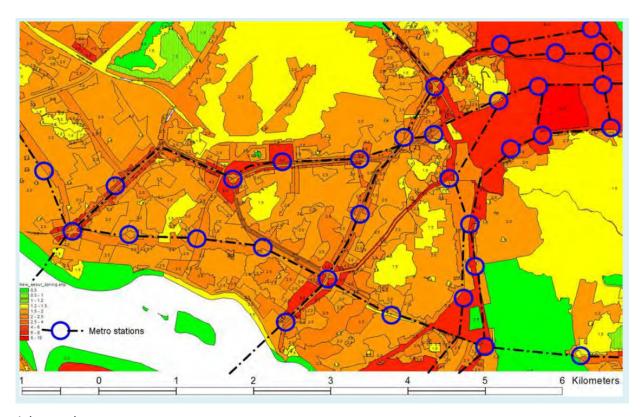
Types of Infrastructure financing methods

- 1. Land Value Capture (LVC)
- 2. Private Public Partnerships (PPP)
- 3. Green bonds
- 4. Institutional investments

LVC: Infrastructure Zoning in Seoul, South Korea



LVC: Infrastructure Zoning in Seoul, South Korea



Source: Bertaud (2008)



Public Private Partnerships (PPP)

Hybrid institutional arrangements where the government works together with private parties on large-scale infrastructure projects.

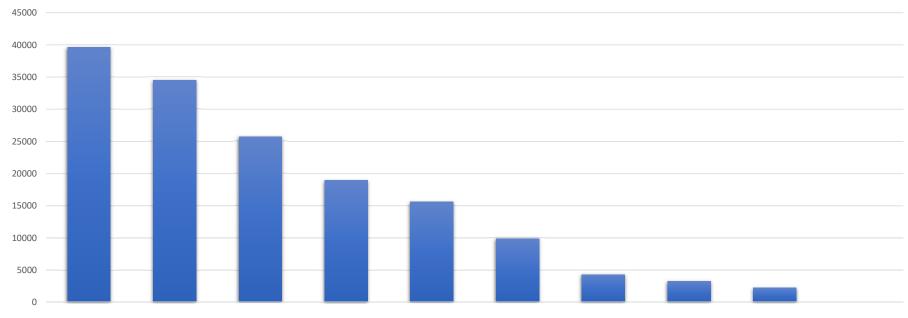
Common characteristics:

- 1) Private participation in financing and management
- 2) Transfer of risk form one party to another
- 3) Long term contractual relationship



Total PPP in Infrastructure in Asia 2005-2015 in \$ billion



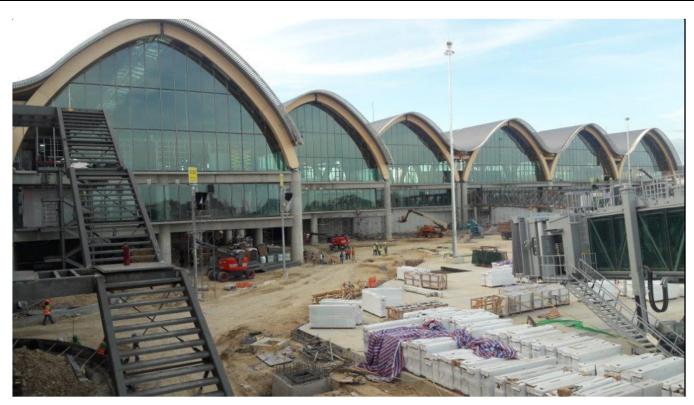


Indonesia Philippines Thailand Malaysia Lao PDR Viet Nam Sri Lanka Cambodia Myanmar

Source: World Bank PPI Database (2016)



PPP: Mactan Cebu International Airport T2



Source: www.ppp.gov.ph



Green Bonds

- Bonds issued by public and private sponsors to finance projects and technologies that possess positive environmental benefits
- Appeals to ethical and socially responsible investors

• Two types are recognized for accreditation purposes with the Climate

Bonds Institute (CBI):

Туре	Definition
Labeled bonds (24.7% of outstanding bonds)	Financing green assets and projects and whose performance is included in the green indexes
Climate-aligned bonds (75.3% of outstanding bonds)	Bonds that contribute to a low-carbon economy and have not been labeled green by the issuing sponsor





- Project eligibility: ADB's Green Bond Framework defines eligible projects to support developing member countries seeking to adapt to and mitigate the consequences of climate change
- Project Selection: The project selection criteria will be implemented by sector specialists in coordination with the treasury department
- Proceeds: Green bond proceeds will be allocated to a subportfolio and tracked against disbursement of eligible projects
- Reporting: ADB will make available eligible project list and green bond annual newsletter online

Source: http://www.adb.org/sites/default/files/adb-green-bonds-framework.pdf





^{1/} With second opinion from CICERO, an independent assessor.

Institutional investments

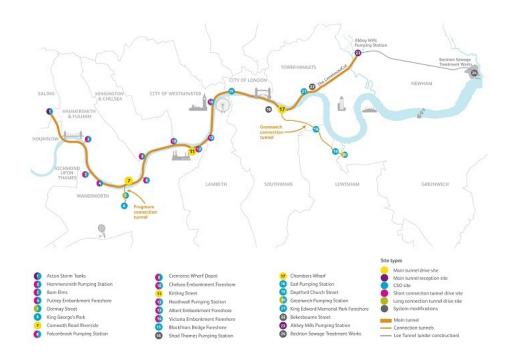
- IEs are debt and equity portfolio allocations of financial institutions
- Banks and insurance companies account for 42% of IE in Asia and the Pacific
- Institutional investors more cautious
- Asia has the highest savings rate in the world

Sources of IE in Asian Infrastructure (Prequin, 2015)

Source	%	Source	%
Banks	22	Government agency	6
Insurance company	20	Private pension fund	5
Corporate investors	9	Family offices	4
Public pension fund	8	Sovereign wealth	4
Investment company	7	Wealth managers	4
Mutual funds	7	Others	4



Thames Tideway Tunnel funded by UK pension funds







IFA, Chapter 2 Main message: Strengthen specific institutions to promote specific types of financing

Institutions that Encourage Private Investments



Land value capture



Strong property rights and efficient taxation mechanisms



Public-private partnerships



Dedicated policies and public-private partnership units



Green bonds



Sustainability policy framework



Institutional investments



Guarantees



Institutions and infrastructure financing: what are the enablers?

Type of Infrastructure financing	Enabling institution	Effect = de-risk
Land Value Capture	Strong property rightsEfficient taxation	 Clarifies right to use, to appropriate income, to transfer the asset to others, etc. Exhibits neutrality in investment decision-making
Public Private Partnership	 Creation of dedicated laws, guidelines, and proper governance Creation of dedicated and capable PPP units 	 Signifies rule of law Signals a stable support system for PPP contracts Monitors performance and adherence to contract
Green Bonds	Sustainability policy or environmental policy framework	Shows commitment to sustainable infrastructure
Institutional Investments	• Guarantees	De-risk for risk-averse institutional investors

<u>Infrastructure Finance in</u> Azerbaijan

- Increase private participation in infrastructure
- Learn from rich global PPP experience
- Potential areas:
 - Toll roads and solid waste management
 - Rail freight, Power generation
 - Airports, Ports
 - Social infrastructure



Public-private partnerships



Dedicated policies and public–private partnership units









