Vientiane International Mayors Forum, as Integral Part of the 10th Regional EST Forum in Asia on 14-16 Mar 2017, led by UNOSD and UNCRD

Sustainable Financing for SDG 11.2

Based on: Sustainable Urban Transport Financing from the Sidewalk to the Subway Capital, Operations, and Maintenance Financing

International Mayors Forum March 15 2017

Vientiane

Arturo Ardila-Gomez Global Lead for Urban Mobility World Bank



Sustainable Development Goal 11

Make cities and human settlements inclusive, safe, resilient and sustainable



Sustainable Development Goal 11.2

By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons



Sustainable Development Goal 11.2

Associated Indicator:

11.2.1 Proportion of population that has convenient access to public transport, by sex, age and persons with disabilities



Public transport to access jobs

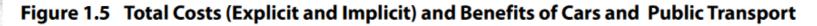


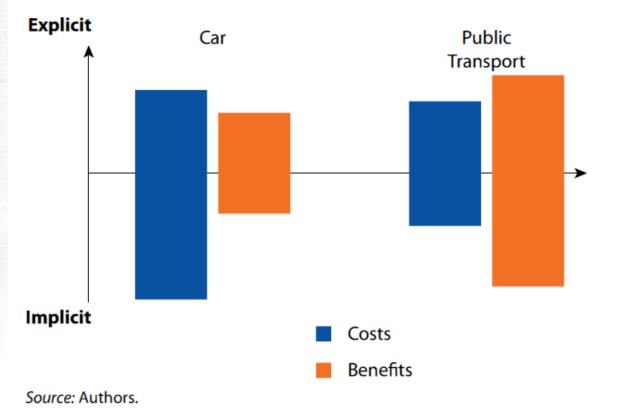


However, the playing field is biased against public transport



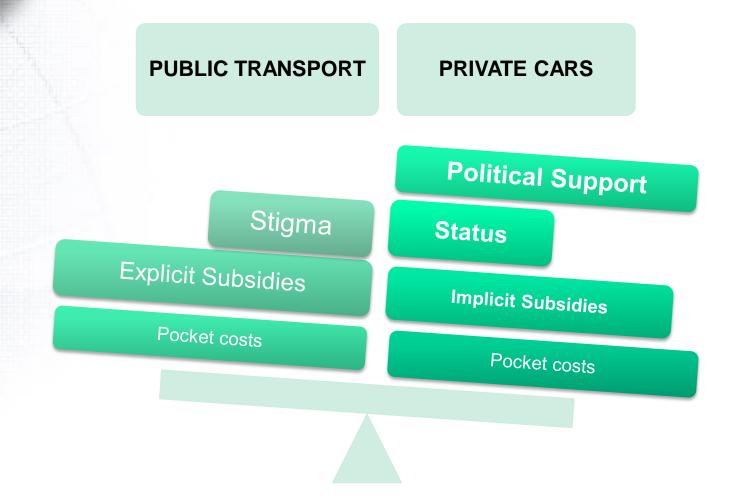
Low revenue - Implicit subsidies







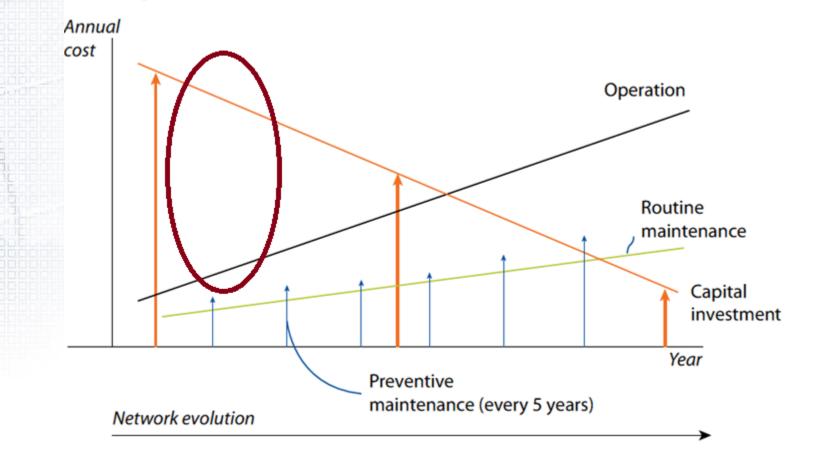
Low revenue - Implicit subsidies





The underfunding trap

Figure 1.1 Typical Pattern of Capital, Operation, and Maintenance Expenditures for Transport





Underfunding Trap: structural causes

LOW REVENUES DUE TO INEFFICIENT PRICING AND ECONOMIC DISTORTIONS

that creates unbalance in favor of unsustainable modes

LOW INVESTMENT

causes construction and maintenance lag vicious cycle and deterioration IMBALANCE IN INVESTMENT RESPONSIBILITIES AND FINANCIAL CAPACITY at the city level

INSTITUTIONAL COMPLEXITY: diverse levels (global, national, local) and sectors (public, private)

PERIODICITY MISMATCH between Revenue and

Expenditure



Analytical framework to assess and design urban transport financing

The framework addresses the following elements:

- Economic distortions and institutional complexity through application of the "Who Benefits Pays" principle based on the identification of beneficiaries (general public or direct and indirect beneficiaries)
- The need for *wiser* investments, which can reduce the financing gap in the long term

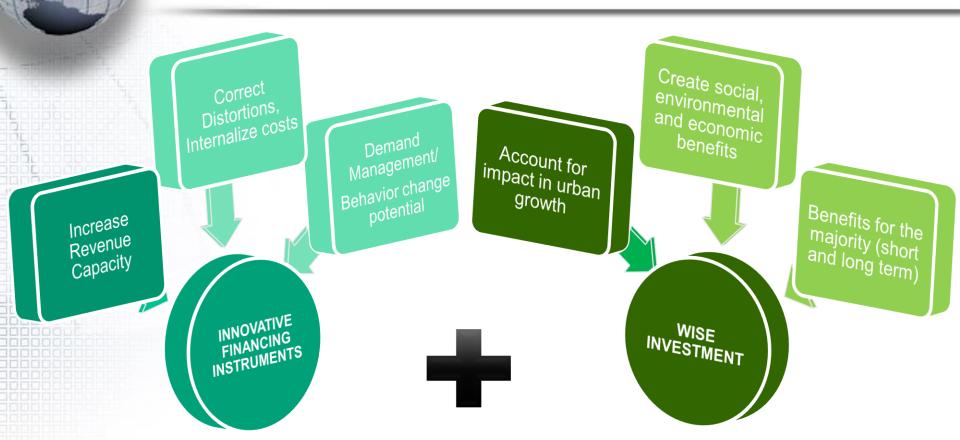


Analytical framework to assess and design urban transport financing

Match periodicity of revenue and expenditures, specifically for capital, operation, and maintenance expenses.



Escaping the underfunding trap



A comprehensive multi-level financial strategy that corrects structural causes from revenue and expenditure side



Analytical framework to assess and design urban transport financing

Standardized Assessment of 24 urban transport financing instruments with respect to

FINANCIAL SUSTAINABILITY (Innovative financing)

 stability, political acceptance, and administrative ease of instrument implementation

TRANSPORT SUSTAINABILITY (Wise investment)

economic efficiency, social equity, and environmental impact



Financing Instruments Assessment: General Beneficiaries

🔺 Upfront 🦳 Recurrent 🛕 Both

High 😑 Average 🛑 Low

		FINA	NCIAL SUSTAINABI	LITY	TRAM	NSPORT SUSTAINAE			
FINANCING INSTRUMENT	REV LEVEL	STABILITY	PUBLIC ACCEPT	ADMIN EASE	EFFICIENCY	EQUITY	ENVIRON. IMPACT	COST	PERIOD
Public transport subsidies		•		0	0		0	М/О	_
Property tax	.0		0	0		0		C/M/O	
National and international loans and grants	.00			0				C/M	
Carbon market	odl				0	0		C/O	A
Global Environment Facility		•		0	0	0		C/0	
Clean Technology Fund	. dl	0		0	0	0		С	_
PPPs for public transport	.0)	0		•	0			C/M/O	



Financing Instruments Assessment: General Beneficiaries

🔺 Upfront 🧮 Recurrent 🝐 Both 🛛 🕒 High 🔶 Average 🛑 Low									
		FIN	ANCIAL SUSTAINABI	LITY	TRA	NSPORT SUSTAINA			
FINANCING INSTRUMENT	REV LEVEL	STABILITY	PUBLIC ACCEPT	ADMIN EASE	EFFICIENCY	EQUITY	ENVIRON. IMPACT	COST	PERIOD
Public transport subsidies	الده	٠		0	0	۲	0	М/О	-
Property tax	lk.	$\mathbf{>}$	0	0	۲	0	۲	C/M/O	-
National and international loans and grants	Ìko	٠	•	0	۲	۲	•	C/M	A
Carbon market	ألاته	۲			0	0		C/0	A
Global Environment Facility	.dl	٠		0	0	0	۲	C/0	
Clean Technology Fund	llia	0		0	0	0		С	-
PPPs for public transport	h.	0	•		0	۲	۲	C/M/O	4



Financing Instruments Assessment: Direct Beneficiaries

Upfront Recurrent A Both High Average Low **FINANCIAL SUSTAINABILITY** TRANSPORT SUSTAINABILITY REV PUBLIC FINANCING INSTRUMENT Ρ **STABILITY** ADMIN EASE **EFFICIENCY** EQUITY **ENVIRON. IMPACT** TASK ACCEPT LEVEL Parking Charges C/M/ORoad Pricing C/M/OCongestion Charges C/M/Oall Fuel Taxes/Surcharges C/M/O .0 Vehicle Taxation C/M/OFarebox Revenue O/M PPPs for Urban Roads C/M/0 .0



Financing Instruments Assessment: Indirect Beneficiaries

and the second se		Upfront	— Recı	urrent 🝐	Both		🔵 High 🤇	Average	Lov
	FINANCIAL SUSTAINABILITY			TRANSPORT SUSTAINABILITY					
FINANCING INSTRUMENT	PEV LEVEL	STABILITY	PUBLIC ACCEPT	ADMIN EASE	EFFICIENCY	EQUITY	ENVIRON. IMPACT	TASK	Р
Advertising				0			0	M/O	
Employer Contribution	•00		0	0	0	0	0	M/O	
Betterment Levies		0	0	•	0	0	0	C/M	
Tax Increment Financing				•	0		0	M/O	
Special Assessment		0	0		0			M/O	
Transportation Utility Fees	•00	0	0	•			0	М	
Development Impact Fee		0	0	0	0	0		С	
Negotiated Exactions		0	0	0	0	0		C/M/O	
Joint Development (PPP)		0	0	•		0	0	С	
Air Rights		0	0	•	0	•	0	M/O	



- Combine revenue sources to ensure financial sustainability using the Who Benefits Pays principle.
- Undertake "Wise Investments" particularly public transport and NMT lower deficit.
- Consider the effect of instruments on transport demand.
- Link urban transport planning and operations with urban planning.



- Ensure appropriate use of public subsidies with proper incentives to guarantee high-quality sustainable public transport.
- Allow cities financial autonomy and capacity. A property tax is critical as it can finance capital, operations, and maintenance, and capture value.



- Allow a role for national governments and international funding in light of climate change and the need to invest in projects that contribute to the global benefit of reducing emissions from the transport sector.
- Understand the need for a gradual introduction of user charges.

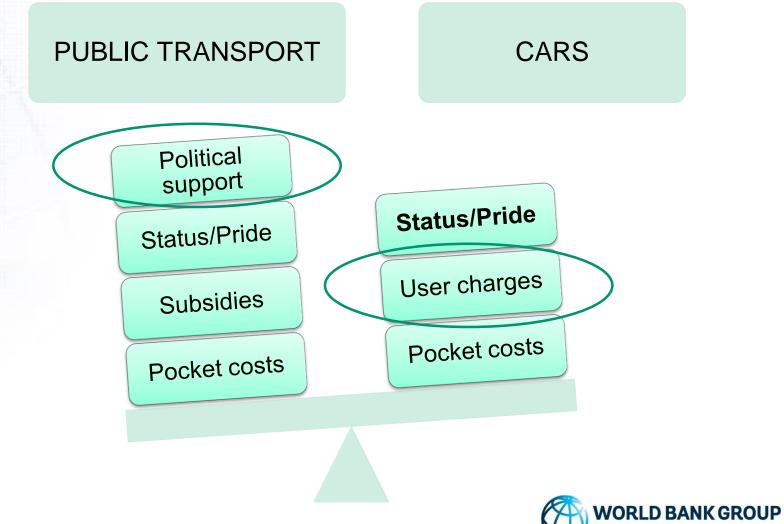


 Consider land value—based financing instruments but be aware of transaction cost, political work behind and "asset rich, cash poor" problem.









Transport & ICT

Download the book here

- Sustainable Urban Transport Financing from the Sidewalk to the Subway or here:
- <u>https://openknowledge.worldbank.org/ha</u> ndle/10986/23521





Thank you

