

Making Water Affordable to All – A Typology and Evaluation of Options for Urban Water Pricing

Paul Lehmann

Presentation prepared for Workshop 3 "Financing Urban Infrastructure", World Water Week Stockholm, August 21-27, 2011



- Introduction
- Framework
- Water Pricing Options
- Conclusion





THE CHALLENGE

1992 Dublin Principle No. 4

"Water has an economic value in all its competing uses and should be recognized as an economic good."

"Within this principle, it is vital to recognize first the basic right of all human beings to have access to clean water and sanitation at an affordable price."

How to design water prices to address affordability?



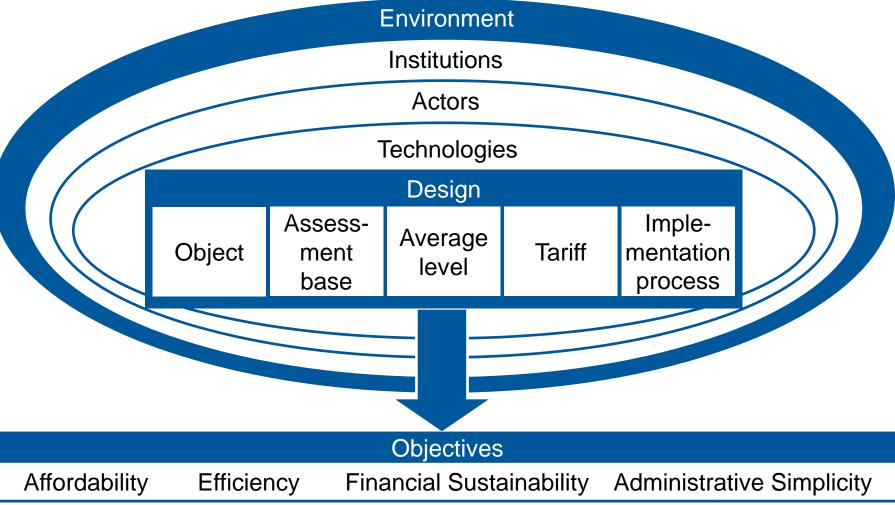


- Introduction
- Framework
- Water Pricing Options
- Conclusion





WATER PRICING SYSTEM





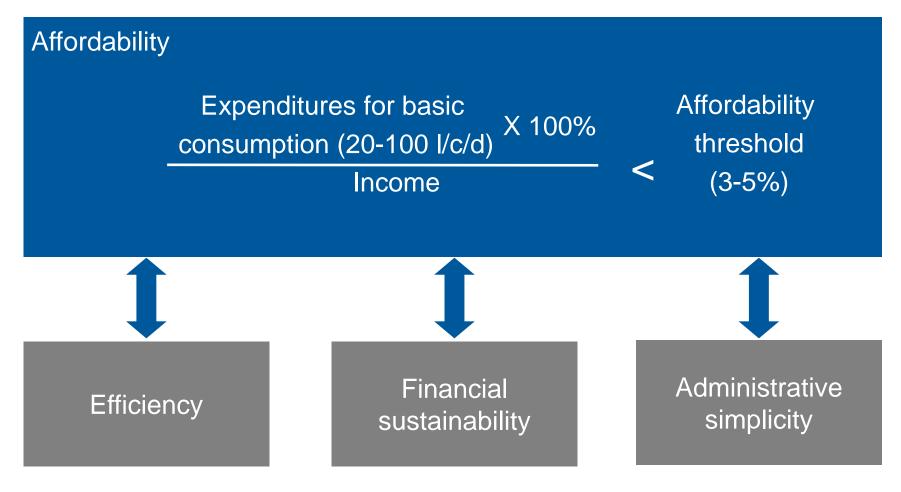


Pricing Options

Conclusion



OBJECTIVES







Pricing Options

Conclusion

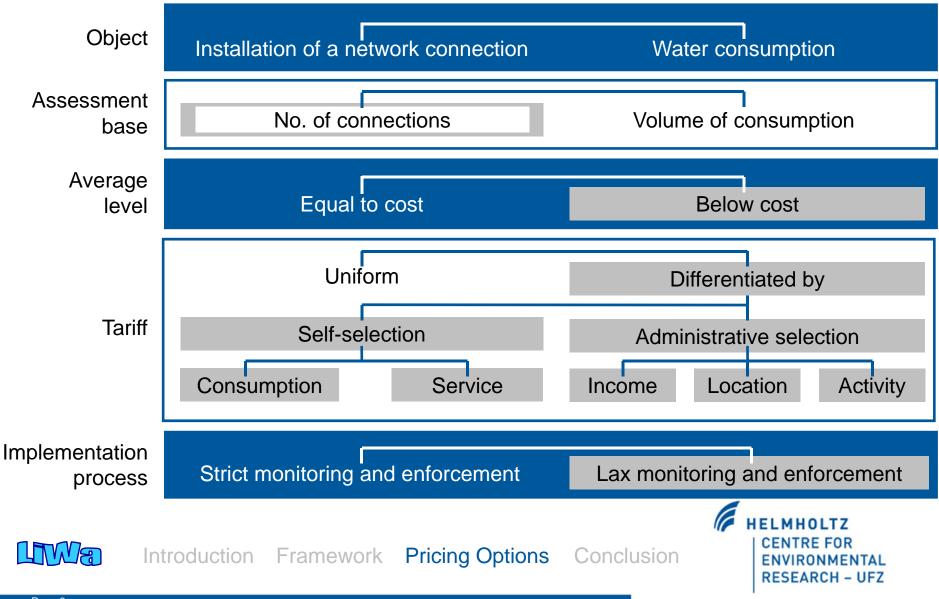


- Introduction
- Framework
- Water Pricing Options
- Conclusion





TYPOLOGY OF WATER PRICING OPTIONS



OBJECT OF PRICING

Connection vs. Consumption Charge

Affordability implications of subsidized consumption charge

- available to connected households only
- strong effect with high connection rate

Affordability implications of subsidized connection charge

- available to unconnected households only
- strong effect with low connection rate
- but non-price barriers may prevail

Both approaches may exclude a significant share of the poor





AVERAGE LEVEL OF PRICING

Pricing below Full Costs

Affordability	Efficiency	Financial Sustainability	Administrative simplicity
 high in the short-term adverse effects in the long term 	suboptimal incentives to save water	■ not possible	no selection process required
+ -	-	-	+





TARIFF Differentiation by Consumption

Main characteristics:

• increasing block tariff: different unit prices for different levels of consumption

Financial Administrative Efficiency Affordability sustainability simplicity inefficient price good due to differentiation positive income high theoretically low inefficiency elasticity possible reduced when with two blocks, household size adverse effects first block often second block for large family, is considered too large equal to joint connection marginal cost





- Introduction
- Framework
- Water Pricing Options
- Conclusion





CONCLUSIONS

- The affordability of water pricing options depends crucially on the technological, socio-economic and institutional environment.
- There are important limits to addressing affordability by water pricing, which call for additional measures.
- There are important trade-offs between affordability and other criteria.







Thank you for your attention!

