Water Affordability and Reducing Poverty in Post-Conflict Angola

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DEVELOPMENT WORKSHOP



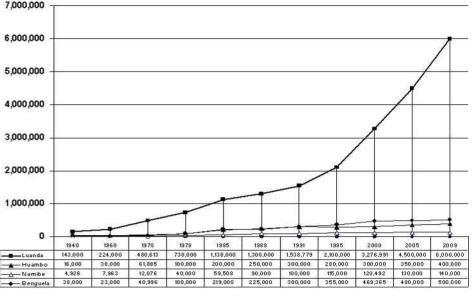


Post-War Angola

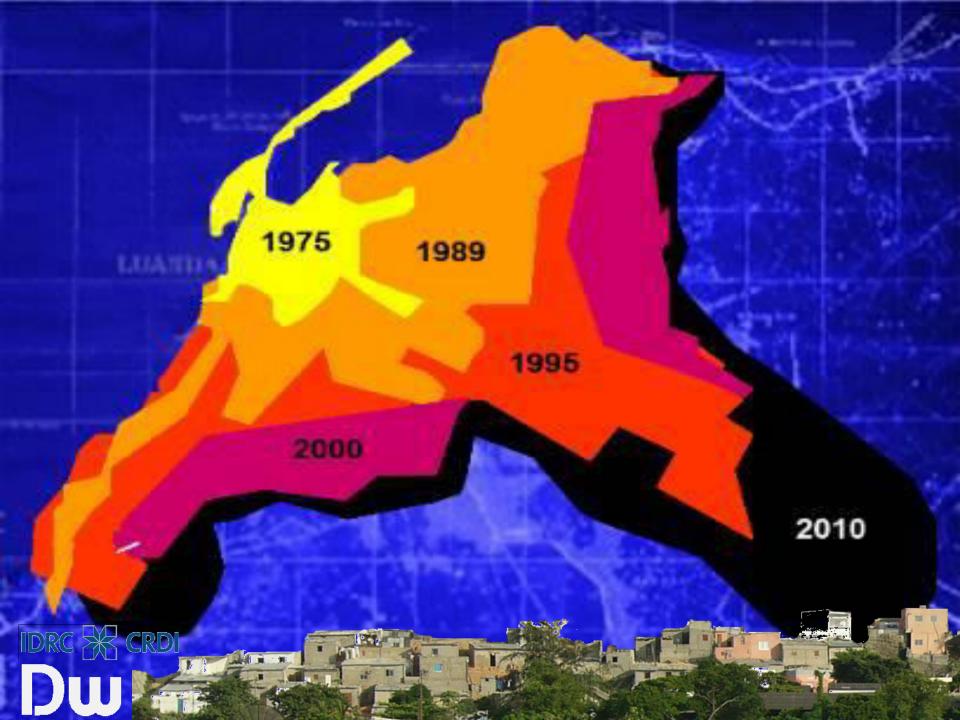
- In 27 years of civil war, millions of Angolans fled the countryside for the relative safety of the big cities and their crowded shantytowns.
- The war resulted in the destruction of infrastructure
- The water supply system couls not keep pace with the 7% annual population growth.



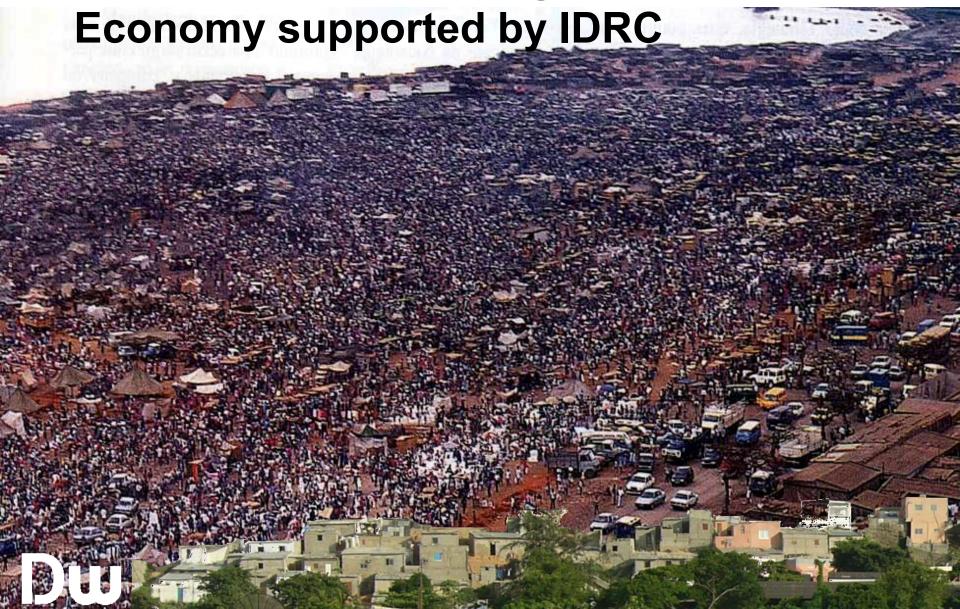
Urban Population growth in War & Peace



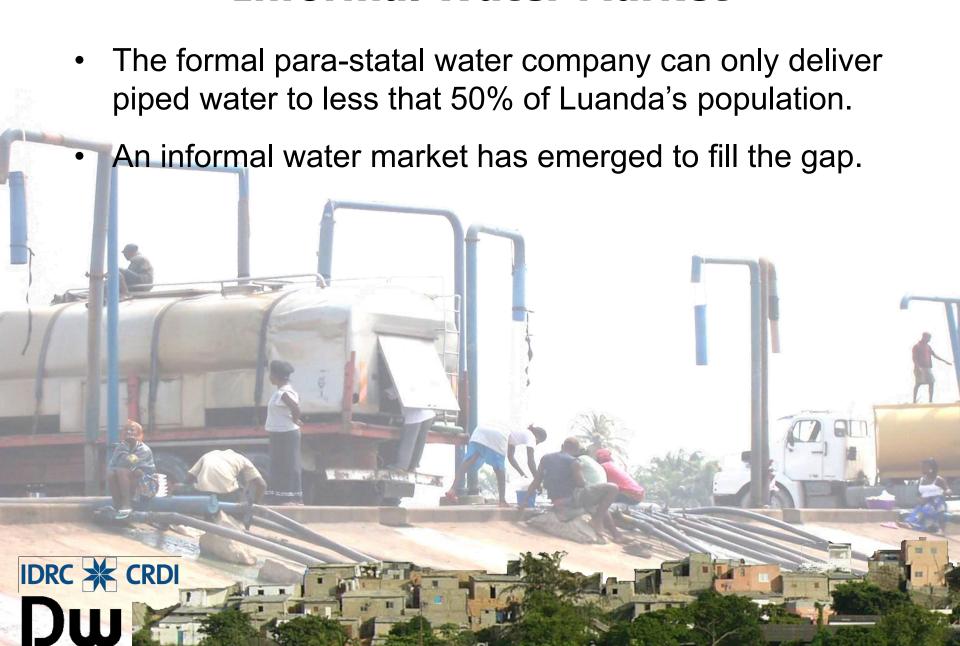




Research Programme on Post-Conflict
Transformations in Angola's Informal



Informal Water Market



Research on Informal Water Market

Community water resource management – an enterprise or livelihoods approach

- How is the informal water economy changing in the post-conflict period?
- How does the informal water economy work?
- Who are the key actors and what are their relationships?
- What is relationship with formal institutions?
- Relationship between community and the private sector suppliers?
- Where is value-added? Where are profits made?
- How does the price for water vary across the city?
 Factors that affect water prices?



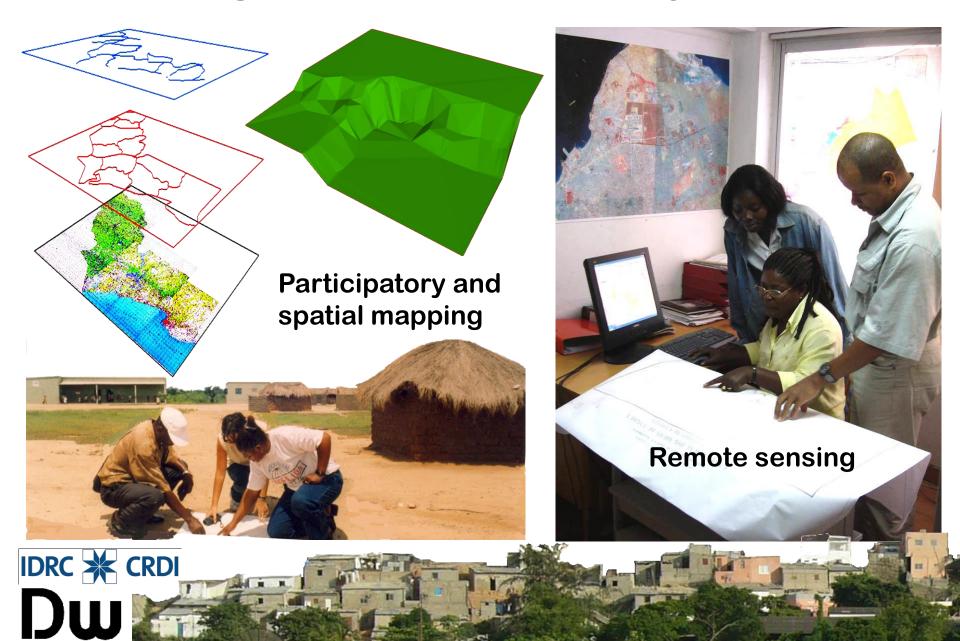


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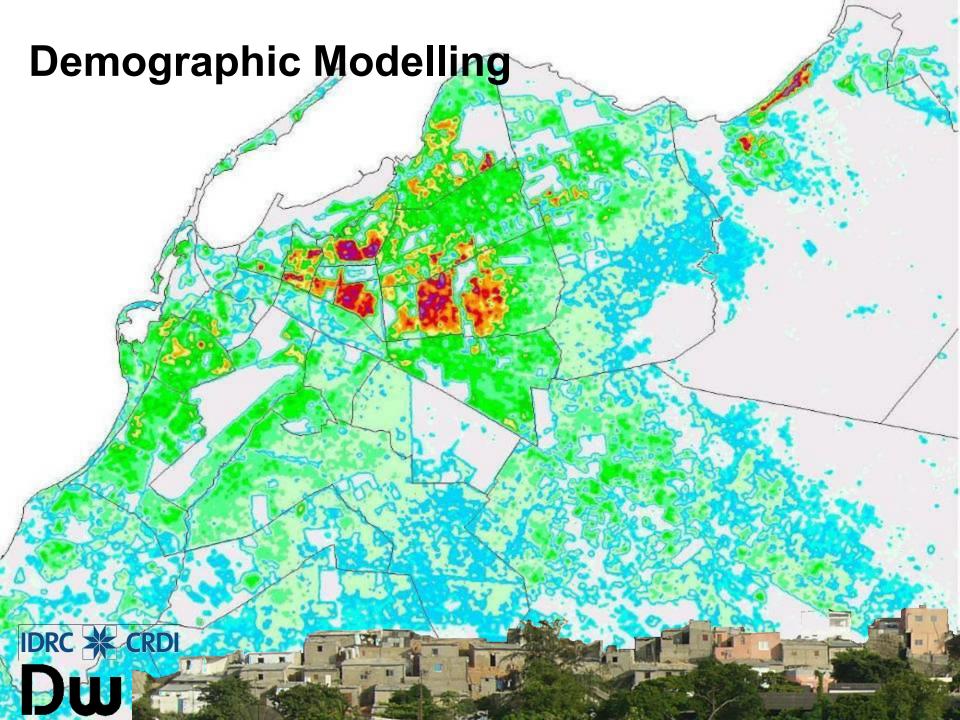
A Livelihoods Research Framework		1. Sub-Sectoral Studies		
		Informal Water Marketing	Informal Agriculture Food Commodity Marketing	Informal Housing Rental Market
2. Cross-Sectoral Studies	Street Vendors		•	
	Home Based Enterprises			·
	Peri-Urban Marketplaces	, j		e e
	Reconstruction of Rural-Urban Informal Trade Linkages			at at co
3. Informality and Governance		Fostering Public Policy, and Social Advocacy		



Geographic Information Systems



Participatory Water Mapping

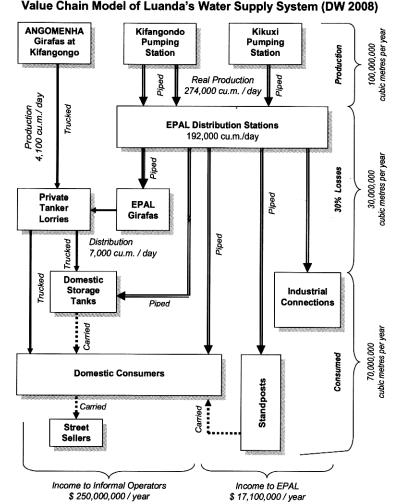


Informal Water Market

A complex multi-actor water market has emerged in Luanda as a response to the failure of the state and formal sector to meet basic water supply needs.

Actors include:

- River water pump owners
- Treated water bulk suppliers (girafas)
- Tanker truck bulk suppliers
- Private bairro-level cistern owner re-sellers
- Community water enterprise associations
- Ambulant water street sellers





Water Price Mapping

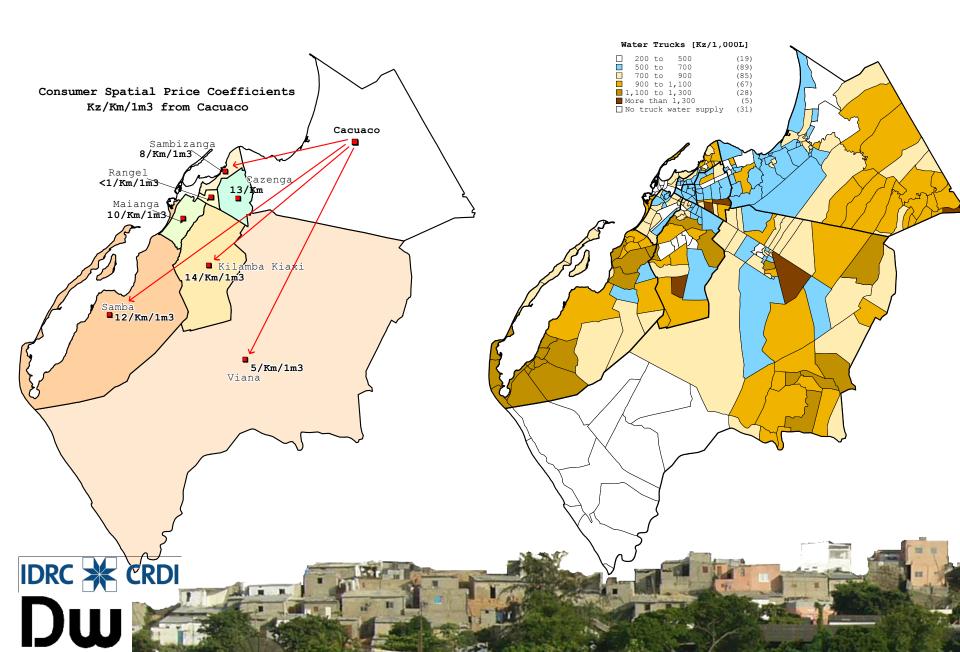
- The commercial retail price of water varies by bairro from \$0.15 to \$0.60 per 20 litre bucket
- The bulk wholesale price of water when sold by tanker truck varies between \$6 to \$18 per cubic meter
- Price to the retailer and consumer depends on:
 - distance from the source

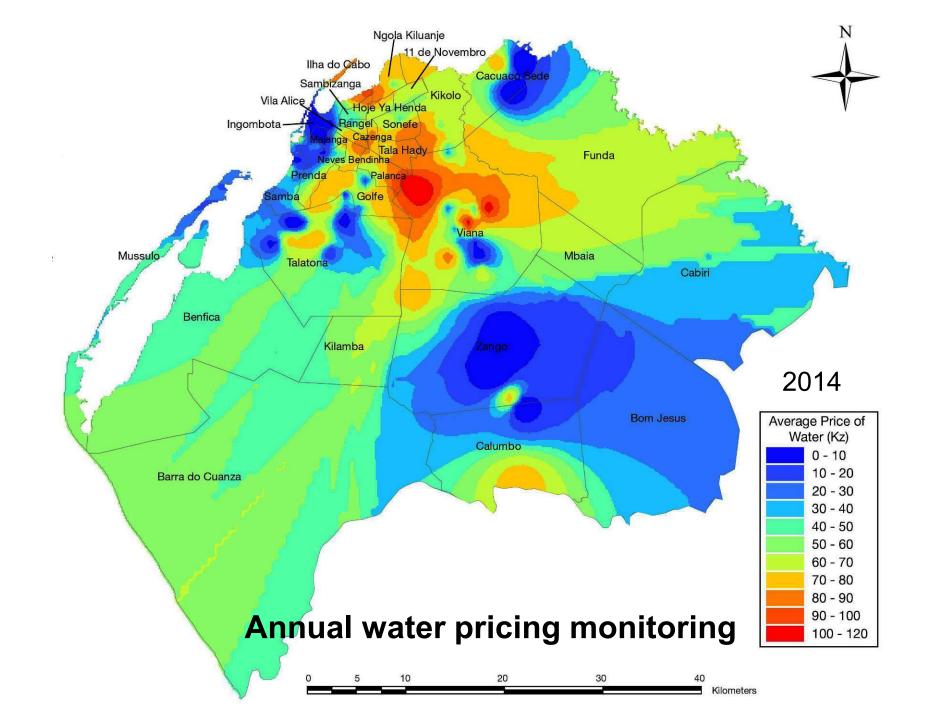
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- quality (untreated river water or treated water from the treatment plant)
- Current demand / shortage / season

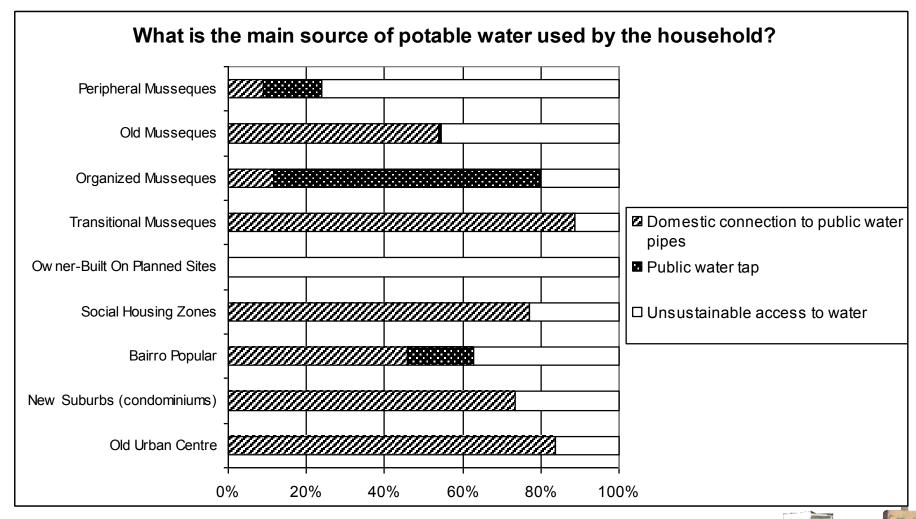


Informal Water Market



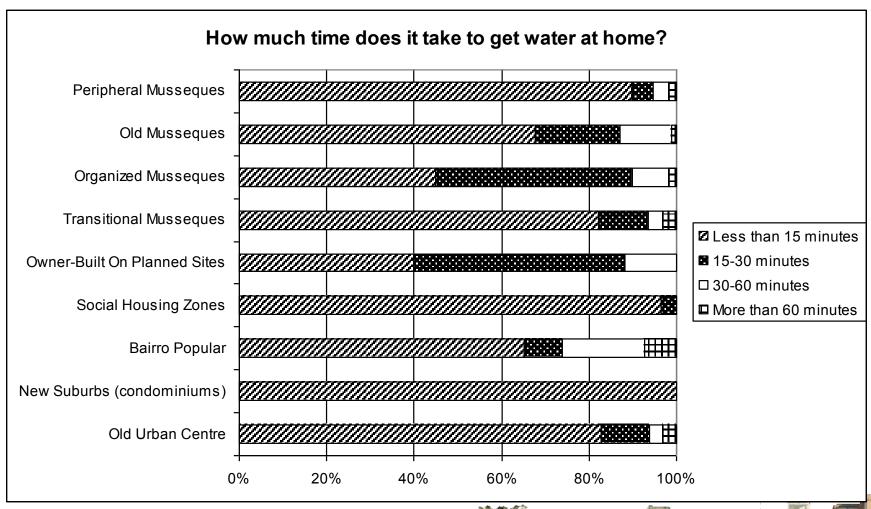


Water Adequacy - Source





Water Adequacy – collection time used





Informal Water Markets

Findings

- The informal sector will supply important services to the poor in Luanda until the major state infrastructure projects can come on-line and begin to demonstrate results.
- Informal delivery of water by tanker trucks is very costly and difficult to control quality and should be replaced by piped distribution systems.
- The poor have demonstrated a willingness to pay for services if good quality and regular supply can be guaranteed.
- There is a potential for incorporating small scale operators and community based enterprises into the formal water delivery plans in the future.
- US\$250 million is transacted in Luanda annually for water





Extractos da imprensa Angolana sobre questões sociais e de desenvolvimento

Fevereiro 2015





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New Challenges of Water & Adaptation to Climate Change

Angolan urban coastal settlements that are confronted by the dual challenge of

- supplying their populations (particularly the poorest) with adequate water supply
- while at the same time confronting new problems of adapting to the climate and environmental changes that are occurring in these highly vulnerable coastal areas.

