bringing visions to life. Dorsch Gruppe.







Philipp C. Ditzel

Chances and limits of the concept of IWRM in projects for water supply and sanitation

Experiences of consulting in development cooperation



Facts & Figures

- 60 Years of Experience
- about 1,600 Staff Members
 - 60 % Turnover Abroad
- more than 1,000 Domestic and Overseas Projects per Year
- above 50 Countries currently

Service Portfolio







Case Insight 1 Manshiet Nasser – From an Informal Area to a Legalised District Cairo, Egypt



Manshiet Nasser – From an Informal Area to a Legalised District

Initial situation

- City population more thann doubled since 1960's
- 1221 informal areas in Egypt, 67 in Greater Cairo
- Basic infrastructure partly constructed by the residents
- Very low water supply and sewerage standards
- Critical environmental and health conditions











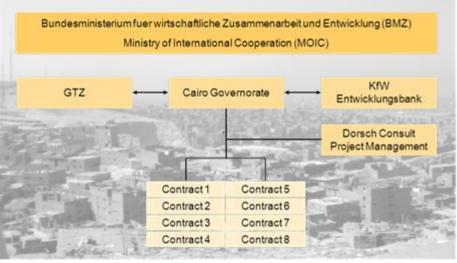


Manshiet Nasser – From an Informal Area to a Legalised District

Initial situation 1221 informal areas in Egypt, 67 in Greater Cairo Basic infrastructure partly constructed by the residents Very low water supply and sewerage standards Critical environmental and health conditions

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- Improvement of the living standards through a participatory and empowering approach
 Increased coverage of water supply and sewer connections
 - Improved accessibility (inner urban roads)
 - Improvement of the security situation



Core Measures

Objective

Hard Engineering

- 19,7 km distribution network, 167 fire hydrants, 4,043 house connections, 12,3 km sewer lines
- 61,000m² new constructed and reinstated roads

Soft Engineering:

- Urban planning workshops,
- participatory implementation, etc.

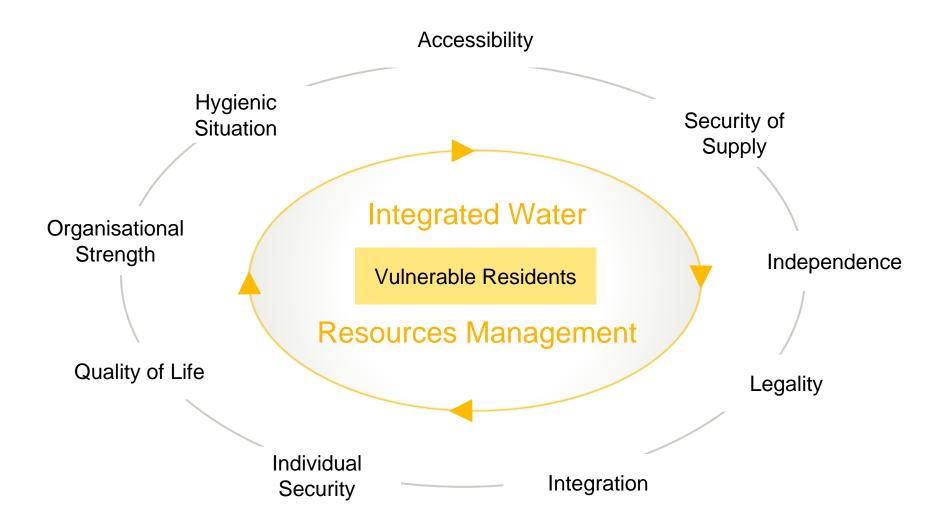
Manshiet Nasser – From an Informal Area to a Legalised District Findings and Lessons Learned

- House connections have a high impact on water quality and water losses
- Regular collection routines and transparent cost statements
- Lower cost for residents through change from septic tank to sewer system
- Better sanitation increases water consumption

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- Improved street lighting increases perceived security of residents
- A functioning water supply system is a precondition for effective fire fighting

The social development within a settlement is closely linked to infrastructure development

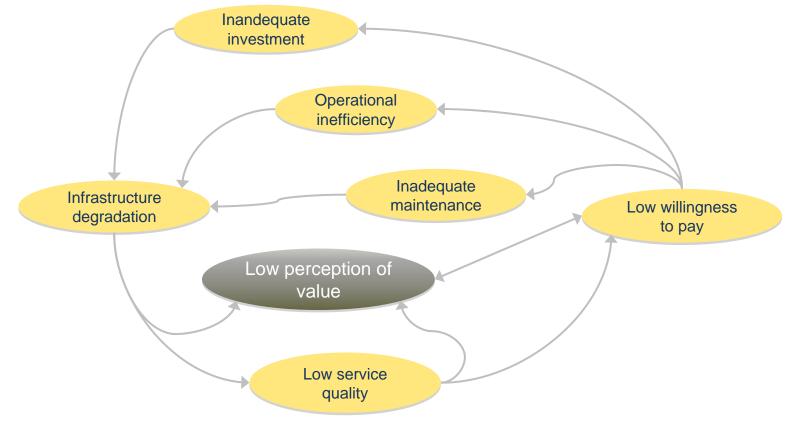




Case Insight 2 Operations Management Support (OMS), Jordan



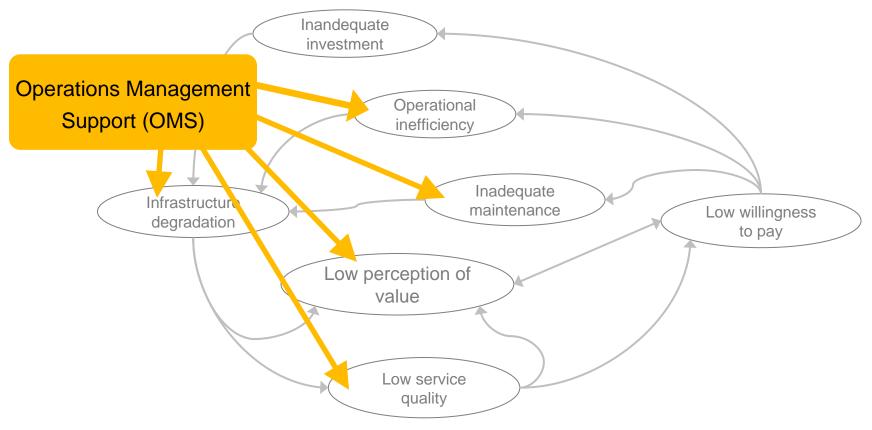
Cause and effect in water and wastewater utility management



Source: based on WWDR 2009



Cause and effect in water and wastewater utility management



Source: based on WWDR 2009



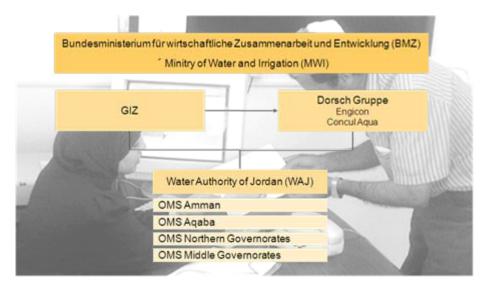
Operations Management Support (OMS)

Initial situation

- Inefficient utility operation
- Lack of effective administration of technical, customer and financial data
- Cost allocation often impossible
- High NRW percentage
- High energy inefficiency

Objective

- Improving the technical and operational functions
- Improving data administration and data processeing
 > enabling qualified decision-making
- Creating cost transparency
- Increasing the service quality





Operations Management Support (OMS)











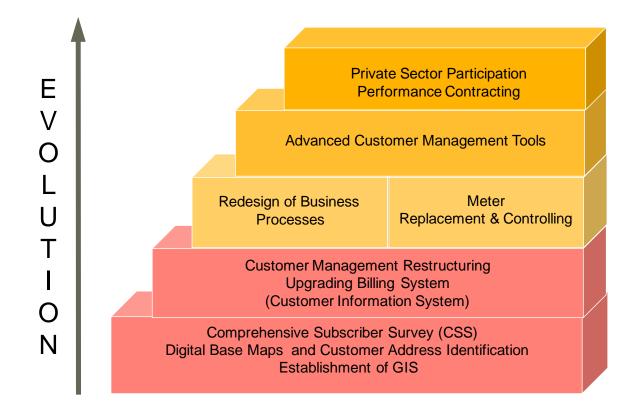


Core Measures

- Implementation of GIS-based Information Management System (MIS)
- Implementation of accrual-based accounting according to international standards (IAS)
- Technical, adminitrative and financial capacity building
- Preparation of PSP measures (Micro-PSP)



Operations Management Support (OMS) – the approach in a nutshell



Operations Management Support (OMS) Findings and Lessons Learned

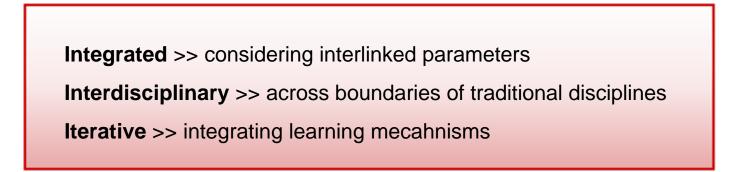
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- Combining measures on all levels (policy development, technical functions, administrative functions, customer relationship)
- Combining top-down and bottom-up approach >> GIZ, Consultant, Utility Operator
- Mobilizing internal capabilities with interdisciplinary approach
- Steering improvement systematically (gradual change)
- Base data information matters (effective data management)
- Ensuring process continuity (simple but stable)
- Using simple IT-solutions to back-up business processes (e.g. open source)
- Intregrating external expertise (when feasible and accountable)



Integrated Urban Water Management





Thank you for your attention!