





# KEY POLICY MESSAGES

- The growing investment in water supply, sanitation and hygiene has not systematically addressed the threat from infectious water-related diseases.
- In particular, 'on-site' household-based interventions may even increase the threat to human lives if they are disengaged from an integrated water management approach.
- Failure to consider complex local institutional settings in implementation have impeded the desired "preventive medicine" goals of water supply, sanitation and hygiene investments.

## **POLICY RECOMMENDATION**

International, national and regional actors should play 'politics with principle' to achieve an integrated water, sanitation and hygiene approach that actually does reduce the threat from infectious water-related diseases.

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Based on Water International November 2013 Special Issue on Water Supply and Sanitation as 'Preventive Medicine': Challenges in Rapidly Growing Economies (V.S. Saravanan and Daphne Gondhelakar, eds.)(vol. 38, n° 7) This briefing draws upon GWSP (Global Water System Project) Policy Brief #5 on Water, Sanitation and Health (available at www.gsp.org), with the kind permission of the GWSP.

The importance of water supply and sanitation for improved human health had gained prominence in the developing world thanks to the Millennium Development Goals (MDGs). Increasing population, rapid urbanization, agricultural developments, globalization, industrial development and poor wastewater regulation have affected the quantity and the quality of water around the world. These activities have not only exhausted existing water resources but also triggered contamination of water resources, increasing the spread of infectious water-related diseases. World-wide. development agencies have increased their investment in water supply and sanitation as a 'preventive medicine' to address the growing threat from infectious water-related diseases. This investment also gained momentum from the MDGs. In spite of these improvements, improved health from these interventions are rare. Drawing on the experience from several case studies in rapidly growing economies (See Water International, 2013), the Policy Brief concurs the failure of water supply and sanitation intervention in improving human health. It finds that national and international development agencies have considered the WSS goals as global targets, without meaningful local adaptation. Further, most of the interventions targeted by international agencies have been aimed at the household-based technologies of drinking water, sanitation and hygiene, and/or even developing markets for some of the companies promoting these improvements. More so, they failed to comprehend the complex institutional environment, which has significantly hampered water supply and sanitation to serve as a 'preventive medicine'. The international goals have been the driving force behind the international community's striving for a common cause. It has mobilized both national and international, to increase aid flow, develop various policy measures and generate consistent figures on water supply and sanitation to secure human health (Waage et al., 2010). The Policy Brief calls on international, national and regional actors to consider the international goals as 'super-norms' and should strive to contextualize by playing 'politics with principle' to innovate the socio-technical and institutional dimensions for integrated water, sanitation and hygiene to reduce the threat from infectious diseases.

#### COMPLEX INSTITUTIONAL TERRAIN

Ideally, water supply and sanitation (WSS) combine to represent an integrated system that involves capturing, transporting, treating, effectively supplying and disposing of water through an appropriate socio-institutional en-

### LINKS

To read the WI special issue on 'Water Supply and Sanitation' (vol. 38, n°7) www.tandfonline.com/toc/rwin20/38/7



vironment that is hygienic, equitable and sustainable. In contrast, many of the interventions implemented by international and national organizations in these economies were merely on-site, household-level interventions that are either technocentric, focused on on-site drinking water and sanitation technologies and in-house treatment, or socially engineered public participation, training households in hand-washing and awareness building measures, emulating the result-based targets of the MDGs. Such interventions often blame (burdening) the community for the chaos, while immunizing the state and international agencies from their crucial responsibility of ensuring safe drinking water, basic sanitation and environmental hygiene (Saravanan, 2013-ZEF WP 124). In these countries, we see water pipes carrying polluted water that makes people sick, and gleaming toilets (installed without connections to sewer systems) drowning people in an unhygienic environment; what looks like progress towards a 'preventive medicine' actually poses a threat to human lives.

WSS in rapidly growing economies is influenced by the particular institutional setting and by local organizations, policies and political actors. Perpetuation of the colonial legacy of segmented planning, inadequate land-tenure arrangements, neoliberal policies, unregulated expansion of urban growth and vote-bank politics have created opportunities to exploit the long-standing structural arrangements. In the process, the city's water infrastructure faces inefficiencies in the distribution of water, poor design of water networks, growing illegal water connections, land and water encroachment, frequent (water logging) and increasing physical water loss. This has led to mixing of sewerage water with freshwater providing a conducive environment for the breeding and spreading of infectious water-related diseases. Though the problems of poor WSS are known to disproportionately affect the poorer segments of society, poor solid waste management, high population mobility, inadequate housing and an interconnected but inefficient infrastructure, and very high costs of supplying safe freshwater e.g. in terms of energy could further lead to infectious water-related diseases enveloping middle- and higher-class residential areas in urban regions. In rural areas intensification of agricultural activities and increase in small-scale industries resulting in extensive contamination of water, poor drinking water coverage, inadequate

sewage and sanitation systems accelerated with economic growth, migration and population growth leading to health risks associated with biological or microbial pollutants (e.g. large intestine bacilli, hepatitis B virus, cholera virus, typhoid and E. coli) and chemical pollutants (e.g. heavy metals, fluorine, arsenic, benzene and oil). There have been successful initiatives from non-governmental and government agencies, however, without adequate institutional arrangements and legislative support, such interventions are prone to fail. The complex institutional environment has remained a major hurdle with respect to improving water supply and sanitation in poorer areas and lessening the spread of infectious water-related diseases.

#### PLAYING 'POLITICS WITH PRINCIPLE' FOR IMPROVED WATER SUPPLY, SANITATION AND HYGIENE

The Post-2015 marks a significant improvement over the MDGs, by emphasizing universal access to drinking water and sanitation and treating all municipal and industrial wastewater prior to discharge (UN, 2013). Given their simplicity, clarity and intentions, the post-2015 goals can enable various actors to wield and negotiate their differential powers to contextualize and implement these goals - i.e. to play politics by principle. Buchanan and Congleton (1998, p. xii) argued that "politics by principle constrains agents and agencies of governance to act nondiscriminatorily, to treat all persons and groups of persons alike, and to refrain from behaviour that is, in its nature, selective. Within the limits of such constraints, politics may do much or little, and it may do what is done in varying ways."

International agencies could play politics with humanity to facilitate the WSS as a preventive medicine. While there is no dearth of household-based technologies or community-based alternatives for WSS, there is inadequate attention to a binding international law framework or even 'soft' law within the United Nations context underlying the water reforms (Cullet, 2012). Worse, there is a dearth of initiatives from the international community to build the socio-institutional capacity necessary for addressing WSS and public health in the countries that need assistance. While the strategic priorities of international agencies are important, they have to be meaningfully aligned with huma-

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nitarian motives, displaying solidarity and enlightened self-interest (Bandara, 2012). Even more, they have to communicate these in a transparent and accountable manner to the recipient countries without hampering their development and security.

National agencies could play politics to develop mechanisms to regulate and to facilitate the power dynamics of actors within their respective countries. The inheritance of colonial legacy is exploited by contemporary actors (a growing middle class, politicians, the poor, urban planners, private companies and bureaucrats), resulting in a vicious cycle with which national and regional bodies must come to terms. They have to craft appropriate policies, legislation and regulations to translate vision and goals into practical reality, and especially create effective evaluation mechanisms. Their role, through politics for development, will ensure the security and advancement of their fellow citizens.

While the inadequacies of the contemporary approach towards WSS are clear to local authorities, their hands are often tied by highly interwoven political and bureaucratic processes. Local authorities and civil society should be given the freedom to play politics with responsibility and bring humanitarian international and national interest to each local context. Building adequate spatial information systems at local levels to monitor water safety and disease-related issues, and for working alongside civil society for a collective initiative could bring about awareness and significant changes among the communities. Such an information system can be used as a spatial decision-support system for politicians, key agents, and local workers to model various alternatives and development scenarios and identify the best long-term choices.

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