



Promoting Innovations in Wastewater Management

Making Sanitation a Sustainable Business

Wastewater Management Expert (WaMEX) Tool

ADB's New Wastewater Management Expert System to Evaluate Technologies and Sewer Networks

The Asian Development Bank (ADB) and the UNESCO-IHE teamed up to develop the wastewater management expert system that will provide decision-makers and planners with a tool to carry out "what-if" scenarios to effectively evaluate technologies and sewer networks.

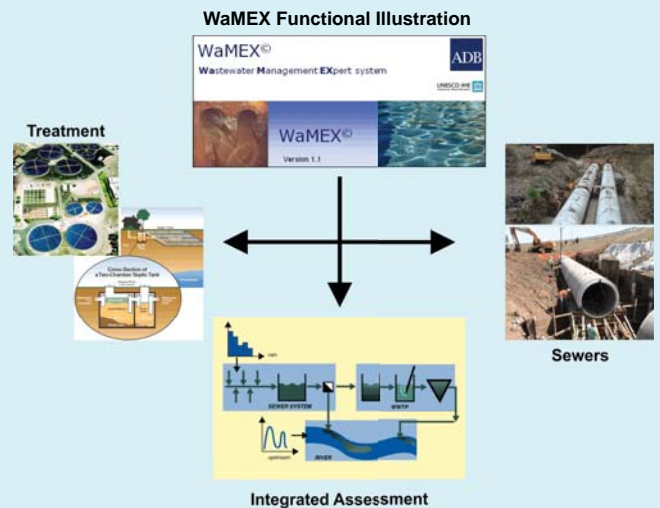
Forging a Partnership to Develop a Decision Support System

In March 2009, during a high level sanitation dialogue between ADB and its DMC clients, several key areas have been identified that need greater focus: institutions and policies; technology options; financing options and private sector participation; information, education, and communication; and economics of sanitation. One of the key actions to respond to these focal points is to develop a decision support system – an Expert System – that will facilitate the evaluation of different sanitation options, selection of suitable and cost-effective technologies, and planning and design of environmental sanitation projects.

As one of the knowledge products, the Expert System – WaMEX – will assist decision-makers to evaluate wastewater management options, and thus enhance capabilities of those responsible in ensuring that sanitation services are effectively delivered.

What WaMEX Can Do

- **Evaluates wastewater management system options** based on effluent and influent characteristics, water quality standards to be achieved, technology efficiency criteria, and costs.
- **Shows investment efficiency of technology options** based on preliminary cost estimates of wastewater treatment technologies, pollution removal efficiency, and cost per removal.
- **Provides mapping tool and cost estimates for sewer system options.**
- **Supports assessment and implementation of a sanitation roadmap**, including appropriate treatment technologies, sewer network, financing or ways of scaling up to meet sanitation targets.



Source: Zoran Vojinovic. 2013. UNESCO-IHE, Institute for Water Education, Delft, The Netherlands. WaMEX – Wastewater Management Expert System: Powerpoint Presentation.

Training on Wastewater Management Expert (WaMEX) Tool

10–11 December 2013 • Learning Resources Center 2 • ADB HQ

Program

Day 1 (Tuesday) – 10 December

		1:30–3:00	Case work
		3:00–3:30	Coffee Break
8:00	Registration of Participants	3:30–5:00	Presentation of case work results

Opening Remarks

8:40	Welcome Remarks
8:50	Introduction of the Wastewater Website http://wastewaterinfo.asia

Introduction

9:00–10:00	Introduction to WaMEX
10:00–10:30	Coffee break
10:30–12:00	Demonstration of WaMEX
12:00–1:00	Lunch break

Day 2 (Wednesday) – 11 December

8:30	Registration of Participants
9:00–10:00	Advanced discussions: database, next steps
10:00–10:30	Coffee break
10:30–12:00	Solicitation of feedback: "How can the tool be improved to suit the DMCs' needs?"
12:00–1:00	Lunch Break