



STATE OF ISRAEL



Israel's Agency for International  
Development Cooperation  
Ministry of Foreign Affairs



The Weitz Center for  
Sustainable Development

**MASHAV - Israel's Agency for International  
Development Cooperation**

**with**

**The Weitz Center for Sustainable Development**

invite professionals  
to participate in the

**International Course:**

# **Urban Water Technologies and Management**

**November 4<sup>th</sup> – 23<sup>rd</sup>, 2018**



## About the Course

### Background

“Cities are major contributors to national economies and play a key role as nodes in global markets. But Cities can only develop Sustainably when they provide reliable water supply and sanitation services to city dwellers and manage risks of too much, too little or too polluted water”

OECD, 2015. *Water and Cities: Ensuring Sustainable Futures*, OECD Studies on Water, OECD Publishing, Paris.

Cities are currently home to a majority of the world's population. Over the next 30 years most of the two-billion-plus person increase in global population is expected to occur in urban areas in the developing world. If well managed, cities offer opportunities for economic and social development.

Access to water has been a key defining factor in the location and prosperity of cities. Water for drinking and sanitation sustain the health, livelihood and the living environment of city dwellers. A sustainable urban economy also depends on its water quality, reliability and cost of supply.

In these times of change; when urban population is growing rapidly, climate change impacts bring more extreme weather such as droughts and floods, where urban pollution is expanding, economic, social and environmental costs of water security are on the rise.

Can these challenges be addressed with current management models and financial resources? What opportunities lie in innovative technologies and practices?

Fast growing cities in developing countries have the opportunity to experiment innovative urban planning and water management practices, enabling them to avoid the complex and nonflexible arrangements that have “locked in” developed countries.

Innovating in urban water management can be both, technical such as ICT and water infrastructure, and non-technical, such as in management and planning approaches. Innovative water managements can be seen as a combination between technologies, innovative business models for the service providers and innovative governance. The international training on *Urban Water Technologies and Management*—is designed to empower participants to develop a comprehensive approach to urban water management – one that includes both innovative leading technologies and innovative management tools.

### The Israeli Experience

Israel is a small, densely populated country with few natural resources, especially water. As such, Israel developed novel technologies for conservation, resource management and implementation mechanisms.

Israel's climate is mainly dry and with reoccurring droughts has over the years faced these challenges. Since its founding, limited precipitation, a difficult desert climate, water waste, lacking infrastructure and a growing population have negatively affected the water management. With the joint effort of the Israeli government, scientists and companies, Israel has managed to develop cutting-edge solutions.

From seawater desalination to water conservation, water recycling, wastewater treatment and water purification – Israel has become a leader in the development of innovative water technologies.

Israel is the world leader in wastewater reuse and recycles over 80% of its sewage.

## Aims

The course aims to:

- Provide participants with knowledge on Israel's water management planning principles, water management systems, and available technologies.
- Inspire and energize participants to be agents for positive change in their countries
- Expose participants to new approaches and opportunities in the field of water resource management
- Present Israel as a case study from which to draw valuable lessons about water resource management.
- Enrich participants with professional skills with which to develop their careers and best benefit their communities and countries
- Connect participants with an international network of professionals in their field.

## Main Subjects

The program will provide participants with knowledge and tools in the following subjects:

- Water resource protection, usage efficiency, & management
- Municipal water services (quality assurance, metering, billing, & customer service)
- Innovative & computerized management systems (ex. allocation technology)
- Smart water technologies for water management
- Water storage and distribution
- Wastewater recycling
- Large-scale water desalination
- Measuring & metering water consumption & loss (non-revenue water – NRW)
- Water security
- Water treatment and supply (by National Water Company and engineering companies)
- Municipal water authorities; structure and business model
- Water use standardization
- Water sensitive cities

## The methodology

Participants will participate in both classroom based lectures and 5 field visits, benefiting from the experience and knowledge of high-level Israeli experts and consultants. Israeli case studies and practices will be discussed throughout the program. Additionally, participants will be required to formulate and present a project of interest relevant to the topic of this course. For this purpose, some pre-course work will be required. Detailed instructions will be sent to the selected participants.

*Remark: Please take into consideration that the program involves daily walking on the campus as well as during field visits.*

## Application

### Application Requirements

The training targets highly motivated Decision makers, policy makers and professionals from fields associated with urban water resource management; those working in water utilities; water engineers; planners; relevant government ministries; local authorities, NGO's and CBO's, business organizations, and academic institutions.

## Application forms

[Application forms \(download\)](http://mashav.mfa.gov.il/MFA/mashav/Courses/Pages/default.aspx) and other information may be obtained at the nearest Israeli mission or at MASHAV's website: <http://mashav.mfa.gov.il/MFA/mashav/Courses/Pages/default.aspx>.

The completed forms (including health declaration etc.) should be submitted in **WORD documents** to the relevant Israeli mission in your area and sent to our office ([ronit@weitz-center.org](mailto:ronit@weitz-center.org)) **no later than the morning of August 24<sup>th</sup> 2018**. Candidates must also hand in a passport photo by electronic file.

## General Information

### Arrival and Departure

Arrival date:	November 4, 2018
Opening date:	November 5, 2018
Closing date:	November 22, 2018
Departure date:	November 23, 2018 morning

Participants must arrive at the training center on the arrival date, and leave on the departure date. Early arrivals/late departures if required, must be arranged by the participants themselves, directly with the center, and must be paid for by the participant him/herself.

### Location and Accommodation

**MASHAV** awards a limited number of scholarships. The scholarship covers the cost of the training program including lectures and field visits, full board accommodation in single rooms in shared apartments of 4-5 persons, health insurance (see below) and transfers to and from the airport. Airfares and daily allowance are not included in the scholarship.

### Health Services

Medical insurance covers medical services and hospitalization in case of emergency. It does not cover the treatment of chronic or serious diseases, specific medications taken by the participant on a regular basis, dental care and eyeglasses. Health authorities recommend that visitors to Israel make sure they have been inoculated against tetanus in the last ten years. Subject to the full binding policy conditions. Participants are responsible for all other expenses.

The course will be held at **the Weitz Center for Sustainable Development**, situated within the campus of **the Faculty of Agriculture, Rehovot, Israel**. Participants will be accommodated at **the Reisfeld Residence** in single rooms in shared apartments (4-5 participants per apartment).

## About MASHAV

MASHAV – Israel's Agency for International Development Cooperation is dedicated to providing developing countries with the best of Israel's experience in development and planning. As a member of the family of nations, The State of Israel is committed to fulfilling its responsibility to contribute to the fight against poverty and to the global efforts to achieve sustainable development. MASHAV, representing Israel and its people, focuses its efforts on capacity building, sharing relevant expertise accumulated during Israel's own development experience to empower governments, communities and individuals to improve their own lives. MASHAV's approach is to ensure social, economic and environmental sustainable development, and is taking active part in the international community's process of shaping the Post-2015 Agenda, to define the new set of the global Sustainable Development Goals (SDGs).

MASHAV's activities focus primarily on areas in which Israel has a competitive advantage, including agriculture and rural development; water resources management; entrepreneurship and innovation; community development; medicine and public health, empowerment of women and education. Professional programs are

based on a “train the trainers” approach to institutional and human capacity building, and are conducted both in Israel and abroad. Project development is supported by the seconding of short and long-term experts, as well as on-site interventions. Since its establishment, MASHAV has promoted the centrality of human resource enrichment and institutional capacity building in the development process – an approach which has attained global consensus.

<http://mashav.mfa.gov.il>

<https://www.facebook.com/MASHAVisrael>

### ***About the Weitz Center for Sustainable Development***

The Weitz Center for Sustainable Development is a leader in capacity building for sustainable development. Our work is dedicated to enhancing the efforts of international agencies, governments, communities, civil society and private sector organizations to achieve positive social and economic change both in Israel and abroad across developing and transitioning countries. Towards this end, we offer high quality training and consulting services, highlighting our practical, assets-based and integrated approach to development.

<http://www.weitz-center.org/>

#### **For further information, please contact:**

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