Integrated and Multidisciplinary Water Resources Management Webinar 26-27 NOVEMBER 2020, THESSALONIKI, GREECE (CIMWRM)

Past Present and Future of Urban Water Management

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United Nations Educational, Scientific and Cultural Organization Regional Centre on Urban Water Management (under the auspices of UNESCO)

Establishment: 5th February 2002 **Third Period of Activities**: 2019-2024

Main Objectives:

1. Providing support to joint research and technology transfer projects

2. Conducting training courses and capacity building events at various levels

3. Partnership and networking at the regional and international levels

Governing Board Members



Evolution of Urban Water Management Concepts

Cumulative socio-political drivers







Classification of Urban Water Terminology



(Fletcher et al., 2014)

Change in Water Consumption Pattern

Change in Daily Water Consumption at Begining of Pandemic



Source: National Water and Wastewater Engineering Company, Iran



Weekly Water Consumption (MCM)



Source: National Water and Wastewater Engineering Company, Iran

Direct and Indirect Impacts

- Financial instability of water utilities: Postponing water
 bills due and inability to pay bills
- Increase in urban water demand: %7.2 increase in comparison with the previous year with max growth rate in the third week of March (%12.7)
- Supply chain disruption: Chemical and non-chemicals
- Infected human resources: Continuity and quality of services and performance assessment

Future: New Normal

- Difficulties in demand prediction and energy cost
- High depreciation of facilities and equipment due to expansion of service time and rapid change of service load during pandemic
- Intensification of water quality monitoring through increased number of sampling and the relevant tests
- PPE for staff and operators



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Thank You