

Cairo's experience with green infrastructure to detect water leakage and reduce losses

Prepared by Dr. Ahmed Saad Abou Srea The head of central department of infrastructure planning - GOPP



Arab Republic of Egypt

Egypt is located in the north-eastern of Africa.

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Total area	1 million Km ²	Mediterrianean sea Perater Caro Regional Alexandria Regional North Upper Egypt Regional South Upper Egypt Regional South Upper Egypt Regional South Upper
Number of regions	7 (27 gov)	
Population	100 million	
water production	30 mcm/d	
Water service coverage	98%	
Annual rate/ capita	650 m³ < 1000	
Treated domestic waste water	13.4 mcm/d (45% of water production)	
Waste Water service coverage	aste Water service 65%	The state of the s

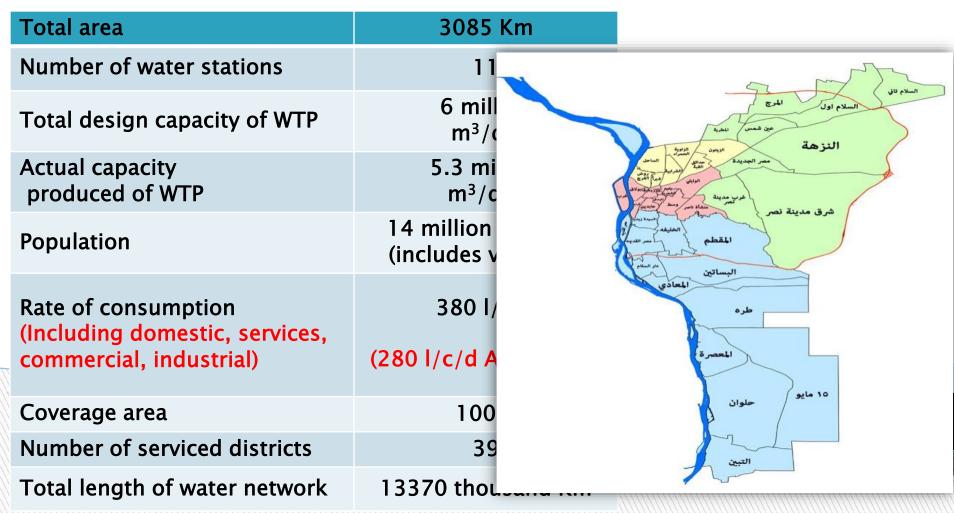


Water consumption rationalization plan and utilization of the available water

- **resources The first Pillar: (Alternative resources): desalination** for sea water in coastal governorates and groundwater plant
- > The second Pillar: (Water reuse): by expanding construction of sewage treatment plants (WWTP) in Upper Egypt and rehabilitation and converting secondary to tertiary treatment.
- > The third Pillar: (Reducing the rate of losses in drinking water): rationalizing water consumption (installing saving private parts), reducing commercial and industrial losses, providing household meters, and raising awareness to reduce consumption.

Cairo Governorate

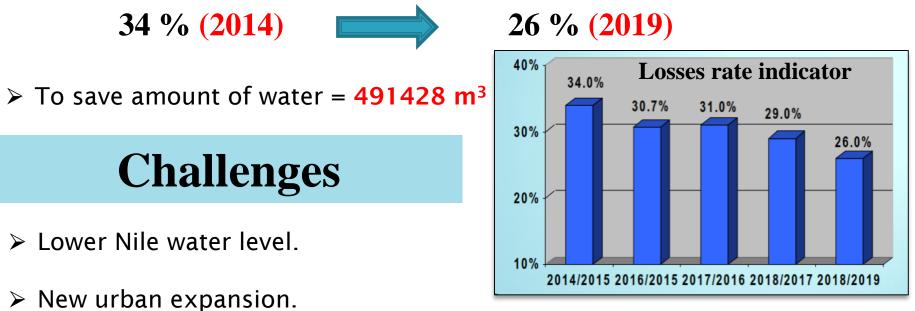
Cairo is the capital of Egypt, and the largest Arab city in terms of population.



Current Situation



> Reducing the rate of drinking water losses in networks from:



- Increasing the demand of water supply due to changing from low-density residential to High-density.
- Negative effect of implementation of infrastructure after water networks.



Rehabilitation plans for water network projects

