





13th International Conference Europe –INBO 2015 Thessaloniki 21-24 October 2015 Roundtable 4

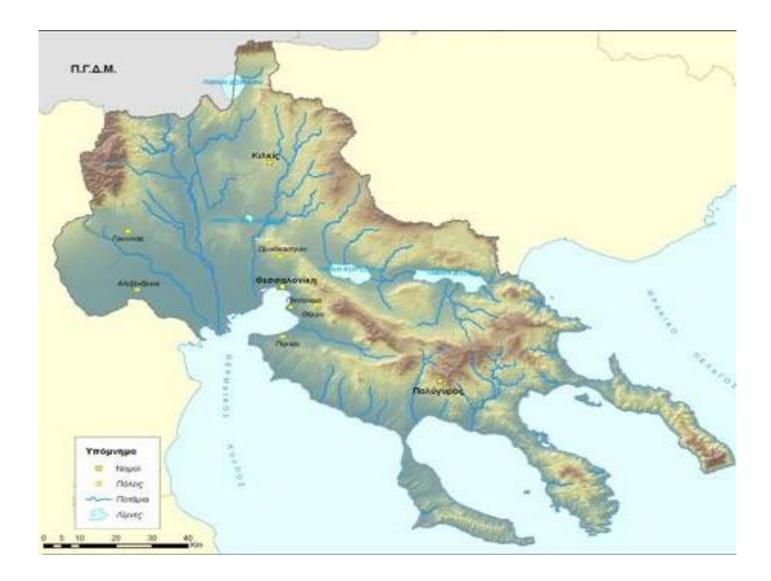
"WATER RESOURCES MANAGEMENT EFFORTS & CHALLENGES BY A WATER SUPPLIER (EYATH SA)"

Athanasios Soupilas Department of Development, EYATH S.A.





RIVER BASIN OF CENTRAL MACEDONIA





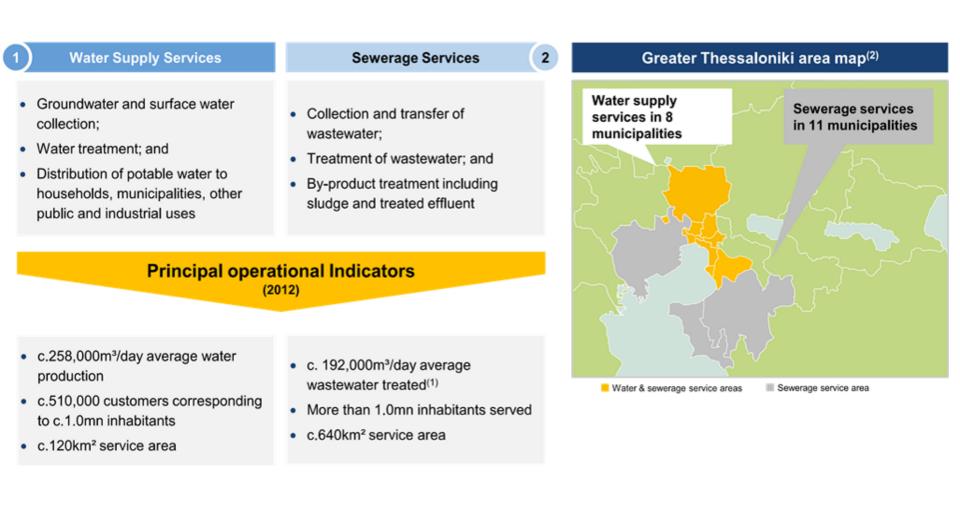
EYATH sa Thessaloniki's Water supplier & Sewerage Co



Our business:



Provide water and sewerage services in the greater Thessaloniki area

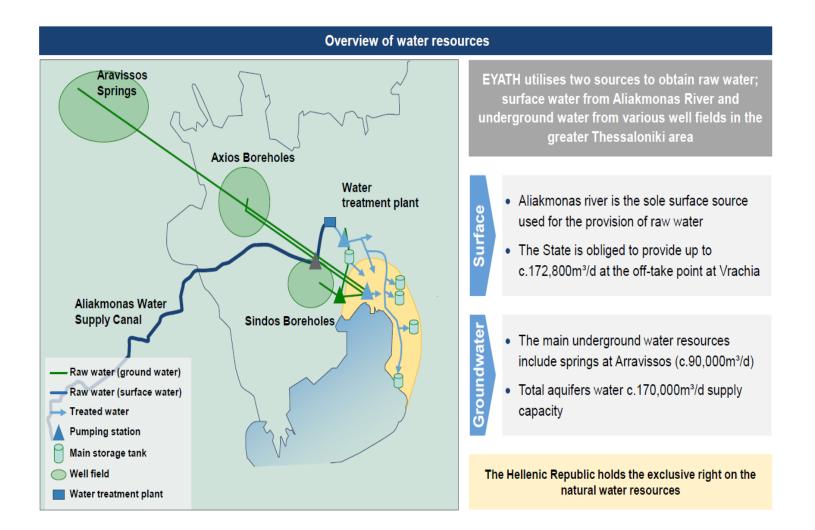


Notes: (1) Industrial Zone plant ("MKA") capacity is included (c. 10,350³/day) (2) Water supply and sewerage services are provided in certain areas of the mentioned municipalities. Also, network improvement provided to Delta municipality



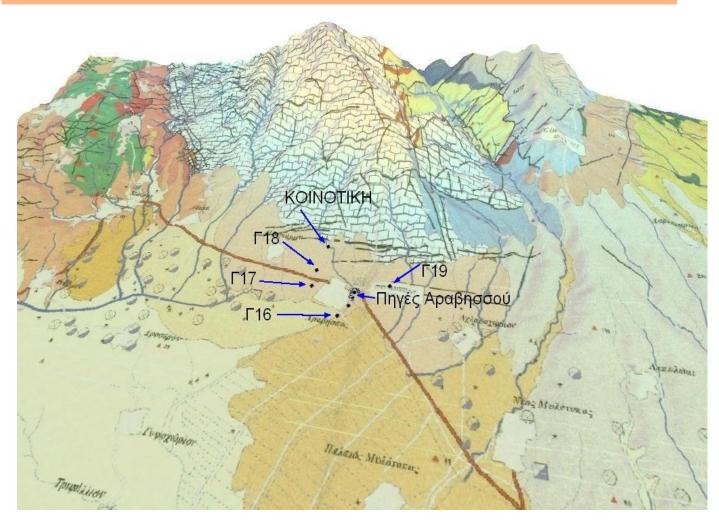
Water supply services Water resources





Thessaloniki's Water supply from Aravissos Carstic springs

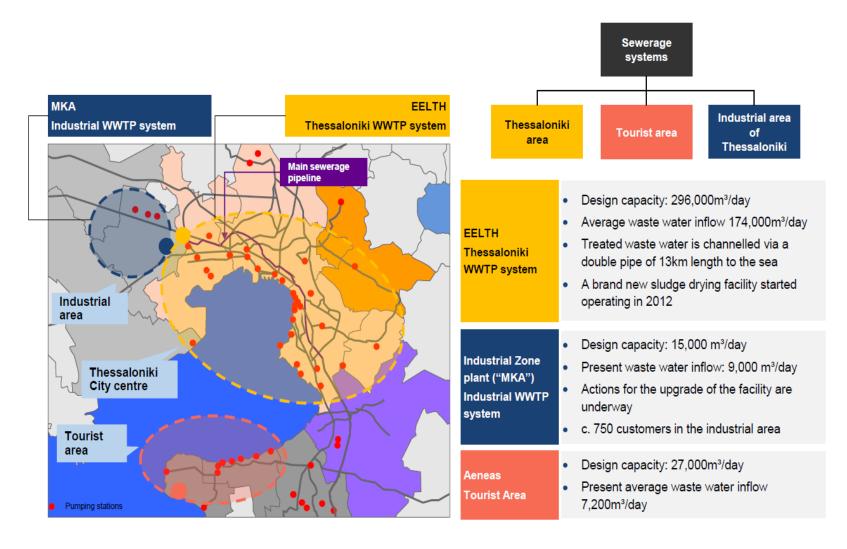




Sewerage services



Thessaloniki sewerage systems



Thessaloniki's wastewater treatment plant & Drying & Ozonization units







EYATH'S WATER & W/W TARIFF SYSTEM

Quantity m3 /4monthly bills (Domestic clients)	Price €/m3	
0-10	0.46	
11-30	0.63	
31-60	0.72	
61-120	1.16	
121-180	2.39	
181 and more	4.03	
<u>Sewerage cost</u> on all the above	80% on the water cost	
Industry m3/4monthly bills	Price €/m3	
0-500	0.52	
501 and more	0.81	
Clients of the Industrial area of Thessaloniki	Special arrangement	

CLIMATE CHANGE & THE NEED TO ADAPT



Climate change the biggest challenge for the water sector Floodings & droughts . It may change land uses and habits

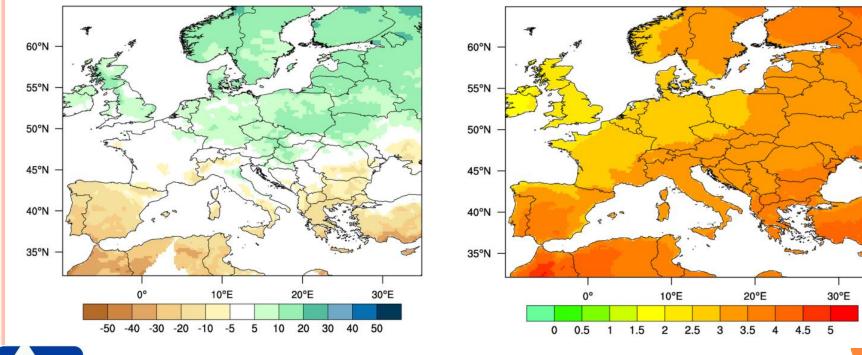
Impairs drinking water quality Requires large investments





REGIONAL CLIMATE MODEL (REGCM3): CHANGES UNTIL 2071-2100 RELATIVE TO 1961-1990

Changes in mean annual precipitation Changes in mean temperature







WATER SECTOR'S BASIC PRINCIPLE

Apply Mitigation & Adaptation actions to Climate Change by reducing Carbon Emissions but without endanger the Economic and Financial stability of the Water Sector



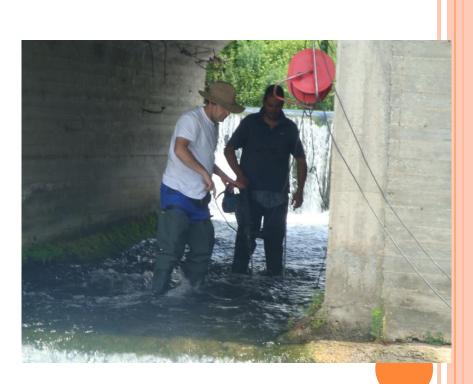
EYATH'S CERTAIN ADAPTATION ACTIONS FOR WATER SOURCES MANAGEMENT

- Improve water distribution system and minimize water losses
- Implement more systematically monitoring control on drinking water
- Search for new alternative water sources (i.e. treated effluents for re-use & Artificial recharge)
- Develop water & w/w treatment processes
- Recycle sludge to agriculture
- Involve in Research projects (CC-Water ,CC_Ware, Gabardine , Real_t_so for CSO's , Thermaic Gulf)
- Inform the public on its plans and actions



Implementing monitoring plan in water supply sources







Precipitation and surface run-off monitoring measurements





Use of CC_Waters instruments

Ecological sun panel



Water Supply Infrastructure









TREATED EFFLUENTS AS A PRECIOUS WATER SOURCE

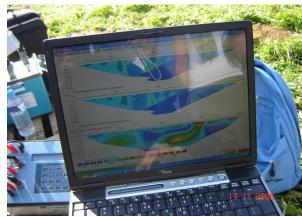






ADVANCED TREATMENT USING PILOT MEMBRANE_RO_MICROFILTRATION SYSTEM





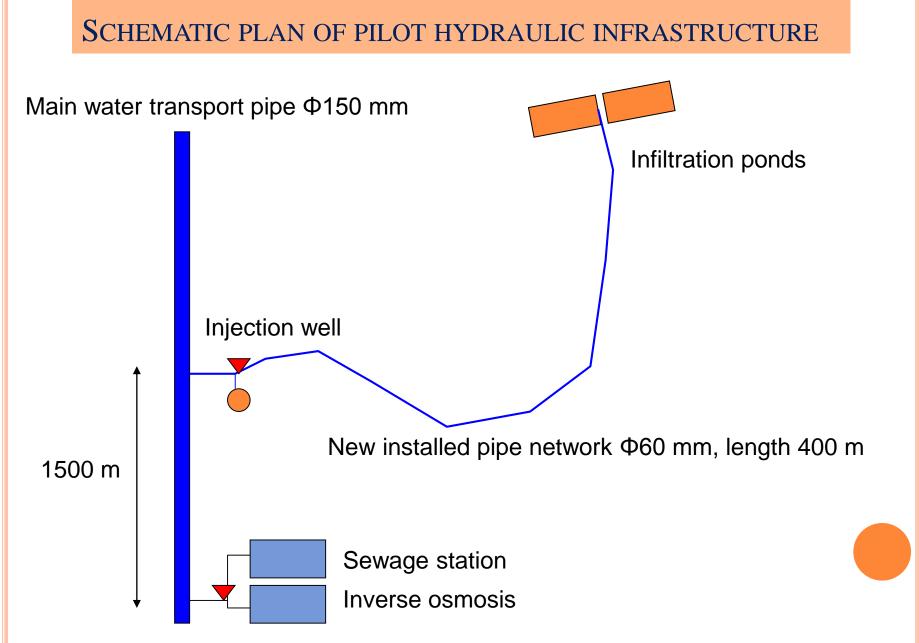




Treated effluents as an alternative water source for Artificial Groundwater Recharge









ATTEMPTS & ACTIONS TO MINIMIZE WATER LOSSES



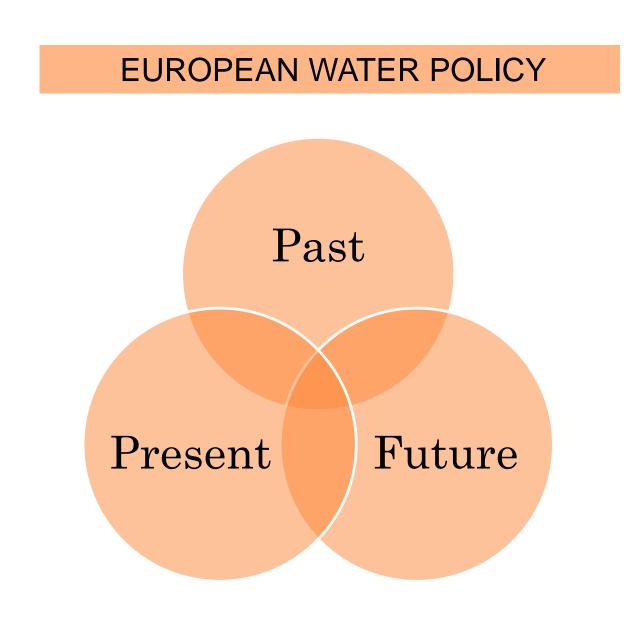






SEWAGE SLUDGE RECLAMATION





COMPLIANCE IN IMPLEMENTING EU'S ENVIRONMENTAL & WATER LEGISLATION





Dissemination efforts





Above all ... People do the job not the machines









VIEWS _POSITIONS

- <u>Government decides but local actors implement</u> (Mr Donzier INBO Technical secretary)
- Costs of the implementation should be recovered from the appropriate sectors
- The Water Industry's obligations under the WFD should be fair and reflective of the "polluter pays"principle
- Water suppliers need to understand their consumers needs since they pay for the service
- "Pollution control at source" not "end of pipe treatment"EUREAU

And one year with plenty of water

Thank you

19. 12. 2014 12:44

