Workshop Water Security in Bulgaria



Sofia, September 18th

Water and Sanitation Sector in Portugal

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OBJECTIVES

- **1** To present the water and sanitation reforms introduced since 1993
- **2** To present the results of such reforms
- 3 To draw lessons from the Portuguese experience





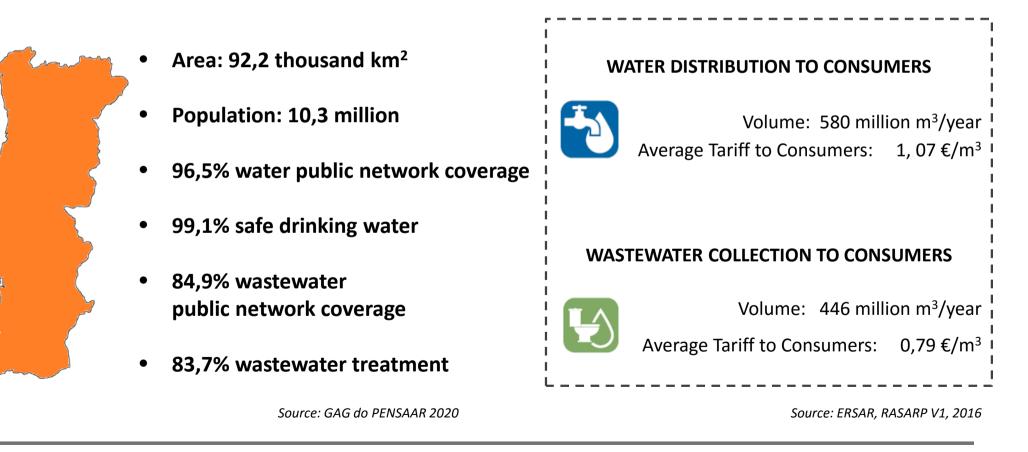






PORTUGAL WATER AND SANITATION SECTOR AT A GLANCE – KEY INDICATORS

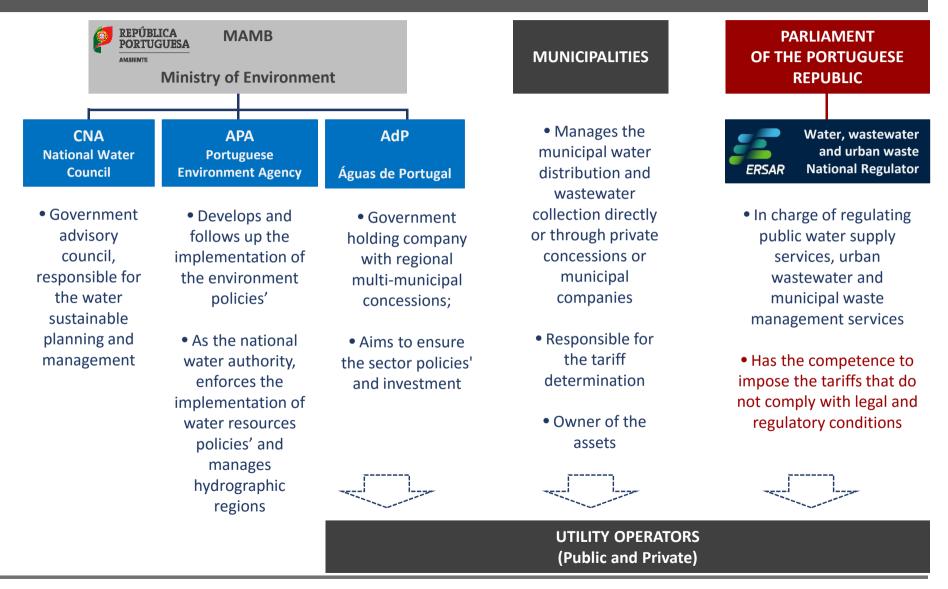
In **Portugal**, public water supply is universal, covering 96,5% of all households in the country while wastewater collection covers 85% of the households.







PORTUGAL WATER AND SANITATION SECTOR AT A GLANCE - ORGANIZATION



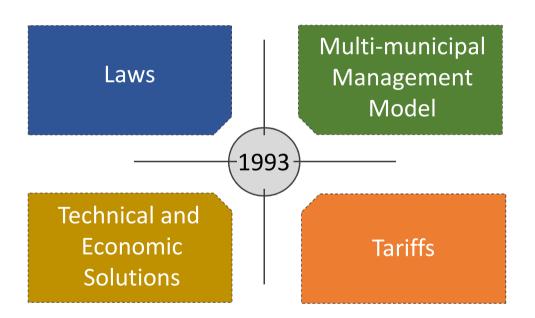
Sofia, September 18th





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REFORMS INTRODUCED



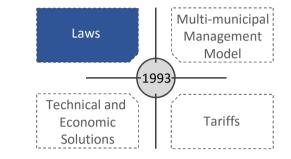




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Legal reform

- Until 1993 local authorities were exclusively responsible for water and sanitation systems.
- In 1993, two distinct concession models were created:
 - Public multi-municipal systems between Government (51%) and Municipalities (49%);
 - **Private** concessions through international public tender promoted by the municipalities.
- Legal reforms encouraged a true water industry with the required investment capacity.



- Adequate management of water resources
- Professionalism of the water market
- Acceleration of the rate of capital investment
- Access to private capital



Water and Sanitation Sector in Portugal



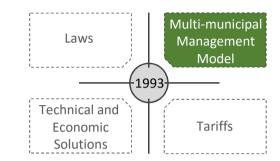
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Multi-municipal systems management model

Large scale systems;

100% public concessions from 20 to 50 years

- Responsible for "bulk" services:
 - Water treatment and supply to municipalities
 - Wastewater collection and treatment
- Downstream, municipalities still manage (or grant in private concession) the distribution networks to consumers and also sewerage networks ("retail" service).



- Municipalities are simultaneously shareholders and clients of the multimunicipal companies;
- European Union "Cohesion Funds" supporting capital investment up to 85%

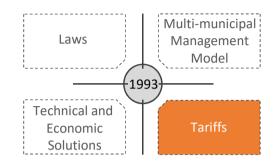


Fixing Tariffs

- Tariff to be charged to consumer include:
 - Multi-municipal tariff
 - Water distribution and sewerage collection tariff
- Multi-municipal systems practice "full cost recovery", assuring sustainability and efficient asset management;
- Municipal systems are responsible to fix consumer's tariffs and may subsidize service to practice lower tariffs although "full cost recovery" is encouraged.



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TARIFFS ENSURE AFFORDABILITY



SANITATION TARIFF (€)	
Average Multi-municipal Tariff	0,51
Average Tariff to Consumers	0,79

Source: ERSAR, RASARP V1, 2016





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Optimizing investment and operating costs

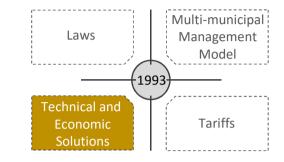
- Master Plans to large urban areas:
 - Oporto and Algarve: raw water reservoirs , WTP, strategic treated water tanks;
 - Estoril and Aveiro: Sewer main ring and WWTP.
- "Second generation" of multi-municipal systems to less populated regions;
- National Strategic Plans approved each 7 years;
- Financial support from European Union and European Investment Bank.



European Union grants

€ 6 390 Million

Sources: ERSAR; PENSAAR 2020



CAPITAL INVESTMENT (Million €)

WATER	7 124
Multi-municipal	3 760
Municipal	3 364
SANITATION	6 114
Multi-municipal	2 848
Municipal	3 266



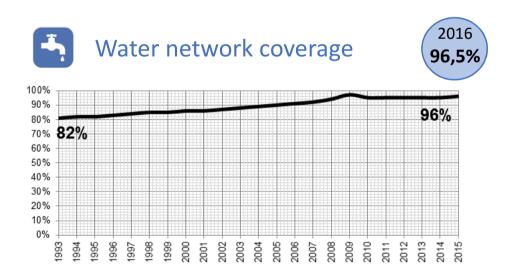


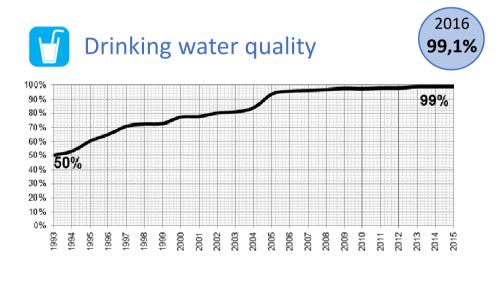
EVOLUTION AND RESULTS





- Public network covers the entire country
- Drinking water quality is universal
- Affordability is 100% assured



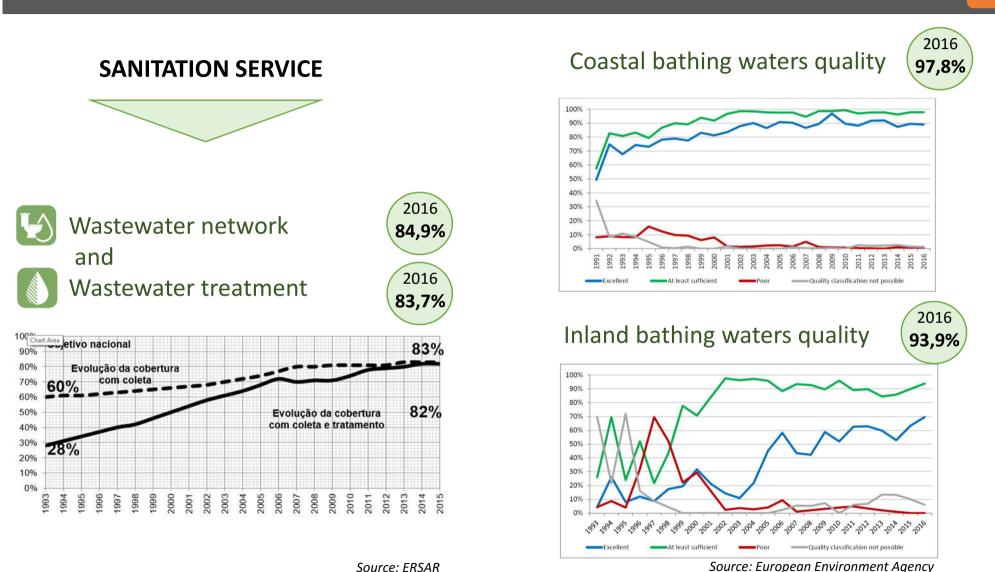


Source: ERSAR



EVOLUTION AND RESULTS





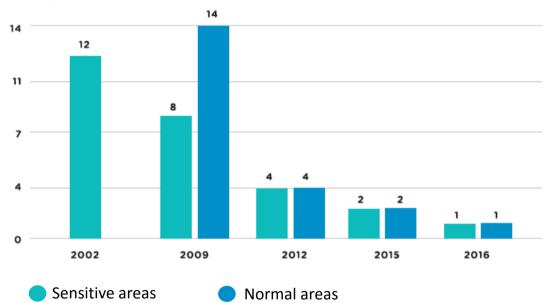




EVOLUTION AND RESULTS

COMPLIANCE WITH THE Urban Waste Water Treatment Directive

- Portugal faced significant improvement
 in terms of compliance with the
 UWWTD;
- There are only two situations to be solved regarding : (1) secondary treatment and; (2) tertiary treatment in agglomerations of more than 10.000 p.e. in sensitive areas.



n. of agglomerations with litigation

All litigation regarding 91/271/CEE UWWTD should be solved until 2019

Sources: APA, REA 2016





LESSONS LEARNED

Portugal faced impressive improvement in the last 25 years

This was possible through:

- 1. The existence of a 100 year old experienced company in Lisbon, EPAL, leveraging state owned company AdP Águas de Portugal
- 2. The injection of significant grants from the European Union
- 3. The opening of the water and sanitation sector to private operators, leveraging competition and professionalism
- 4. The establishment of a strong, empowered Regulator ERSAR

Portuguese water and sanitation sector is developed and mature, still...





LESSONS LEARNED

... There is much to be done

- Although many Utilities are sustainable and practicing "full cost recovery" policy...
- ...some Utilities have operational costs above their tariff revenues.
- There is much space for efficiency improvement, hence reducing operational costs.
- Capital investment in infrastructure renewal must be performed in a higher rhythm than the present one.
- The split between "bulk" and "retail" Utilities causes technical and economic difficulties that are yet to be solved.

However...





Капка по капка – вир става Drop by drop – a whole lake becomes

Благодаря ви