Water Supply and Sanitation Sector in Portugal PPPs – Private Concessions

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O1 MANAGEMENT MODELS **O2** OVERVIEW OF THE MUNICIPAL CONCESSION SETOR **Key Features Geografic Distribution Main Numbers Tenders Economic Regulation Model Concessions Performance**

03**PENSAAR 2020 – PROGRESS OF PERFORMANCE INDICATORS**



Operators may adopt 3 different management models – direct management, delegation and concession – in both Stateowned systems and Municipal or Intermunicipal owned systems. The private sector only intervenes through 2 models.

Management Model	Operator	Description	Private Sector participation
State-owned systems			
Direct management	State	 State is the operator itself (there is currently no case). 	*
Delegation	State-owned company	 State is the owner but the entity has an independent management (EPAL is the only example). 	×
Concession	Multimunicipal concessionaire	 State and municipalities participate in the capital of the concession. 	×
Municipal or Intermunic	ipal owned systems		
Direct management	Municipal services	 Services are directly managed by the Municipalities, having no administrative and financial autonomy. 	*
	Municipalized services	 Services have administrative and financial autonomy and are 	×
	Association of municipalities (intermunicipalized services)	 managed by its Board of Directors but have no legal personality. Collaborative public management body in which several municipalities take part. 	*
Delegation	State/ Municipality partnership	 State and municipalities participate in the capital of the company. 	×
	Municipal owned company	 One or several municipalities participate in the capital of the company (privates can have up to 49% - PPP model). 	*
Concession	Municipal concessionaire	 Concession by the Municipality to a third party, public or private, through a concession contract. 	*



Source: ERSAR.

Typical features of Concession Contrats

Length	25 to 50 years.
Activities	Development of networks. Manage Water supply and
Objectives	Expansion investments, reinvestment (upgrades) and
Concession fee	Annual rent.
Performance security	Bank guarantee and shareholders guarantee.
Concessionaire compensation	Through tariff collection to the clients.
Financial rebalancing	 <u>Trigger events (significant deviations from Base Case)</u> Water consumption volume Investment plan Legal and regulatory changes Others

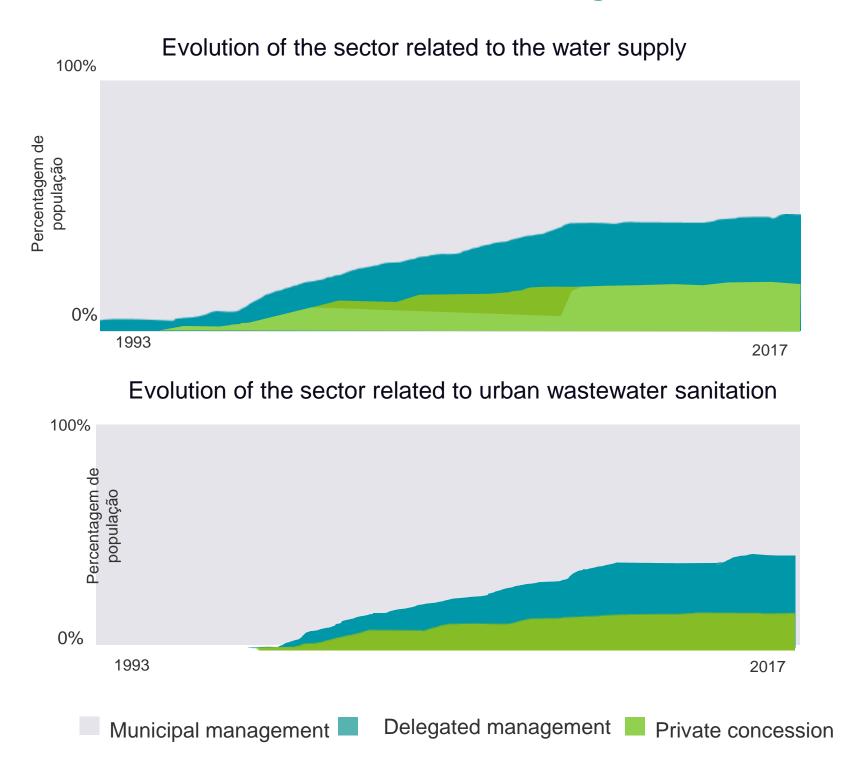




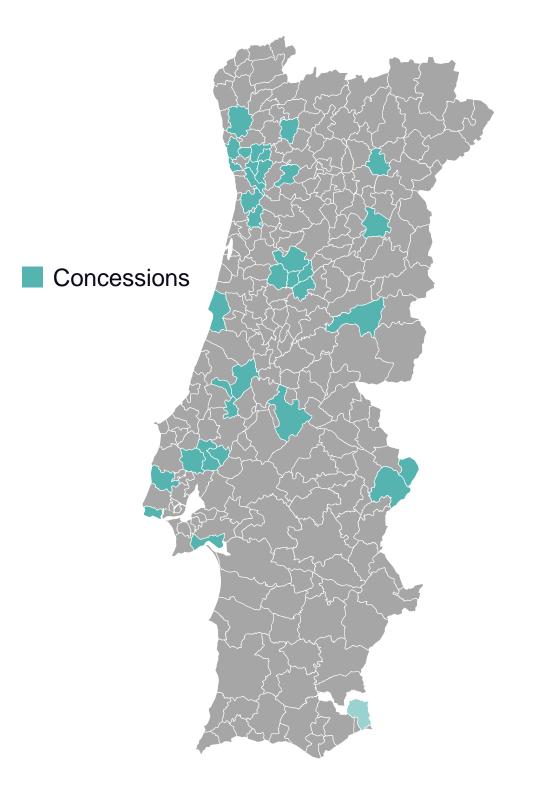
d Waste	ewater collection.	
d operat	tion efficiency.	
e):	<u>Rebalancing through:</u> - Tariffs;	
	- Concession fee;	
	 Length of concession; Direct financial compensation; A combination of the above. 	

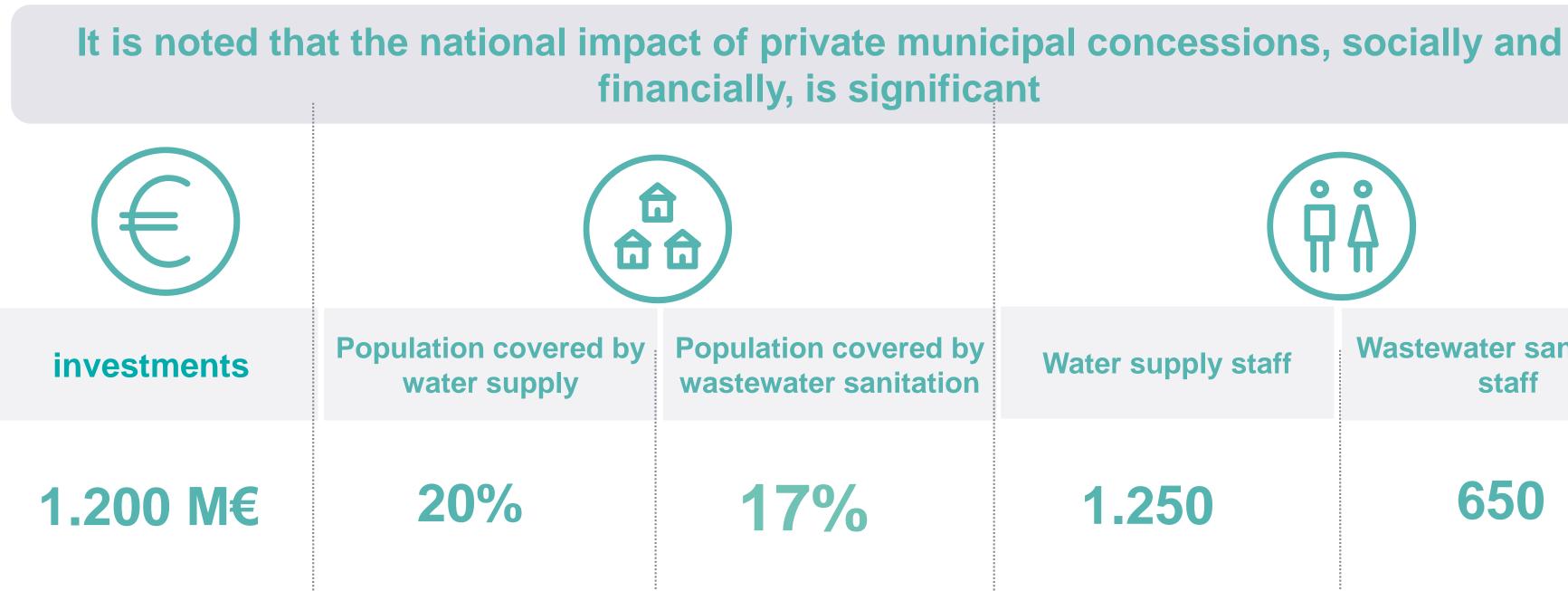
2 – OVERVIEW OF THE MUNICIPAL CONCESSION SETOR - geographic distribution

Currently, water and sanitation concessions cover, more or less, 20% of the population, being dispersed throughout the national continental territory















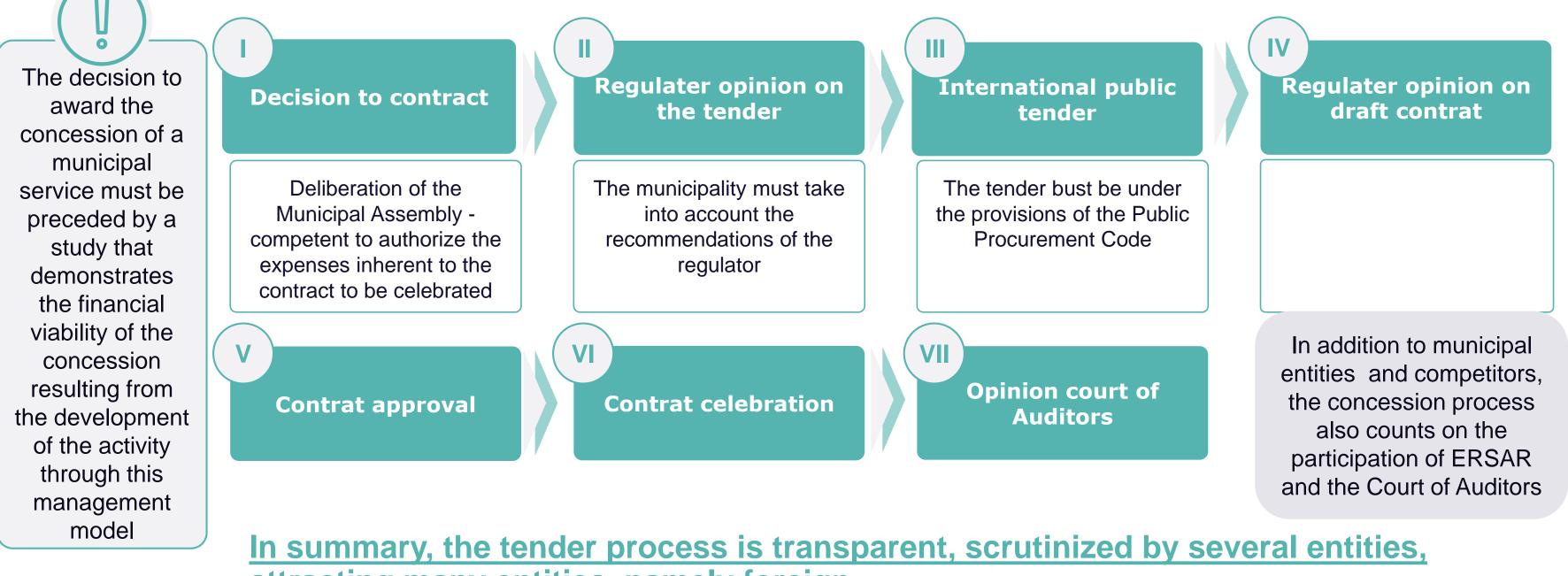
Water supply staff

Wastewater sanitation staff

1.250

2 – OVERVIEW OF THE MUNICIPAL CONCESSION SETOR – Tenders

The Concession award procedure follows the provisions of the Public Procurement Code and counts on the involvement of several entities in their different phases



attracting many entities, namely foreign



2 – OVERVIEW OF THE MUNICIPAL CONCESSION SETOR – Economic Regulation Model



- Contracts subject to competitive processes -
- Rates and review mechanisms defined in the contract -
- Technical requirements and quality of service defined by the Municipality -
- Contractual review and conflict resolution follow the rules defined in the contracts -



2– OVERVIEW OF THE MUNICIPAL CONCESSION SETOR – Concessions Performance

The performance of the private sector is positive in relation to the established objectives, presenting values higher than the public sector in most of the categories



The private sector performs well in the various quality of service categories, with emphasis on water quality, wastewater quality, customer service, service failures and water losses.



Performance

The concessions have cost coverage levels above 100%

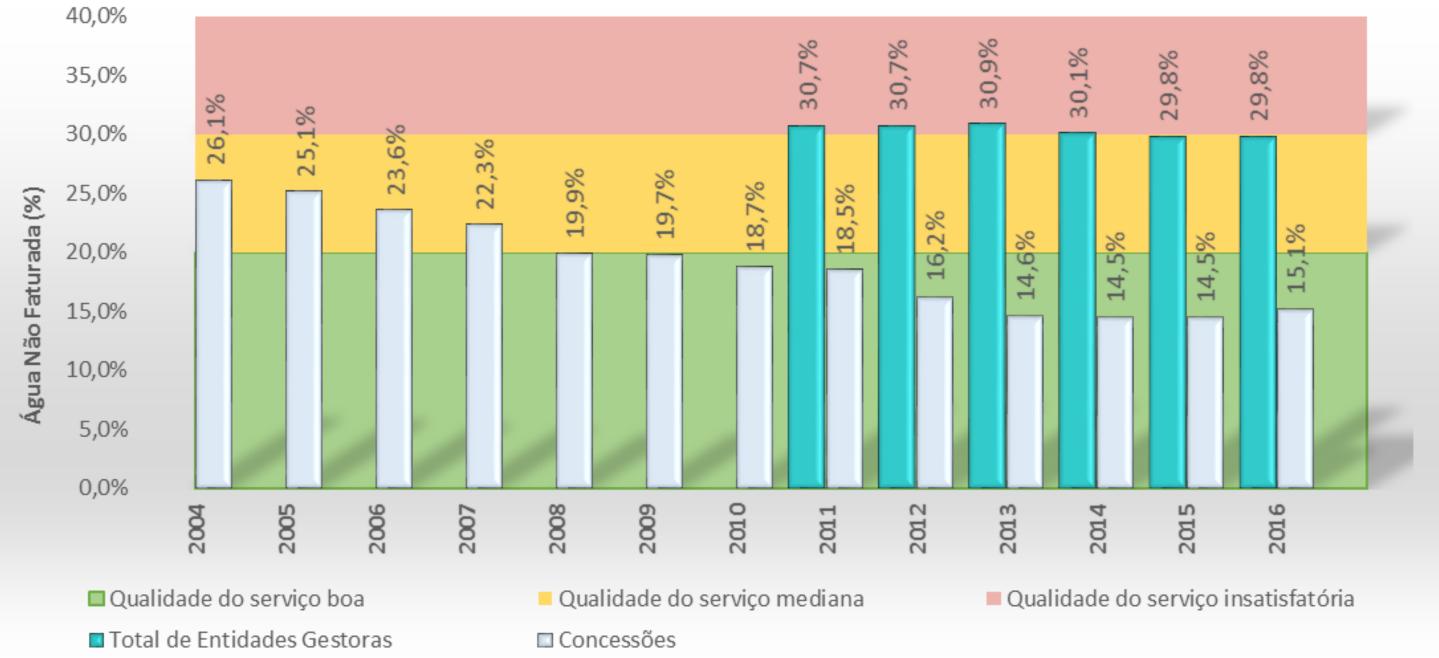


The economic accessibility of the service in private concessions is satisfactory



Information presented by the Regulator - Evolution of key indicators

AA08 indicator – Non Revenue Water (NRW)





3 – PENSAAR 2020 – Progress of performance indicators – Public and Private entities



PENSAAR 2020 Progress of performance indicators

Public and Private entities



Part 3 - PENSAAR 2020 Progress of performance indicators Parcial Index



Framework Objectives, scope and methodology









Evolution of water supply (last 7 years)

Analysis of indicators for water services. Comparison of performance of public and private management entities - retail systems (water supply)

Evolution of Wastewater Collection (last 7 years)

Analysis of indicators for Wastewater Collection. Comparison of performance of public and private management entities - retail systems (Wastewater Collection)

Considerations on Water Management efficiency indicators and other elements that influence the efficiency of systems

Conclusions

Overall performance of public and private entities



3 – PENSAAR 2020 – progress of performance indicators FRAMEWORK – OBJETIVES

Present the comparison of the performance between the public and private sector according to PENSAAR indicators

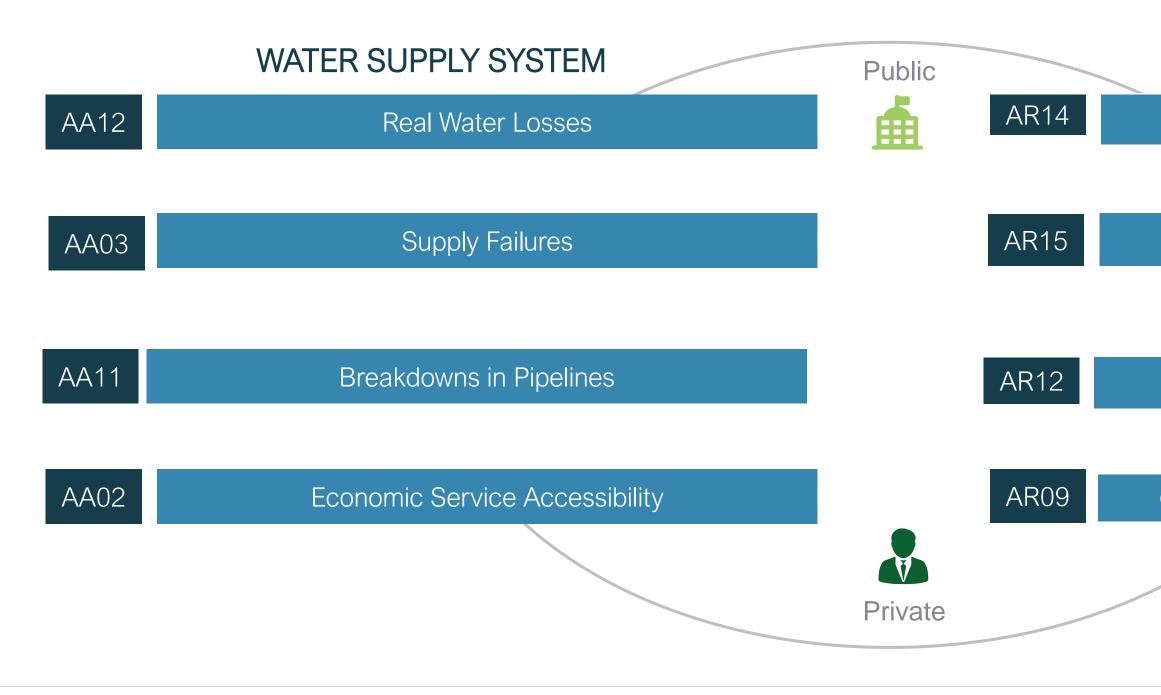
Present the performance and contribution of the private sector to the evolution of the PENSAAR 2020 indicators



3 – PENSAAR 2020 – progress of performance indicators

FRAMEWORK - Scope

Here we analyzed some of the Portuguese Regulator performance indicators, selected in PENSAAR to measure the evolution in the quality of service in water and wastewater, comparing between public and private water utilities .





WASTEWATER COLLECTION

Wastewater Analysis

Compliance with Discharge Parameters

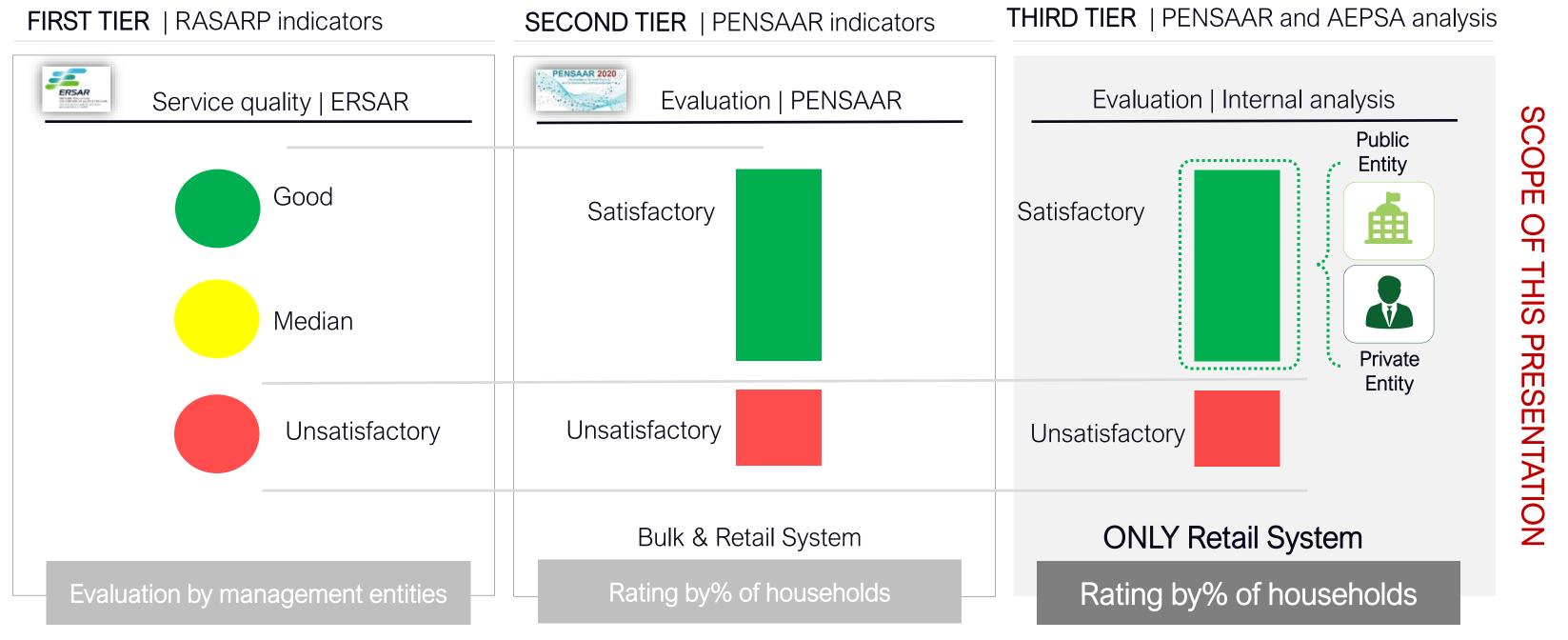
Adequate Waste Water Destination

Occurrence of Structural Collapse in Collectors

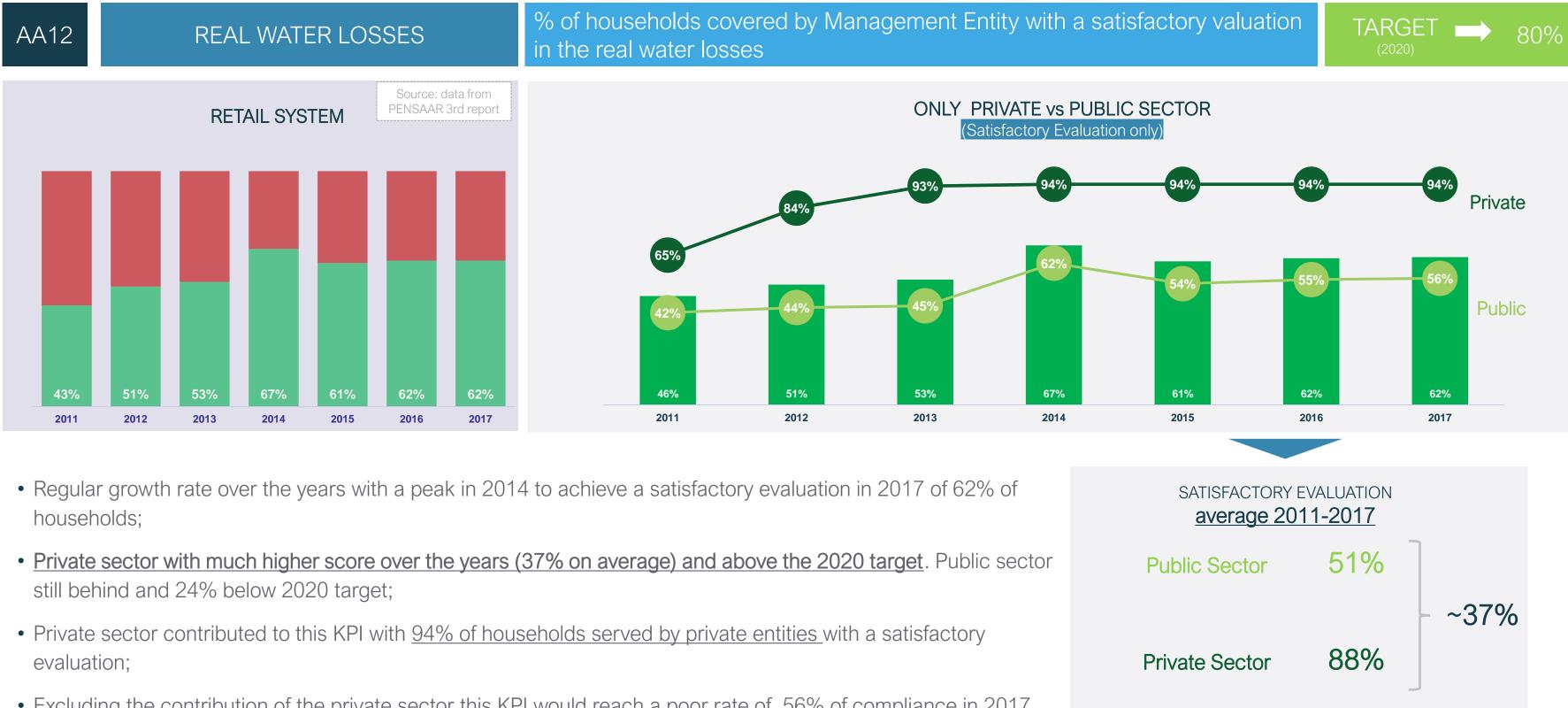
3 – PENSAAR 2020 – progress of performance indicators

FRAMEWORK - Metodology

We use the same assumptions considered by the support group responsible for the PENSAAR 2020 evaluation. This rationale allows us to make a direct comparative study between public and private management. The scope is limited to the retail system excluding bulk water utilities (exclusively public).

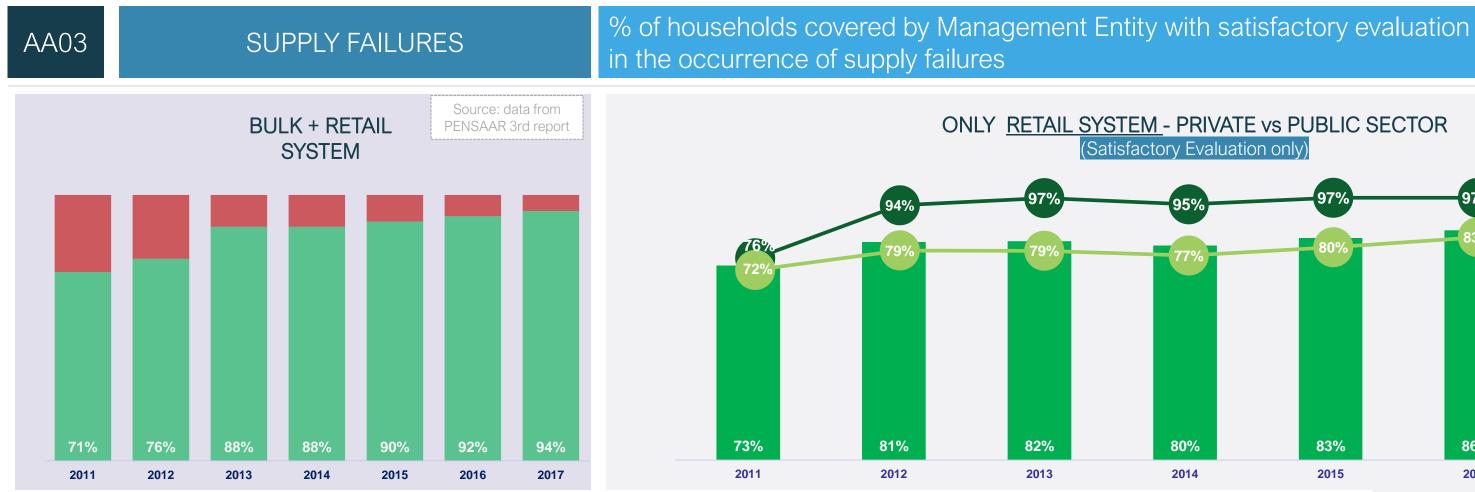






- Excluding the contribution of the private sector this KPI would reach a poor rate of 56% of compliance in 2017.





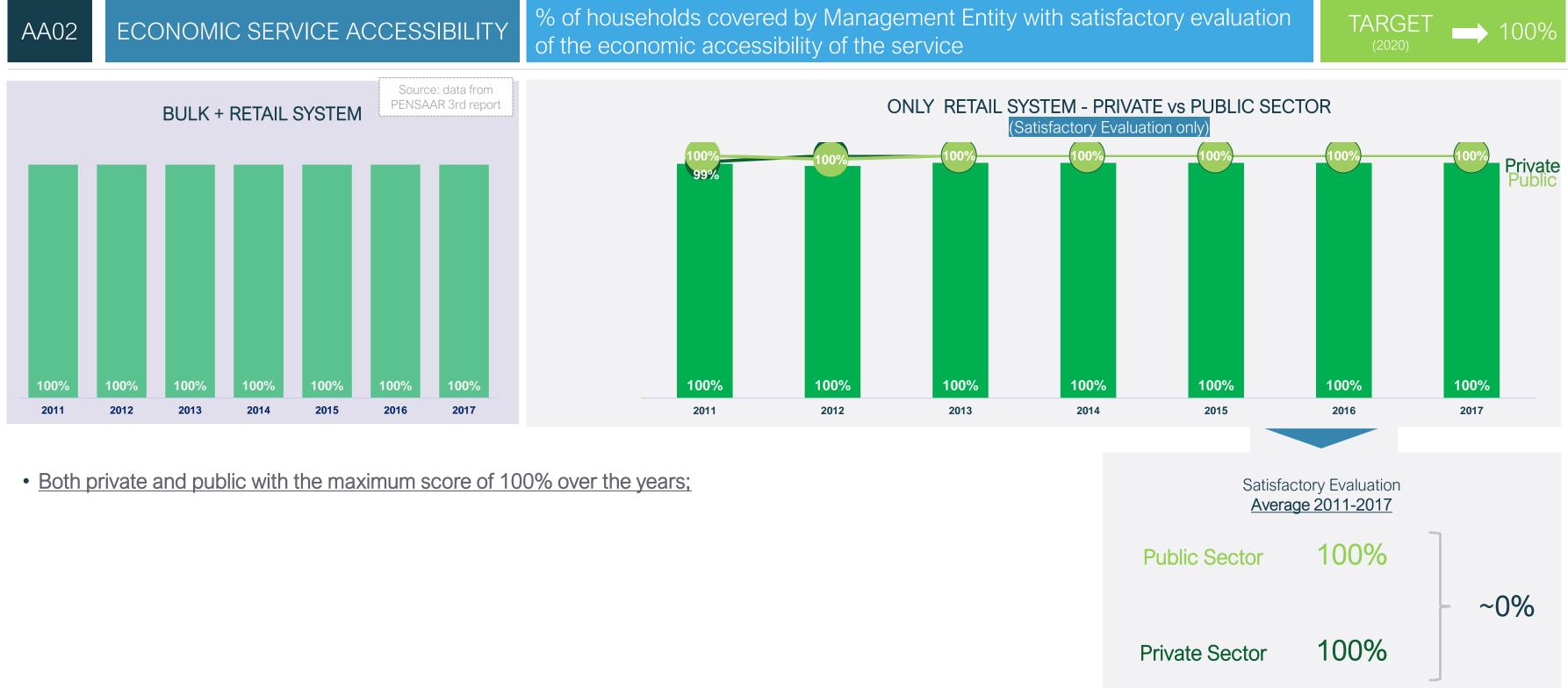
- The joint assumption in this KPI of bulk + retail raises the level of compliance from to 94%. If exclusively considered the retail performance satisfaction level would drop 4% to 94% overall;
- Private sector with regular scores, always higher than public sector (13%% on average) and close to the 2020 target. Public sector with regular growth and getting closer to the target;
- Private sector contribution is of 96% of households covered while public sector contributes with 89% to the same indicator.



TARGE 100% ONLY RETAIL SYSTEM - PRIVATE vs PUBLIC SECTOR (Satisfactory Evaluation only) Private Public 80% 83% 86% 90% 2014 2015 2017 2016 Satisfactory Evaluation average 2011-2017 81% **Public Sector** ~12% 93% **Private Sector**

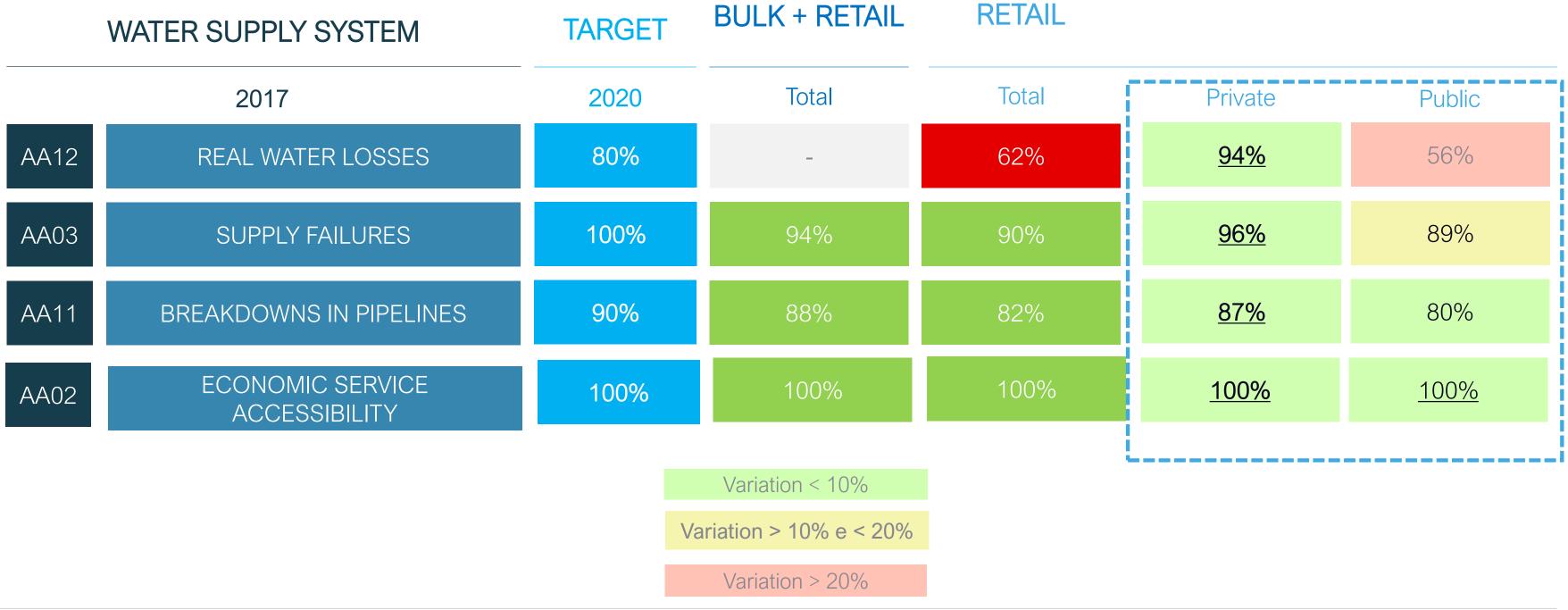




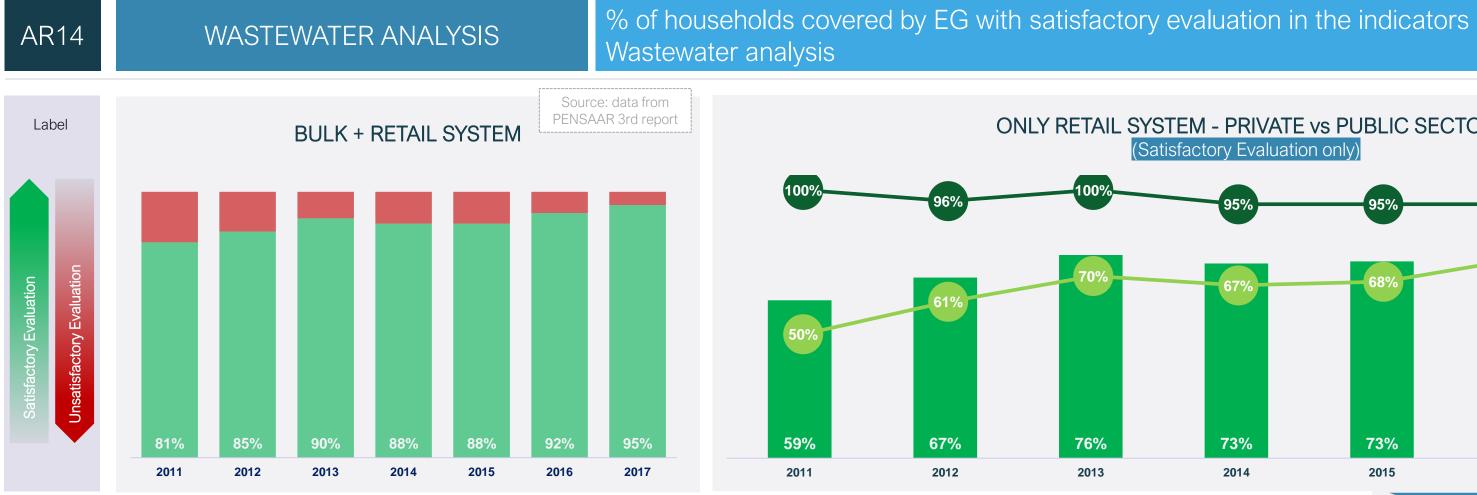




The private sector presents in 2017 higher scores and is very close to achieve the 2020 target score.



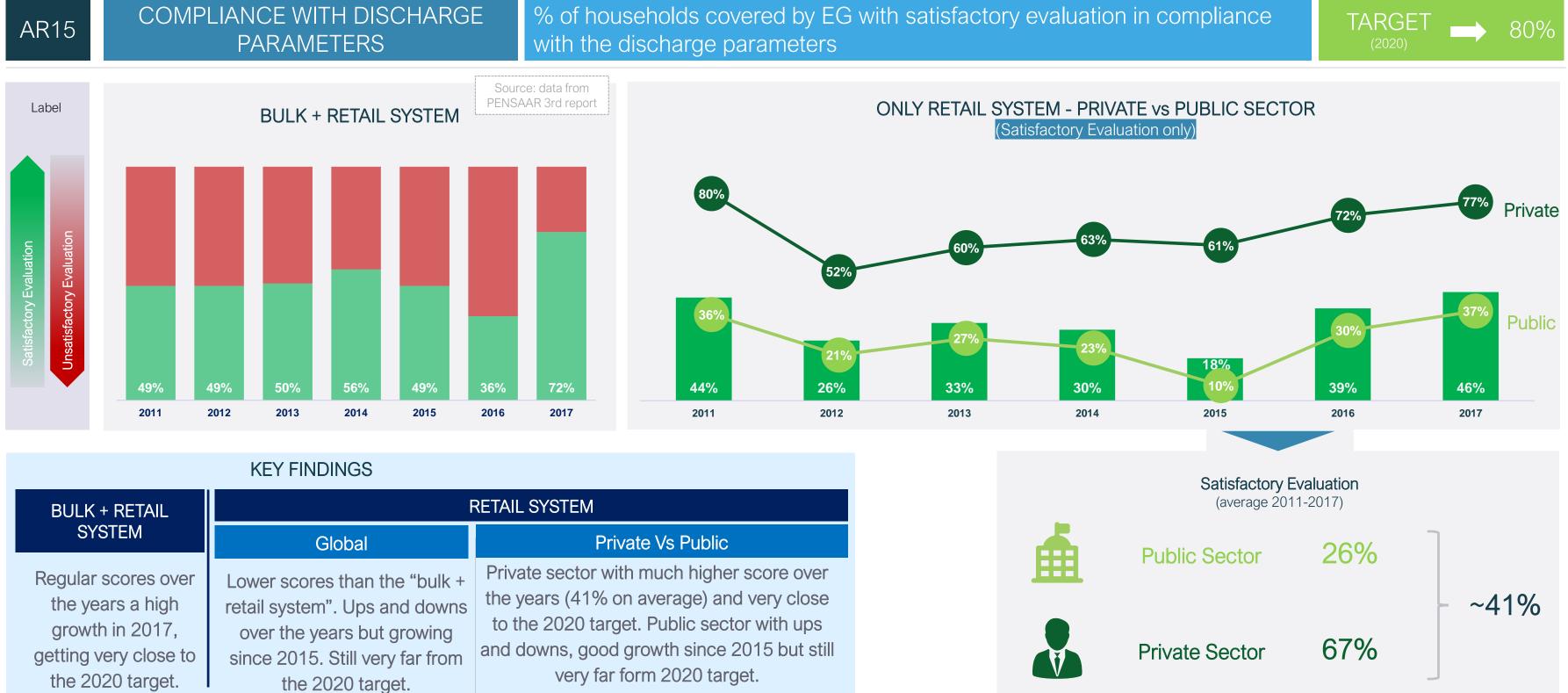




	KEY FIN	DINGS	
BULK + RETAIL SYSTEM	RETAIL SYSTEM		
	Global	Private Vs Public	
Regular high scores over the years, growing since 2015. Really close to the 2020 target.	Good growth rate over the years, especially in the last 2 years. Not so far to he 2020 target.	Private sector with regular high scores, always higher than public sector (28% on average) and close to the 2020 target. Public sector with good growth since 2015 and getting closer to the private sector and target.	



TARGET 100% **ONLY RETAIL SYSTEM - PRIVATE vs PUBLIC SECTOR** (Satisfactory Evaluation only) 95% **Private** Public 67% 73% 73% 81% 87% 2014 2015 2016 2017 Satisfactory Evaluation (average 2011-2017) 68% Public Sector ~28% 96% **Private Sector**



BULK + RETAIL	RETAIL SYSTEM		
SYSTEM	Global	Private Vs Public	
Regular scores over the years a high growth in 2017, getting very close to the 2020 target.	Lower scores than the "bulk + retail system". Ups and downs over the years but growing since 2015. Still very far from the 2020 target.	Private sector with much higher score over the years (41% on average) and very close to the 2020 target. Public sector with ups and downs, good growth since 2015 but still very far form 2020 target.	

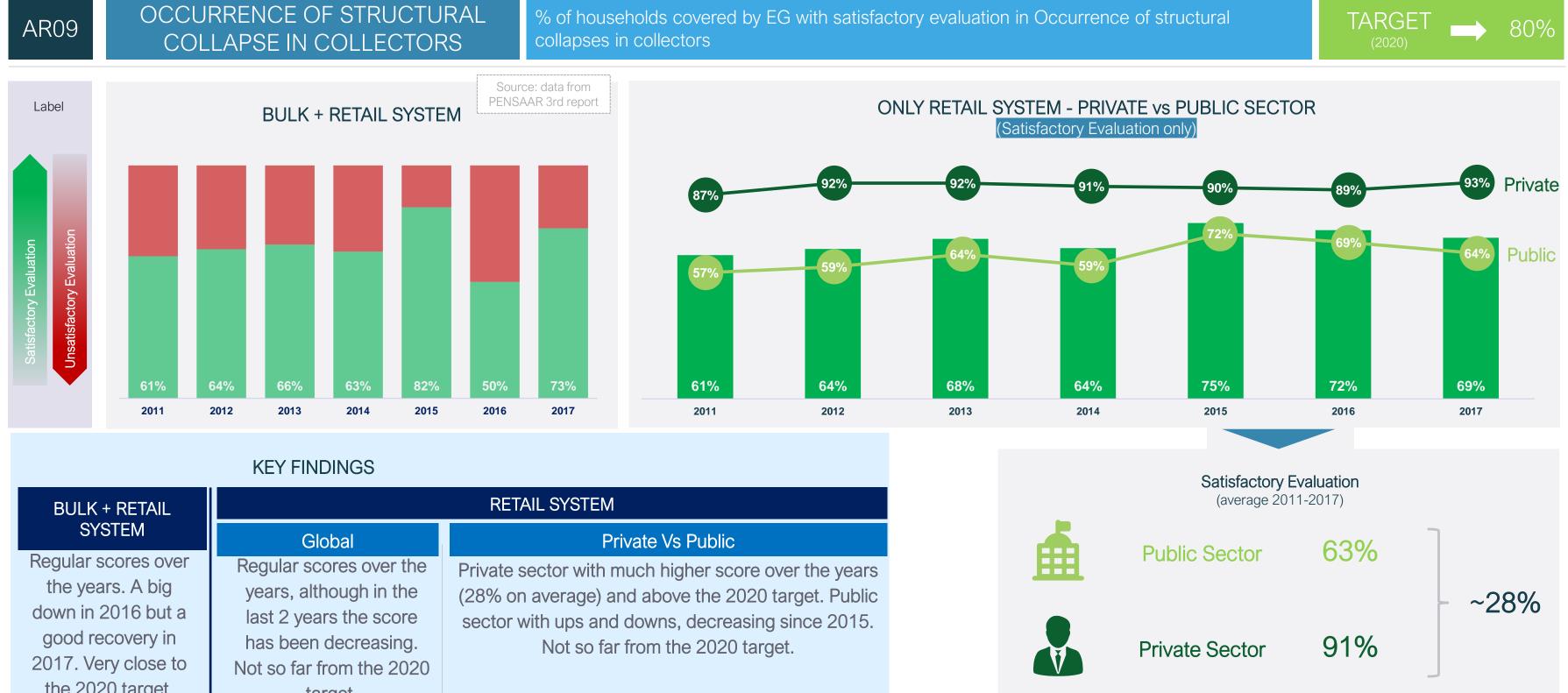




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BULK + RETAIL SYSTEM	RETAIL SYSTEM		
	Global	Private Vs Public	
N/A	Regular scores over the years and really close to the 2020 target.	Both private and public sector with good scores over the years. In the last 3 years the public sector presents a slightly higher score. Both getting closer to the 2020 target.	





BULK + RETAIL	RETAIL SYSTEM	
SYSTEM	Global	Private Vs Public
Regular scores over the years. A big down in 2016 but a good recovery in 2017. Very close to the 2020 target.	Regular scores over the years, although in the last 2 years the score has been decreasing. Not so far from the 2020 target.	Private sector with much higher score over the years (28% on average) and above the 2020 target. Public sector with ups and downs, decreasing since 2015. Not so far from the 2020 target.



The private sector presents in 2017 higher scores and is very close to achieve the 2020 target score.

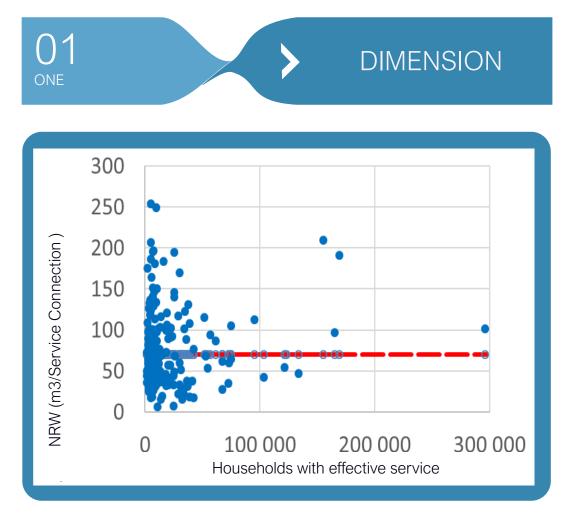


Variation > 20%



3 – PENSAAR 2020 – progress of performance indicators CONSIDERATIONS ON WATER MANAGEMENT EFFICIENCY

There are indicators that usually are considered critical to achieve the efficiency of NRW, but when we analyze the reality, we find that some of them don't really have a direct impact on this specific KPI. It is clear that the element which has a bigger influence on the NRW performance is the Management Model.

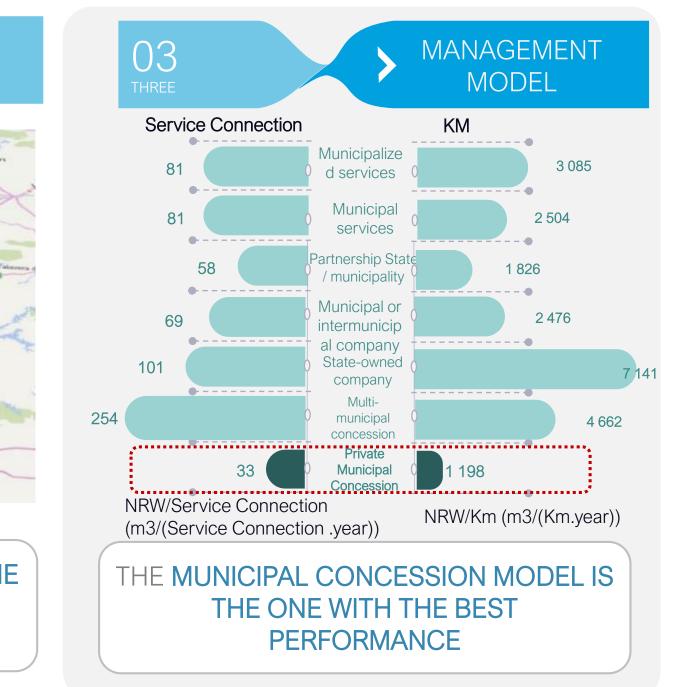


GEOGRAPHIC LOCATION ANF/ramal [m3/(ramal.ano)] < 50 [50;100] ≥ 100 Oceano Atlânti

THERE IS NO RELATIONSHIP BETWEEN **DIMENSION AND PERFORMANCE IN TERMS OF NRW**

THE GEOGRAPHICAL LOCATION OF THE **ENTITIES DOES NOT AFFECT** THEIR PERFORMANCE





3 – PENSAAR 2020 – progress of performance indicators MAIN CONCLUSIONS

Globally, performance indicators for water supply and wastewater systems that have been on the rise since 2011 are fully leveraged in the positive performance of private management entities

Some indicators have been showing a tendency of stagnation. It means that private entities have achieved maximum efficiency, which good practice recommends, and so can no longer contribute more significantly to the level of national satisfaction

PENSAAR 2020 is not achieving the recommended results, because the water and wastewater sector in Portugal has a very significant weight of public entities (80%) in favor of private entities (20%), which is fully efficient

The balance of public and private management entities in the sector in Portugal is desirable and recommendable, that is, in the short term, greater penetration of the private sector so that Portugal can make the qualitative leap to the level of a more adequate and efficient management of water resources.

The outstanding performance of the private sector is leveraged by the technological solutions it has, the operational expertise, leadership and management experience, greater agility and the introduction of international best practices

The Portuguese water sector is expected to continue to privatize in coming years, creating opportunities for existing players to strengthen their hold on the concession market



THANK YOU!



For more information, please contact AEPSA

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