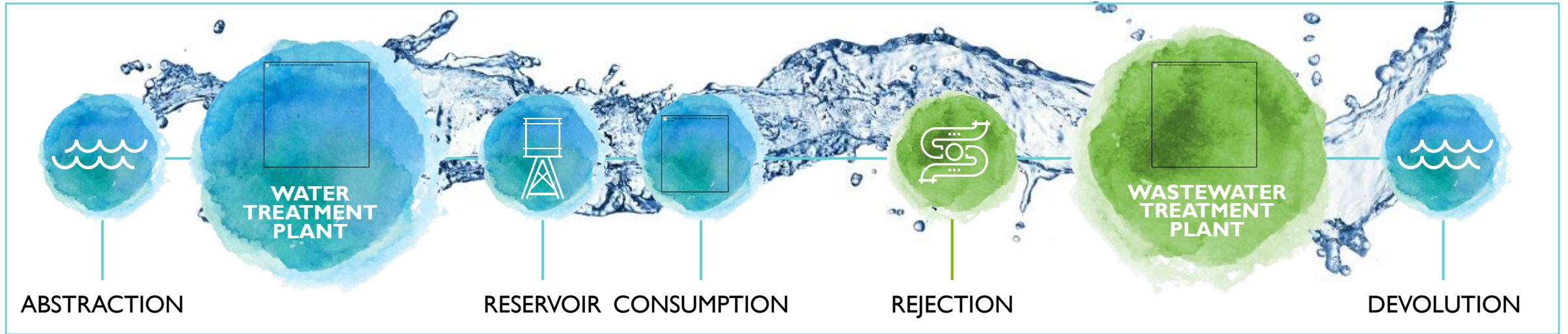


Efficiency of Urban Water Infrastructures

Águas de Santo André example



REGIONAL WATER AND WASTEWATER UTILITIES



SHARED SERVICES



INTERNATIONAL



150 WTP

1 135 water intakes

970 WWTP

16 386 km
Water trunks and networks

1 680 reservoirs

9 465 km
Sewerage network

2 510
Water and wastewater
pumping stations



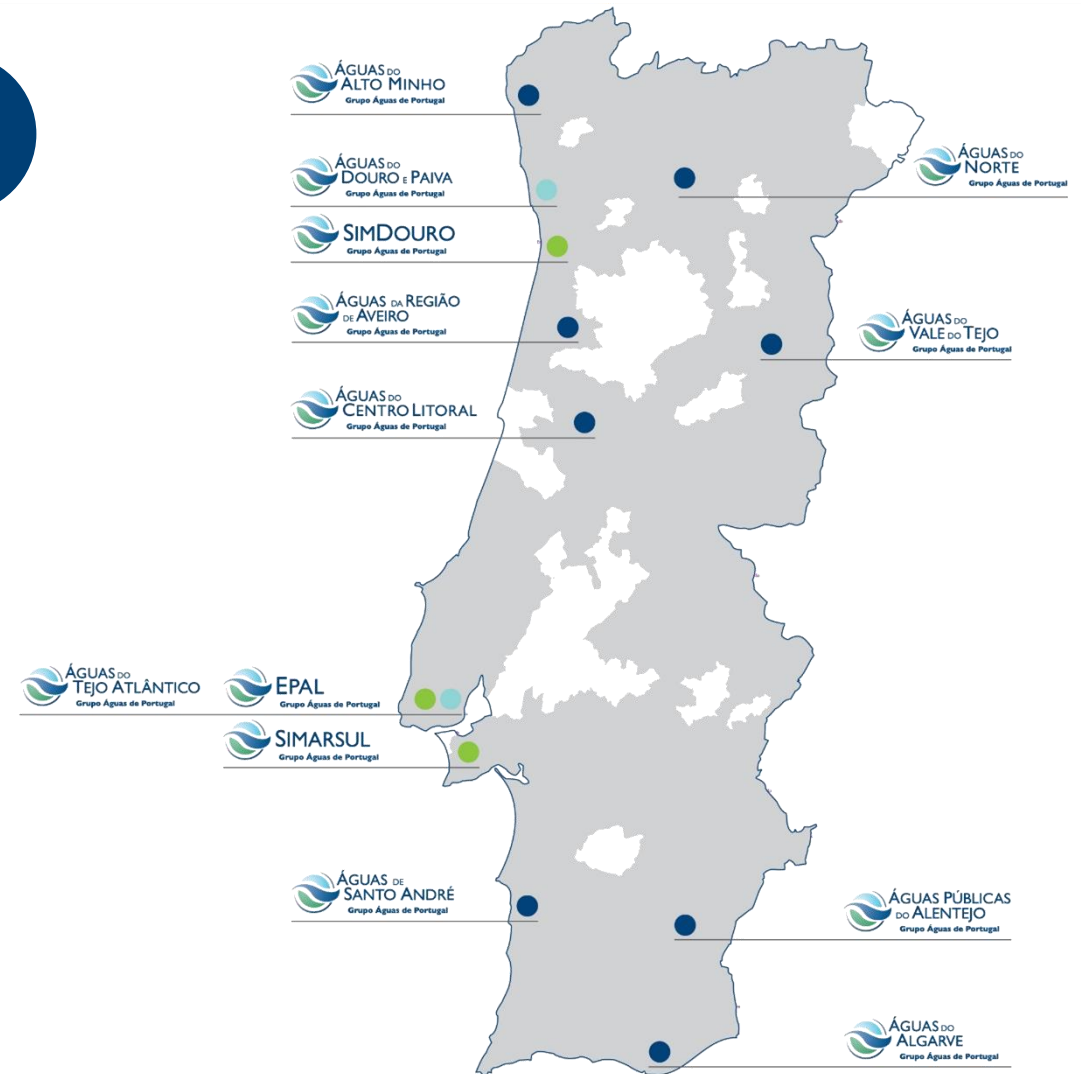
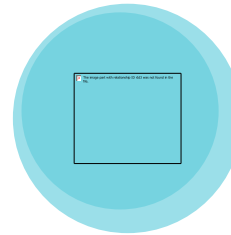
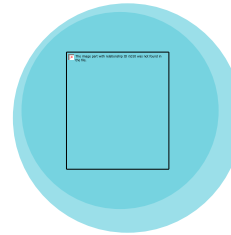
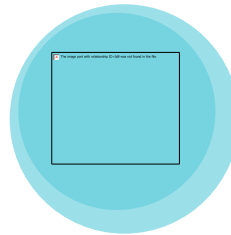
**AdP utilities
manage
thousands of
infrastructures**

A WIDE RANGE OF **SOLUTIONS** FOR DIFFERENT CONTEXTS

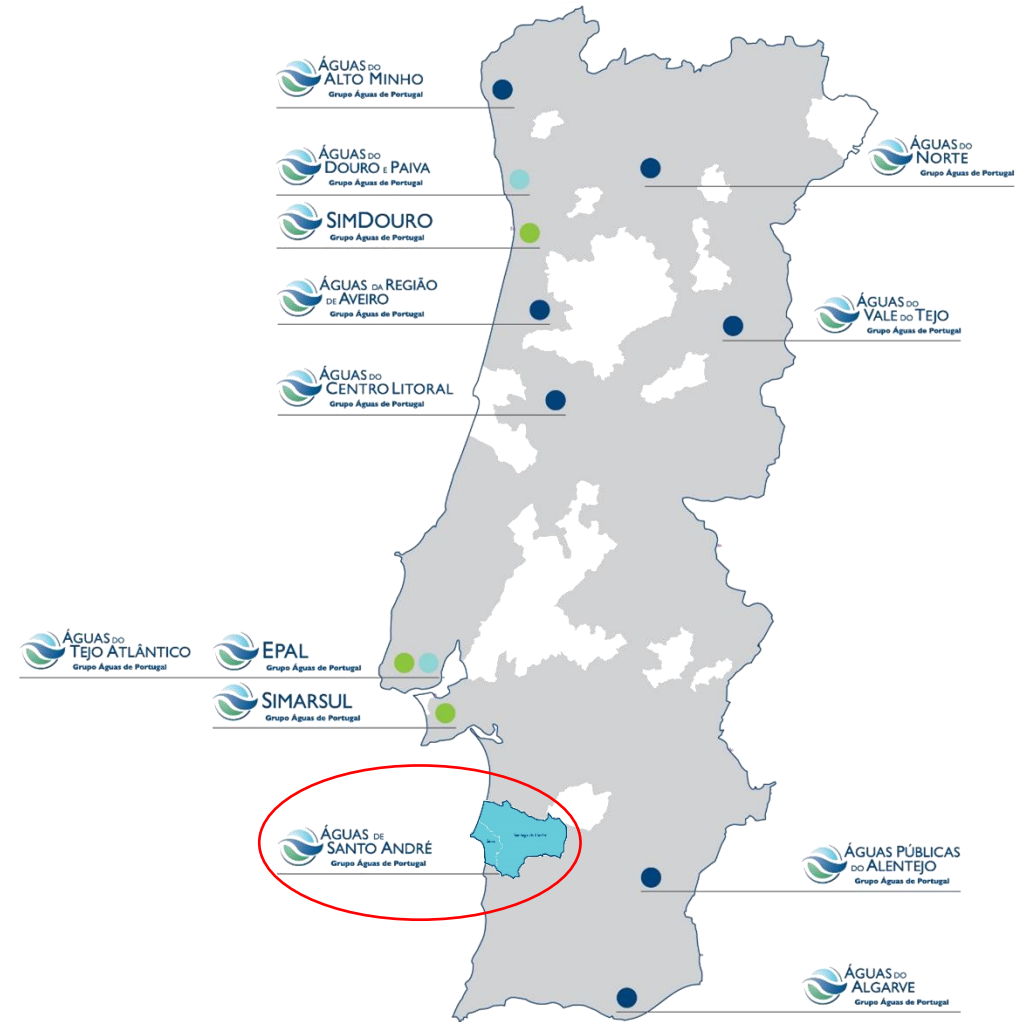
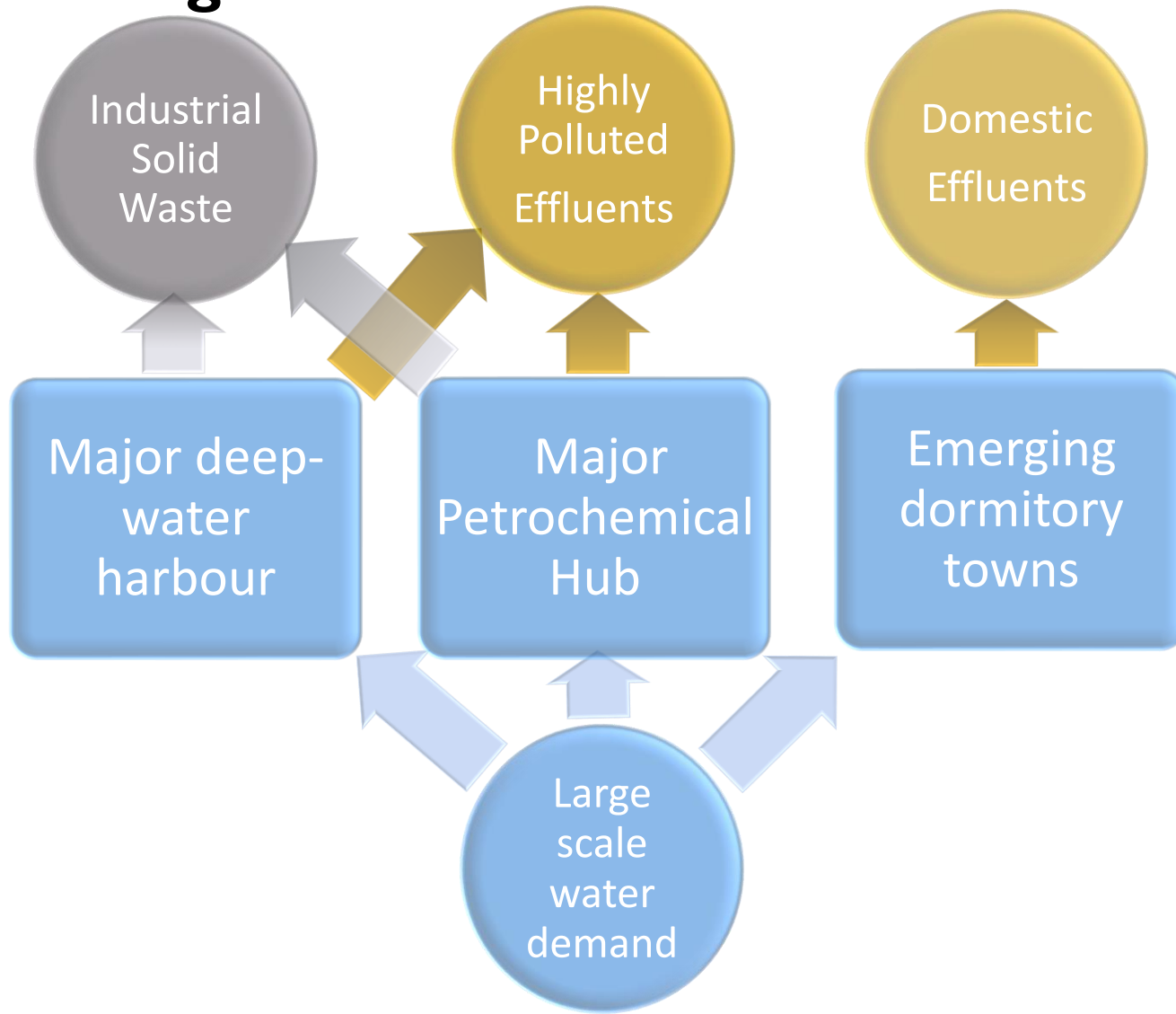
Services provision
to **80% of the Portuguese Population**

In the last 20 years the Águas de Portugal
Group has created **12 water supply and
sanitation regional utilities serving 8
million people**

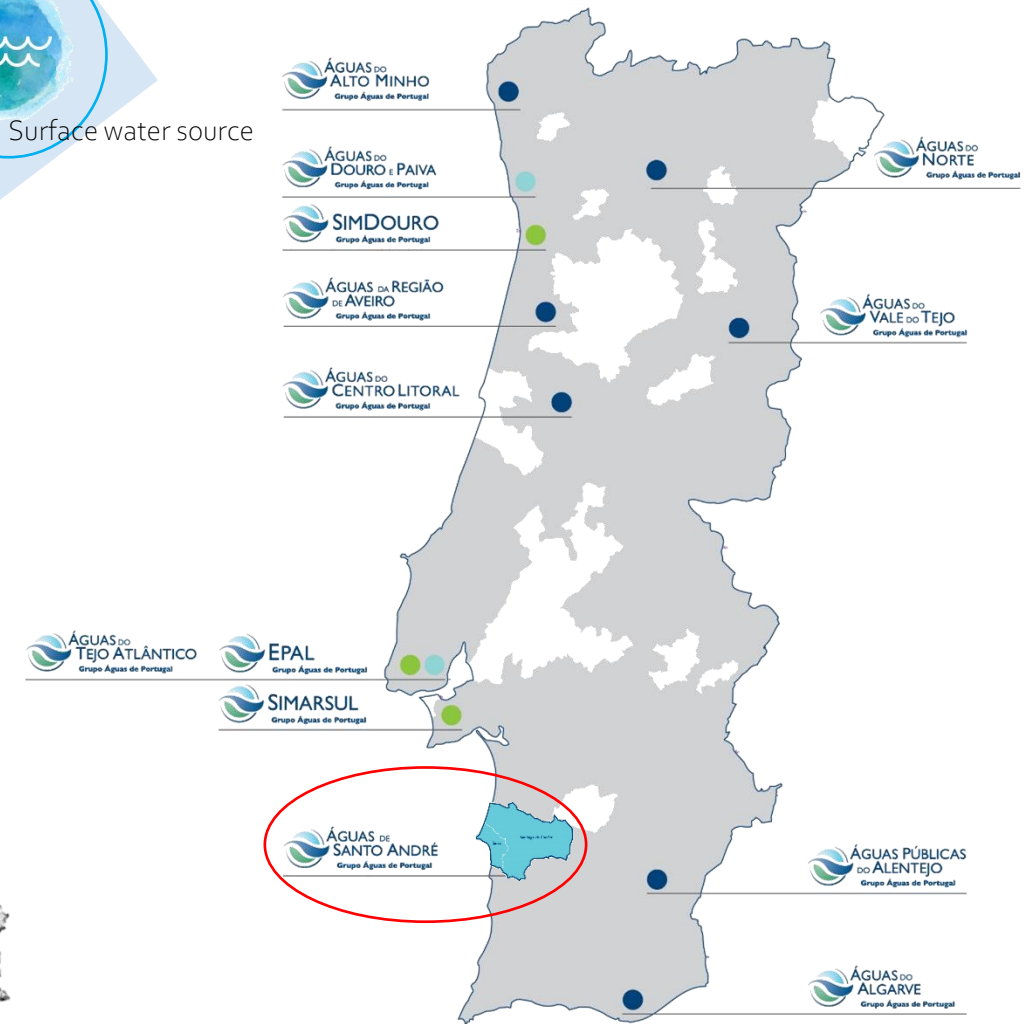
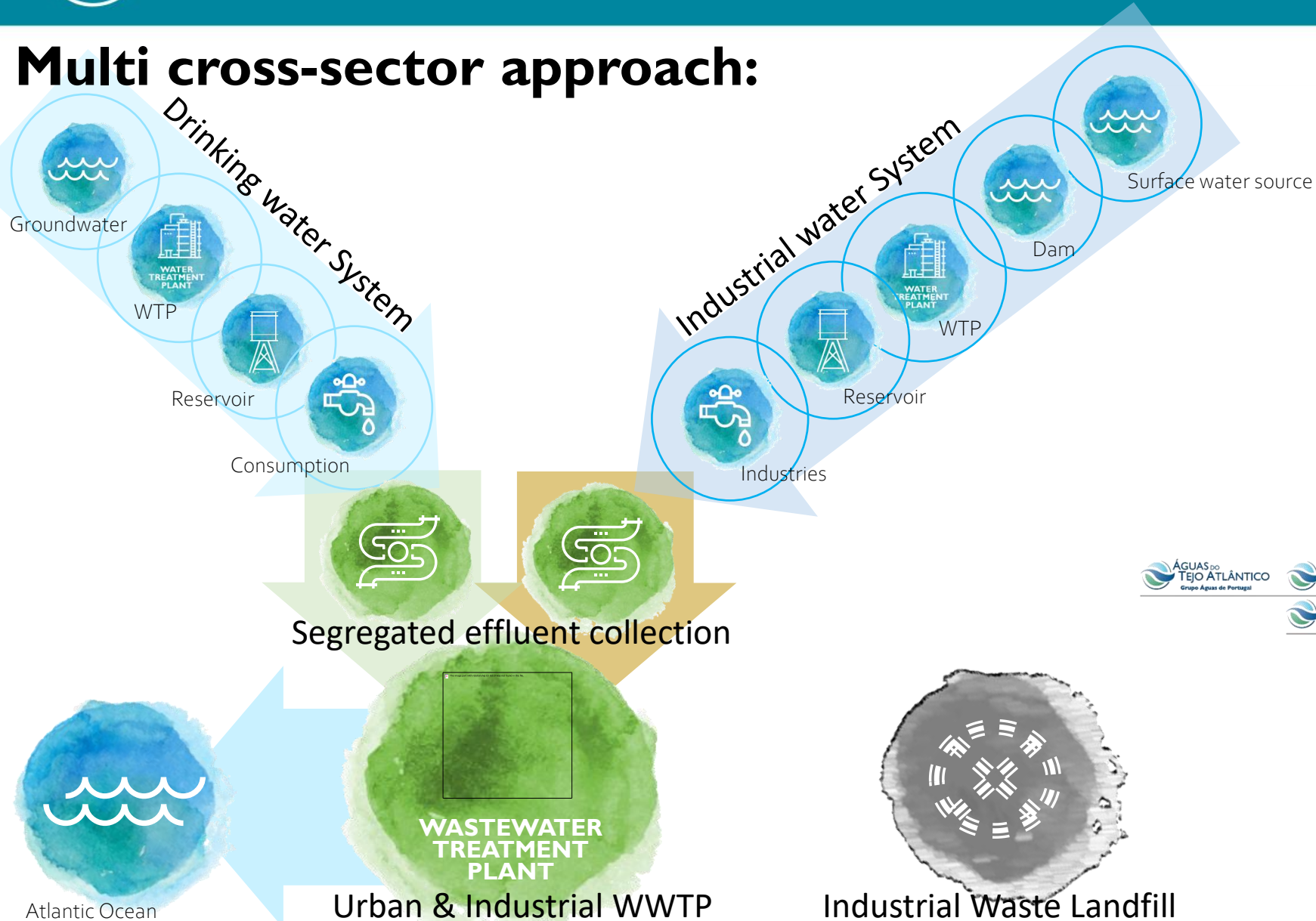
From highly density
urban areas to rural regions;
From **small decentralized systems**
to large **High-Tech and Smart Systems**



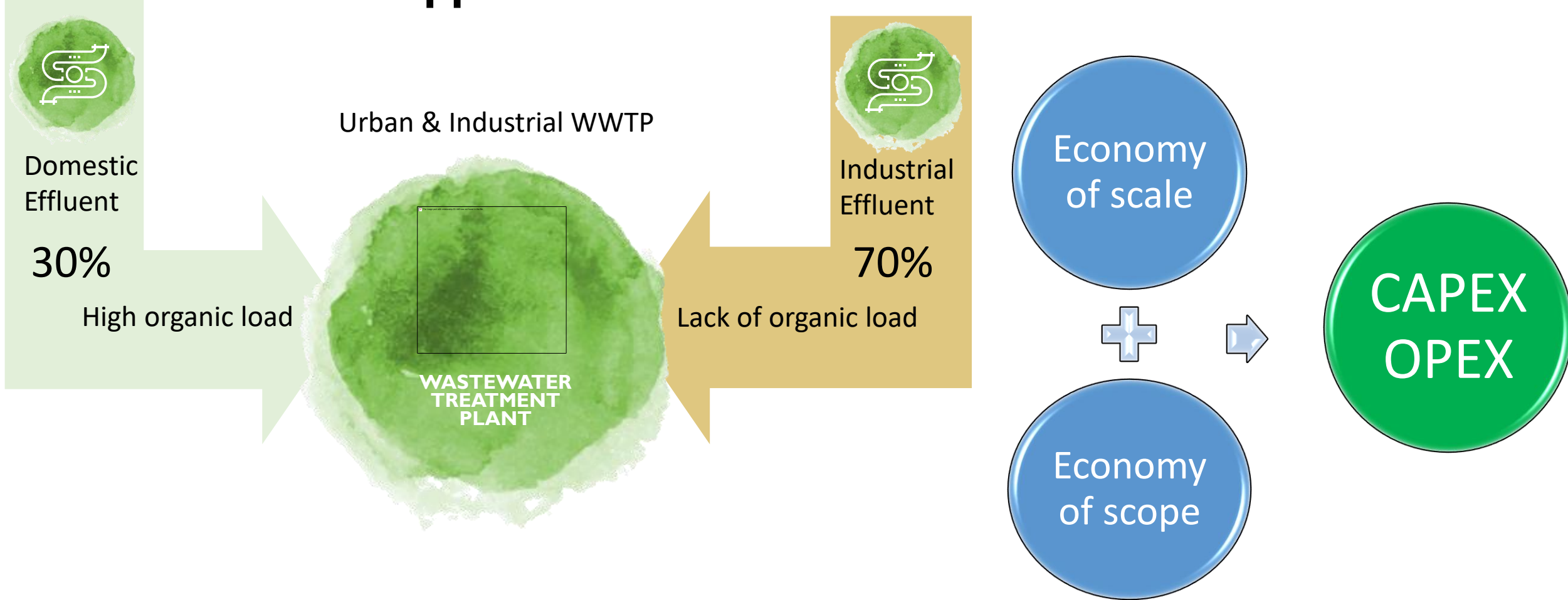
Challenges:



Multi cross-sector approach:



Multi cross-sector approach:

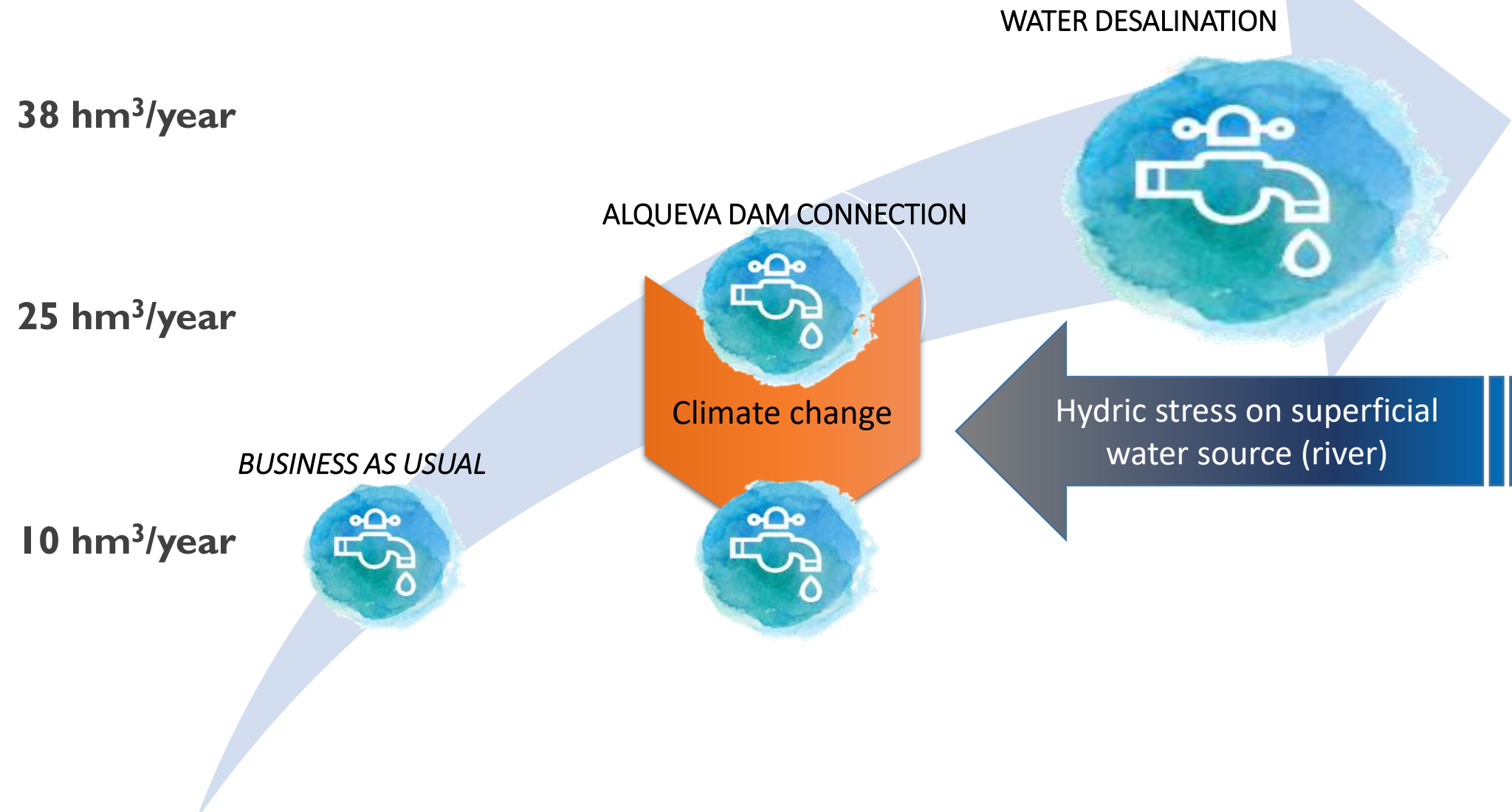


Expected demand increase for industrial water:

- Harbour expansion - Rotterdam reached full capacity;
- Completion of high speed railway to Madrid and France;
- Expansion of existing petrochemical plants;
- Establishment of Hydrogen production plants.



Water demand scenarios and Water sources:



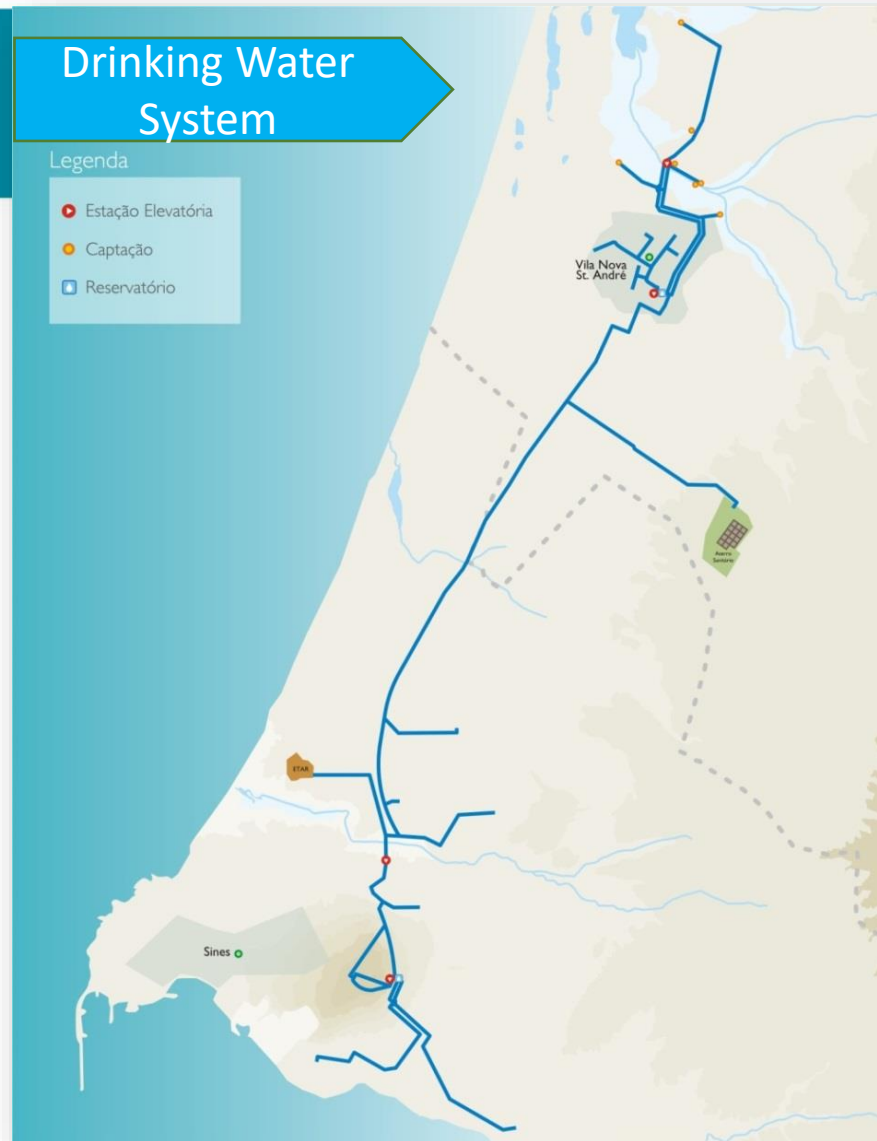
Águas de Santo André case study



Drinking Water System

Legenda

- Estação Elevatória
- Captação
- Reservatório



Industrial Water System

Legenda

- Estação Elevatória
- Reservatório

