



مياه العقبة
Aqaba Water



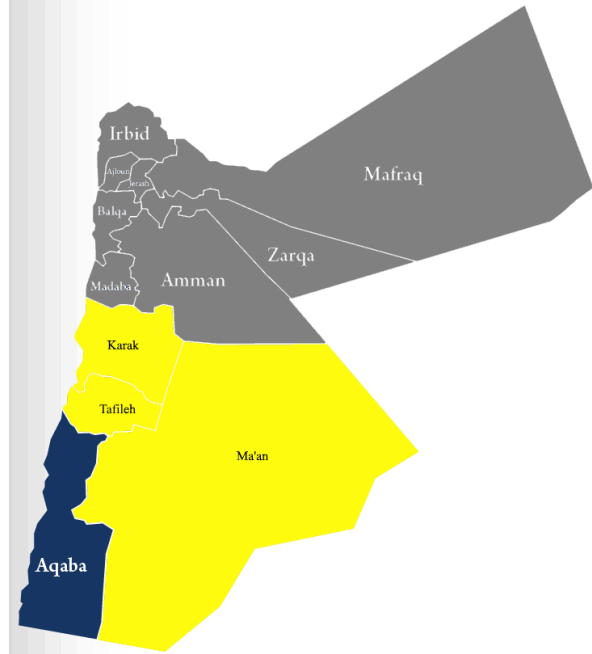
History and Key Facts

Inception

- Established in 2004
- Share holders : MWI-WAJ 85% and ADC 15%
- 119 M JOD Total Assets
- The first commercialized company in the water sector
- Continuous Water supply 24 /7 days

Current

- Total Population: about 222000 Inhabitants
- Water Subscribers: 44,546
- Wastewater coverage in Aqaba city :96%
- contract management services within the southern governorates (Karak, Tafila, Ma'an)

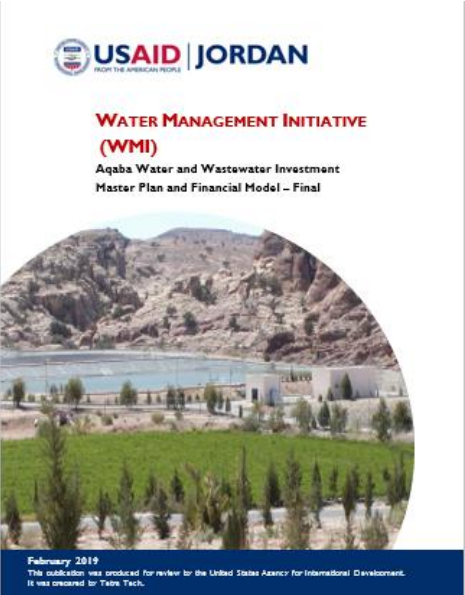
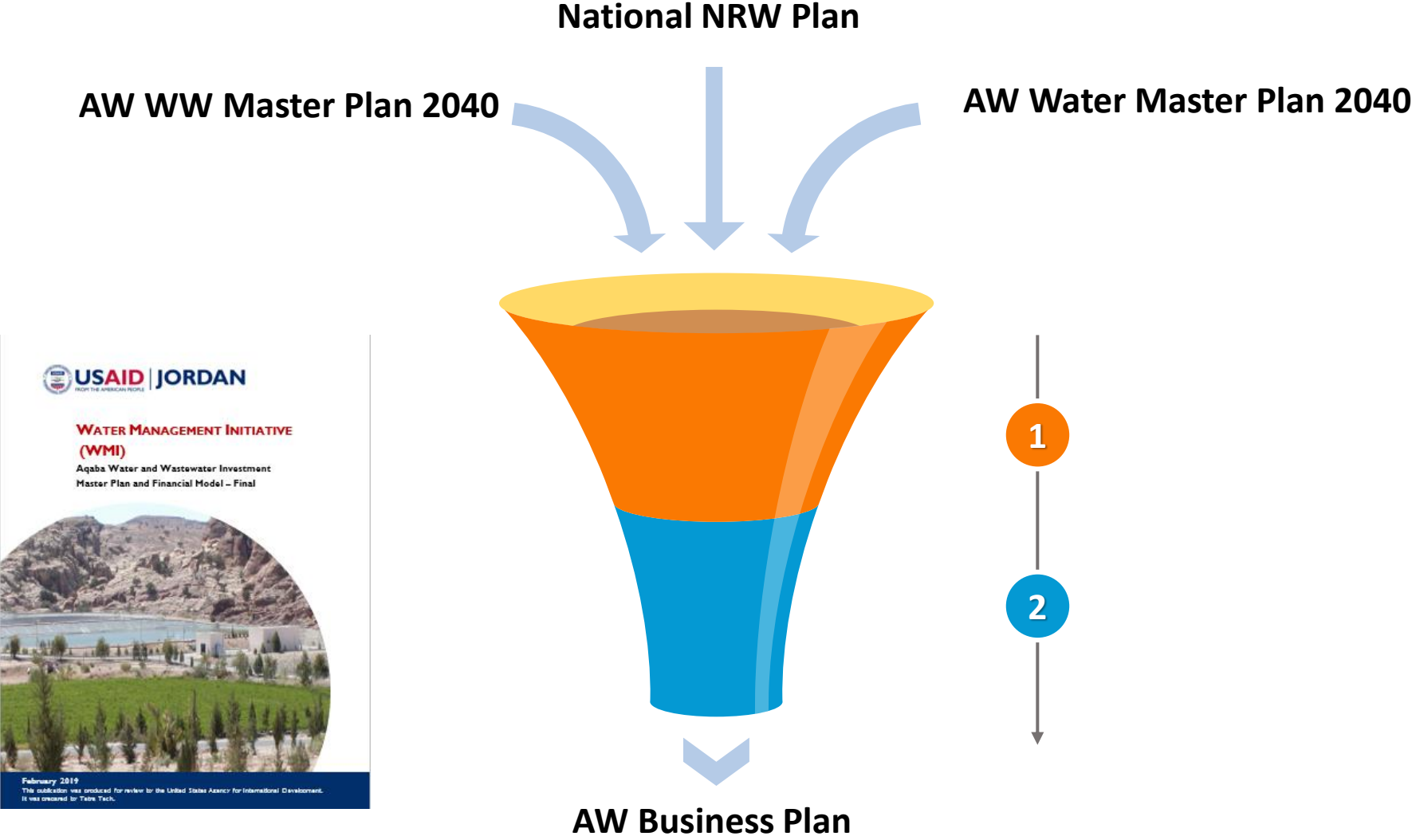


AW VISION

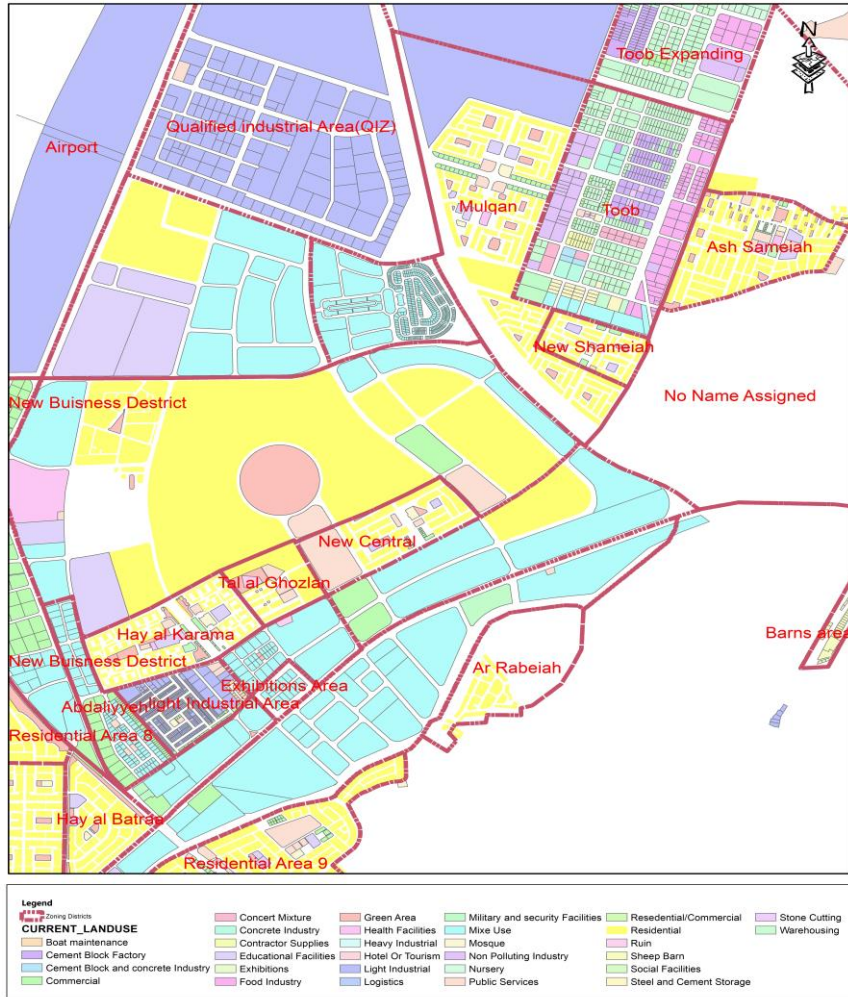
PIONEERING IN MANAGING AND OPERATING THE SECTORS OF WATER, WASTEWATER, AND EXCELLENCE IN SERVICE DELIVERY.



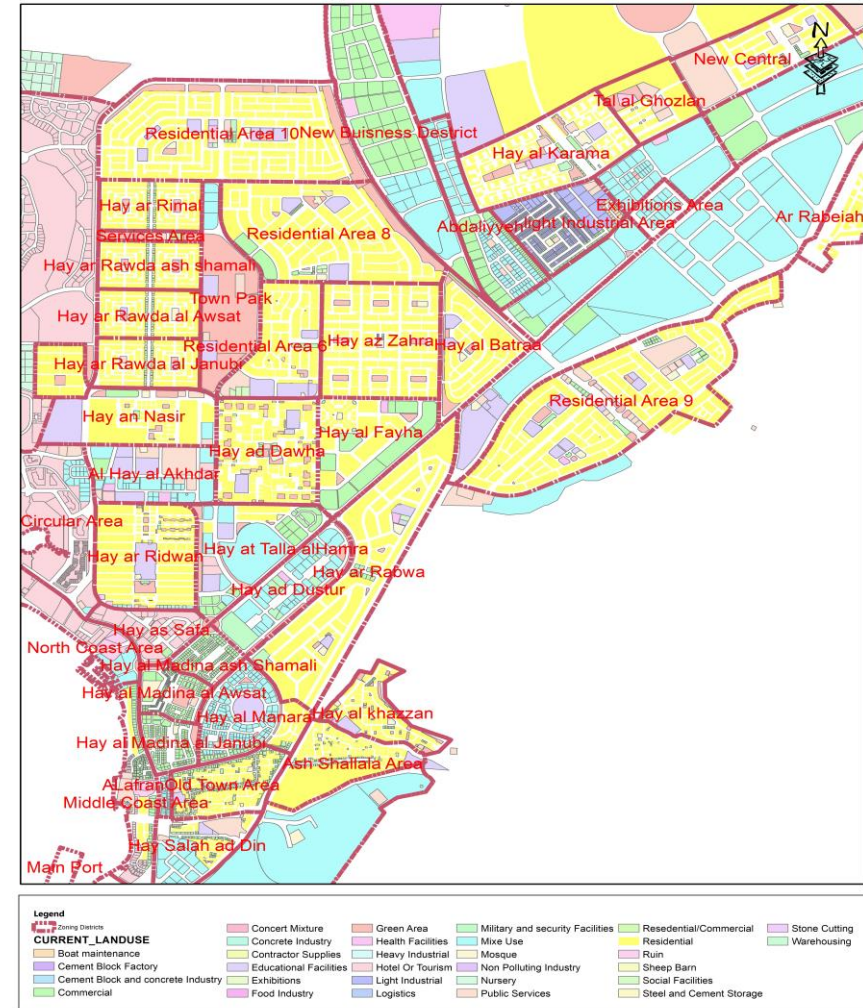
Sound planning



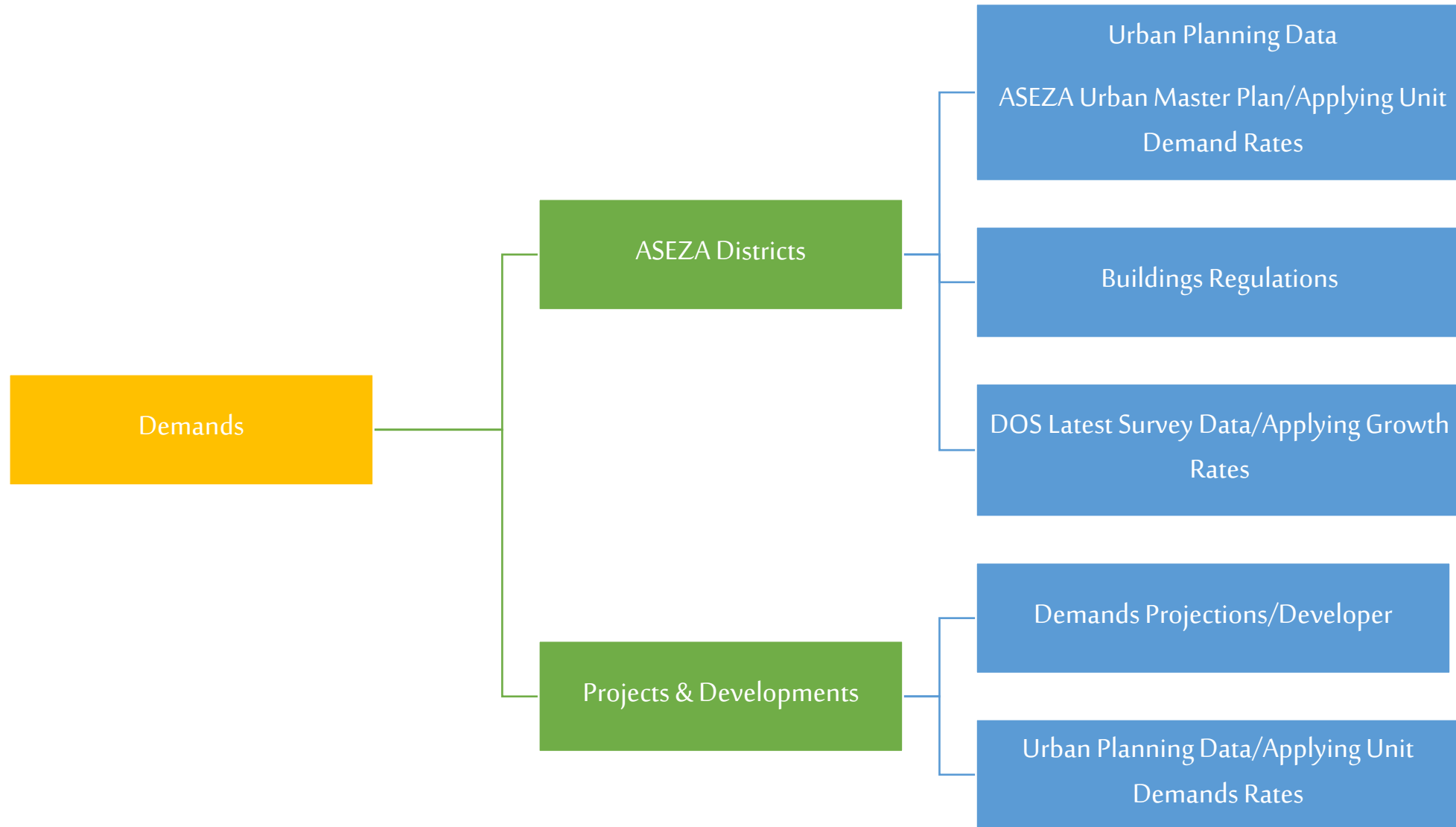
INTEGRATING THE URBAN AND THE WATER MASTER PLANS FOR AQABA



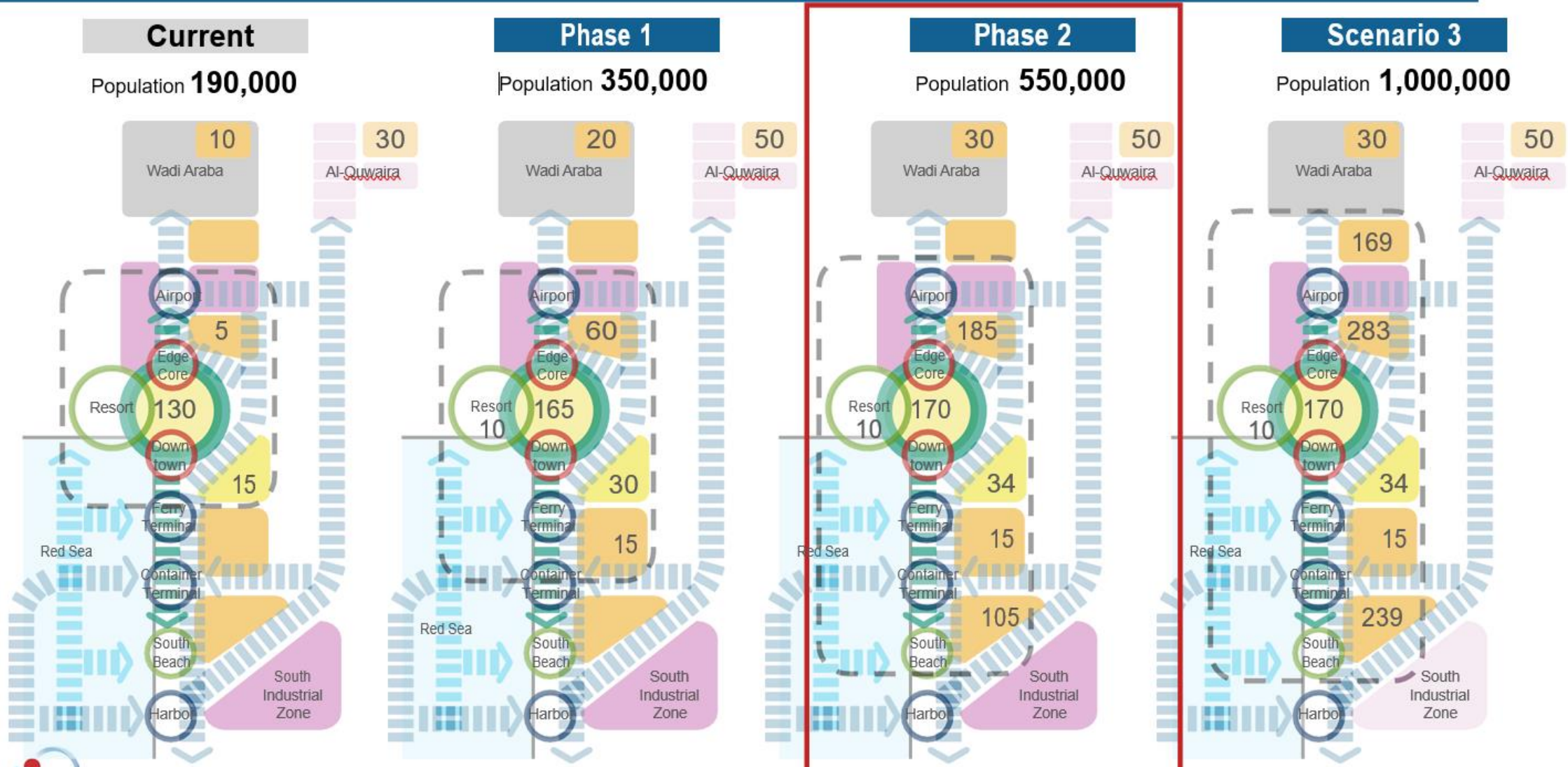
*ASEZA CURRENT LAND USE PLAN



POPULATION AND DEMANDS ASSUMPTIONS



URBAN MASTER PLAN



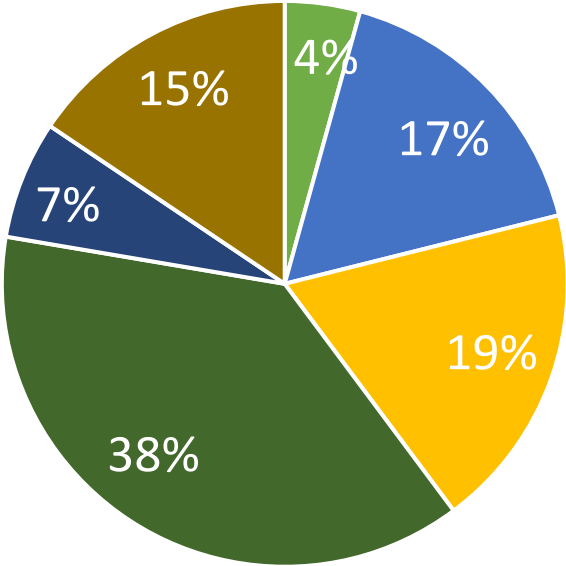
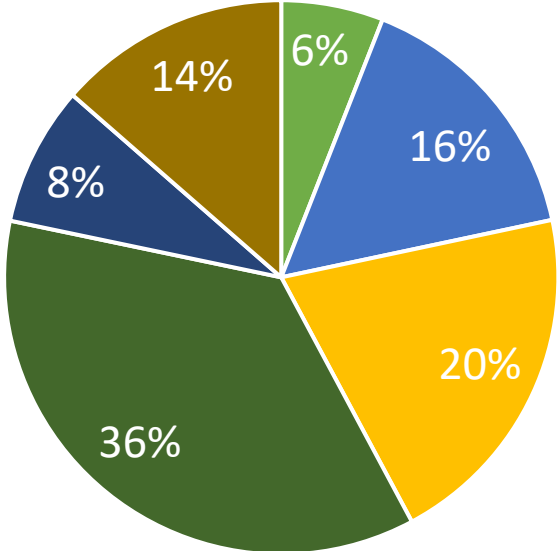
ASEZA DEMANDS CATEGORIES

2025

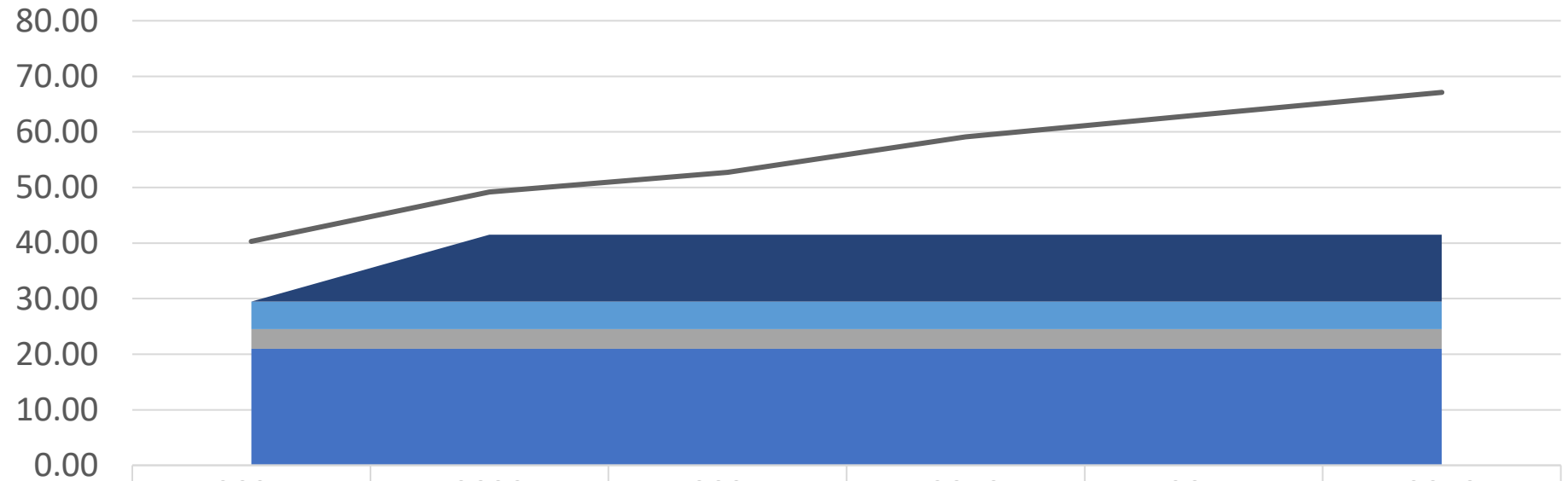
2050

- Government
- Commercial
- Industrial
- Residential
- Tourist
- Agricultural

- Government
- Commercial
- Industrial
- Residential
- Tourist
- Agricultural

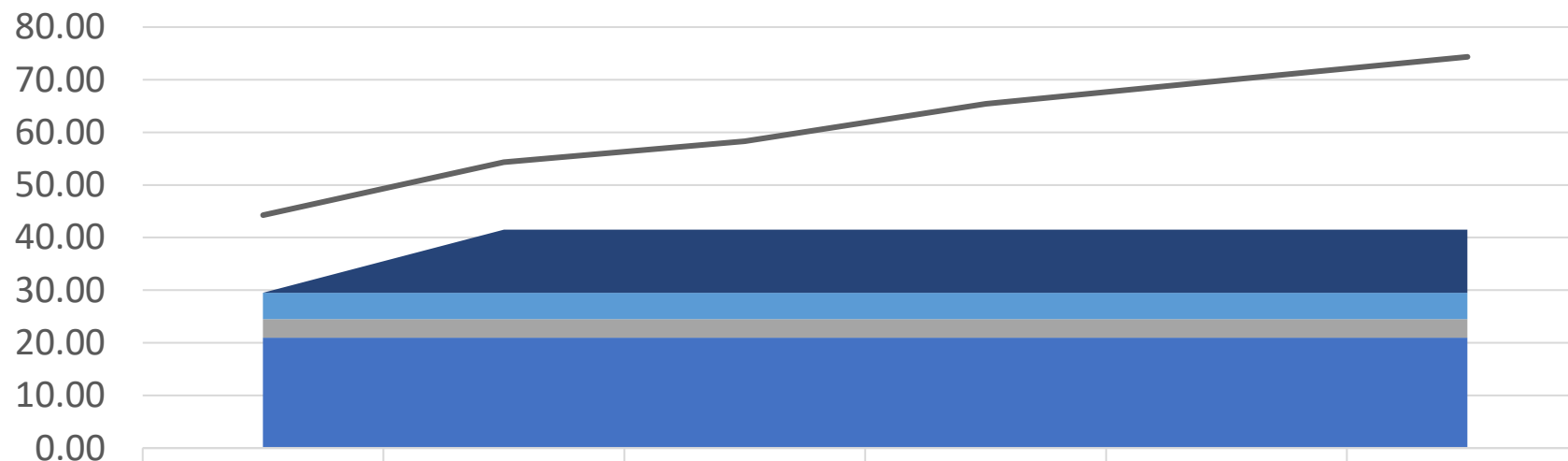


WATER BALANCE ANALYSIS (50% FROM RECLAIMED WATER FOR INDUSTRIAL USE)



	2025	2030	2035	2040	2045	2050
Disi Reinforcement Project		12.00	12.00	12.00	12.00	12.00
KEMAPCO	5.00	5.00	5.00	5.00	5.00	5.00
Qwaira Wells	3.50	3.50	3.50	3.50	3.50	3.50
Disi Wells	21.00	21.00	21.00	21.00	21.00	21.00
Total Demand	40.31	49.21	52.73	59.11	63.13	67.13
Deficit (Required Supply from NC)	-10.81	-7.71	-11.23	-17.61	-21.63	-25.63

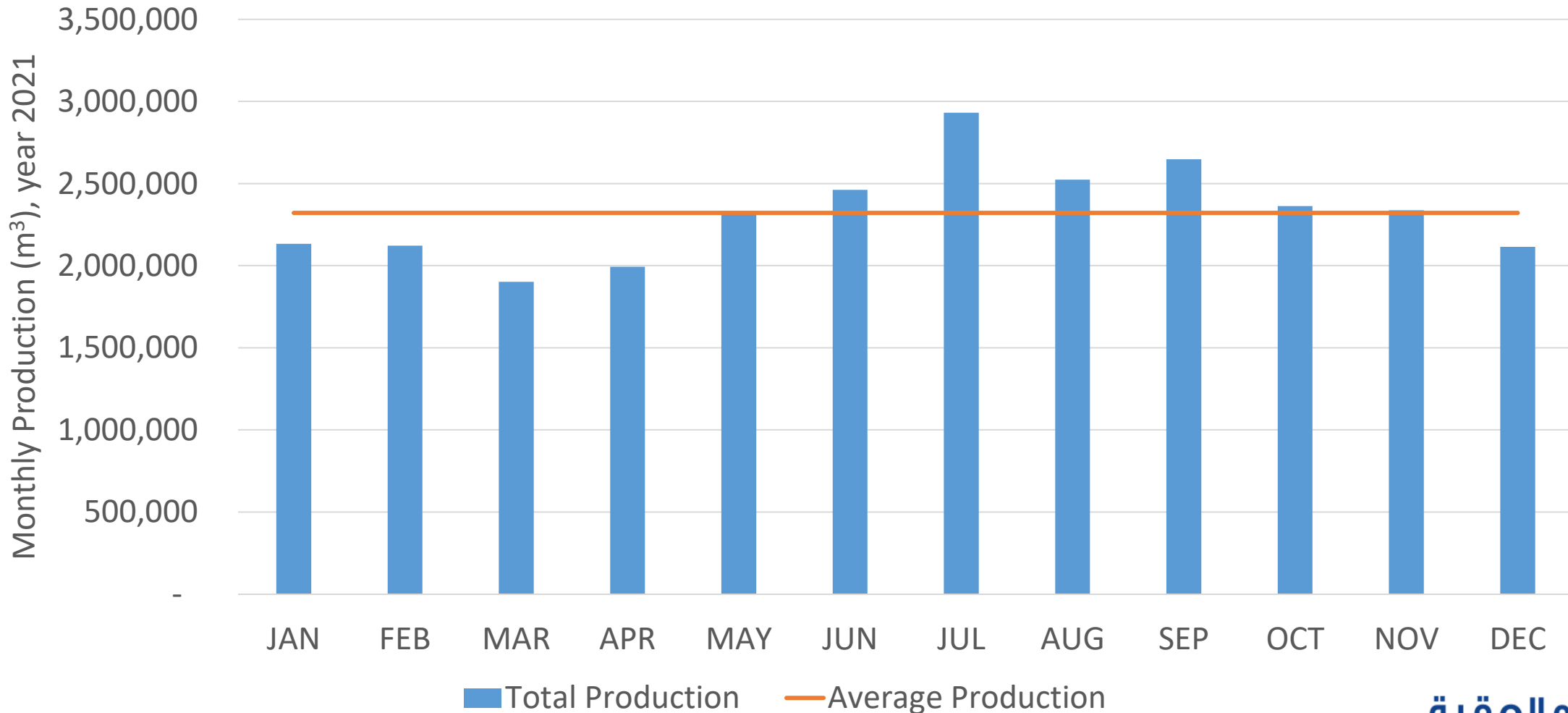
WATER BALANCE ANALYSIS (100% POTABLE WATER FOR INDUSTRIAL USE)



	2025	2030	2035	2040	2045	2050
■ Disi Reinforcement Project		12.00	12.00	12.00	12.00	12.00
■ KEMAPCO	5.00	5.00	5.00	5.00	5.00	5.00
■ Qwaira Wells	3.50	3.50	3.50	3.50	3.50	3.50
■ Disi Wells	21.00	21.00	21.00	21.00	21.00	21.00
— Total Demand	44.29	54.35	58.29	65.45	69.92	74.36
— Deficit (Required Supply from NC)	-14.79	-12.85	-16.79	-23.95	-28.42	-32.86

SUPPLY VARIATIONS THROUGHOUT THE YEAR

Seasonal Demand Factor = 1.26
The network is sized for a peaking factor of 2.52.



WATER SYSTEM

Water sources: Aqaba city is supplied with water from 20 wells from the Disi water basin, Al-Quwairah and Al-Disi are supplied with water from 9 wells, and 8 wells for Wadi Araba.

Rum Agricultural Wells: The company purchases water from rum agricultural wells, as the amount of water purchased for the year 2023 reached about 8 million cubic meters.

Operating the water system: The company uses the SCADA system to manage and operate the water system



Past and present:

	2004	2023
No. of inhabitants	98,000	222,800
Water Subscriber	19,616	44,546
Water Supplied/million m3	13.140	28.9
Water Network Length/km	880	1117
% of population served by water	%99	%100
NRW	%37.33	%31.5
Wastewater Subscriber	14,430	39,537
Wastewater network length/Km	277	333
% of People served by wastewater services	73.6%	85%



مياه العقبة
Aqaba Water

CONTRACTS MANAGEMENT IN SOUTHERN GOVERNORATES





In 2022 AW sign with MWI a contract to manage the operation of water and Wastewater in the southern governorates (Karak, Tafila, Ma'an) to be operated by AW.



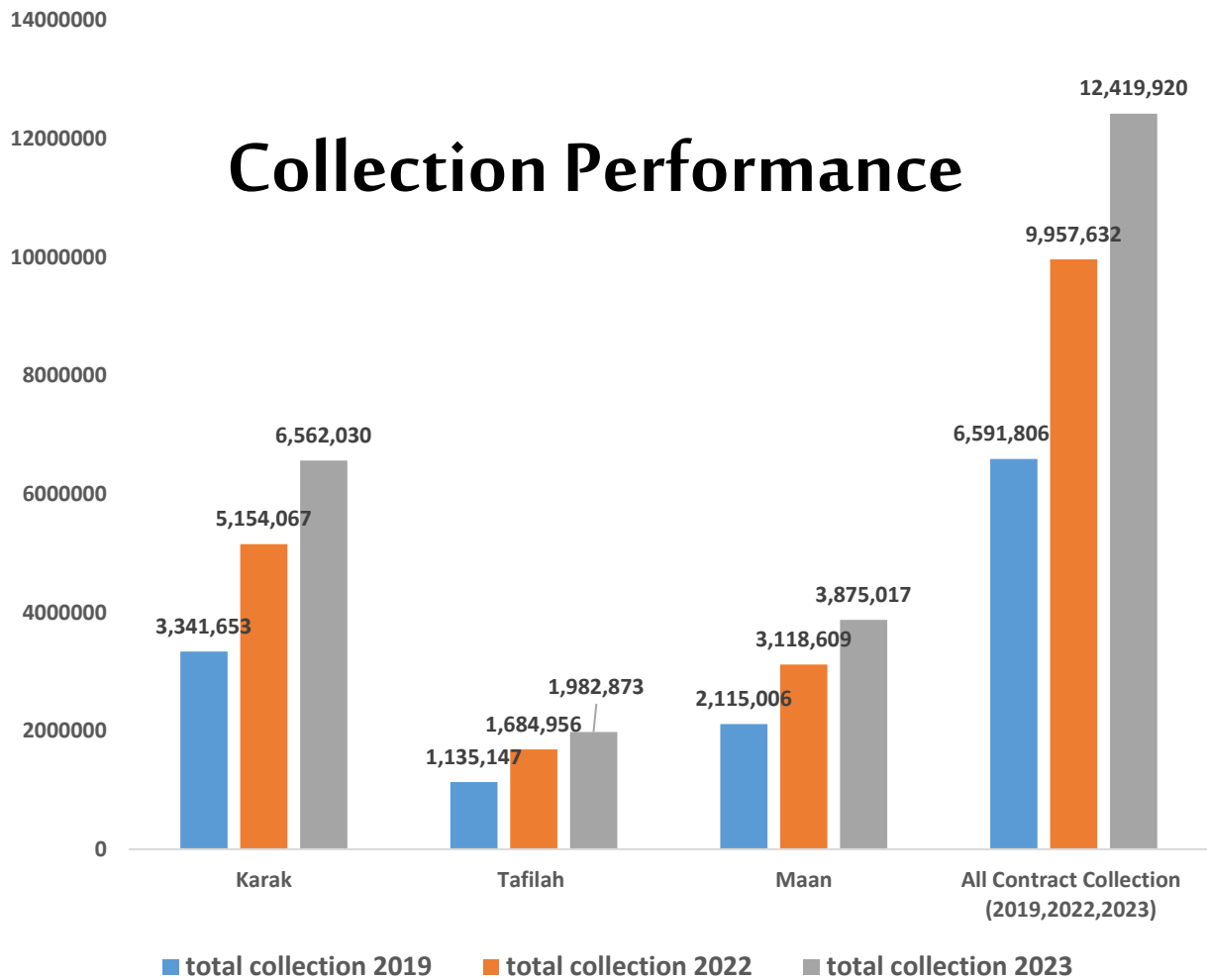
Previous situation - Challenges

- Lack of proper metering infrastructure
- Old water networks
- Customer Service and maintenance is not proactive and not effective
- Water Management and Delivery is not optimized nor well-planned
- Automation and use of modern IT tools is outdated
- capacity building needed and enablement to adopt the mind-set of being commercial oriented

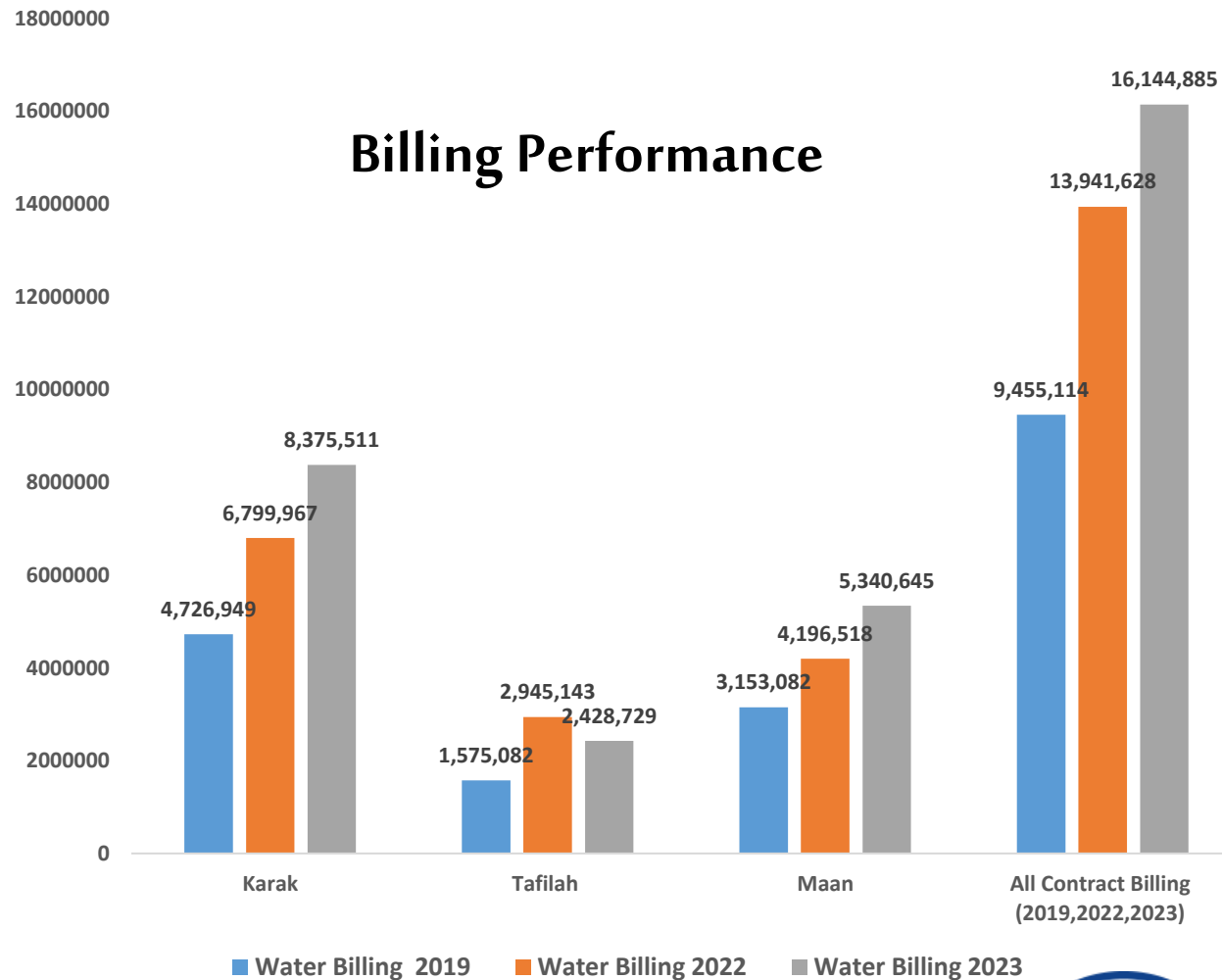
Objectives

- Enhance Water Service and Delivery to Citizens.
- Improve billing and minimize the estimated bills.
- Enable the staff by implementing capacity building programs.
- Plan, structure and manage the operations of the new three water utilities.
- Oversee Utilities Performance through monitoring the KPIs.
- Knowledge Transfer.
- Manage the Project implementation and documentation.
- Ensure the transition/project objective are well maintained and governed.

Collection Performance

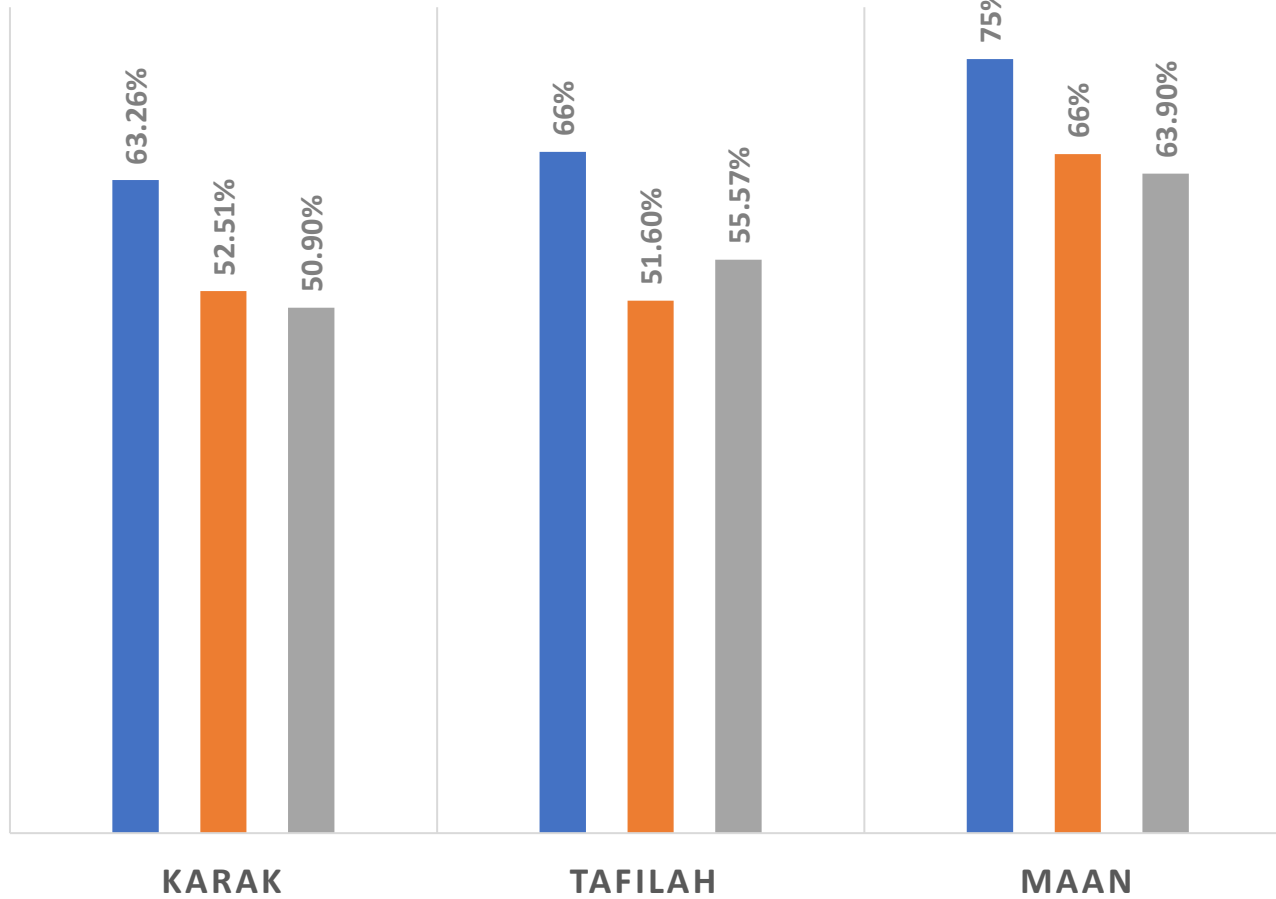


Billing Performance

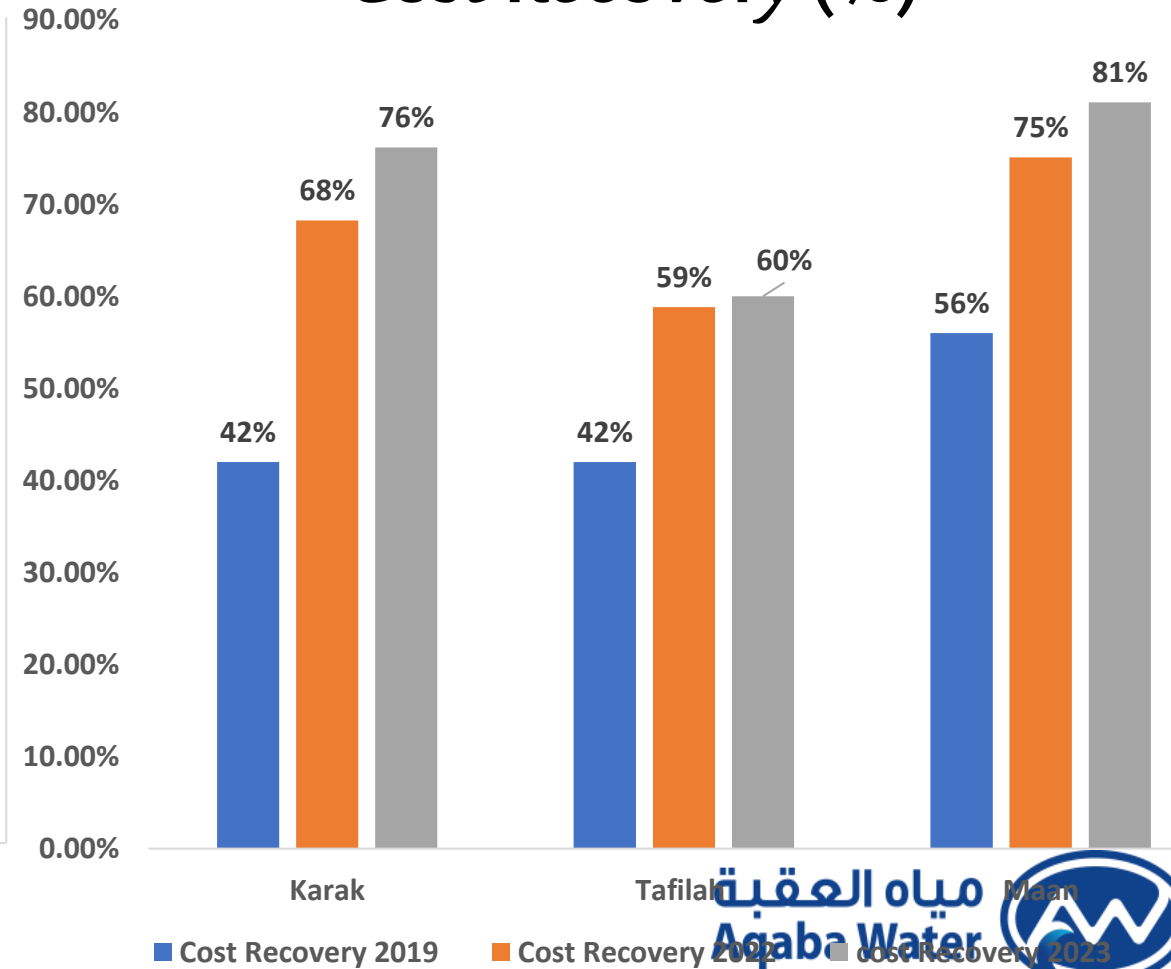


NRW %

■ NRW 2019 ■ NRW 2022 ■ NRW 2023



Cost Recovery (%)



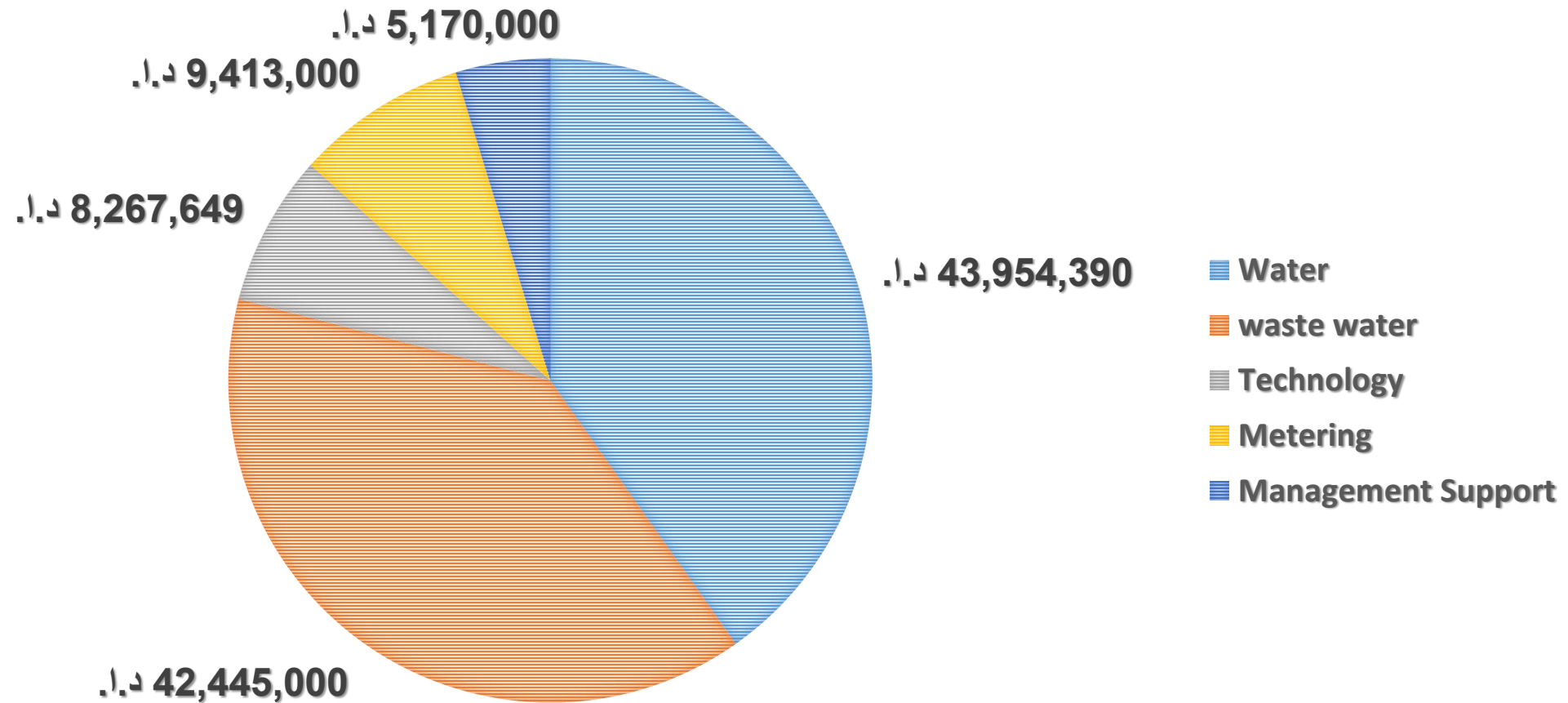
FUTURE PROJECTS

- Increasing the capacity of the conveyor line from Disi wells by 12,000,000 cubic meters annually.
- collection tank with a capacity of 30,000 cubic meters at pressure break 2.
- Establishing a 16,000 m³ tank in the northern region
- Restructuring the water network in Aqaba and equipping it with a pressure management system (under commissioning & testing)
- Improving the water network in the South Beach area, by changing the route of the 500 mm southern conveyor line outside the ACT

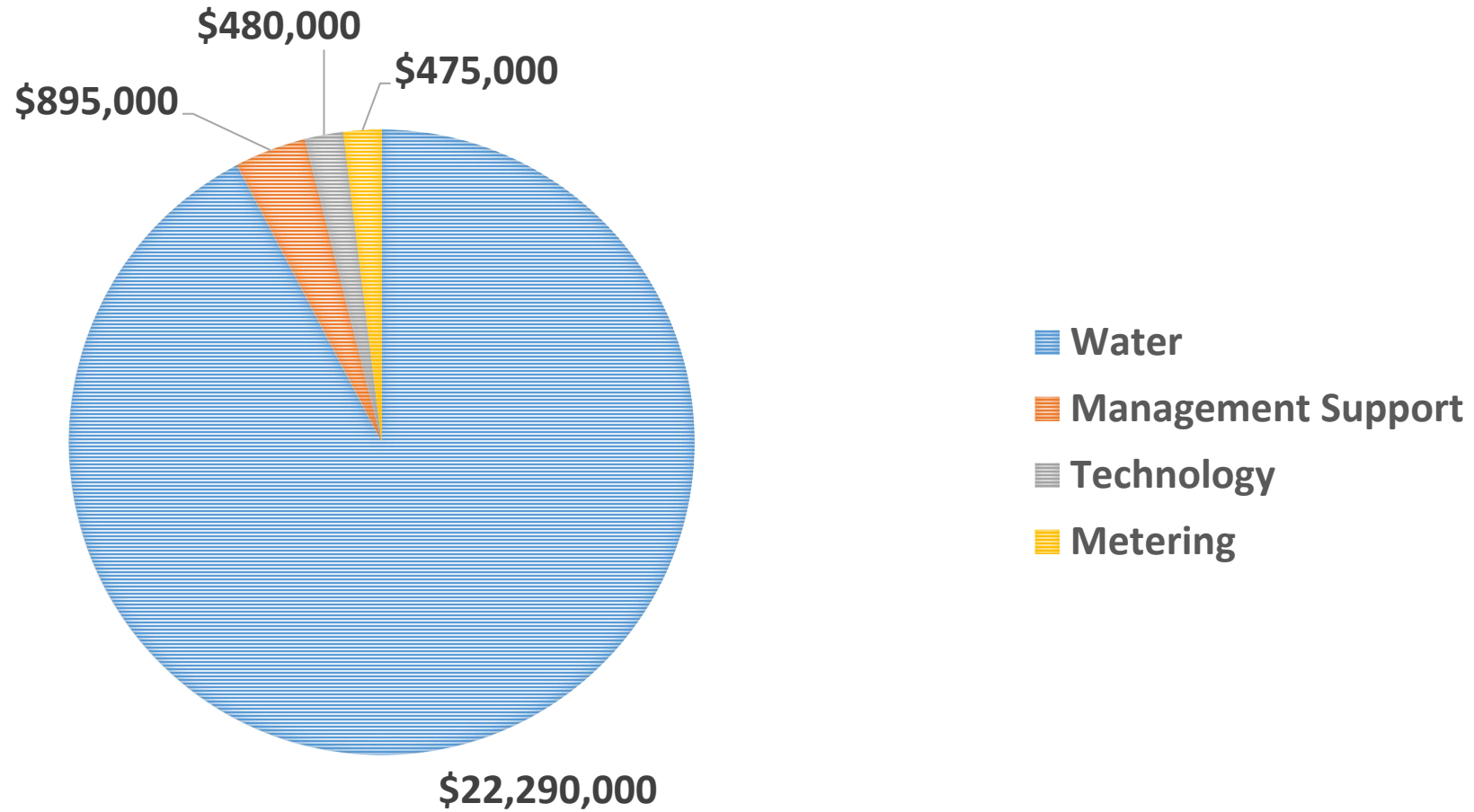
Strategic Projects

A wide-angle photograph of a desert landscape. In the foreground and middle ground, a long, narrow trench has been dug into the sand. The trench is lined with blue and black plastic sheeting, which appears to be used for water collection or containment. The sand is a light tan color. In the background, there are low, rocky hills or mountains under a clear, bright blue sky. The overall scene suggests a water management or conservation project in an arid environment.

AQABA WATER COMPLETED & ONGOING STRATEGIC PROJECTS



ONGOING PROJECTS IN SOUTHERN GOV.



AQABA WATER COMPLETED & ONGOING STRATEGIC PROJECTS

No	Project Title	Total Value (JOD)	Status
1	Expantion of aqaba north WWTP	26,000,000	100%
2	Reinforce and Upgrade Desi water supply system to transfer additional water quantities	25,560,000	Tender preparation
3	Improve the reclaimed water system in the southern area of Aqaba	12,900,000	awarded
4	Improve non-revenue water reduction within the southern governorates	7,621,750	Not start
5	Supply of Residential Water Meters Ultrasonic meters without communication	5,813,800	100%
6	Supply and install of SCADA systems	4,072,354	100%
7	North Aqaba Wastewater Treatment Plan Phase III	3,545,000	100%
8	Provide tools and Equipment for AW to support the implementation of the management contracts	2,627,770	75%
9	Hydraulic Analysis, rehabilitation and restructuring for 3 areas	2,127,000	100%
10	Reduce NRW level by 20%of the basin in Aqaba Special Economic Zone	1,952,370	Tender preparation
11	Supply of radio module for AMI operations & supply of shut-off valves	1,910,401	50%
12	Improve project management capacity at AW	1,418,000	awarded
13	Reduction of NRW in four areas in Aqaba (outside ASEZ)	1,205,300	10%
14	Wadi Araba water improving projects (Desalination plants & reservoirs)	1,000,000	80%
15	Outsource the operation support and training for operating systems installed under previous investments	921,700	25%

AQABA WATER COMPLETED & ONGOING STRATEGIC PROJECTS

No	Project Title	Total Value (JOD)	Status
16	Supply and Install smart water meters for large consumers, DMAs, Transmission lines	860,017	60%
17	Upgrade and expand data center	709,000	100%
18	Wells Development (FARA 3)	709,000	100%
19	Rehabilitate Desi wells to increase their performance and reduce energy consumption	709,000	60%
20	Pumps Replacement for Remote Villages	680,640	100%
21	Supply of maintenance and leak detection equipment	572,305	Tendering
22	Prepare water infrastructure Master Plan and Provide Construction Services	510,480	90%
23	Supply and Installation of Noise Loggers	507,290	Tendering
24	Supply and Commission of ERP Billing System	496,300	70%
25	Supply of maintenance and leak detection vehicles & Medium size maintenance car	460,850	100%
26	Establish a water exhibit at AW building	354,500	Tendering
	Total	105,244,826	

شراكة من أجل التقدم
Partnership for Progression

Thank You