• Water Treatment Projects Outlook in Saudi Arabia

The 6th Annual Arabian World Construction Summit 13 – 15 May 2013 – Abu Dhabi , UAE



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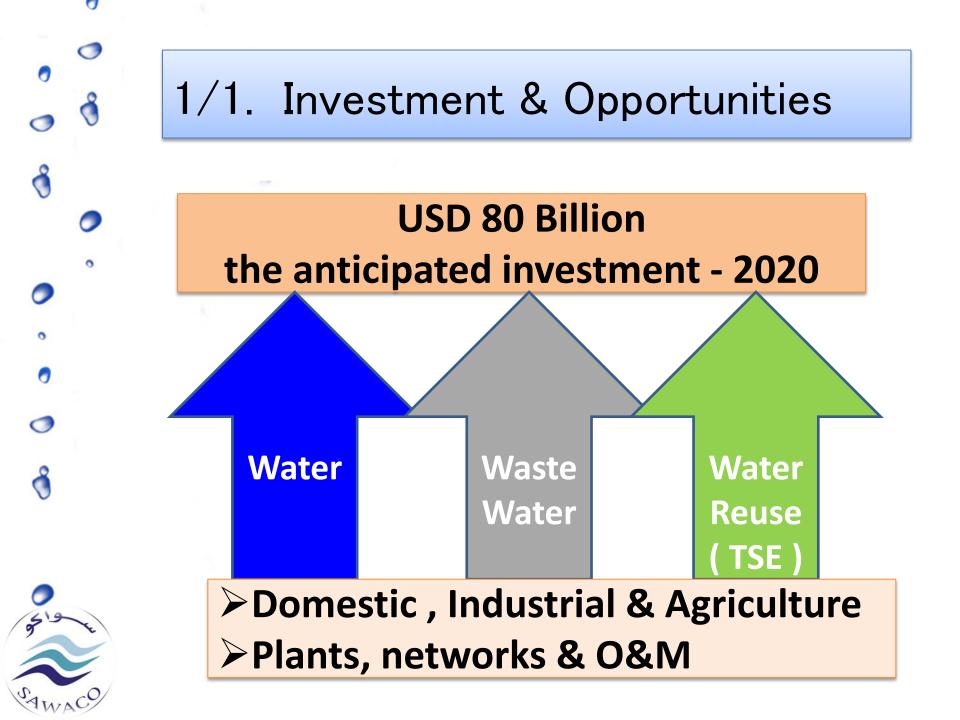
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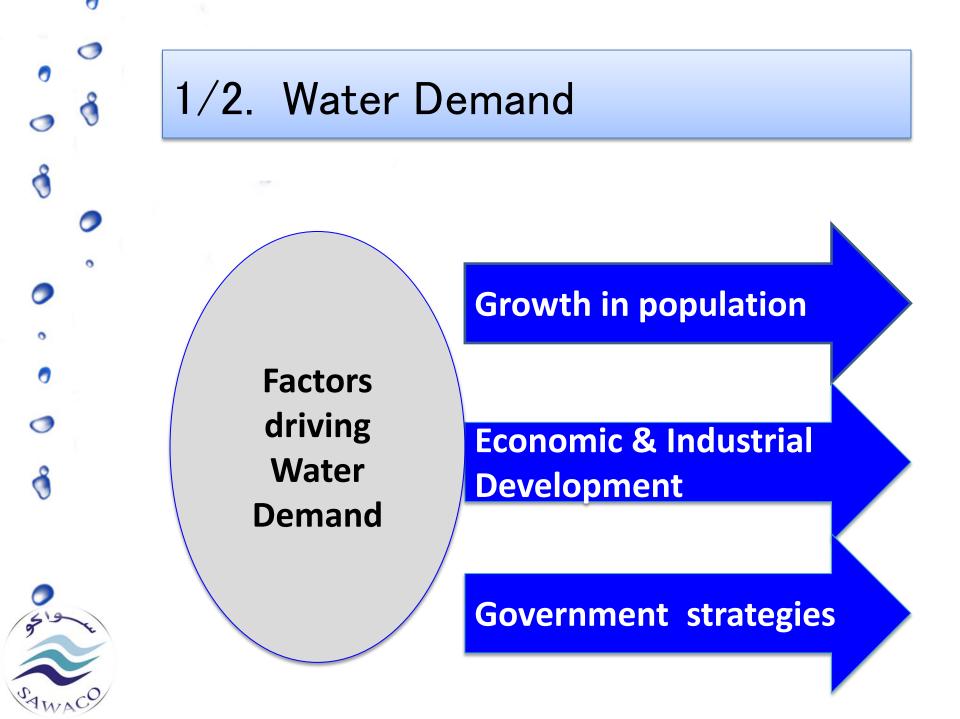
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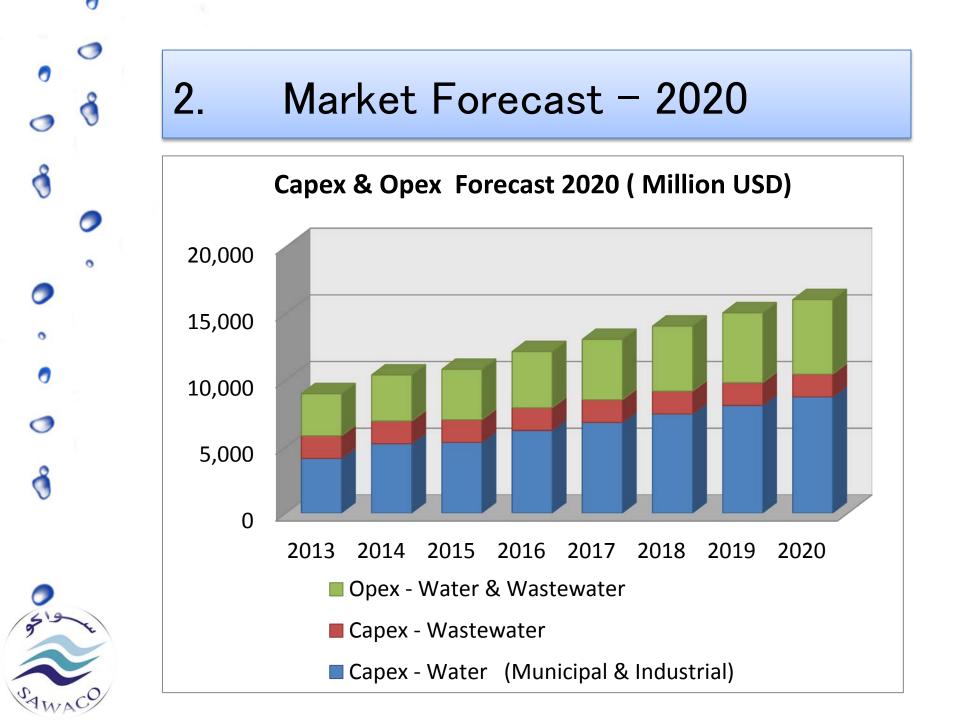
Nizar Kammourie

General Manager SAWACO-Water Desalination









3/1. Water Reuse – Definition

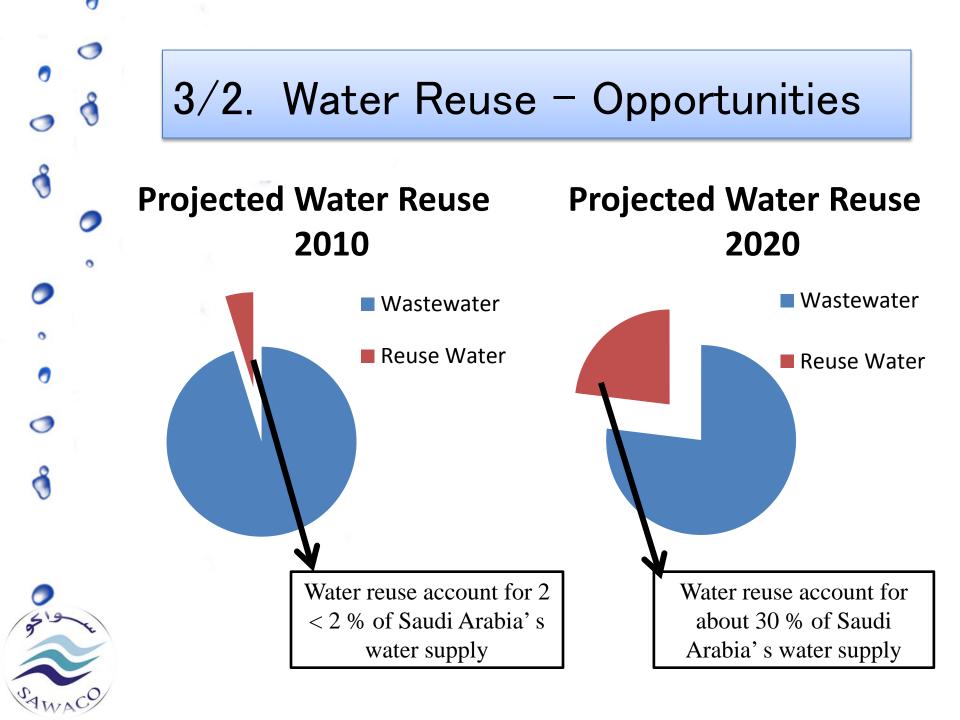
- Reuse → using a product / component in its original form more than once.
- TSE → might require further treatment if it needs to be used in industrial applications

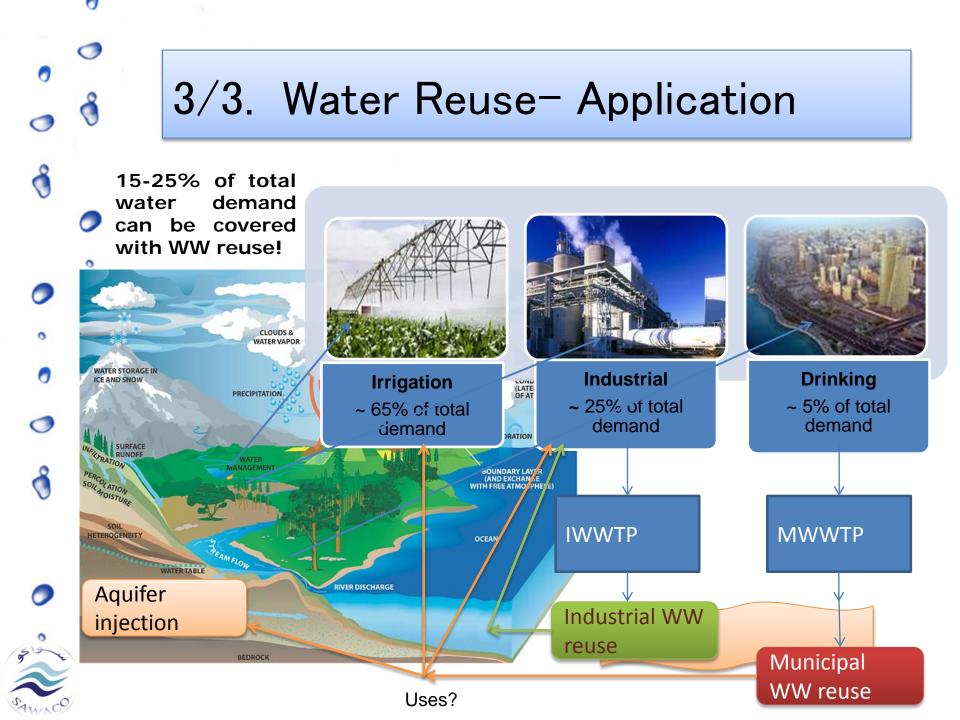


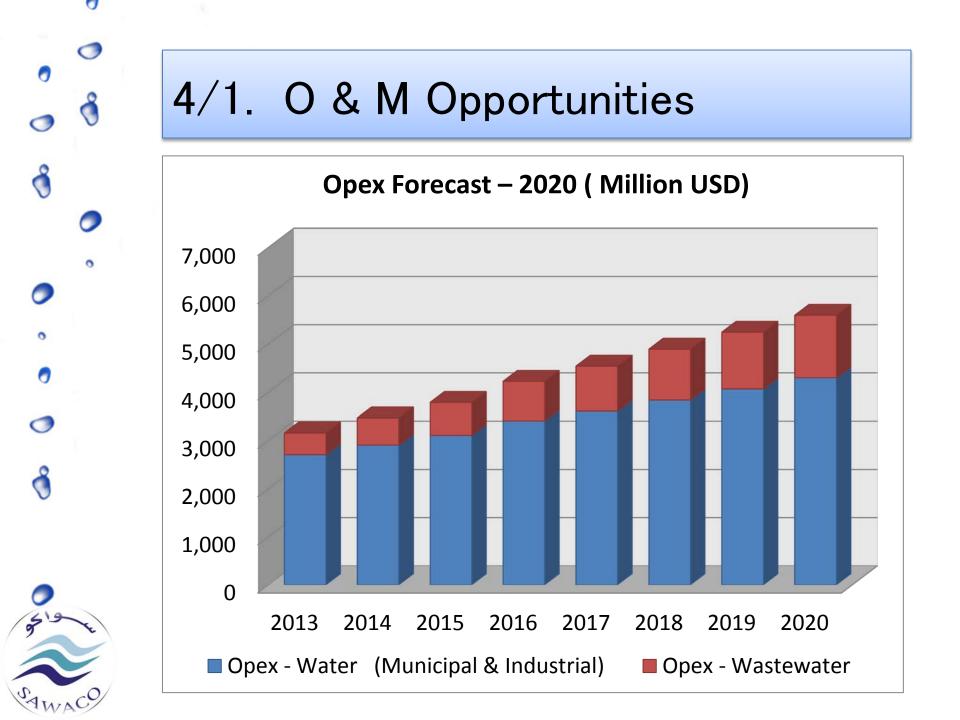


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	Strengths	Weaknesses
Conventional	Local knowledge	EfficiencyOld technologies
BOT/ BOO	 Efficiency / performance Technology / innovation 	 No local knowledge Time for improvement
	Opportunities	Threats
Conventional	 Opportunities Planned growth 	InreatsMeeting demandEnvironment & social

4/3. Key Players in Water Sector

1- The Ministry of Water & Electricity

takes overall responsibility for water & power sector in KSA.

2- The National Water Company

- Responsible for underground water production & treatment , water distribution & wastewater treatment & collection.
- Covering Riyadh, Jeddah, Makkah & Taif which represents <u>+40</u> % of water facilities in KSA.

3- The Water & Electrical Company (WEC)

formed in 2003 to carry out the IWPPs.

4- The Saline Water Conversion (SWCC)

- responsible for water treatment plants & water transmission in KSA.
- Production facilities are in process of being privatized.
- 5- Marafiq → the utility company for Royal Commission for Jubail & Yanbu

6- Others → Aramco, SAGIA & Private Utilities......etc.....



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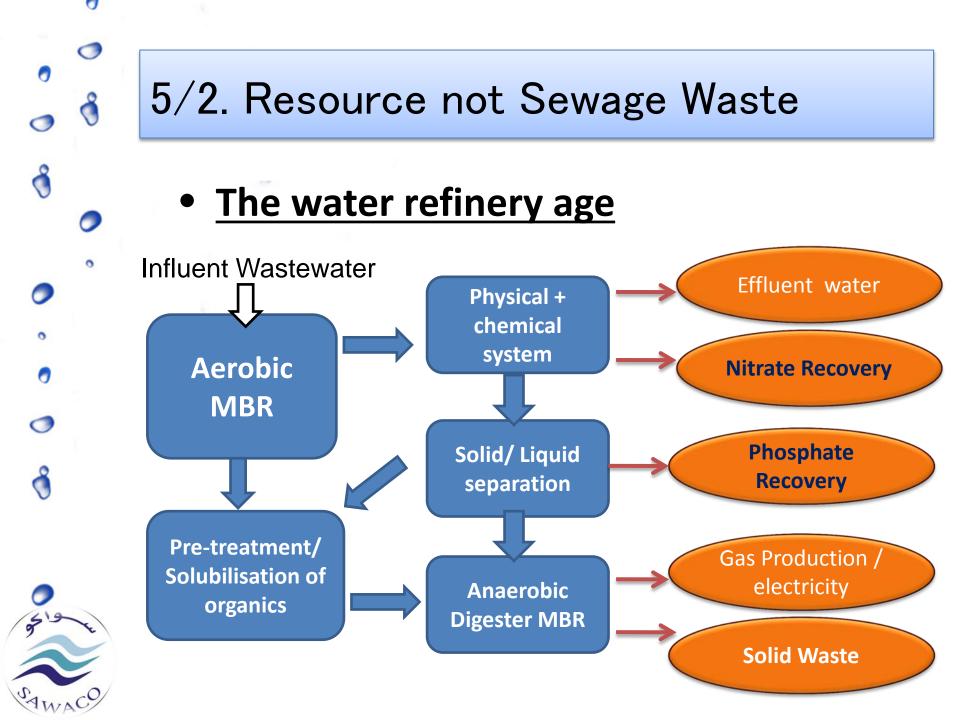
5/1. Investment (in New Technologies)

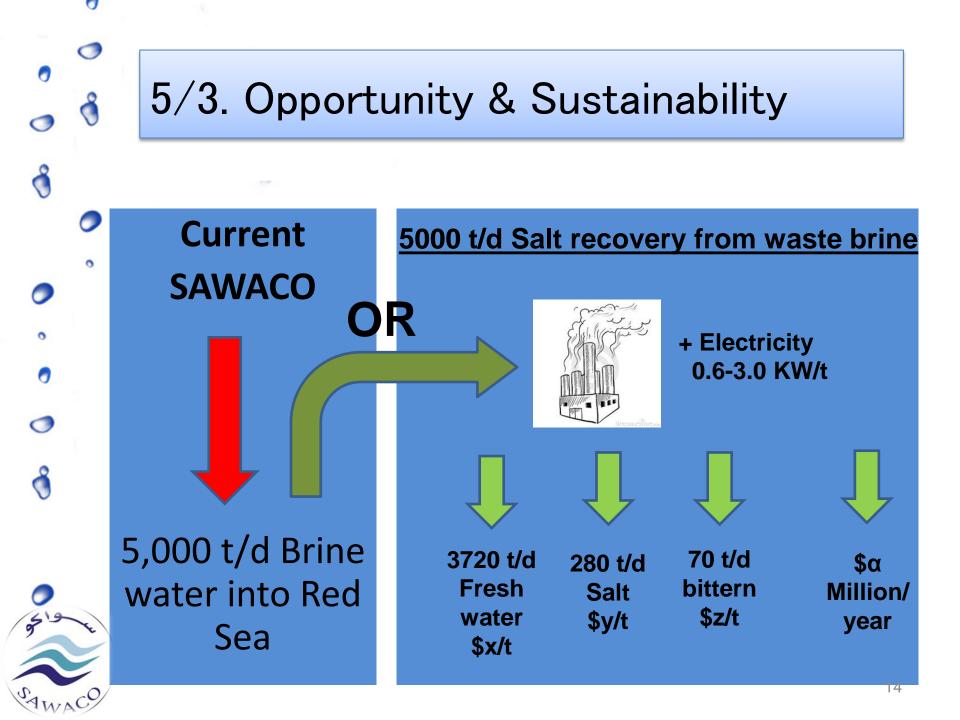
Cutting Edge Technologies

- Huge potential for investment in new technologies .
- Turning waste to resources .

Creating Value from Waste

- Entering Water Refinery Age (recovering Nitrate& Phosphate)
- Recover salt from waste brine.





Conclusion

- ✓ Indicators / Growth → significant investment is required in water & wastewater sector
- ✓ 80 billion USD needed up to 2020.
- ✓ Meeting demand /performance & efficiency/ developing facilities → pave the way for Private Sector to invest in new projects (EPC, PPP &IWPP, BOT, BOOT).
- ✓ Implementing cutting edge technologies to secure clean & safe water for industrial reuse
 - recovering resources from waste streams



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Thank You

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