

The background of the slide is an underwater scene. It features a dark, blurry object in the upper left corner, possibly a piece of coral or a rock. The water is a light blue-grey color, and there are numerous small, dark bubbles scattered throughout, particularly concentrated in the lower half of the image. The text is overlaid on this background.

Sustainability

Circular Economy

Climate Change





Sarah Meyssonier/Reuters

Lake Montbel at the foot of the Pyrenees Mountains is more than 70% empty.



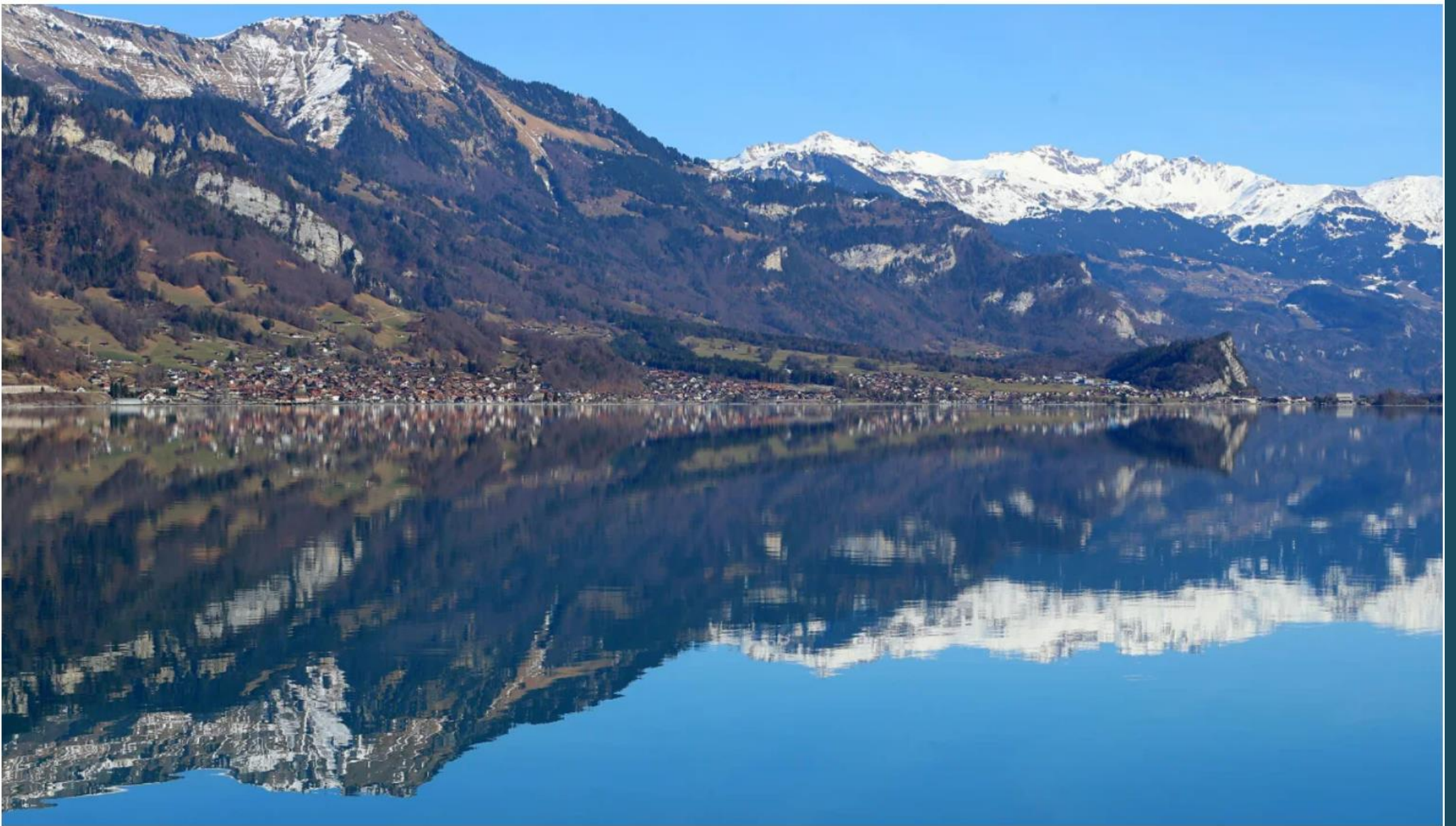
France eyes 'unprecedented' water curbs after driest winter since 1959 | Reuters

[Visitar](#)



Claudia Greco/Reuters

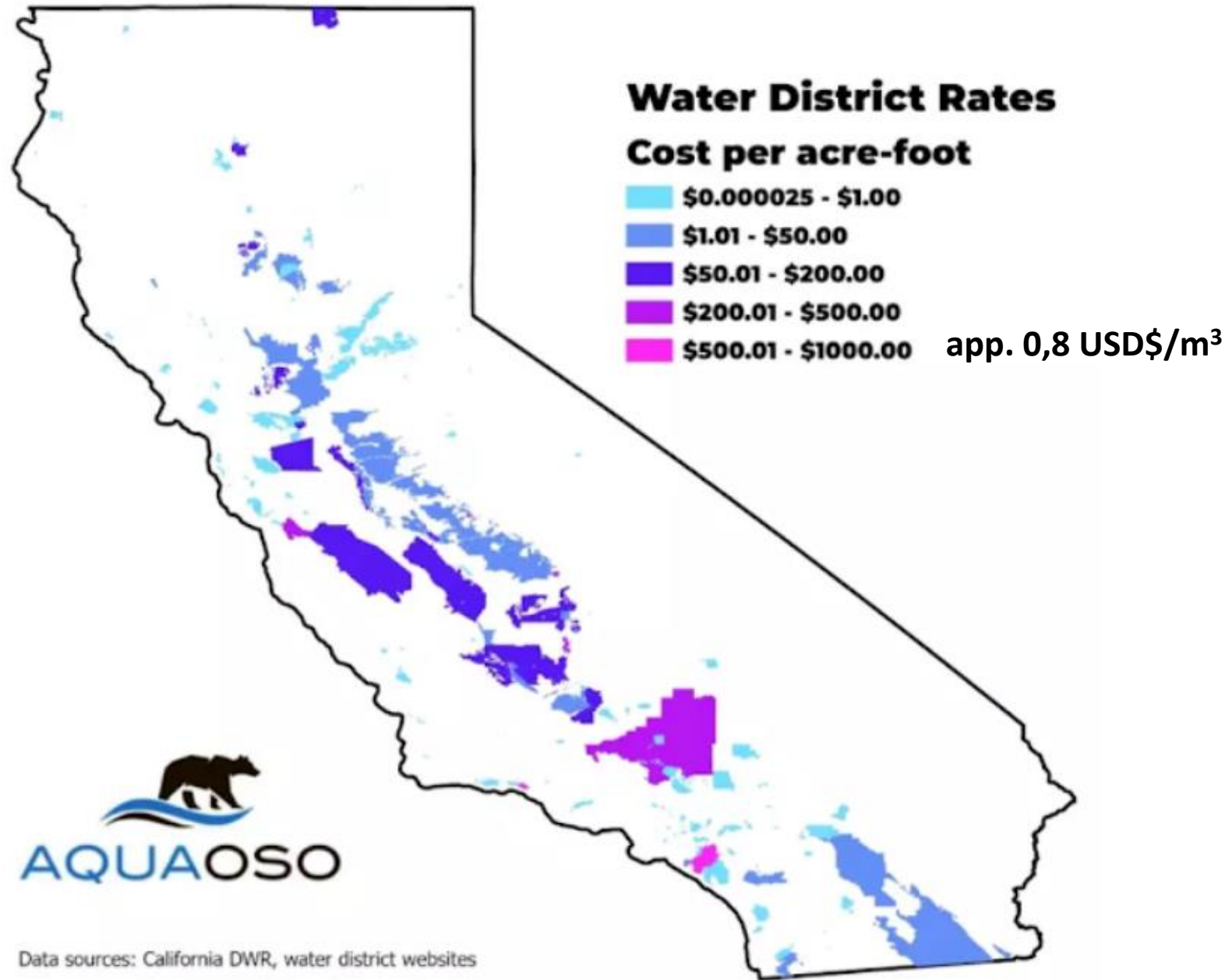
A view from Ponte di Valenza, Italy, on March 21 shows the River Po's dry riverbed.



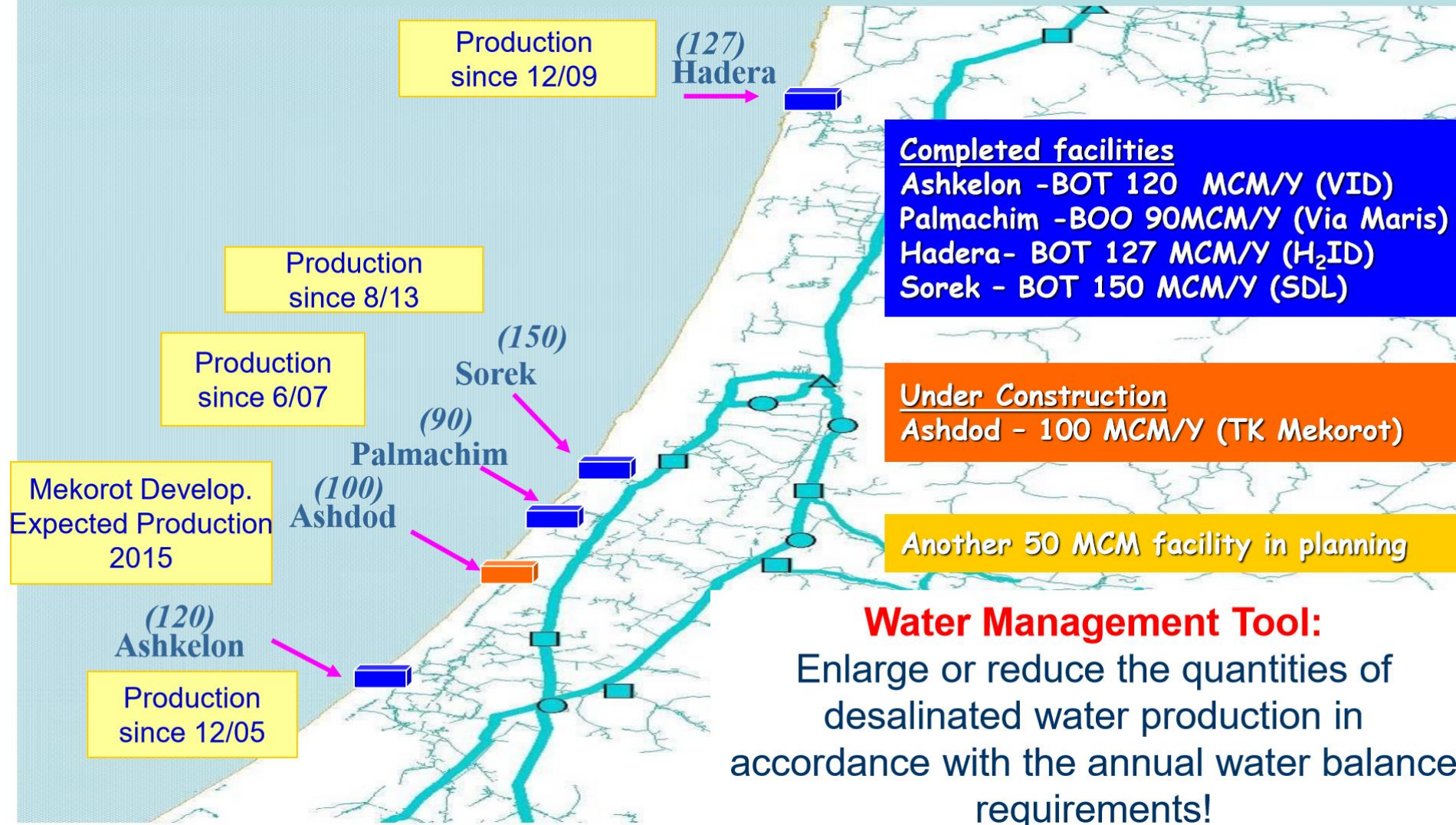
Hakan Burak Altunoz/Anadolu Agency/Getty Images

A view of Lake Brienz, a popular tourist attraction in Bern, Switzerland on February 22



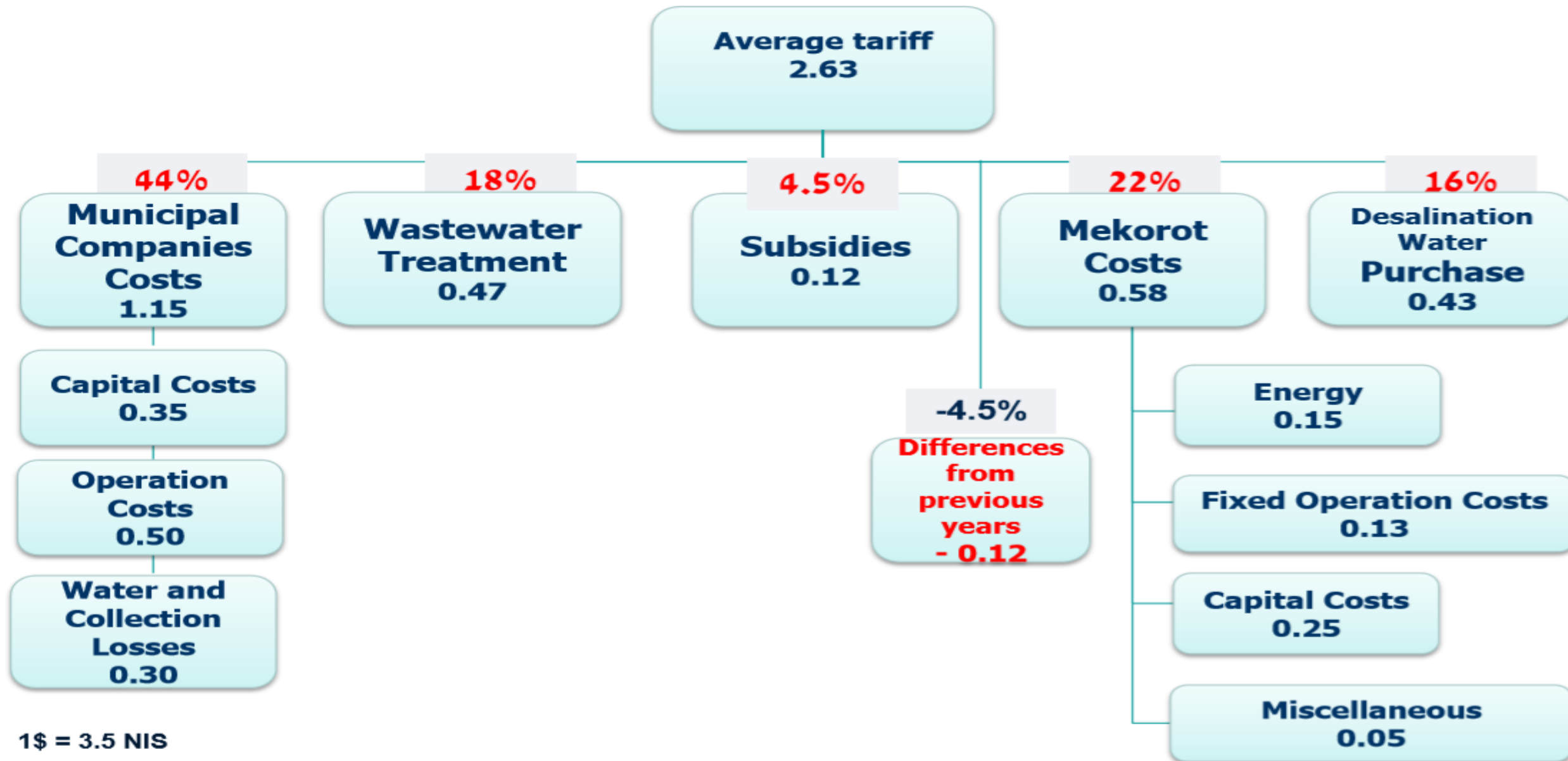


In accordance with the Government decisions since 2001 large scale seawater desalination facilities are being built:



Water Tariff Components – 2015

(in US\$ without VAT):



REUSE OF ALL SEWAGE EFFLUENTS IN DAN REGION (GREATER TEL AVIV) WASTEWATER TREATMENT PLANT (SHAFDAN) AND THE PIPELINE TO NEGEV

Sewage from the Greater Tel Aviv area – 125 MCM/Y (2010)

Large-scale WWTP – secondary treatment quality

Six infiltration fields

Over 150 production and monitoring wells (quality permitted for “occasional drinking”)

90km pipeline to Negev

32 pumping stations, operational storages (0.51MCM) and seasonal storages (17.2 MCM)



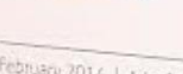


The Vidor Center A Window to Arava Agriculture

Is dedicated in honor of
The Vidor Family | Sydney, Australia
In appreciation of their continuous
and generous support of the Arava

Through the Jewish National Fund
of Australia - Keren Kayemeth Lelsrael

And with the assistance of:



February 2014 | Adar 5774

מרכז וידור חלון לחקלאות בערבה

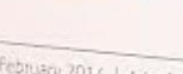
מוקדש לכבוד

משפחת וידור | סידני, אוסטרליה

לאות הוקרה על תמיכתם
המתמדת והנדיבה בערבה

באמצעות קק"ל אוסטרליה -
קרן קימת לישראל

ובסיועם של:



February 2014 | Adar 5774

WELCOME ברוכים הבאים

OPENING HOURS שעות פתיחה

Daily 08:00-18:00 א-ו 08:00-18:00

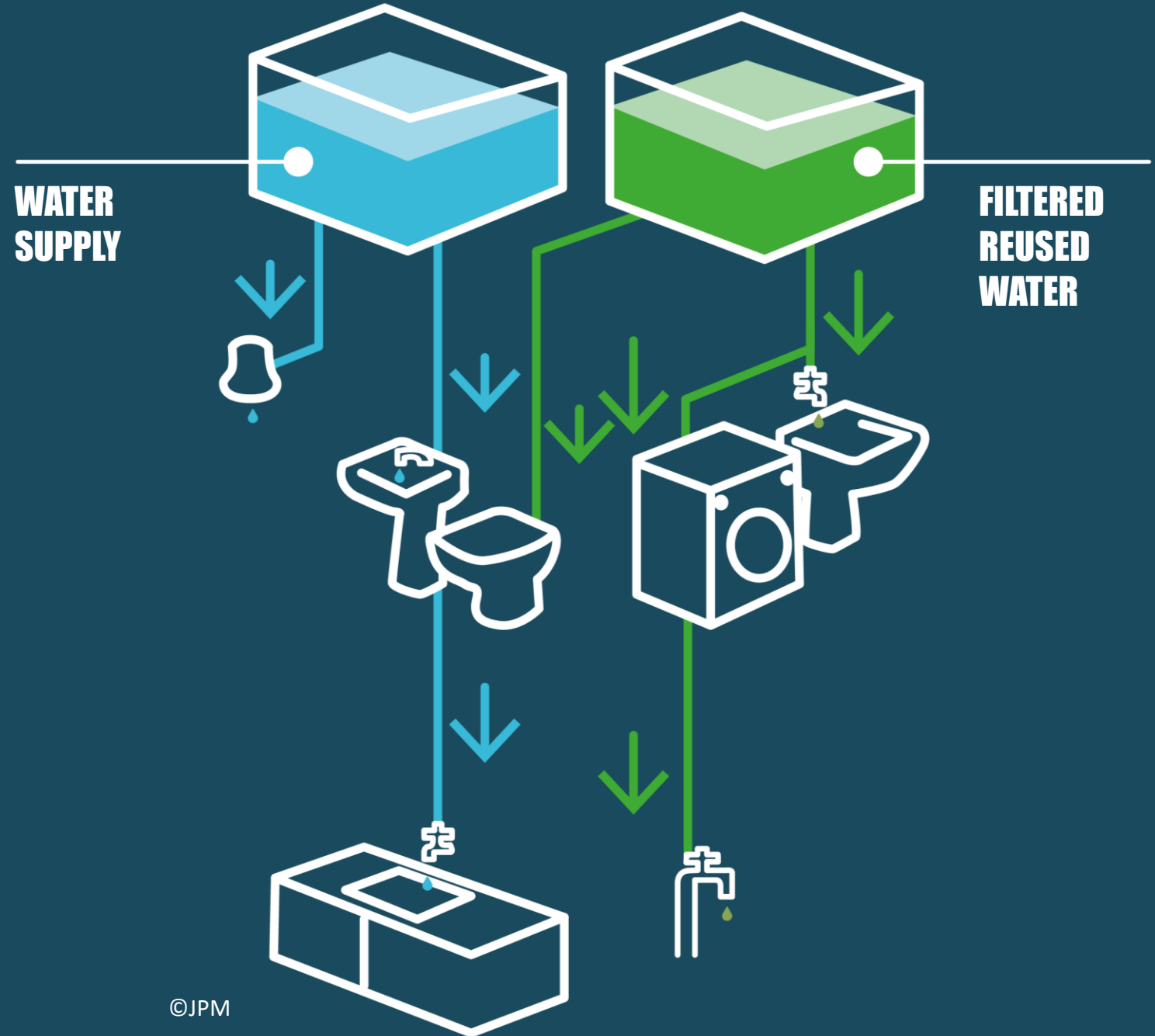
Arava Regional Council מועצה אזורית ערבה

Public 05-9555555

www.arava.gov.il

REUSE

Different uses, different water quality



Science, Tech & Environment

Recycling sewage into drinking water is no big deal. They've been doing it in Namibia for 50 years.

PRI's The World

December 15, 2016 · 3:45 PM EST

By **Daniel A. Gross**



©JPM

BUSINESSINSIDER

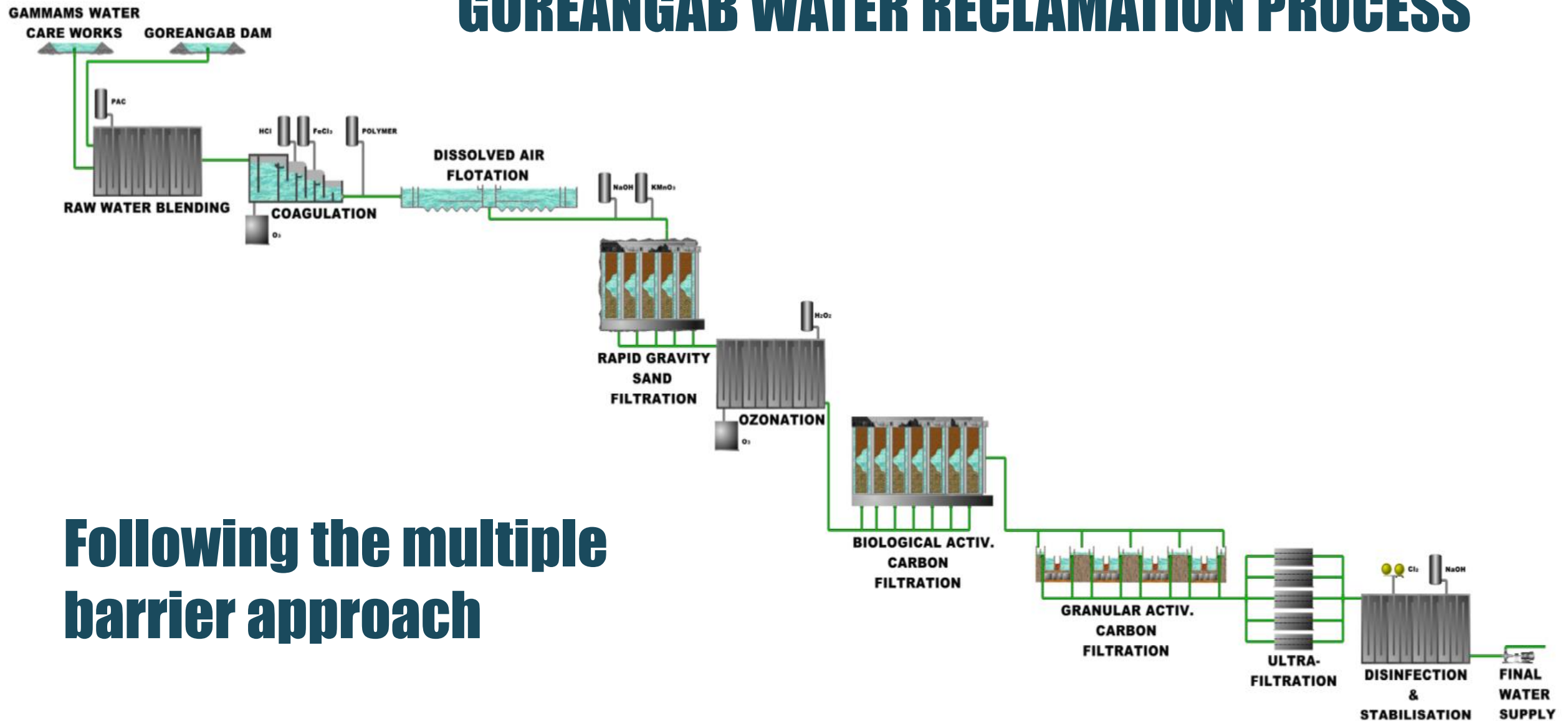


ANNIVERSARY

DIRECT POTABLE RECLAMATION WITH A CLEAN BILL



GOREANGAB WATER RECLAMATION PROCESS



**Following the multiple
barrier approach**



COACHING TEAM

Pri	A						
Sec	B						
Sec	C						
Pri	D						
Sec	E						
Pri	F						
Sec	G						
Pri	H						

COACHING TEAM

COACHING TEAM

I							
J							
K							
L							
M							
N							

COACHING TEAM

REUSE AS POTABLE WATER (750 000 Population - \$100/person

Process		Ozone-BAF	Full advanced treatment with RO Concentrate Disposal		
Cost/Impact			Ocean Outfall	Mechanical Evaporation	Evaporation Ponds
Capital Cost (millions)		\$91	\$120	\$172	\$303
Annual O&M Cost (millions)		\$4.2	\$5.9	\$10.9	\$6.3
Annual Environmental Costs (millions)		<div><div>\$0.31</div><div>\$/m³</div><div>\$0.48</div><div>\$/m³</div></div>			
Total TBL NPV (millions)					
Cost of Water (including environmental costs)	\$/AF	\$386	\$596	\$1,190	\$1,143
	\$/1000 gal	\$1.18	\$1.83	\$3.65	\$3.51
	\$/m ³	\$0.31	\$0.48	\$0.96	\$0.93
Power Consumption (MWh/year)		4,400	16,000	65,400	22,000
Chemical Consumption (dry tons/year)		1,770	1,860	3,020	1,860
Air Emissions (tons/year)	CO ₂	2,900	13,400	44,200	17,200
	Other	11	30	150	49

SINGAPORE NEWater

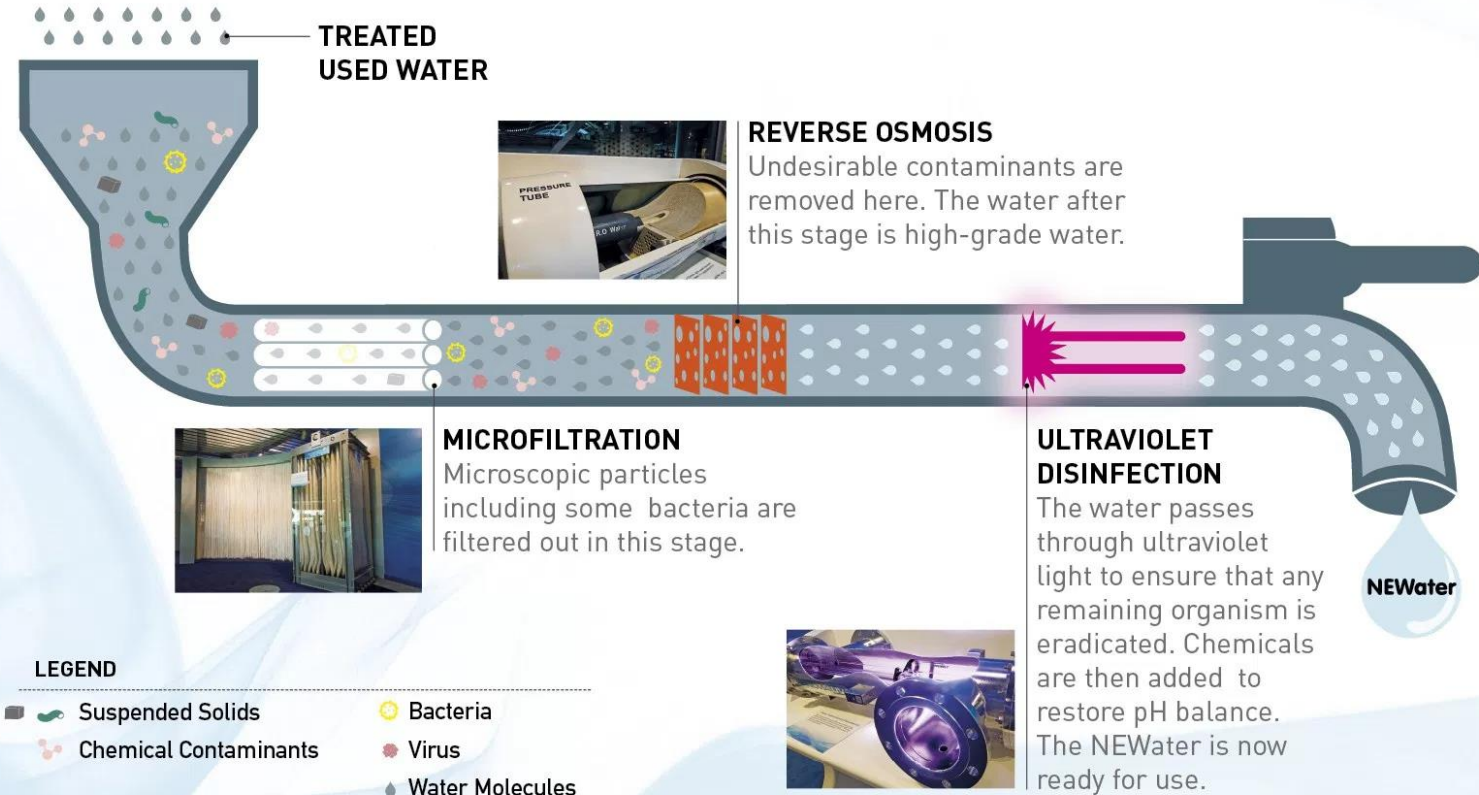
Where our water comes from

	Newater	Desalination	Reservoir and imported water
Now	Up to 30%	Up to 10%	Rest of demand
2060	Up to 50%	Up to 30%	Rest of demand

Water catchment area From 67% now, it will grow to 90% of land area by 2060.



THE NEWATER TREATMENT PROCESS



LEGEND

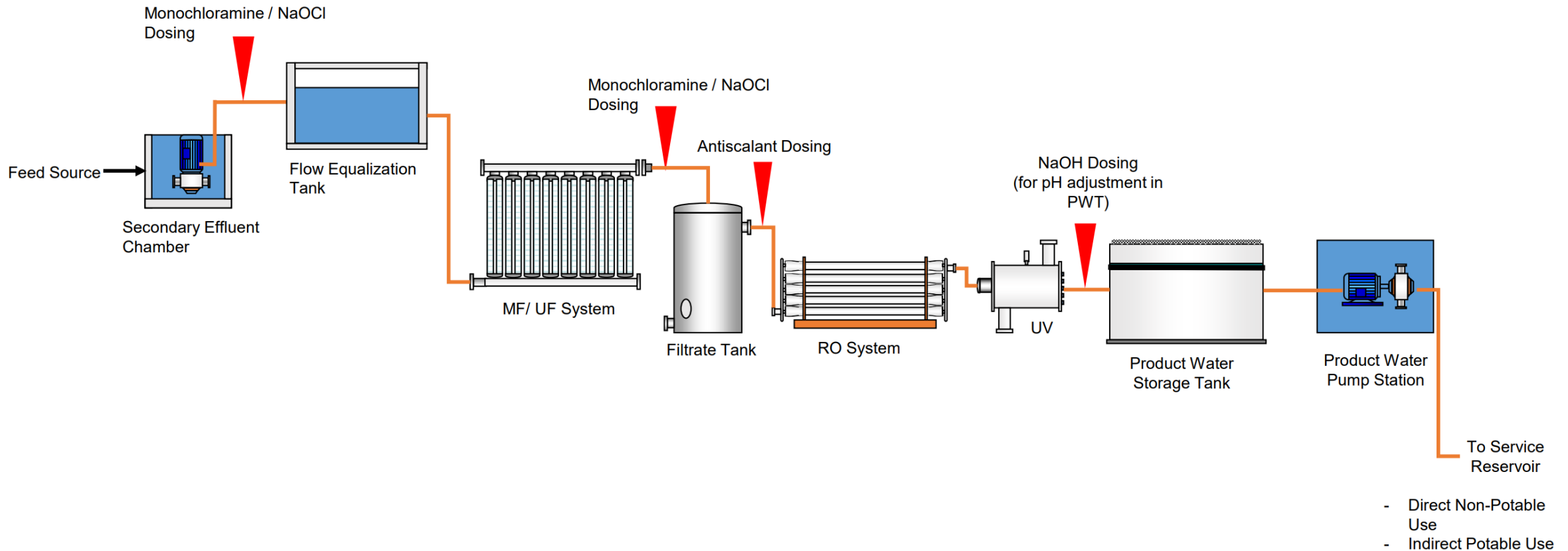
- Suspended Solids
- Chemical Contaminants
- Bacteria
- Virus
- Water Molecules

0 1 2 3 4 km

Main Strait

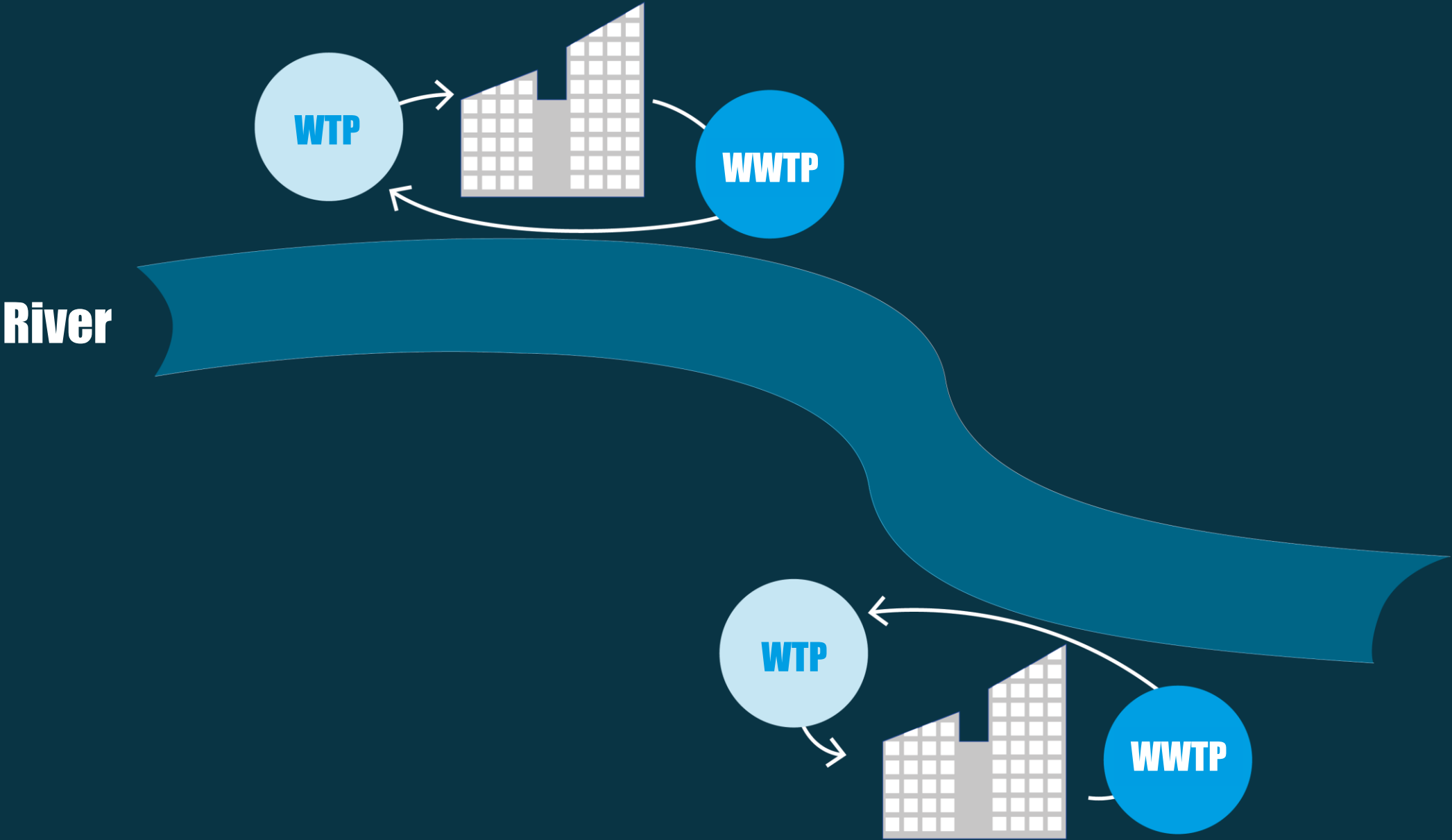


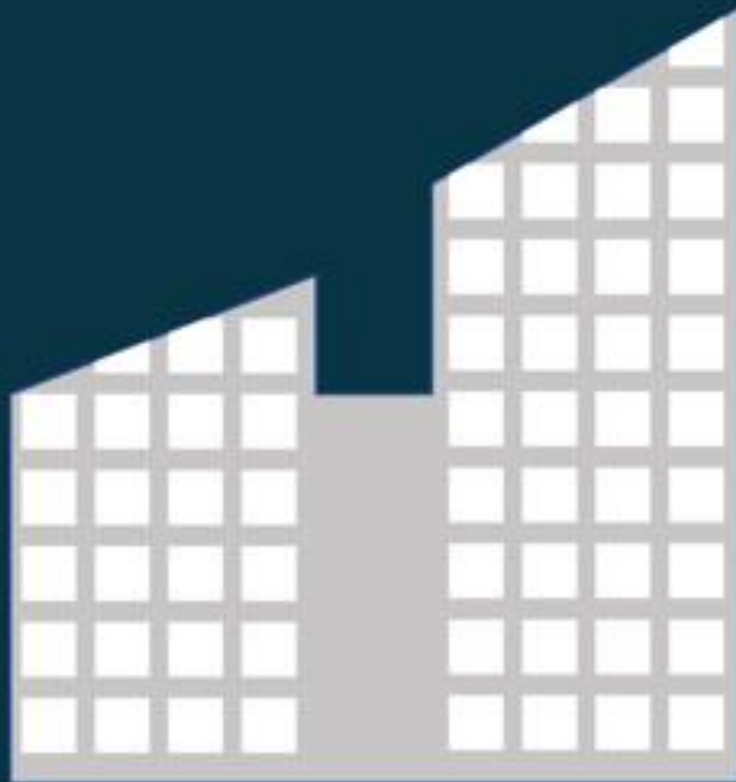
NEWater – General Process Schematic





URBAN WATER CYCLE





Nearly Potable Water

BUFFER