

HKIA 3rd Quarterly General Meeting 2021

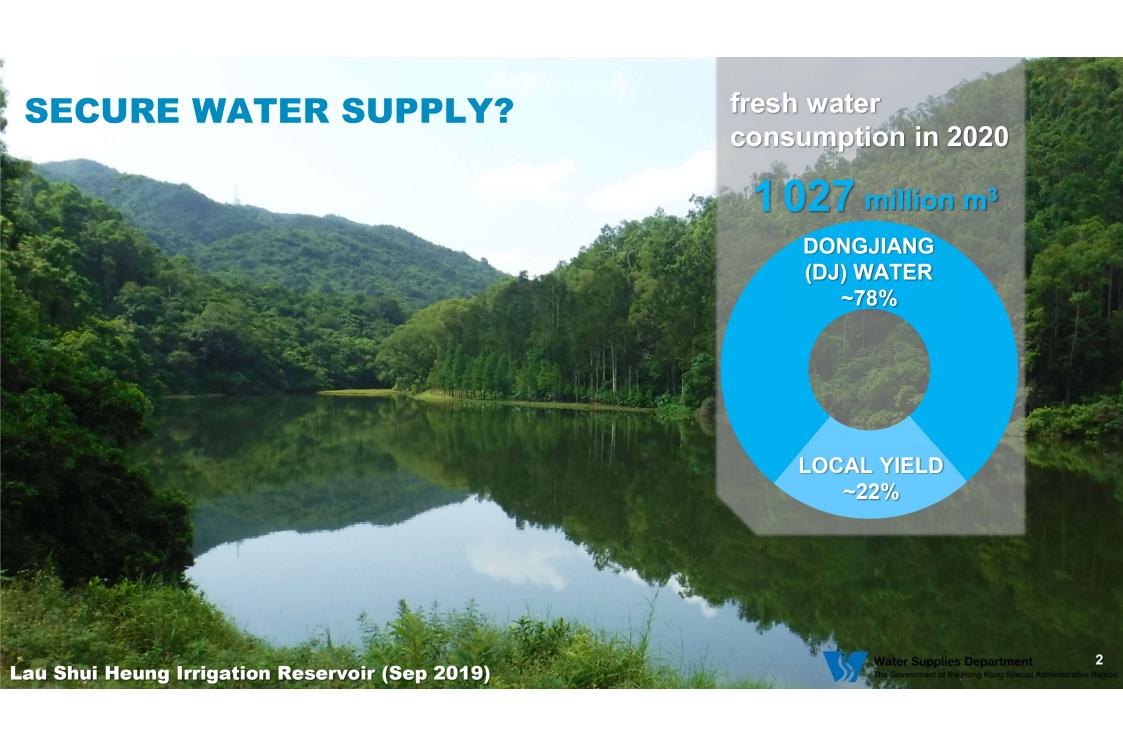
Total Water Management:
Building a Sustainable Future

Ir Kelvin K W LO

Director of Water Supplies The Government of HKSAR



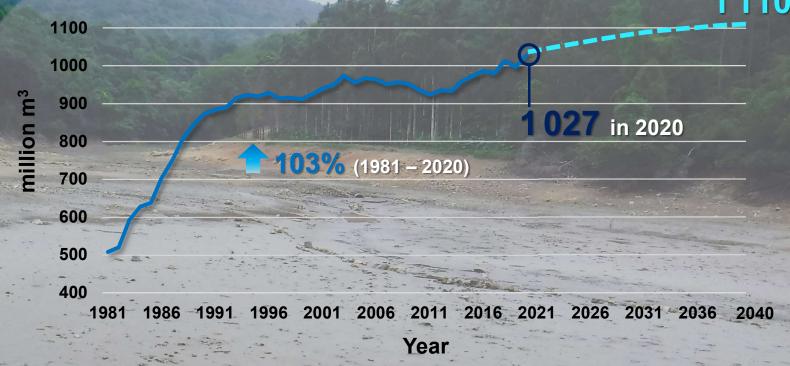




SMART WATER MANAGEMENT REQUIRED!







TOTAL WATER MANAGEMENT STRATEGY FOR SUSTAINABLE WATER SUPPLY IN HONG KONG

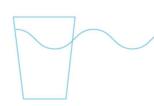
TOTAL WATER MANAGEMENT STRATEGY



 $\sim 1 B m^3 in 2040$

DIVERSIFY SUPPLIES











WATER CONSERVATION



School **Education** Programmes

Public **Activities**





Water **Efficiency** Labelling Scheme (WELS)

Public Education

Water Use Efficiency

Automatic Meter Reading (AMR)





Flow Controllers

Best Practice Guidelines





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Flow Controllers

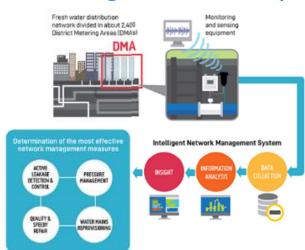
Best Practice Guidelines

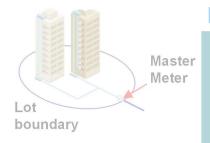




WATER LOSS MANAGEMENT

Water Intelligent Network (WIN)





Private Water Main Leakage Reduction

Master meters Leak detection practitioners

Technical advice & support

Legislative





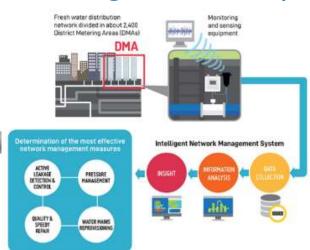


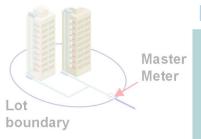




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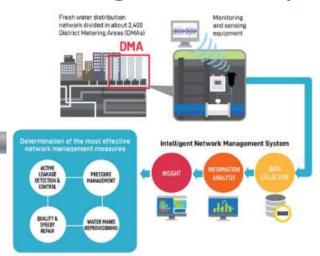


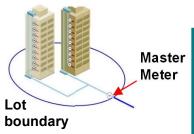




WATER LOSS MANAGEMENT

Water Intelligent Network (WIN)







Private Water Main Leakage Reduction

Master meters

Leak detection practitioners

echnical advice support

Legislative regulation



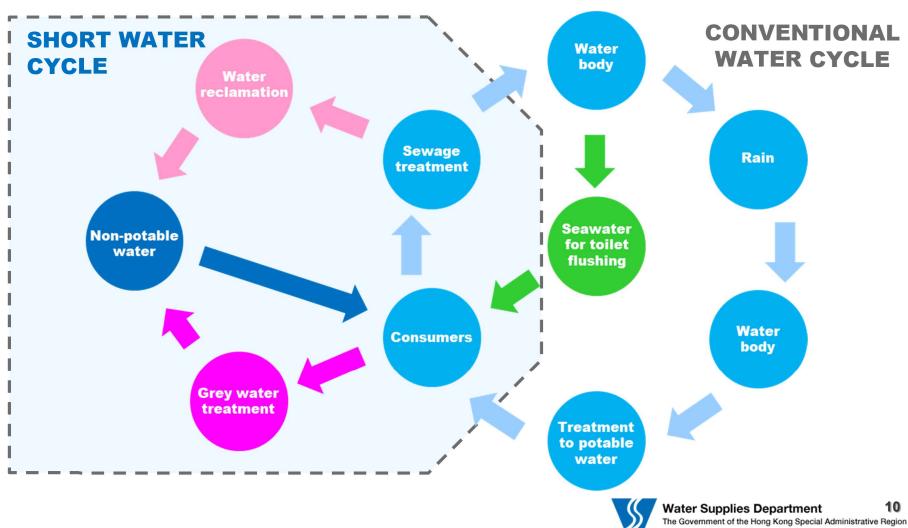








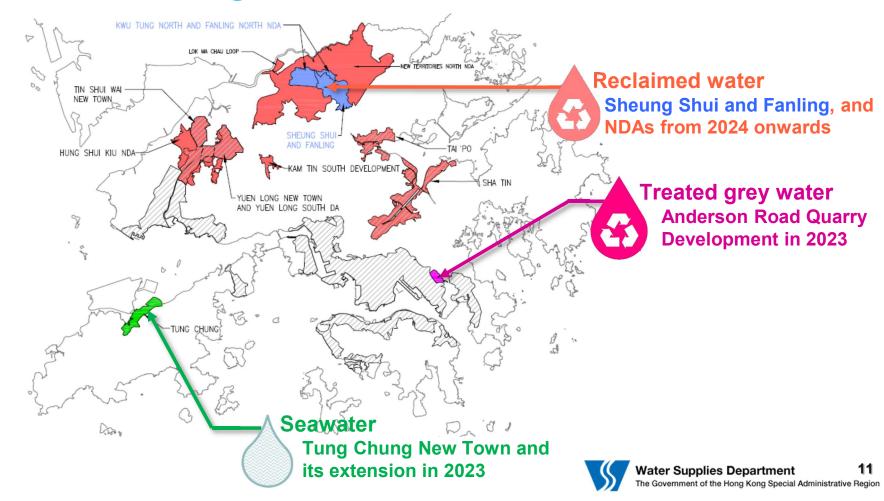
LOWER GRADE WATER





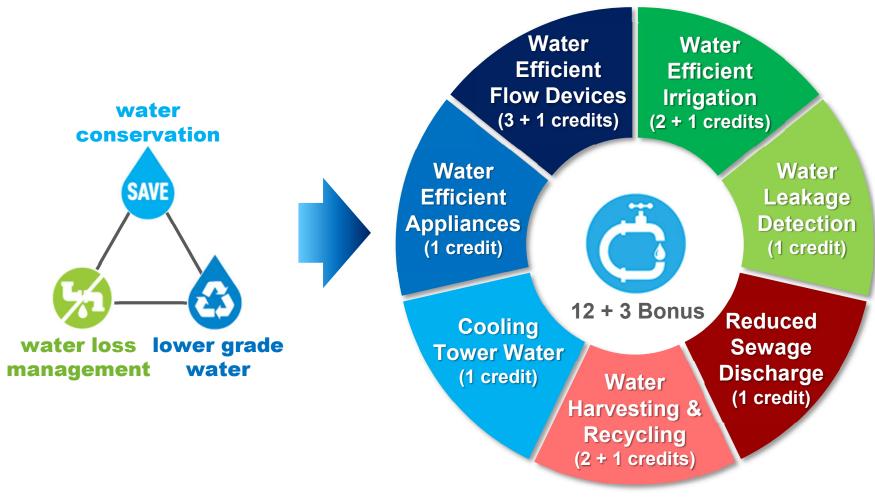
LOWER GRADE WATER

Network coverage 85% → 90%





BEAM PLUS WATER USE INITIATIVE



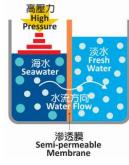


SEAWATER DESALINATION

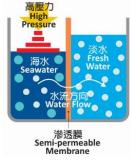
Desalination Plant at Tseung Kwan O (TKO)







Reverse Osmosis



Reverse Osmosis



Stage 1 by 2023

50 million m³ of fresh water per annum

Potential expansion (Stage 2)

Double the capacity of Stage 1





TKO DESALINATION PLANT

Sustainable Features

RAIN GARDEN







53% annual water saving





TKO DESALINATION PLANT

Sustainable Features



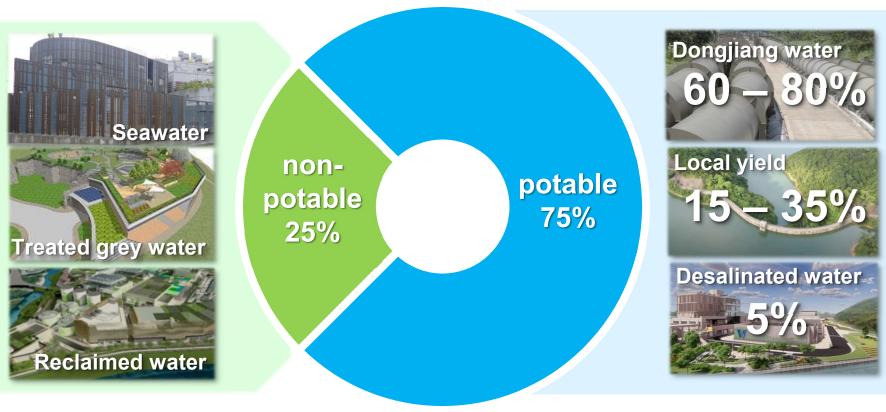


53% annual water saving





DIVERSIFIED WATER RESOURCES





BACKUP MEASURES

2nd stage of TKO and other desalination plants Impounding reservoir expansion **Expansion of water gathering ground Increase of DJ water supply Others**



Let's work together to build a sustainable future