



Meeting Circular Economy Requirements and the Need for Nature Based Solutions in the Urban Water Cycle: The Rise of Water Resource Gardens

ORGANIZING PARTNERS

المؤسسة العامة للمياه
Saudi Water Conservation Program in SWCC



شركة المياه الوطنية
National Water Company



شركة المياه الوطنية
Saudi Water Partnership Company



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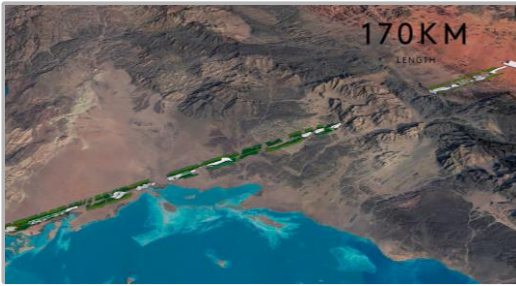
STC EXICON

TECHNICAL ADVISOR

QWi

6-8 March 2022 • Hilton Riyadh Hotel & Residences

KSA Vision 2030: Achieving Environmental Sustainability



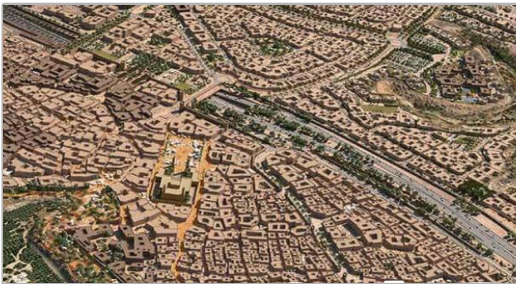
The Line City at NEOM



AMAALA



AI ULA



DGDA



QIDDIYA



SPARK









Activated Sludge



SBR

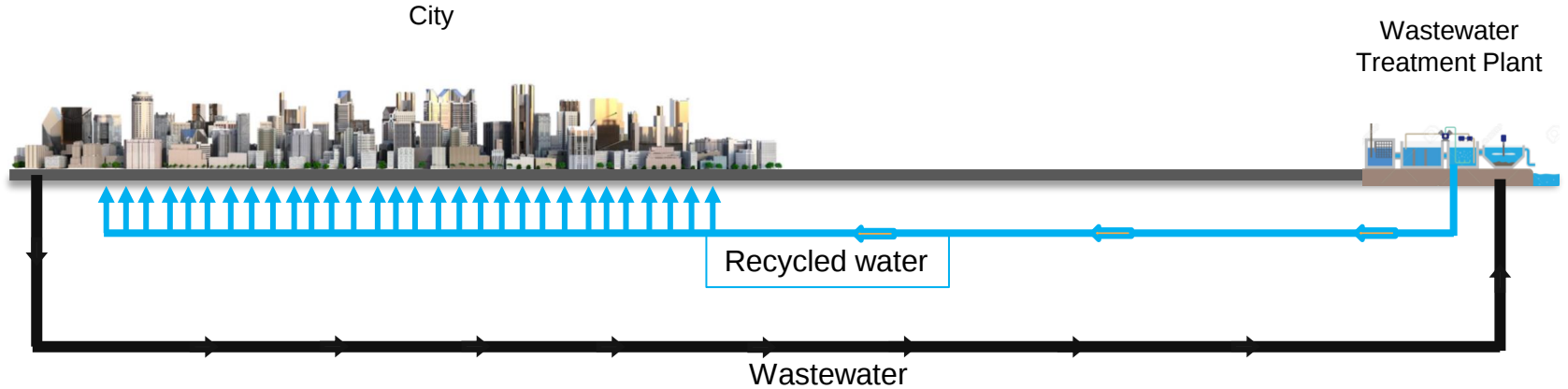


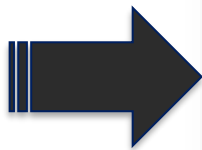
MBR



MBBR

Pumping recycled water from far is expensive





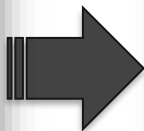


Need to be compact

Free of odor

Efficient

Aesthetic



TECHNOLOGY

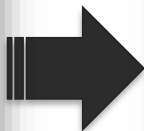


NATURE

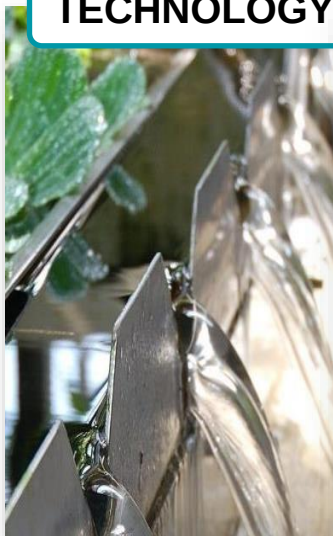


ARCHITECTURE





TECHNOLOGY

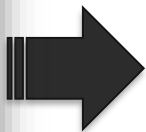


NATURE



ARCHITECTURE







500 000 people

- **60% smaller footprint**
- **30% energy use**
- **Botanical Garden Look &Feel**



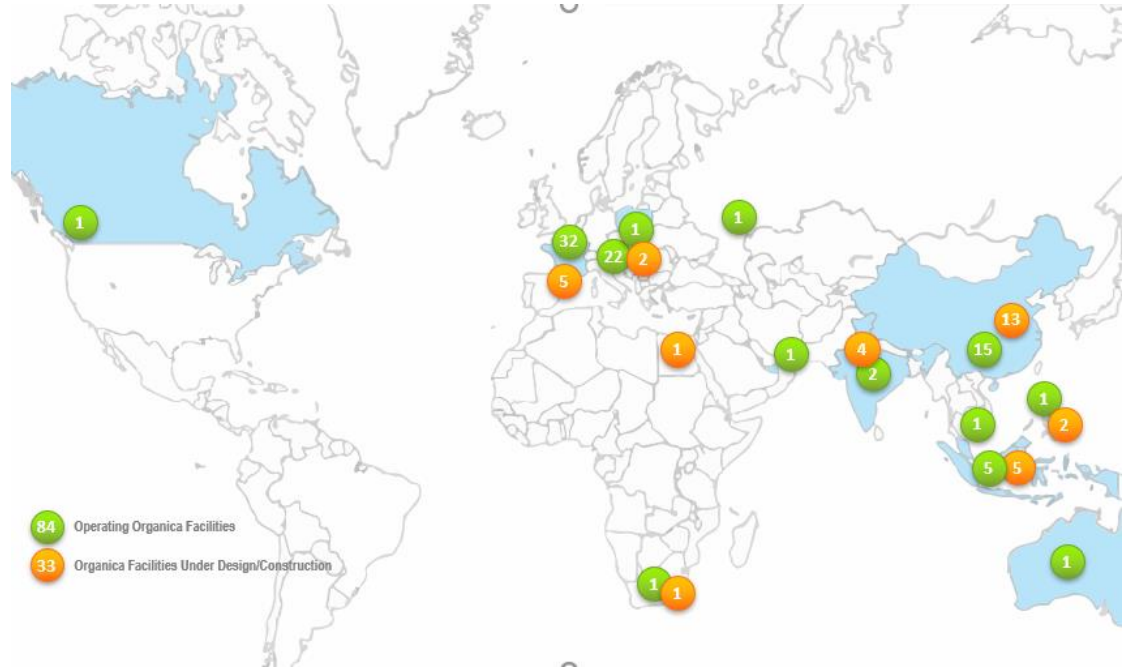
7 000 people



A Proven Solution: **120** Plants Operating or Under Construction Treating >780,000 m³/d



The technology is well proven with over 120 projects in operation/under construction around the world. Our customers include the largest EPC and water companies globally.





Organica Plant





Sechelt Water Resource Centre
5678 SURF CIRCLE

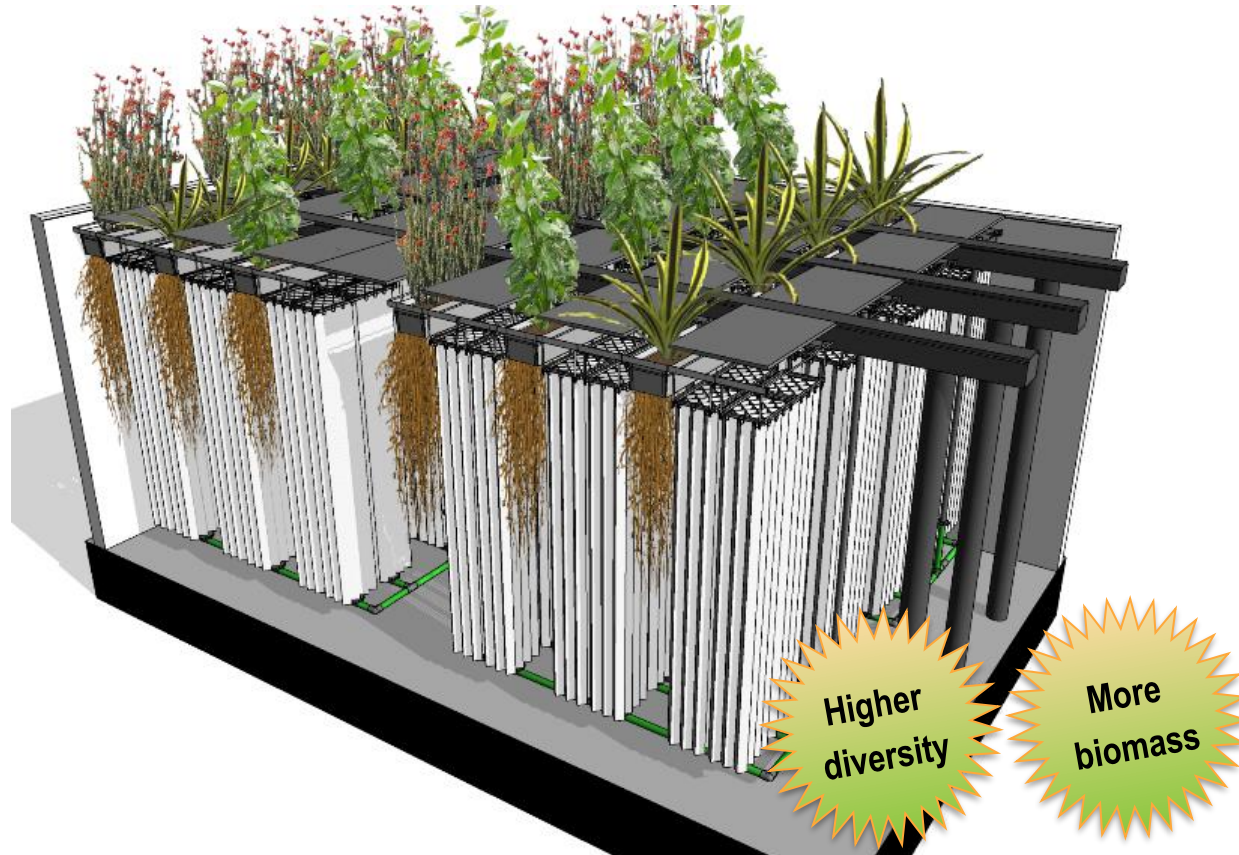




Sechelt Water Resource Centre
5678 SURF CIRCLE



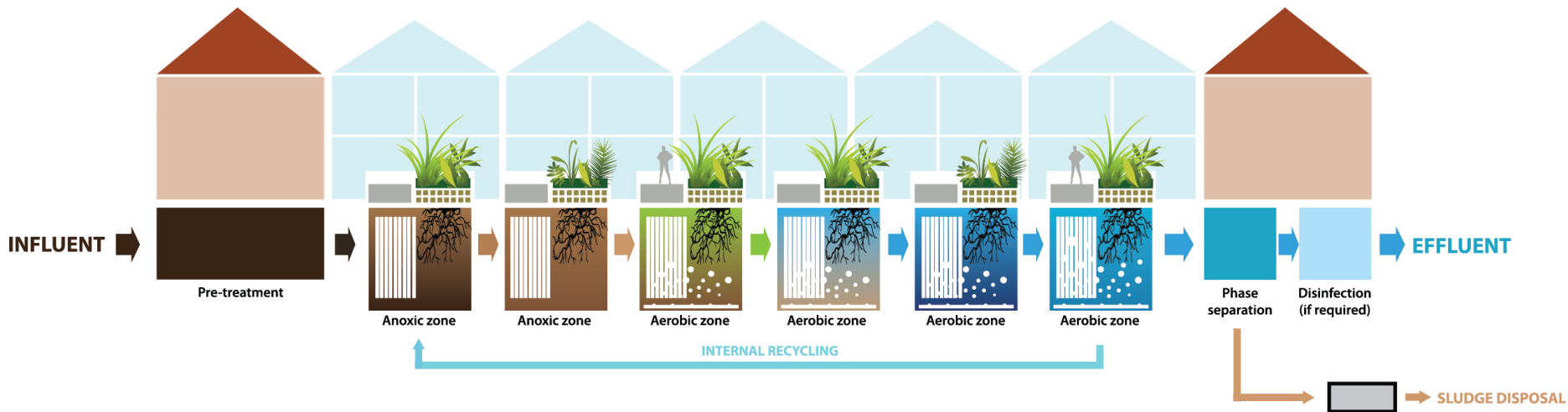
The Food Chain Reactor (FCR)



Higher
diversity

More
biomass

The Food Chain Reactor (FCR)



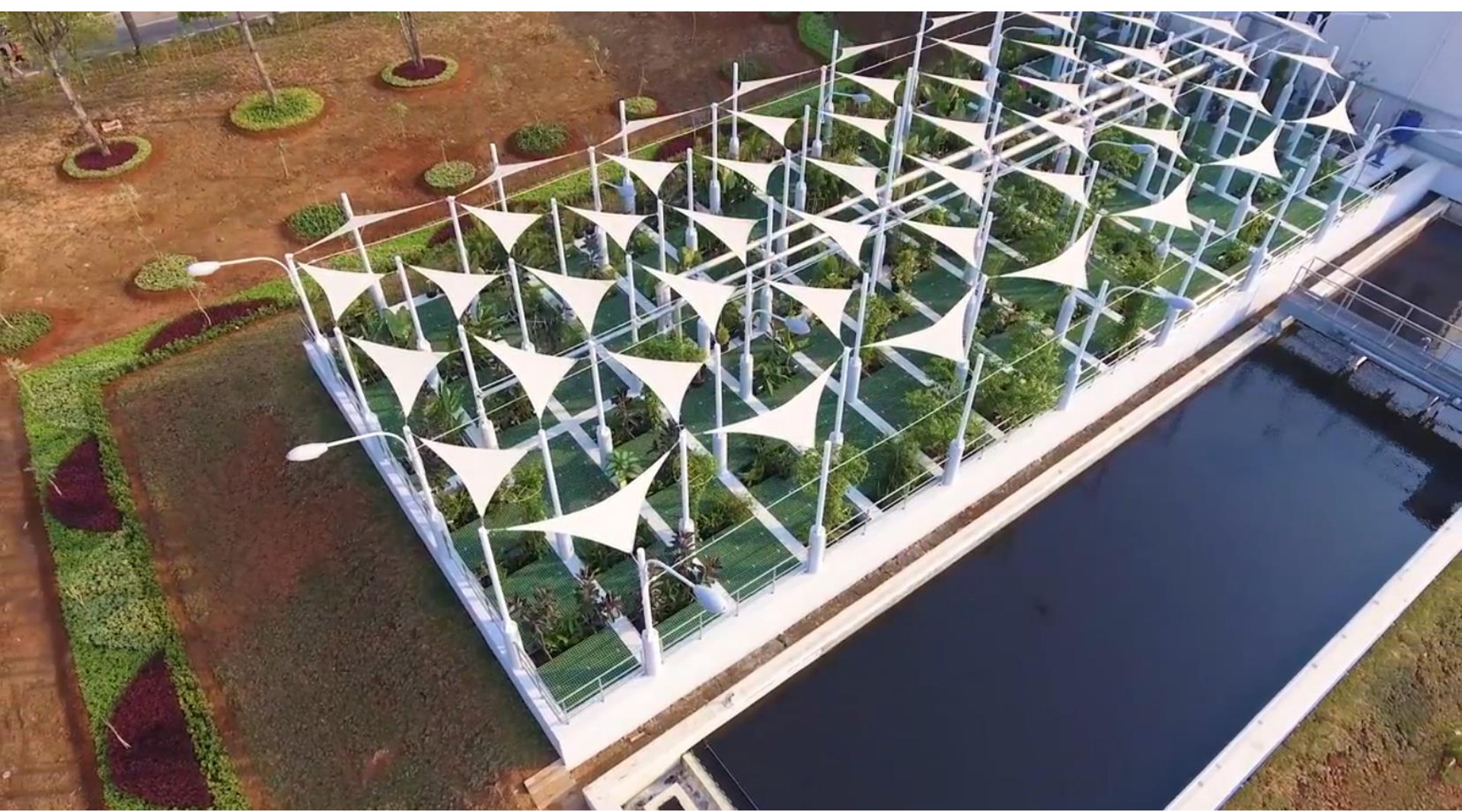














Old CAS Plant - 22 MLD

New Organica plant- 45 MLD

MM 45 MLD



Wang Jia Feng 5000 m³/d





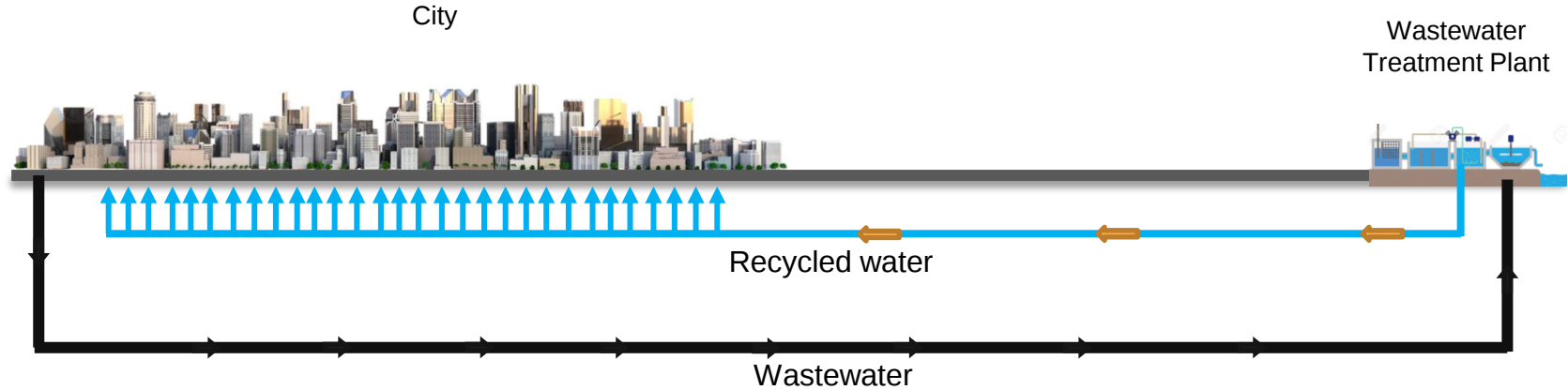


Laguna 6,5 MLD

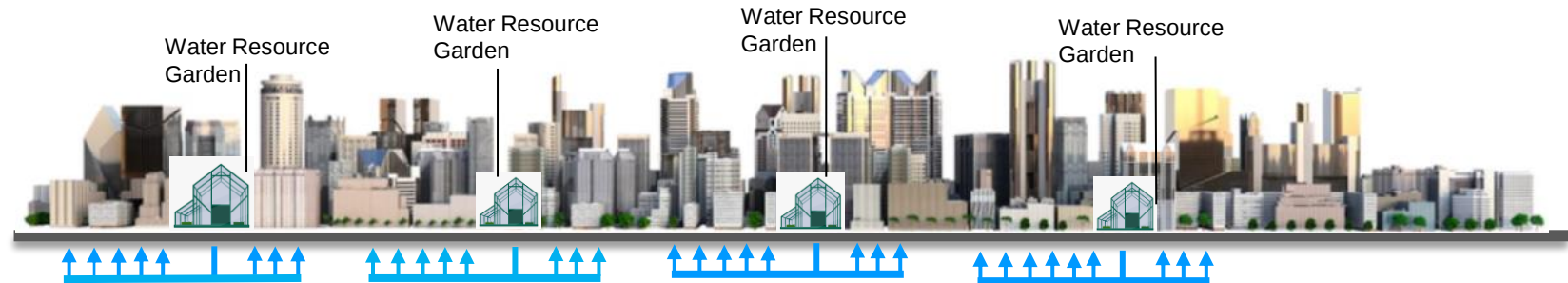




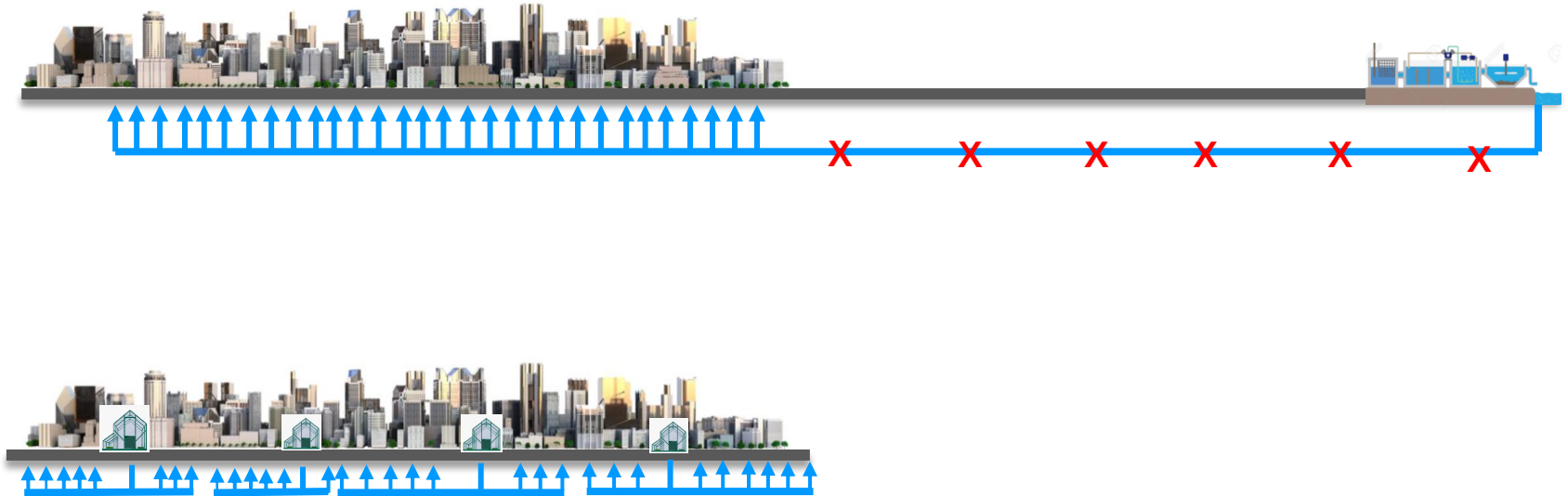
Pumping recycled water from far is expensive



Water Resource Gardens are inside the city thus recycling is more economic



Significant opportunity in providing localized recycled water





**Residential
area**

YOUYI ROAD
RESIDENTIAL
DISTRICT
友谊路

BAOSHAN
宝山区

Wusong Ancient Fort
吴淞古炮台

**Treatment plant
40 000 m³/d**

TANJIAZHAI
潭家宅

BAOSHANXINCUN
宝山新村

International Port

Wusong
Wetland Park
吴淞湿地公园

Google

3D



















NELSON ENVIRONMENTAL INC.
SAUDI ARABIA



ORGANICA



MEET US AT:

جناح رقم: **A20** BOOTH NUMBER:

We are pleased to invite you to attend our Organica Founder Speech on March 8, Session 5, at approx. 9:10 am.

swforum.sa | info@swforum.sa | SaudiWaterForum

Under the Patronage of **HRH Prince Faisal bin Bandar bin Abdulaziz**
Governor of Riyadh Region

وزارة البيئة والمياه والزراعة
Ministry of Environment Water & Agriculture



رؤية
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الجمهورية العربية السعودية
VISION
2030
KINGDOM OF SAUDI ARABIA

منتدى المياه السعودي
saudi water forum **SWF 2022**
Water Sustainability.. A Responsibility for All

THANK YOU



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