

The background of the slide features a dynamic splash of water, with numerous bubbles and droplets captured in mid-air, creating a sense of movement and freshness. The color palette is dominated by various shades of blue, from deep navy to light, airy tones, with a vertical yellow stripe on the far left.

Qua·vac

Vacuflow Vacuum Sewer System



Qua-vac Vacuflow®

Applications

- Sewerage of ribbon developments
- Recreation areas /summer houses
- Marinas
- House boat
- Industrial /Government
- Canal Estates
- Villages /housing development
- Islands



Industrial/Government

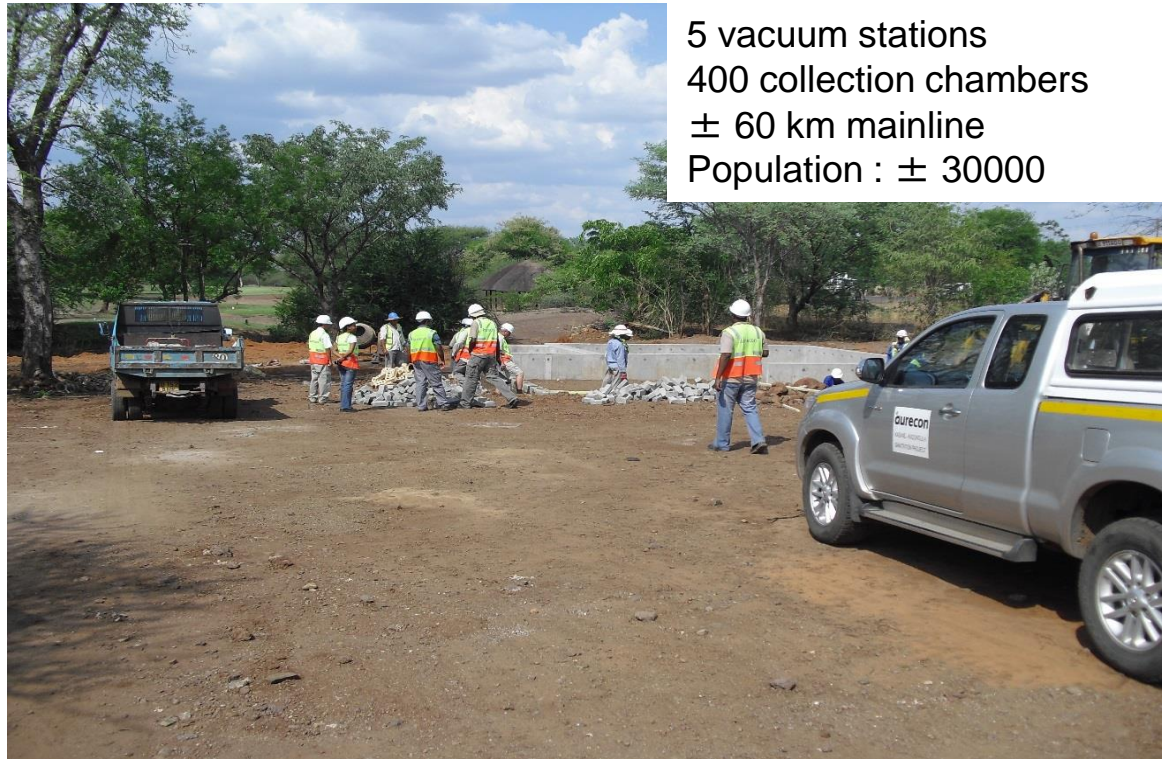
World Wide

- Hyundai Shipyards – South Korea
- Samsung Factory – South Korea
- Canon/Sharp/Nikon - Japan
- Valencia Port - Spain
- Zayed University – Abu Dhabi
- McLaren F1 - UK
- King Abdulaziz Int. Airport - SA



Housing development /Holiday houses

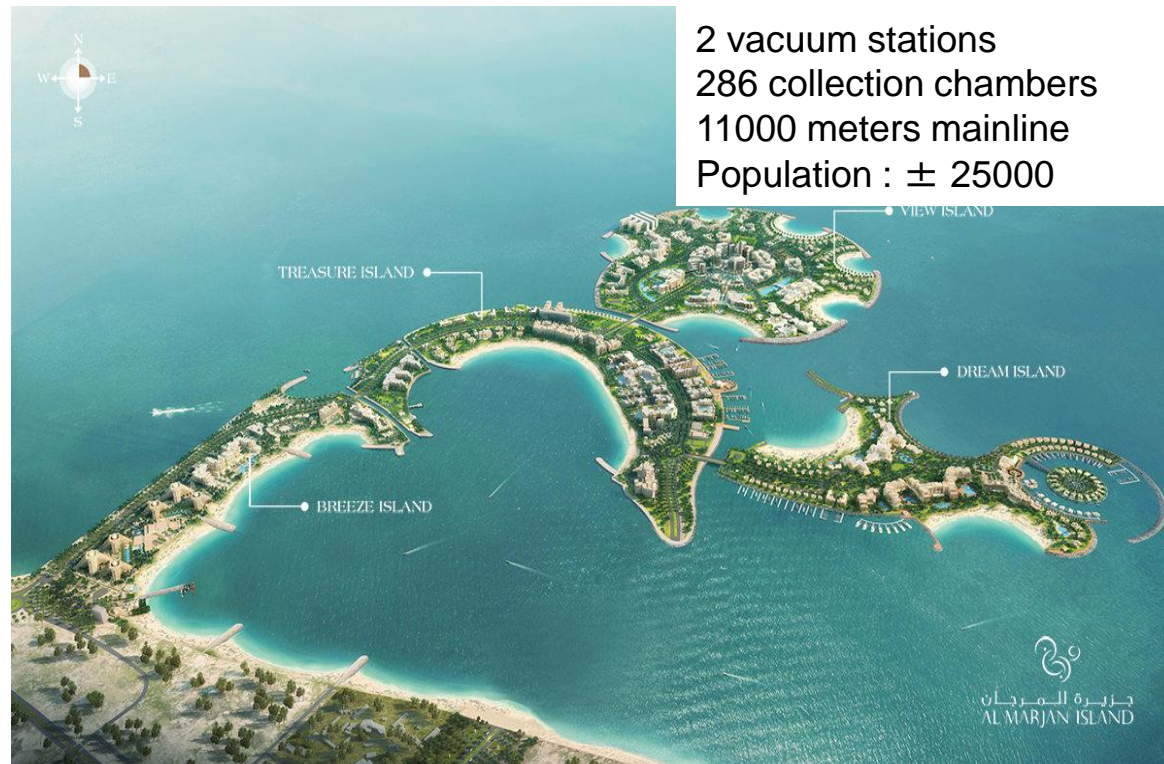
- Seeq/Shiraij - Oman
- Vieksnai - Lithuania
- Graha Natura - Indonesia
- Dragomiresti - Romania
- Barwa Al Khor - Qatar
- Kasane/Kazangula - Botswana



5 vacuum stations
400 collection chambers
± 60 km mainline
Population : ± 30000

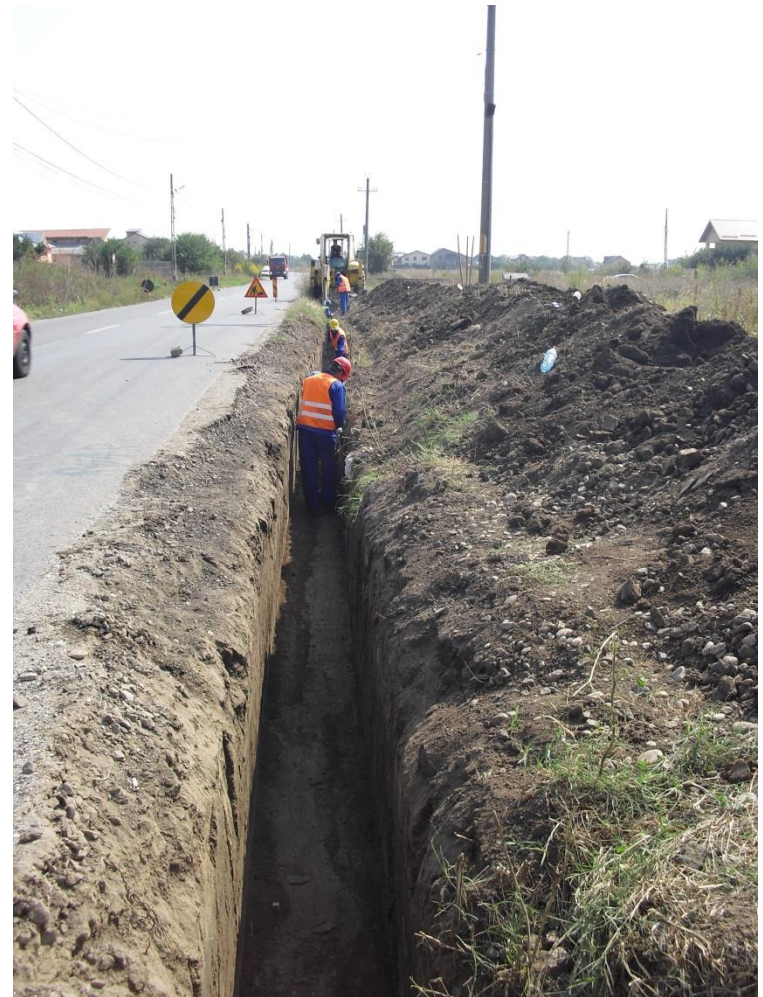
Islands

- Maldives (local islands)
- Amwaj Island - Bahrain
- Al Marjan Island - UAE



Benefits of the QUA-VAC Vacuum Sewage System

- **Low investment costs**
- **Quick excavation**
- **Minimal maintenance**
- **Low energy consumption**
- **Small diameters, 90 – 250 mm**
- **Shallow and no deep trenching**
- **EN1091 certified by Lloyd's register**
- **Flexibility of piping**
- **Flexibility for contractor**
- **Free choice for material chamber by contractor**
- **Environmental system, due to negative pressure**
- **Aeration of sewage**
- **No manholes/inspection points**
- **Buffer volume in vacuum valve chamber**



Gravity



Complex

Numerous lift stations, excessive excavation and trenching costs



Dewatering

Excavating in areas of high water table expensive, dewatering, trench stabilization.



Road obstructions

Wide and deep trenches make road impossible for traffic for long period of time. Damage to trees.



Pollution

Exfiltration can pollute the surrounding area, risk public health



Non Flexible

Unforeseen obstructions usually result in expensive field changes and line re routing



High investment

Gravity pipes are bigger in diameter, costly due to size and high trenching/civil costs



Simplicity

Non continuous slope



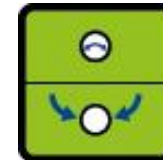
No Dewatering

Numerous lift stations, excessive excavation and trenching costs



NO Road obstructions

Small diameters, just below the frost level. Minimizing construction time and environmental disturbances.



NO Pollution

Never exfiltration possible, environmentally friendly, no risk public health



Flexible

Vertical lift capability allows unforeseen obstructions resulting in minimum delay and extra costs.



Low investment

Small diameters and speedy trenching and laying of the pipes

Vacuflow

QUA-VAC Valves



QUA-VAC Interface unit



**ONLY Equipment
in the market
which is fully
submersible**

By-pass

Connection

Maintenance

No Electricity

EN1091 certified

Buffer volume in vacuum chamber

**Contractor local supply of chamber-
Concrete/PE/PP standard manholes**

QUA-VAC Interface unit

France

UK

Bahrain

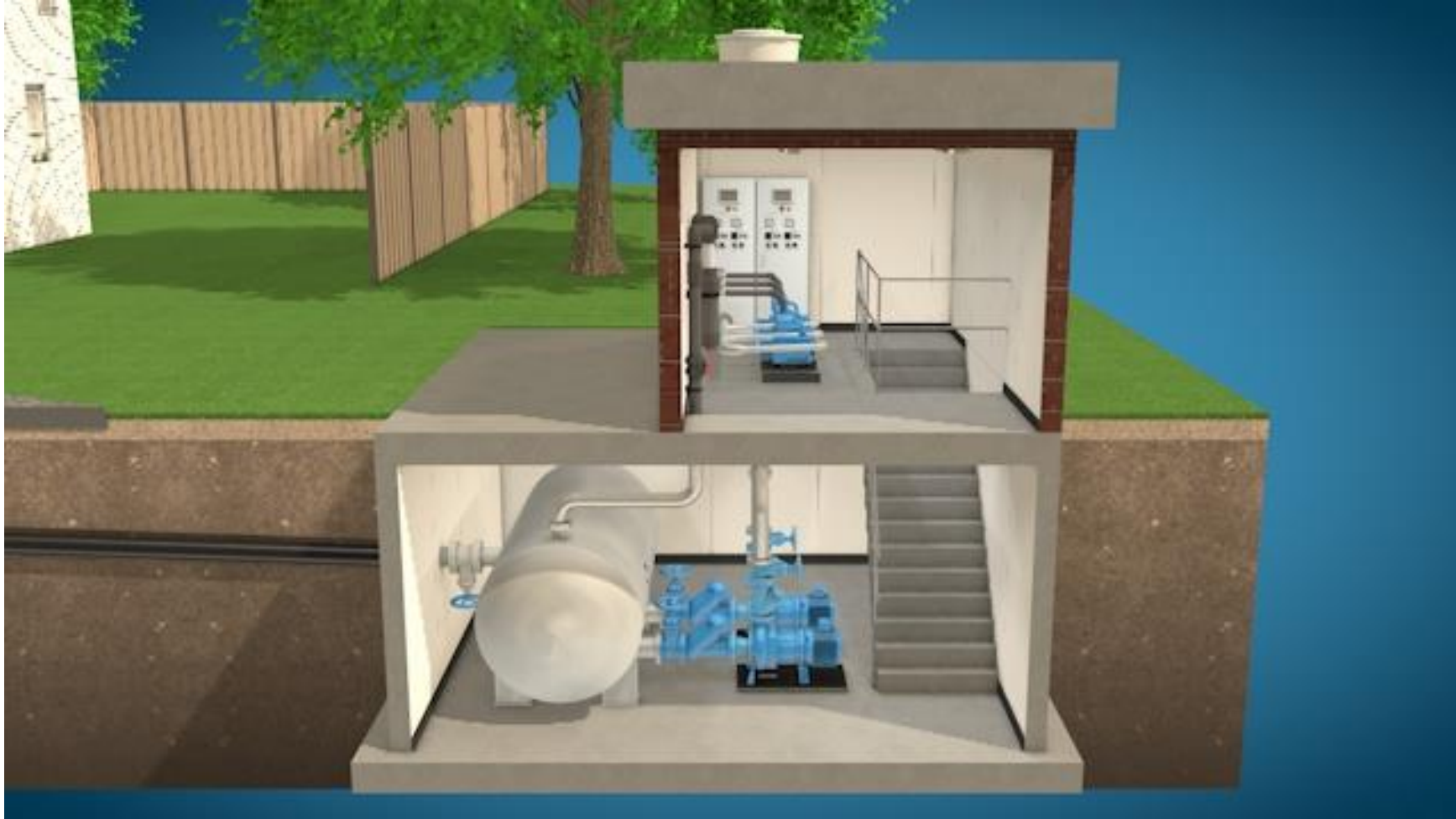
Maldives

Malaysia

Oman



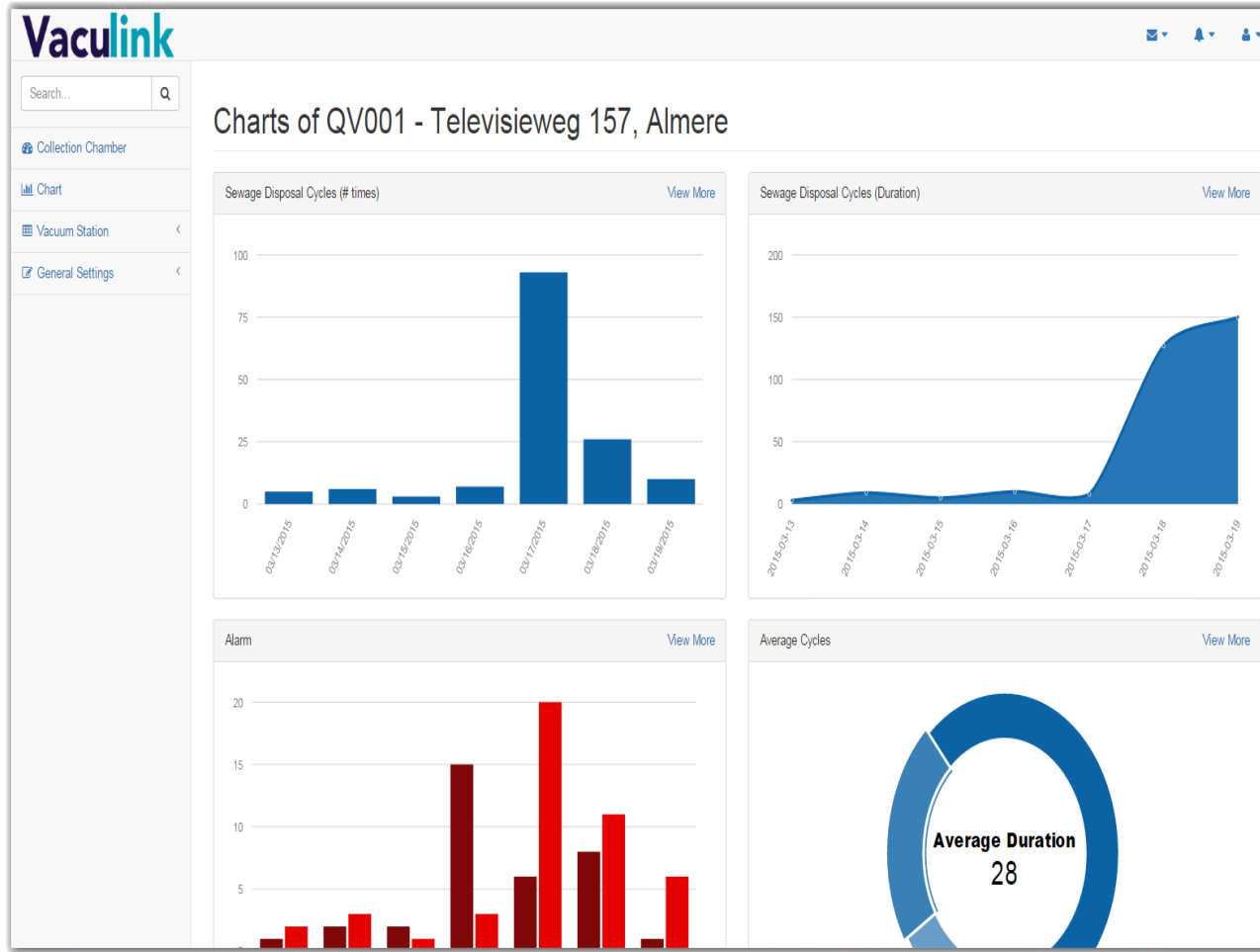
VACUUM STATION



Vacuum pump station

VACULINK monitoring

- Collection chamber monitoring
- High level alarm
- Vacuum valve alarm
- Vacuum station monitoring
- SMS/Email notification
- Wireless or cable system
- Client webportal
- Charts
- Remote control/settings
- Accessible anywhere
- Tablet/smartphone
- Android app



www.vaculink.com

Qua-vac Middle East

Qua-vac has delivered vacuum sewage systems throughout Middle East and to countries and places such as: Sultanate of Oman, Dubai, Abu Dhabi, Ras al-Khaimah, Sharjah, Kingdom of Bahrain.



Dubai



Sultanate of Oman



Abu Dhabi



Abu Dhabi



Kingdom of Bahrain



Abu Dhabi



Ras al-Khaimah



Sharjah



Kingdom of Bahrain

Qua-vac Europe

Qua-vac has delivered vacuum sewage systems throughout Europe to countries and places such as: The Netherlands, United Kingdom, France, Belgium, Germany, Sweden, Denmark, Austria, Switzerland, Hungary, Italy, Greece, Spain, Poland, Lithuania, Romania, Ukraine.



Romania



United Kingdom



Lithuania



Belgium



The Netherlands



France



Austria



Spain



Poland

Qua-vac Asia

Qua-vac has delivered vacuum sewage systems throughout Asia to countries and places such as: South-Korea, Japan, Malaysia, China, Singapore, Hong Kong, Indonesia, Maldives



Maldives



Malaysia



Maldives



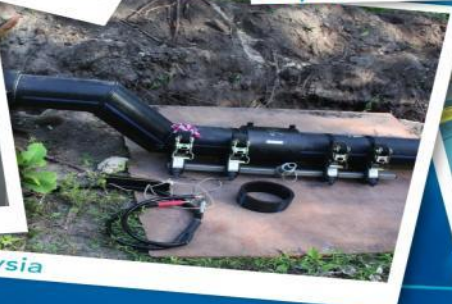
Indonesia



Japan



China



Malaysia



South-Korea



Singapore