

# THE MEKOROT

Resilience in Light of Climate Change

Amit Lang | CEO | Mekorot





Israel National Water Co.



Infrastructure investments: \$460 million per annum



Rating: AAA IL



Revenue: \$1.5 billion per annum



Group Employees: 2,000



### Facts and Figures about



### Facts and Figures about ( MEKOROT





13,000 km of water pipelines



Over 1,000 active wells drilled



**Supplies 70% of the total water** consumption in Israel



3,000 production and supply installations



10 command and control centers



9 wastewater purification facilities and reclamation plants



Integrating 600 million m3 of desalinated seawater per year



desalination plants



1.8 billion m3 of water supplied per year (423 billion gallons)

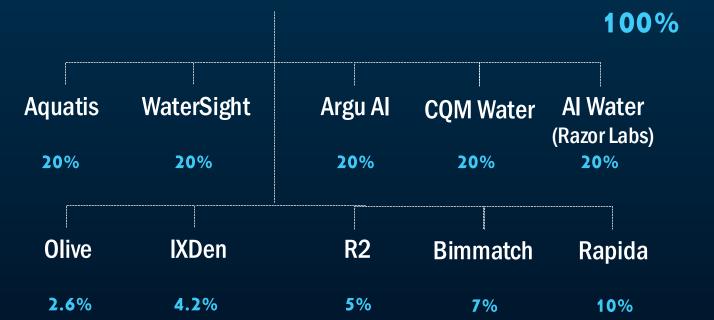




#### EMS Mekorot project

#### Mekorot Development & Enterprise

99.7%





**Water Supply** 

**Water Treatment** 

**Desalination** 

Hydrology and Drillings

Integration Water Resource Management

**Sustainable Development** 

## All solutions under one roof

Wastewater Treatment and Reclamation

Water Quality

Flood Catchment

Water Security and Safety

Command and Control Operational Models

#### A Digital Revolution-Command and Control





### Start-up nation



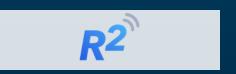
Onsite electro-chlorination system



IoT cyber security



**Spectral sensor** 



Cyber and RF detection



Predictive maintenance of rotating equipment



Predictive maintenance of pipe conditions



Concrete inspection platform



Biosensors for continuous monitoring



**Smart camera agents** 



**Digital planning platform** 

Will be published soon!





# International Business Activity



#### ( International Business Activity



Argentina | Azerbaijan | Bahrain | Chile | Cyprus | Dominican Rep | India | Kazakhstan | Mexico | Morocco | Peru | Uruguay



#### Extreme climate events in Israel



**Droughts** 





**Extreme** heatwaves





Floods





**Storms** 





**Wildfires** 





**Earthquakes** 



#### Mekorot's Approach Strong Infrastructure

Various Water

Sources

Alternative Energy Sources

Climate-Adaptive

Approach



#### Various Water Sources

Israel's Unique Advantage









(Surface water)





#### Heatwave during 2023







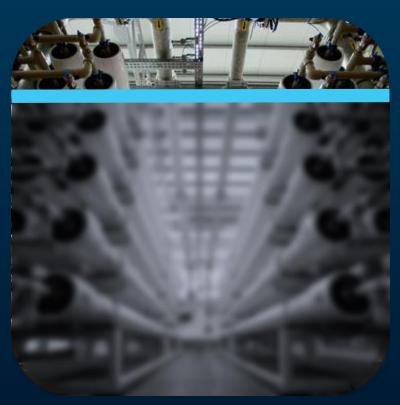








#### Simultaneous extreme events













## Mekorot's Approach Strong Infrastructure

Various Water

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Climate-Adaptive

Approach



#### Alternative Energy Sources



**Generator Deployment** 



**Energy Storage** 



**Power Stations** 



Hydrogen Technology

## Mekorot's Approach Strong Infrastructure

Various Water

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Climate-Adaptive

Approach



#### Climate-Adaptive Approach

#### Climate Change Risk Management



Dedicated
Climate Change
Administration



GIS Maps and an Interactive Dashboard



Climate-Adaptive Planning



# From an Emergency to an Opportunity



#### 'Israel is drying out again': **Water Authority relaunches** conservation campaign

Entering sixth year of drought, Israelis urged to limit water use as climate change, growing population strains resources

By DAVID SEDLEY

22 May 2018, 7:39 pm | 3 2











In this September 16, 2017, photo, a swimmer participates in the annual Sea of Galilee swim. (AP Photo/Oded

### srae is drying up



## srael is thriving



#### An Ocean of Opportunities

