



Berlin Water Dialogues
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Transforming the future of water

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Investing to build the leading platform for technology solutions to environmental challenges



Interdependent water challenges



Our water commitments



Water positive
by 2030

Digitizing
water data

Influencing
policy

Empowering
our customers



Water Resilience Coalition

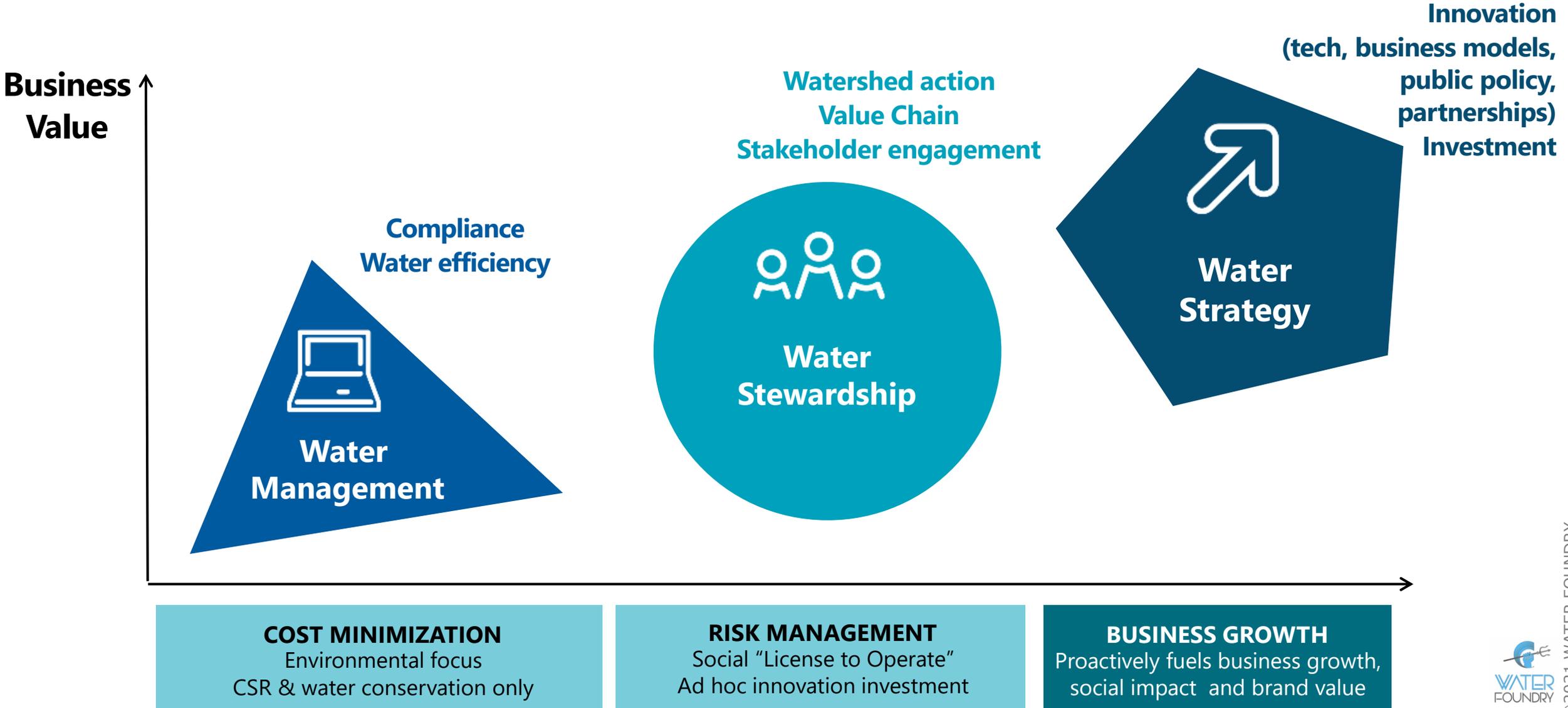


An initiative of the United Nations Global Compact CEO Water Mandate. Founded by seven companies, including Microsoft, the coalition has since grown to 18 industry-leading corporations, all of whom have pledged to work collectively on water issues.



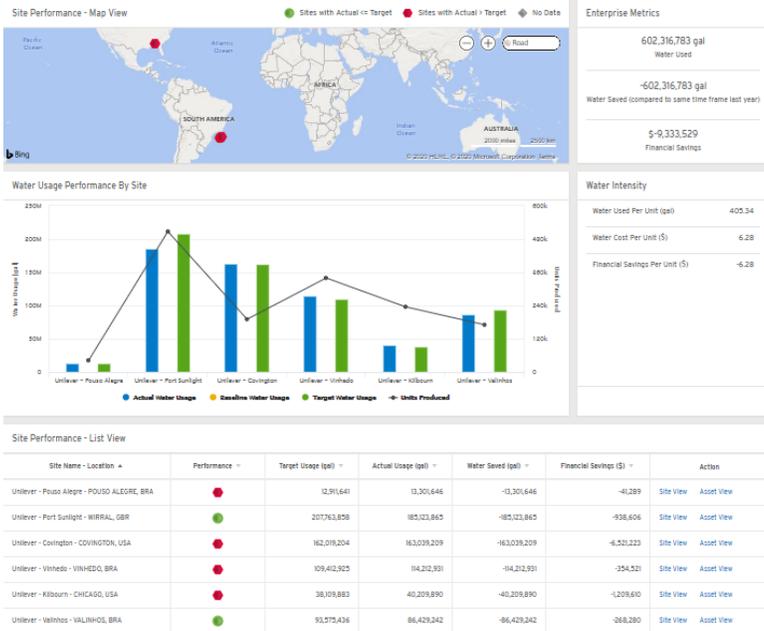
Water Strategy Maturity Model

Creating Value Beyond Stewardship



Partnership story: Microsoft and Ecolab

Microsoft and Ecolab team up to save water, drive manufacturing efficiencies



Water scarcity is a growing problem that demands action from large organizations. The partnership between Microsoft and Ecolab delivers new water management solutions that conserve water and increase efficiency. It's brought to life by the Ecolab ECOLAB3D secure cloud-based digital platform, which combines Ecolab's advanced water performance system 3D TRASAR with the global reach and data-driven insights of Microsoft Azure.



Unlock water data

Ecolab delivers actionable insight around water usage to help optimize operations while positively impacting the world.

Reduce operational costs

By 2030, Ecolab will help its customers conserve 300 billion gallons of water, while also reducing water, energy, and waste costs.

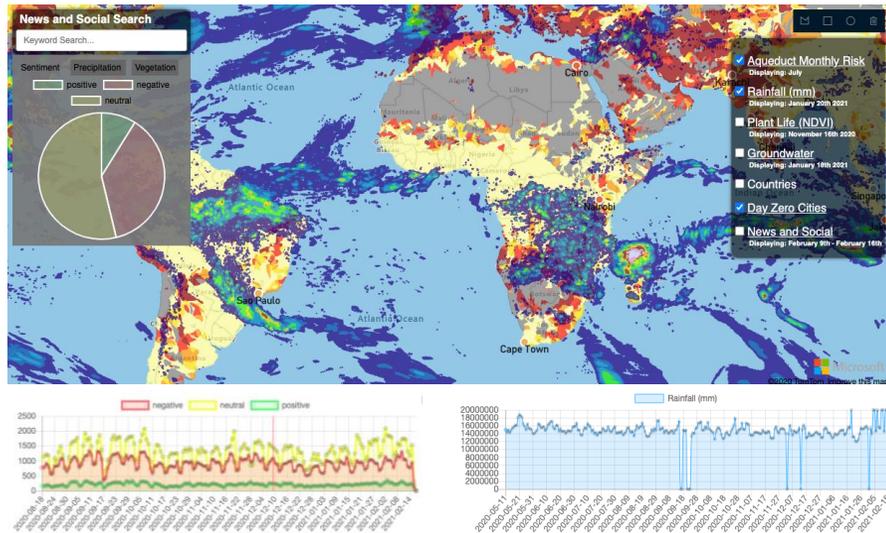
Help save the planet

Ecolab uses Azure to help extend the reach and breadth of its offerings to address world water scarcity.

Partnership story: Microsoft and Vector Center

Microsoft and Vector Center: Perception vs. Reality

A common operating platform for water



Spotting patterns and trends faster for better decisions by combining:

- **Trusted “reality” data**
- **Social and sentiment analysis**
- **On-the-ground context**

“Perception Reality Engine” captures and analyzes data from the ground up — from social media, news coverage, and original on-the-ground reportage, to peer-reviewed research and satellite tracking and monitoring.



AI-Powered tools for insight
Realtime and near-realtime contextualized intelligence for decision-makers about water and intersecting threats around the globe.

Improving foresight
Informing operational, capital, reputational, governance, and supply chain risks; revealing CSR, thought leadership, and collaborative impact opportunities.

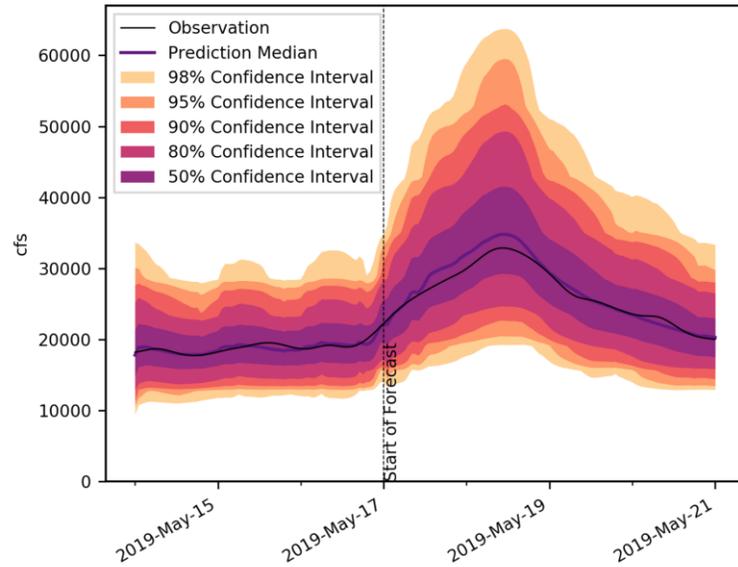
Aligning actions with AI
Vector Center uses Azure to help the world respond faster to complex risks and take coordinated action with relevant intelligence.

Partnership story: Microsoft and Upstream Tech

Microsoft and Upstream Tech predict river flows



Dworshak Dam (USACE-DWR)



Climate change is water change, resulting in shifts in flow regimes and an increase in extreme weather events. From hydropower operations to planning conservation for an endangered freshwater species, better information is needed.

HydroForecast predicts near-term and seasonal flows for any river with newfound accuracy, leveraging a theory-guided AI approach, satellite imagery, and Azure's cloud.



A Coordinated Hydropower
HydroForecast enables organizations like ENGIE to optimize generation, maximize safety, and move towards a 100% renewable grid.

Conservation in Ungauged Basins

Organizations like The Nature Conservancy use HydroForecast to understand flow regimes where there are no gauges.

Designed for Change

AI for climate change must be designed for climate nonstationarity. HydroForecast does so through massive cloud compute and physical theory.

Customer story: Grundfos

Pioneering solutions in world water challenges



Grundfos is a Danish company with big goals – to pioneer solutions to the world water and climate challenges and improve quality of life for people. Grundfos collaborates with Microsoft to support their transformation as a digital services company and to deliver these solutions to customers. By 2030, they intend to help provide basic drinking water access to 300 million people in need and enable end users to save 50 billion cubic meters of water.



Unlock innovation

Use intelligent cloud services enabling automation and controls to optimize the process of heating water

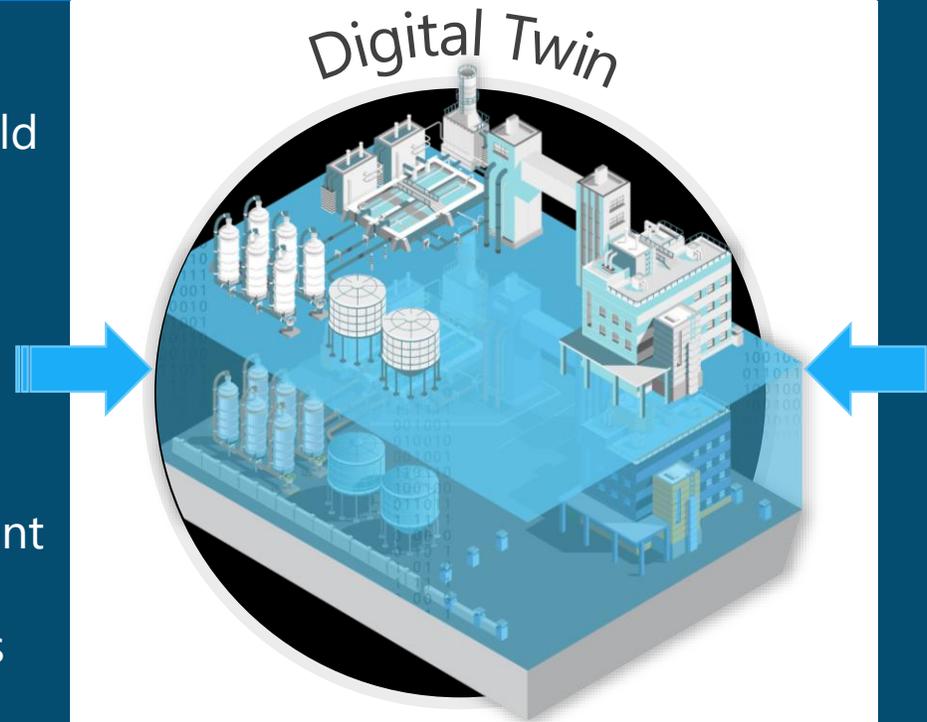
Achieve efficiencies

Reduce heat losses by 20% – reducing energy consumption, while reducing costs to end users and extending network lifespans

Customer enablement: Partnership on Infrastructure Digital Twins (iTwins)



- Hyperscale cloud platform
- Flexible Modeling for real-world things, places, business processes, and people
- Maps
- Business Intelligence
- IoT, Operations and Business Data
- Dynamic execution environment for live business logic
- Advanced AI & ML capabilities
- HoloLens



- Reality Modeling
- Terrain & Subsurface Modeling
- Engineering Data
- Analytics and Simulation
- 2D/3D Design Review
- 4D/5D Construction Modeling
- Immersive Visualization (VR/AR/XR)
- Immersive Digital Operations

Thank you

