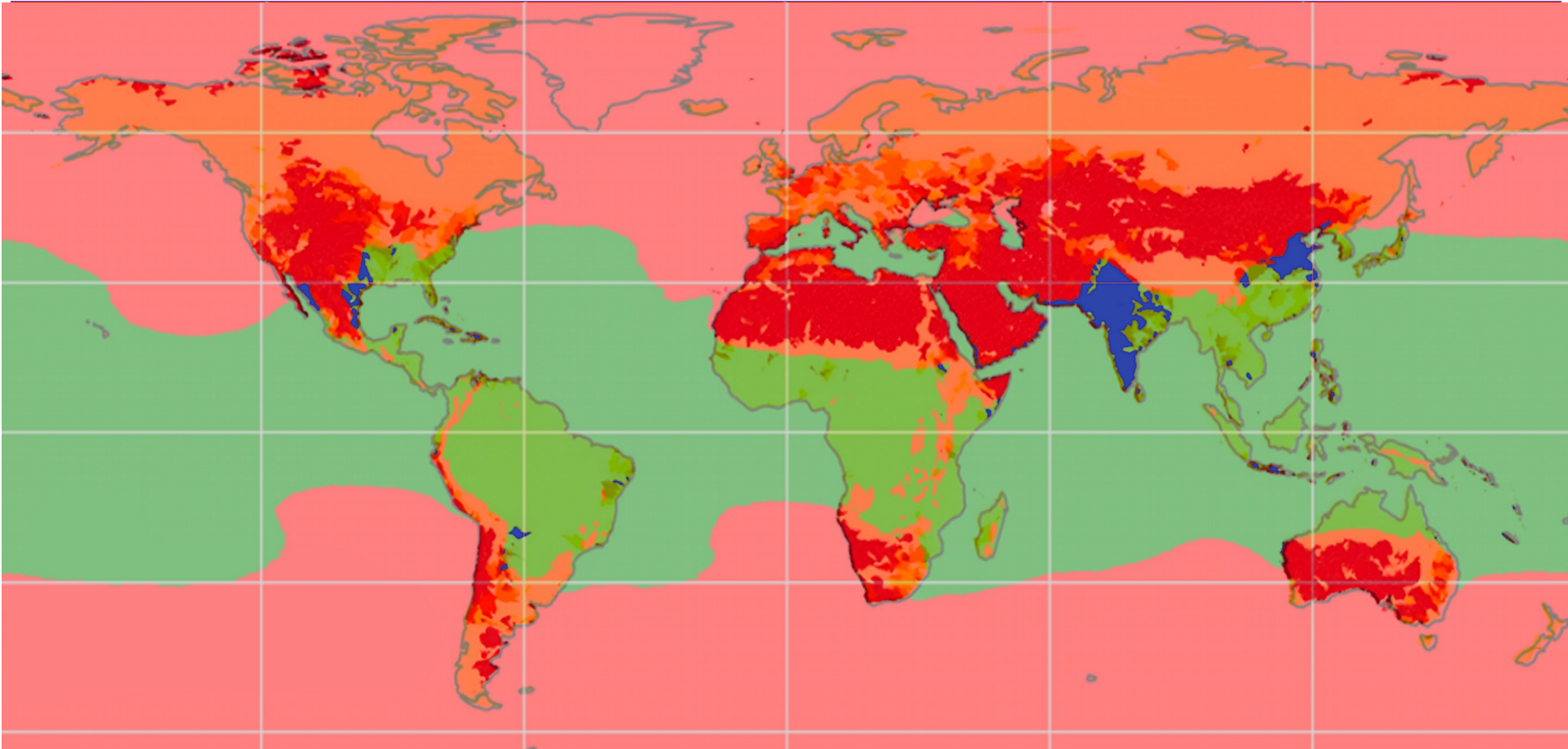




Pure Water From Air...
Anywhere

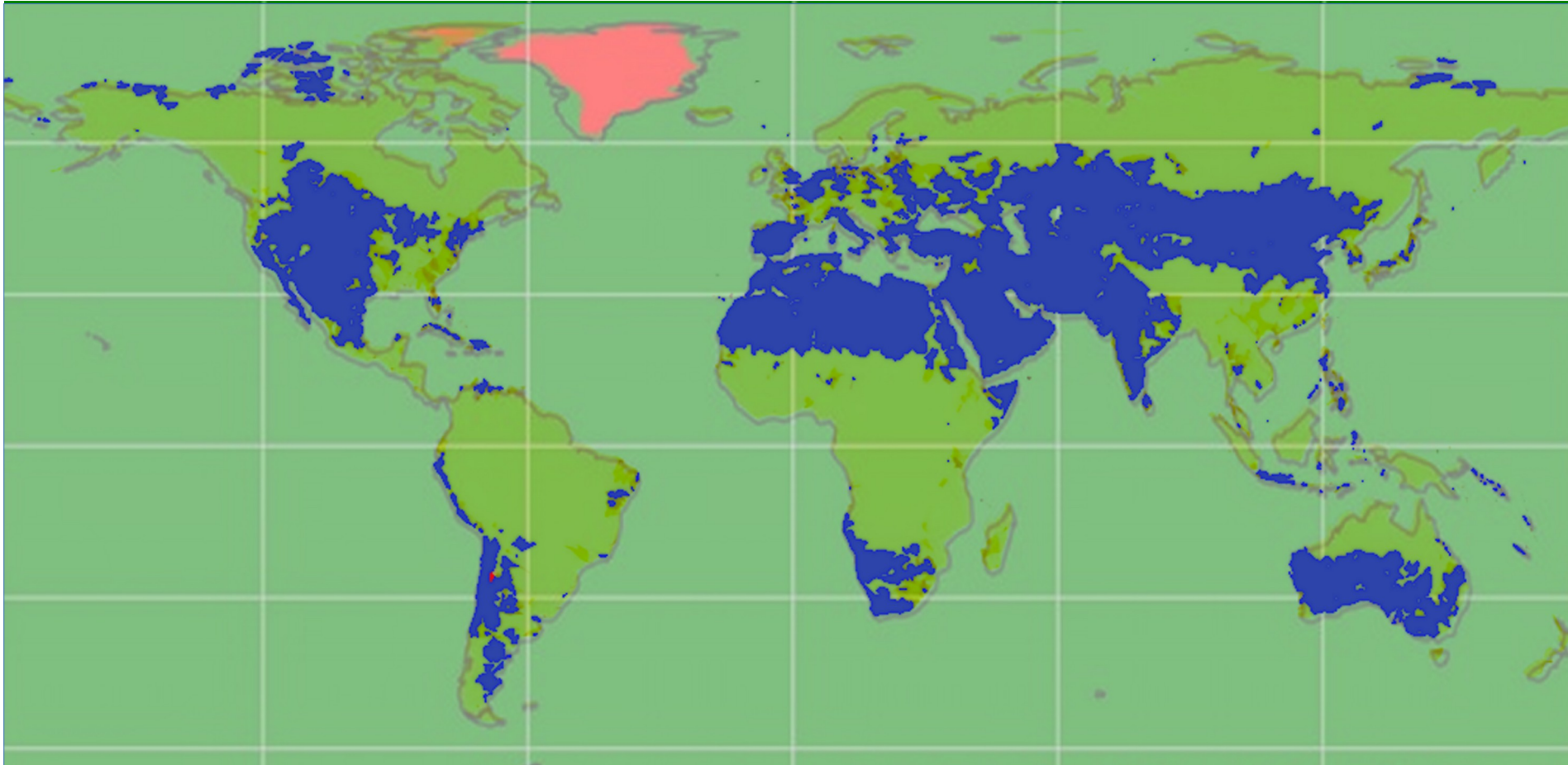


Problem: Current AWG Systems Can Reliably Meet Only 90% of Design Capacity in 6% of Water Stressed Areas



5.9%

Solution: WaHa Vaporator® Systems Can Meet > 90% of Design Capacity in ~100% of Water-stressed Areas

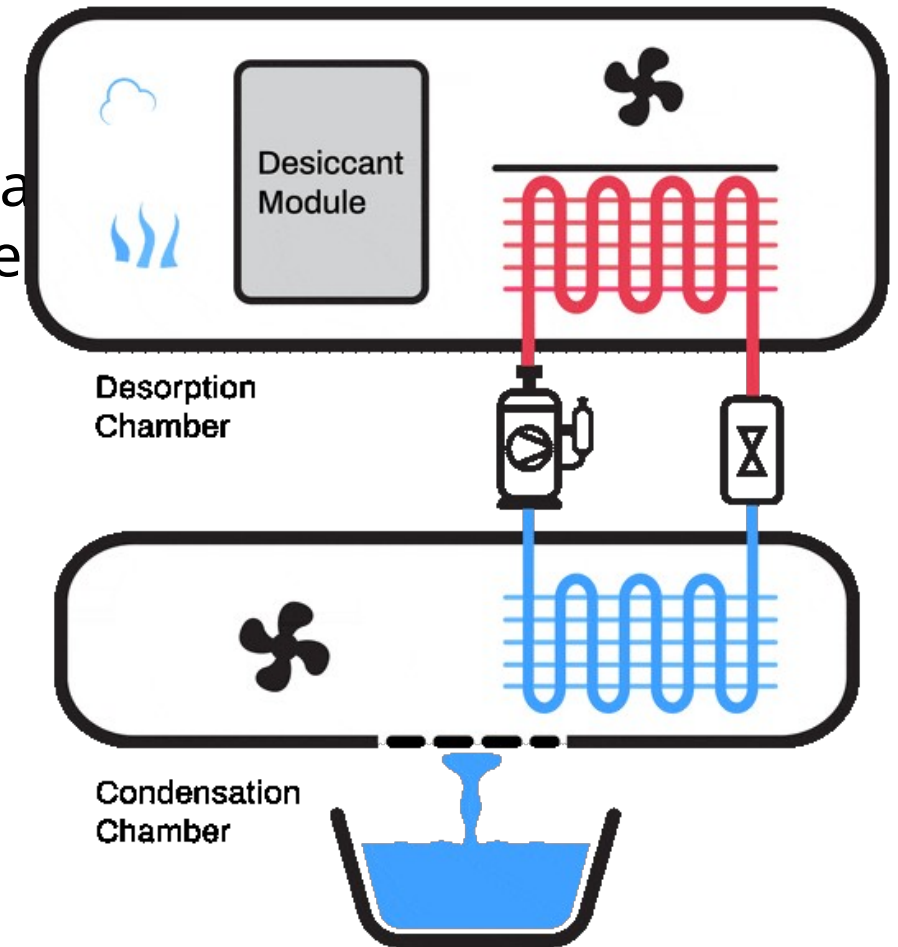


99.9%

The WaHa Vaporator® - An Engineering Breakthrough in Solid Desiccant Regeneration Efficiency



- Utilizes a high-efficiency heat pump vs. energy-intensive electric resistive heat or natural gas-fired heat
- Proprietary MOF matrix construction for the D module
- Works in all climates (-20°C to 55°C, 7% RH+)
- Built primarily with off-the-shelf components
- Waste heat is a viable energy source, but it is site-dependent
- Patent portfolio: 14 families, 22 grants



Traction and Validation – WaHa Vaporator®24L Envisioned Product Line



Personal
4-16 L/day

Point of Use
20-50 L/day

Mobile
50 L/day

**Residential/
Commercial**
100-300 L/day

Industrial
1-20K L/day



- **Indoor Integrated Pre-production Prototype 25L**
- **Unveiled at WETEX 2025, Dubai**
- **Followed >1 Year of Rigorous Third-party Testing of an Engineering Prototype Outdoors At Khalifa University Under the Auspices of TAQA**
- **25 Preorders Secured For Commercial Trials**
- **Large orders on the horizon**

Representative Applications and Early Use Cases



Built Environment

- **Drinking Water**
- **Air Conditioning**
- **Indoor Air Quality**
- **Real Estate Development**

Agriculture

- **Traditional Agriculture**
- **Controlled Environment Agriculture**
- **Food & Grain Drying**

Industry

- **Specialty Dehumidification**
- **Compressed Air Energy Storage**
- **Make-up Water for Data Centers**

Medical

- **Medical Device – Dialysis Water**
- **Sterile Water for Injection**

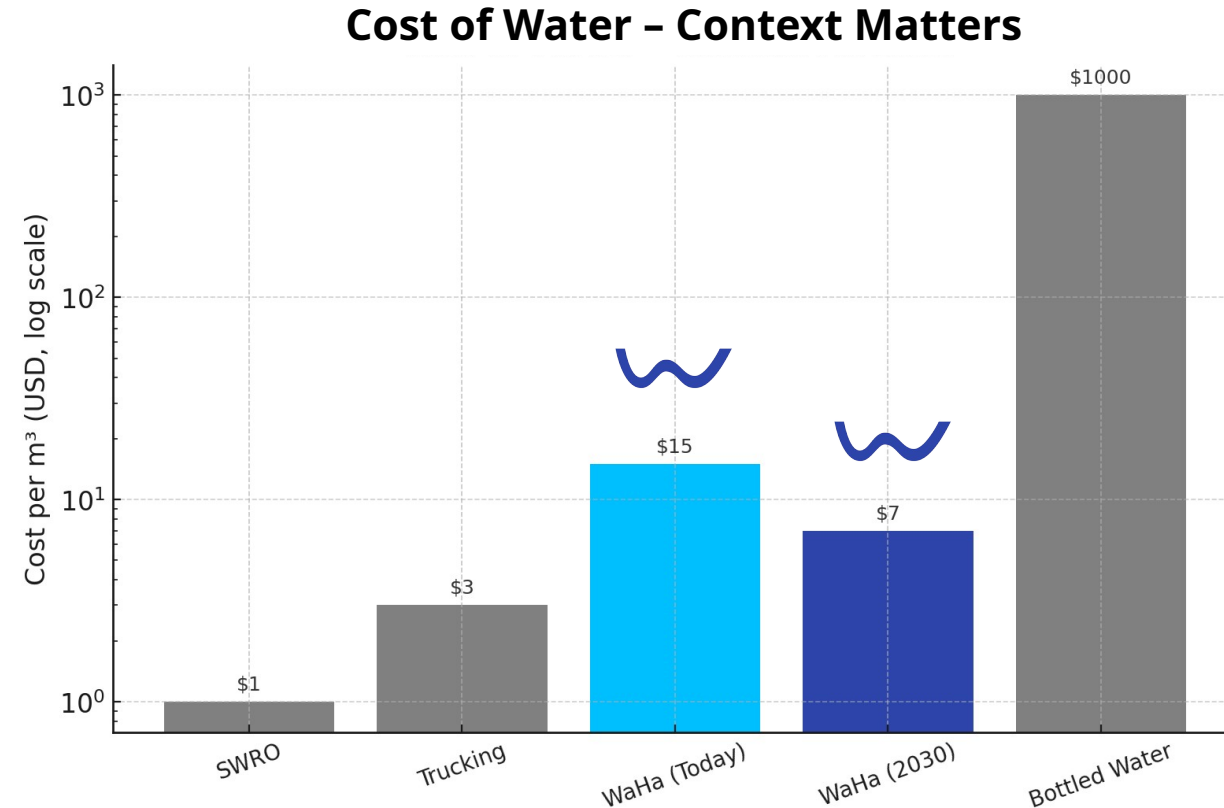
Defense & Resilience

- **Military**
- **Disaster Relief**

Competition and Economics of Produced Water

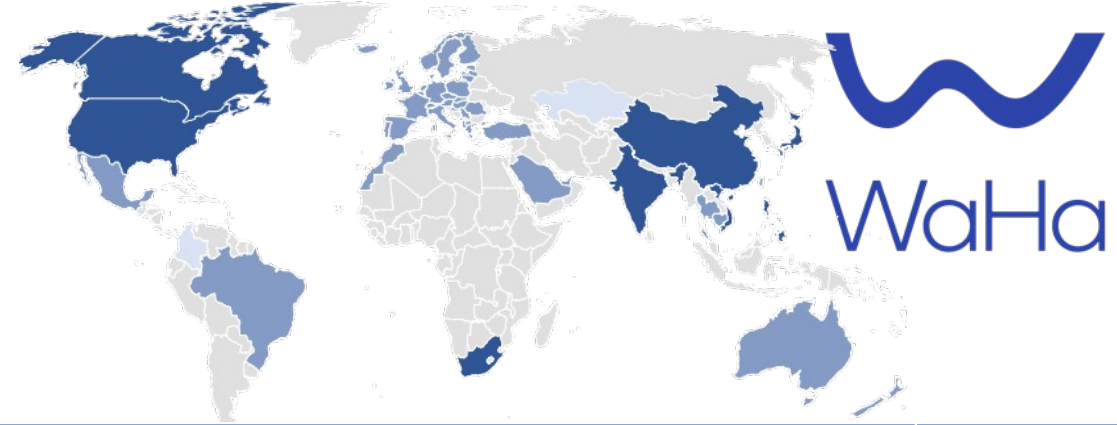


- **SWRO** – \$0.50–\$1.00/m³ (but only with billion-dollar plants + pipelines)
- **Bottled water** – \$500–\$2,000/m³
- **WaHa today** – \$15/m³, target <\$7/m³ by 2030
- **Context matters** – LCOW is only one dimension
 - Purity and Taste
 - Resilience
 - Speed and Flexibility
 - Scalability



Not competing with municipal water — solving a different problem.

Competitive Edge: Burgeoning Patent Portfolio



Patent Family	Description	Grants
Metal Organic Frameworks & MTV Strategy for Water Capture	Compositions using multivariate and single-linker metal-organic frameworks for gas/fluid containment, water harvesting, and purification. Combines 3 individual patent families from UCB.	7
Heat Pump Based Water Harvester	Energy-efficient water harvesting system using heat pump technology.	2
Two Chamber Water Harvester	Dual-chamber water harvester for standalone or integrated operation in refrigerated appliances.	2
One Chamber Water Harvester	Compact, fully enclosed single-chamber water harvester.	1
Climate-Adjustable Water Harvester	Water harvester with selectable adsorption thresholds based on energy cost and water availability.	3
High Efficiency Water Harvester	Water harvester with concurrent mode switching for minimal energy requirements.	1
Dehumidification-Humidification System	System for dehumidifying and humidifying outdoor or recirculated indoor air.	
Reduced Energy Cost Water Harvesting System	Implementation of a passive heat exchanger in a water harvester designed to reduce heat penalty and energy cost per liter of water collected.	1
Low Dew Point Air Dehumidification System	System for generating atmospheric and other gases with very low dew points.	
Cold Start Water Harvesting System	Subcool coil to initiate start of the water harvester.	
Water Harvester Adsorption Enthalpy Removal System	Separate latent heat from sensible avoiding heat release into the air stream.	1
Desiccant Composition & Assembly	Desiccant formulations for low sensible heat penalty and high-water capacity and assembly process for desiccant modules.	
14 Patent Families (11 owned + 3 UCB licensed)		24 Grants 60 Pending

Competitive Edge: Growing Portfolio of Global Partners



Sales



Academic



Water



MOF Synthesis



Dehumidification



Air Conditioning



Engineering



Competitive Edge: Leadership Strength

Visionary Founder

Professor Omar M. Yaghi

- 2025 Nobel Laureate in Chemistry for Work on MOFs
- James and Neeltje Tretter Chair, University of California, Berkeley
- Professor of Chemistry, UC, Berkeley

Board

Michael Phillips, JD (Chair)

Christian Thirion, PhD

Sudhir Joshi, PhD

Laura Smoliar, PhD



Leadership Team



Frank R. Ramirez, JD, MBA

CEO & Board of Directors

Founded, led, and built 3 companies, pioneered thermal energy storage market and raised \$140M in capital



Chris Kay

President

Started & built 8 companies. 2 successful exits
Led multiple teams in R&D, Consulting, Quality, and IT @ HP



Eugene Kapustin, PhD

CTO

Novel desiccant design & synthesis. Desiccant regeneration expert
15 patents



David S. Kuo, PhD

EVP, Engineering

Thermal Science Heat Transfer expert, Adv. Product Design
120 Patents



Dan Chandler, PhD

COO

30+ years in product commercialization and engineering
Scaled global operations, led 400+ successful product launches

A high-speed photograph of a water splash against a black background. The splash is illuminated with a blue light, creating a central column of water rising from a point of impact, with concentric ripples above and a turbulent, bubbly structure below the surface. A solid blue wavy line is positioned to the left of the central water column. The text 'WaHa' is written in a blue, sans-serif font, partially overlapping the central water column and the wavy line.

WaHa