



DeserTech

Climate Technologies Community



Dry Lands



46.2%

of the Global Land Area



20%

of the World Population

Desertification



Water Stress



Habitat Degradation



Drought Intensity

by
2025

1.8 billion people will experience
absolute water scarcity

2/3 of global population will be living
in water stress conditions

The Negev

Living Laboratory of Science and Technology



Regional R&D Centers



Academic Institutes



Technologies



Industry

Our Mission

- Promoting the development of technologies that address global desertification challenges and that leverage the desert's unique assets
- Adapting existing technologies to the specific needs and unique assets of arid or semi-arid climates
- Positioning Be'er Sheva and the Negev region as a global entrepreneurial center of these technologies



Who we are



Catalyst of Change

Promoting DeserTech
Ecosystem

-

Connecting Stakeholders

-

Implementing Technologies
in Real Life Setting



National and Global Community

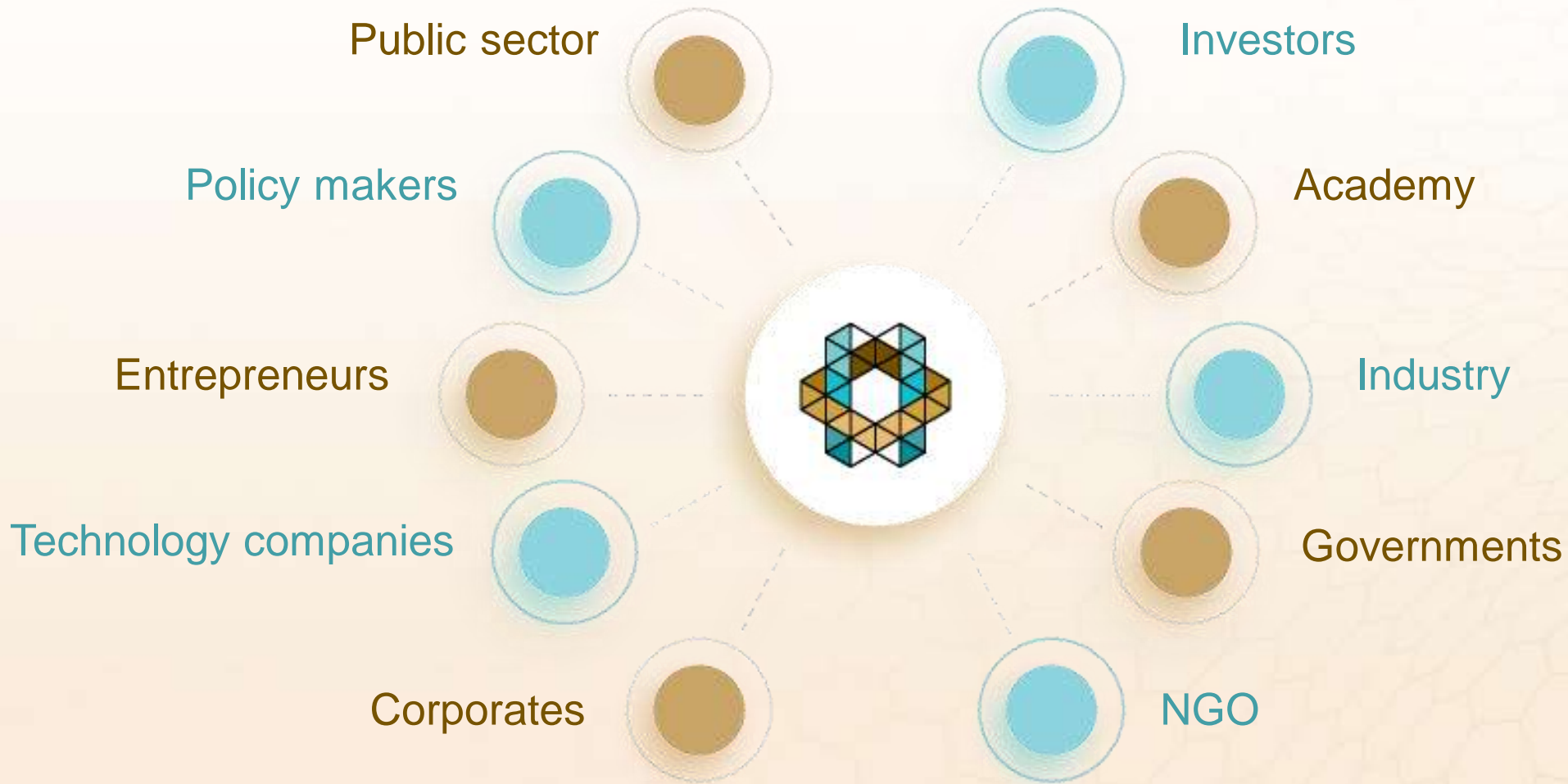
Based in Be'er Sheva, Israel



Growth Engine

of The Innovation District in
Be'er Sheva

DeserTech Ecosystem



DeserTech verticals



Water Tech



Infrastructure



Renewable Energy



Desert Agriculture

Global Desert Challenges



Extreme Climate

Acute Temperature Shifts

Sand/ dust Storms

Wildfires (Semi-Arid)

Sun intensity



Water Scarcity & Availability

Water quality & quantity

Droughts

Water Contamination



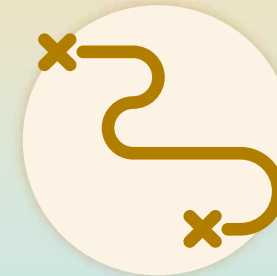
Land Degradation

Soil Salination

Erosion

Flash Floods

Soil Contamination



Remote & Marginal Living

Decentralization

Lack of access to basic needs and livelihoods



Extreme Climates

Acute temperature shifts | Sand / dust storms | Wildfires (semi-arid) | Sun intensity

- Indoor farming
- Crop adaptation
- Desert aquaculture
- Livestock management
- Innovative foods - desert novel ingredients

- Water reservoir management

- Solar energy generation
- Solar energy sites: management & efficiency
- Indoor climate control & energy optimization
- Energy storage

- Construction materials: thermal comfort | resilience | energy efficiency
- Bioclimatic urban planning: shading | cooling | urban nature
- Fire mitigation
- Sand / dust storms management
- Urban flash floods management
- Climatically safe open spaces
- Extreme weather events forecast



Water Scarcity & Availability

Water quality & quantity | Water Contamination | Droughts

- Brackish water irrigation and management
- Sustainable treated wastewater irrigation
- Smart irrigation

- Brackish water desalination
- Water disinfection
- Wastewater treatment and desalination
- Contamination rapid sensing and detection
- Groundwater contaminants management
- Fresh water generation
- Water saving systems

- Energy efficient brackish-water desalination
- Desalination-solar hybrid system
- Energy-harvesting wastewater treatment

- Freshwater storage and management
- Leakage prevention

Agriculture

Energy

Water

Infrastructure



Land Degradation

Soil Salination | Erosion | Flash floods | Soil contamination

- Soil restoration
- Land management
- Floods water usage
- Crop protection and nutrition
- Desert forest management

- Soil water retention
- Water contamination treatment

- Agri voltaic systems
- Waste management of PV systems

- Conservation and revival of natural resources: water & biodiversity
- Flash floods management



Remote & Marginal Living

Decentralization | lack of access to basic needs and livelihoods

- Post-harvest logistics & supply chain
- Food security: self-sustaining production | agricultural diversification

- Off grid water and sanitation services (WASH)
- Water distribution systems management and maintenance

- Energy transmission capacity
- Energy networks: planning | operating | maintenance
- Non wire alternatives & off grid solutions
- Resilience against power outages
- Electric vehicle charging stations

- Access to services in rural & remote areas: health | education | culture | connectivity | transportation | communication

What We Do?

Community building events

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Tailor made open innovation and technology transfer processes

International delegations and seminars to global corporates

Market Place

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DeserTech CEO Forum

–

The Merage International DeserTech Competition



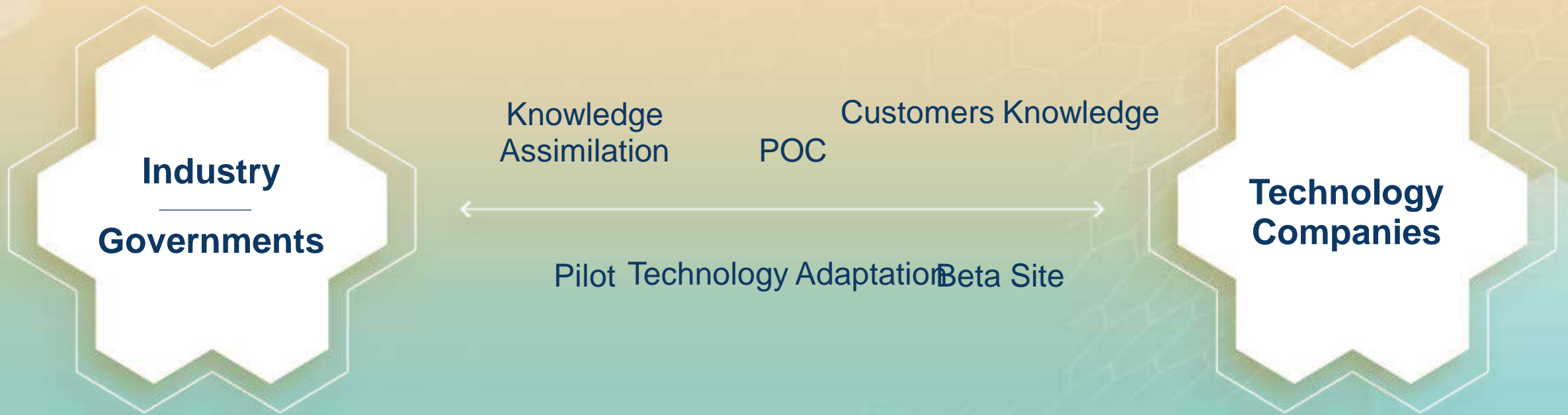
DeserTech

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Catalyst of Ecosystem Development



Catalyst of Innovation Implementation Locally & Globally



Growth Engine

The Negev as a Global Hub for Desert Technologies

Beta Sites

**International
Conferences**

**Complimentary Services
of Foreign Corporates**

**Global Center for
Multinational
Corporates Living
Labs**

**Unique Training for
Technology
Adaptation**



DeserTech

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Thank You!



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