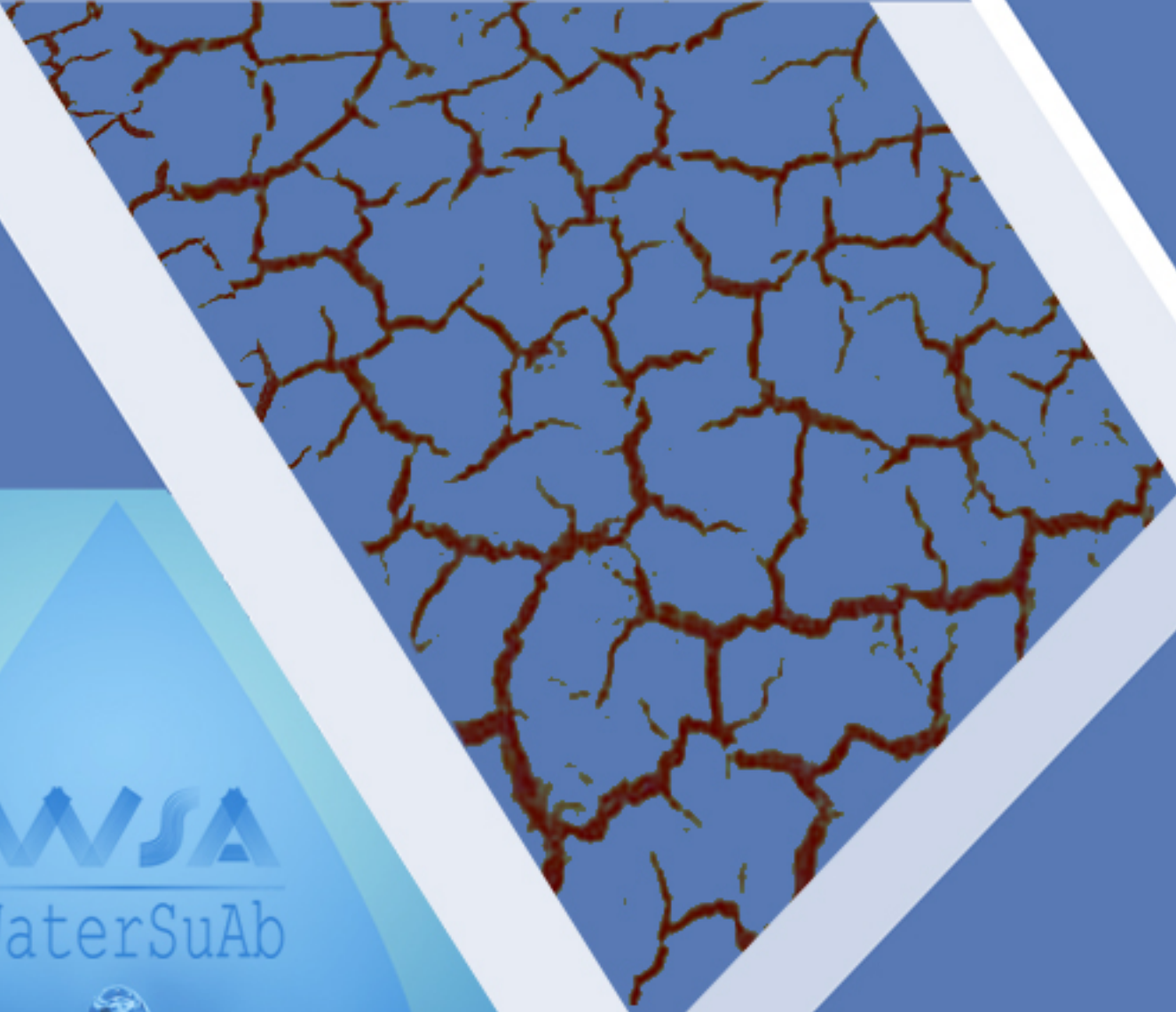


**Artakhe** Knowledge Based Company

**(WaterSuAb)**

**Manufacturer of Subsurface Irrigation Systems**



**WSA**  
WaterSuAb





# WaterSuAb

## Introduction

Today, the water shortage crisis in all the cities of the world has become a hot debate among critics and has put many challenges in front of the people of the world. It is obvious that the existence of water is necessary not only for domestic use, but also for the cultivation of agricultural products and food supply, and the life force of ecosystems such as forests, rivers, and marshes is considered to provide the possibility of producing food for today and tomorrow.

Today, when the world, especially Middle-eastern countries, is struggling with a severe water shortage, it is important to be aware of approaches to preserve this valuable resource, and their implementation can save the next few generations from a lack of access to water and its consequences. **Artakhe** knowledge company (WaterSuAb) with research and development of new irrigation methods is one of the important scientific and production enterprises in this direction.

## Our mission

**We think for the future**

## Vision and values

**Artakhe** company with the **WaterSuAb** brand has been able to produce products with unique benefits in the world, produce, and market. The international awards won confirm this claim, now the next step is to increase production and marketing on a wide scale in the countries of the region and the world.

**We Are New, but One of the best in the world for irrigation systems**



# WaterSuAb

## History, growth, and development

### Change strategy

Considering the importance of water in the country, the research was focused on the production of knowledge-based products for the subsurface irrigation basin.

2016

### Factory establishment

With the investment of Islamic Azad University, a factory for the production of subsurface irrigation products was established.

2020

2013

### Genesis

We started working as a research-oriented company

2019

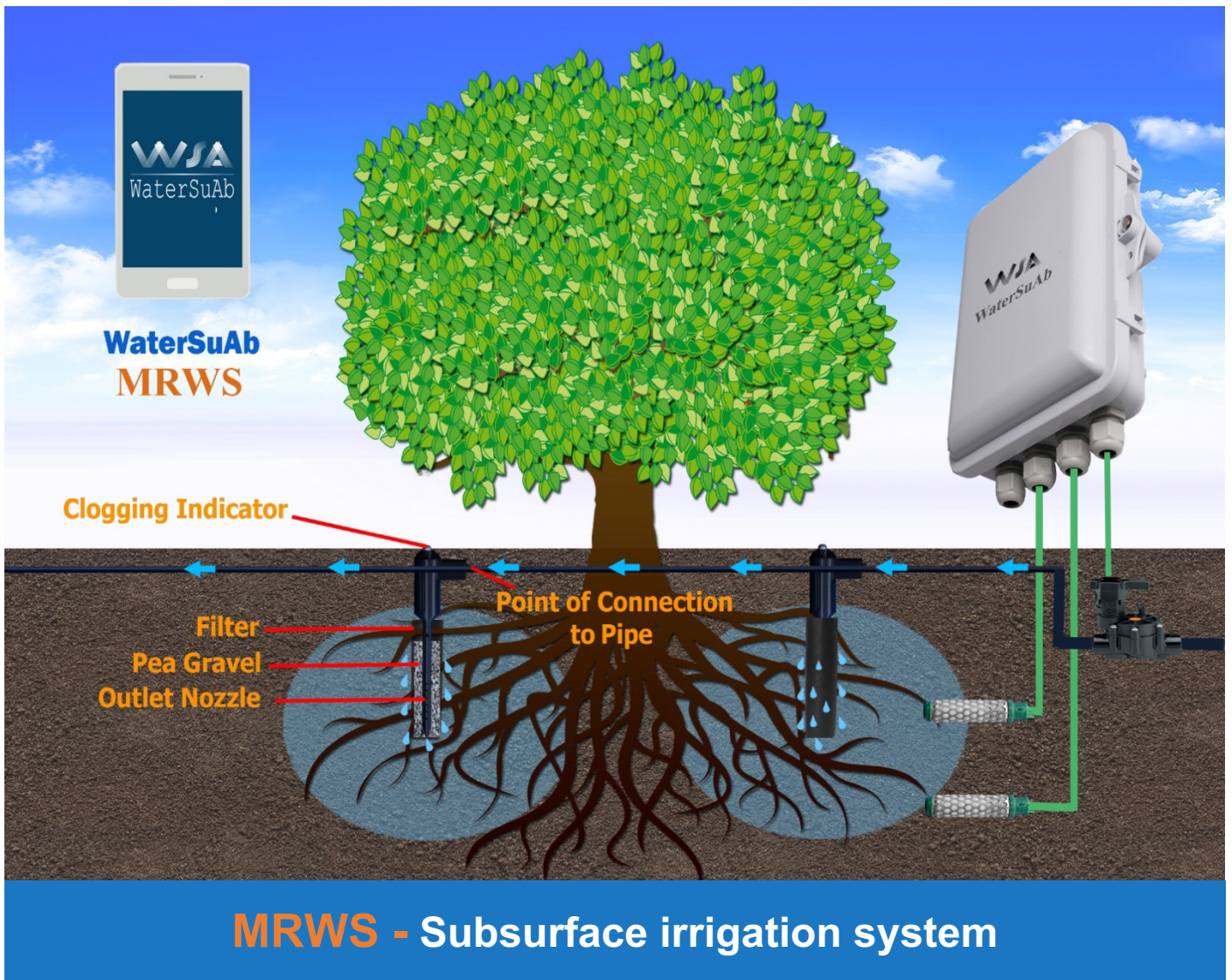
### Production of knowledge-based products.

Industrial production of Knowledge-based products subsurface irrigation happened



# WaterSuAb

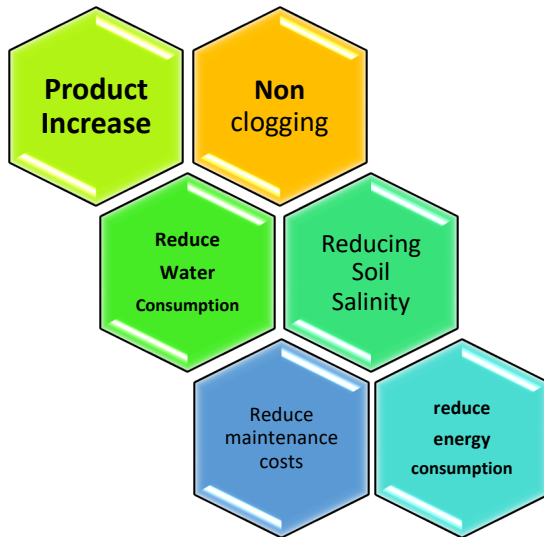
## Our products





# WaterSuAb

## MRWS Models



### MRWS subsurface irrigation technological product :

has the US patent registration and the following unique advantages

- 1- Non-clogging up to suspended particles in water with a diameter of 500 microns
- 2- Constant output flow in the pressure range of 0/01 – 1/5 bar.
- 3- Has a performance indicator
- 4- Reducing energy consumption
- 5- It does not need a professional operator

## MRWS





# WaterSuAb

## ISS Models

### WaterSuAb-ISS40

The diagram illustrates the WaterSuAb-ISS40 subsurface irrigation system. It shows a cross-section of the soil with a PCND drip pipe and a filter around the drip line pipe. The system is designed to deliver water directly to the plant roots. The diagram includes two circular inset images showing different views of the system components. The main diagram is set against a background of a lush green field under a blue sky.

Textile with a High Water Diffusion Coefficient

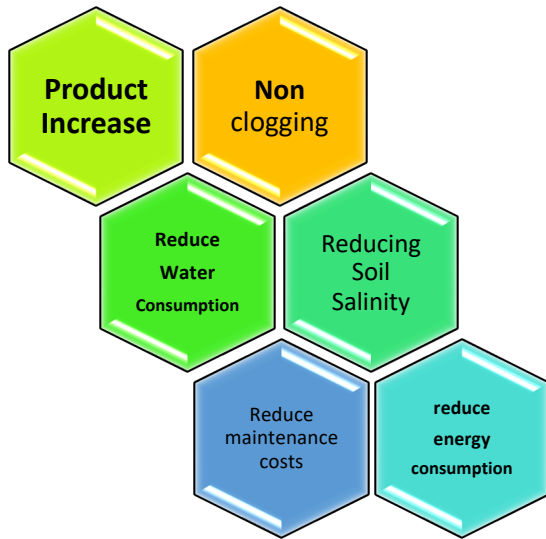
PCND Drip pipe

Filter around the Drip line pipe

Textile with low water Permeability Coefficient

WaterSuAb.com

### ISS - Subsurface irrigation system



## ISS subsurface irrigation technological product :

has the IR patent registration and the following unique advantages

1- 50% reduction in water consumption in grass irrigation compared to the rain irrigation system.

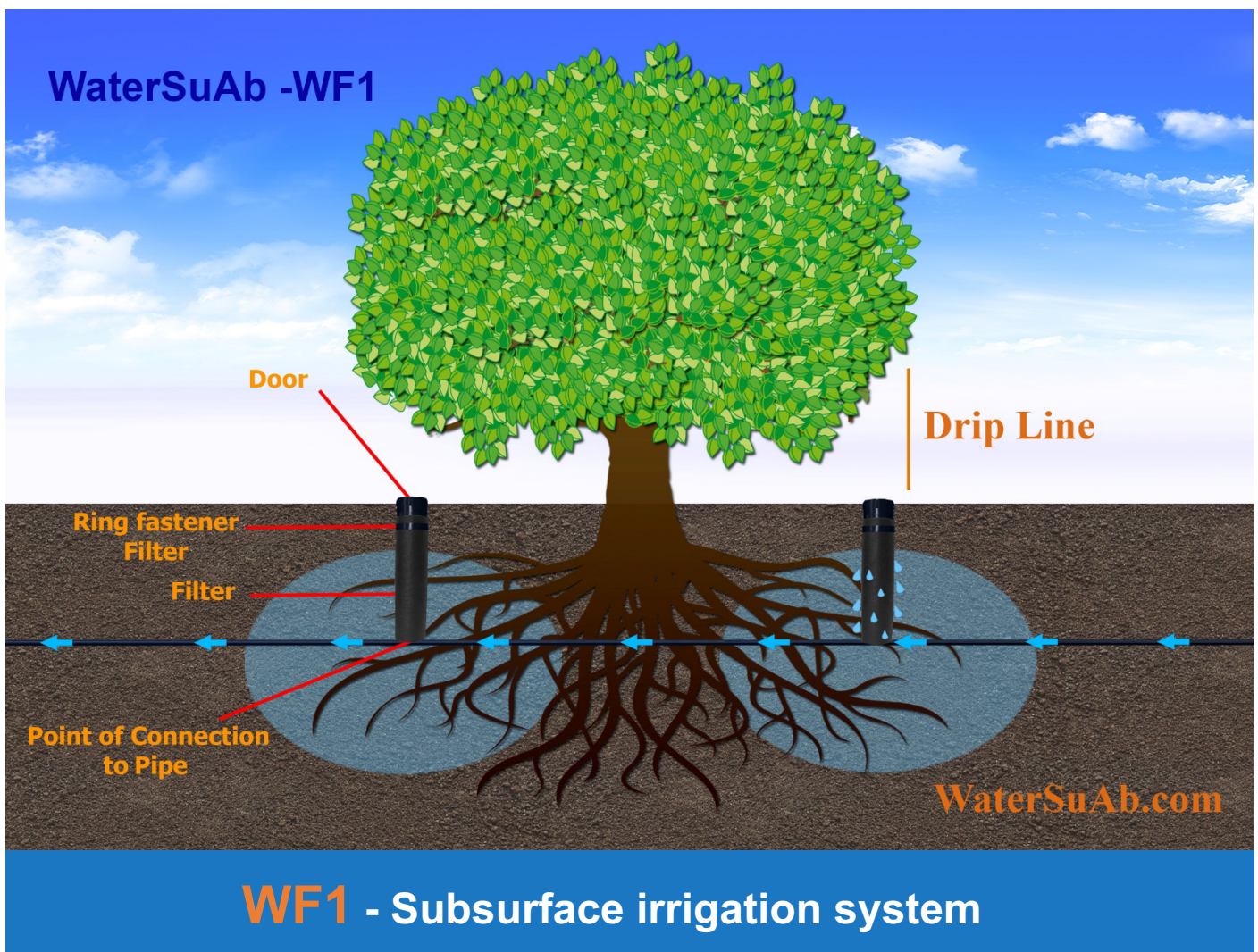
## ISS





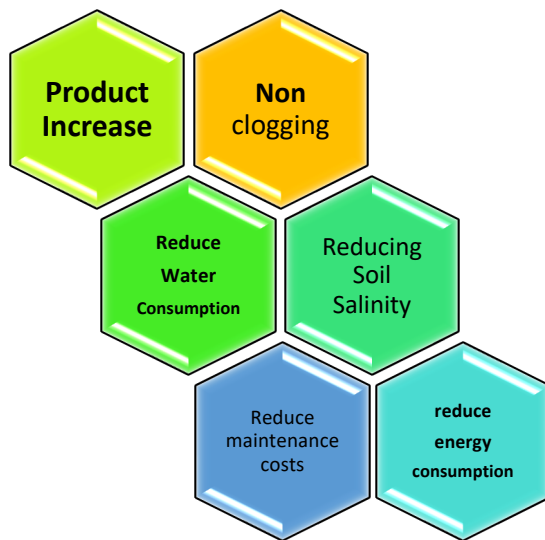
# WaterSuAb

## WF1 Models





# WaterSuAb



## ISS subsurface irrigation technological product :

- 1- Reducing the possibility of constipation.
  - 2- The ability to install a self-adjusting dropper.
  - 3- It has a point humidity indicator.
  - 4- The ability to adjust the height of the device and the depth of irrigation
- Placement of lateral pipes deep in the ground.

## WF1





# WaterSuAb

## Our Services



### EPC

- ✓ Counseling
- ✓ Design



### Research and Development

- ✓ Carrying out research




### Technical manager and implementation supervision:

- ✓ Monitoring



# WaterSuAb

## Our Customers

Company	Logo
Simorgh agriculture and industry	
Karaj Municipality	
Islamic Azad University of Qazvin	
Yazd Municipality	



# WaterSuAb

## International Agencies

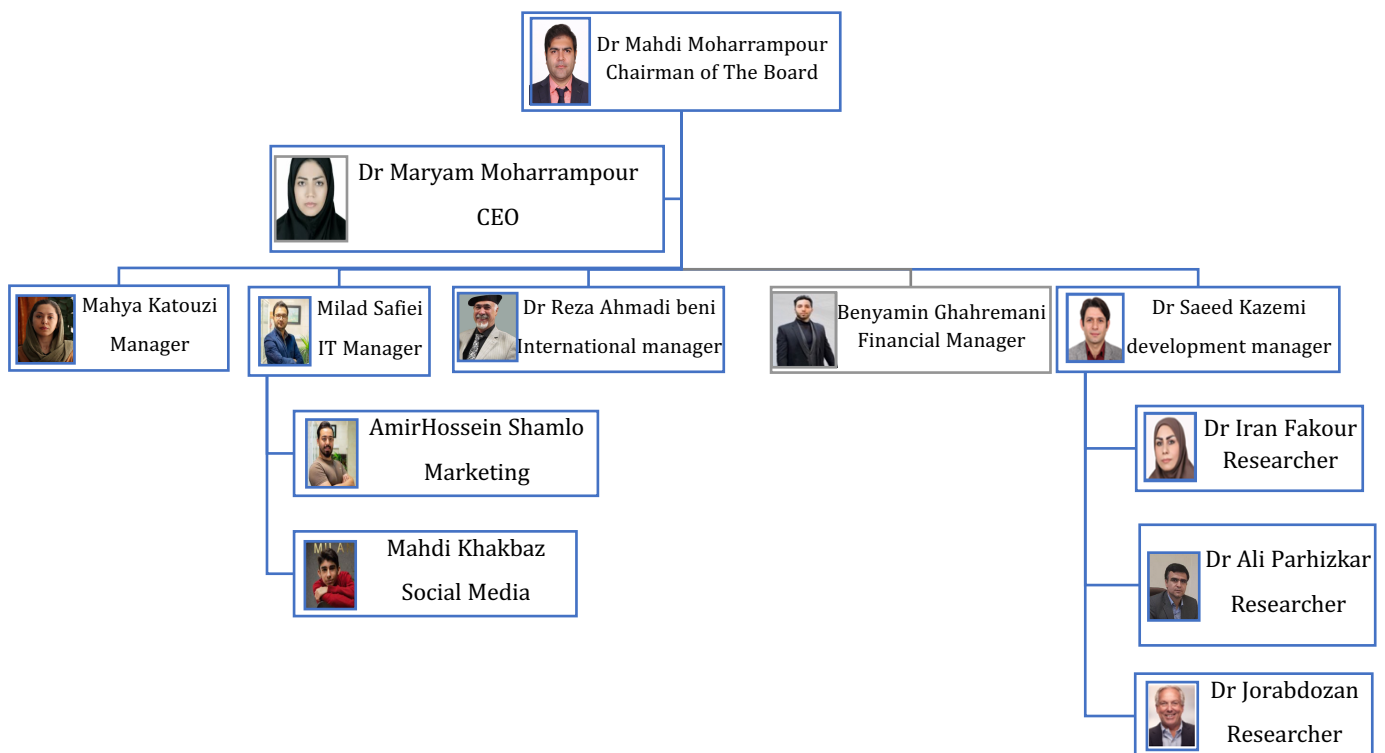
Country	Company	Logo
 Qatar	Day Break	
 Turkey	AFG	
 U.A.E	Mahyana	
 U.S.A	IrriRoot	
 Iraq	Maytham Hamzah Ali	





# WaterSuAb

## Organizational Structure





# WaterSuAb

## Board of Directors

**Dr. Mehdi Moharrampour**

**Chairman of the Board**

**PhD in hydraulics and water resources**

[Mahdi.chairman@watersuab.com](mailto:Mahdi.chairman@watersuab.com)



**Dr. Saeed Kazemi Mohsen Abadi**

**Research and Development Manager**

**PhD in water engineering**

[Saeed.development@watersuab.com](mailto:Saeed.development@watersuab.com)



**Dr. Reza Ahmadi Beni**

**International manager**

**PhD in business management**

[Reza.International@watersuab.com](mailto:Reza.International@watersuab.com)





# WaterSuAb

## Awards and Honors



The second best plan of the summit Turkish investment 2022



Acceptance as a technology and innovation company by the USA Irrigation Association at the Irrigation Exhibition 2022



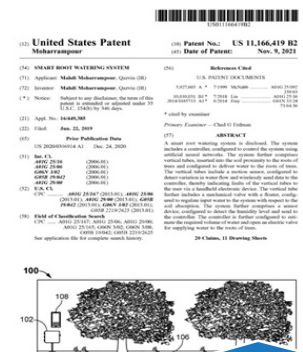
The Best Technology product of National Irrigation and Drainage Committee of Iran 2022



Research Cooperation with the Company PETANUX Germany 2021



The best entrepreneur of the 16th The course of Madoon program 2020



US PATENT 2021



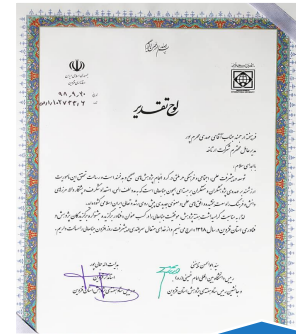
# WaterSuAb



The Best Product of Azad University 2020



IR PATENT 2019



The Best Entrepreneur of Qazvin Province 2019