

Remote Aqua Services



**Integration in achieving fully
sustainable agriculture**

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Sustainable Farming Model

A Conceptual Idea for Arid, Deserts, and Marginal areas

The icon for Target One, featuring the word "TARGET" in black with a red bullseye symbol over the letter 'O', and the word "ONE" in black below it.

TARGET
ONE

Uses all water resources in a sustainable and efficient way by combining elements

The icon for Target Two, featuring a large grey number "2" with the word "target" in a light blue, lowercase font overlaid on it.

target
2

Increases farm productivity per yield
Provides flexibility: Multiple crops farming options along with the production of multiple species of fish

The icon for Goal Three, featuring the word "GOAL" in white on a blue background, with a large white number "3" and a blue silhouette of a person holding a tennis racket below it.

GOAL
3

Eliminates water losses by using them for other farm activities
Reduces water needs
Increases production capacity



Integrated Agriculture

UNIT 1

Freshwater Aquaponics



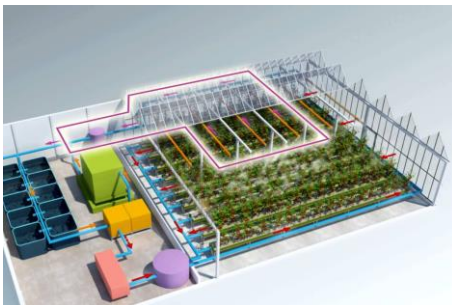
Soilless Aquaponics

Municipality water

Salinity 0‰-4‰

UNIT 2

Brackish water Aquaponics



Soilless And open field Aquaponics

Ground water

Salinity 5-10‰

UNIT 3

Seawater Aquaculture



Salt water Aquaculture or Aquaponics

Seawater

Salinity 20-40‰

Fresh Water Aquaponics

Aquaponics based on RAS for Tilapia fish and Vegetables



**Proposed
Fresh water Fish species**

**Tilapia
Catfish**



**Proposed
Fresh water Vegetables**

**Lettuce
Kale
Cucumber
Herbs**



**Soilless Aqua
ponics Main
Aspects**

The system will operate with municipality water
The new water added will be just to meet the needs of the plants and the evaporation
Alternatively more water can be used to mix with units 2 and 3 to achieve the desired result

Brackish water Aquaponics

Aquaponics Using the Underground Water for Tilapia fish and Halophytes



**Proposed
Fish species**

**Tilapia
Catfish**



**Proposed
Halophytic Vegetables**

**Quinoa
Salicornia
Others**



Main Aspects

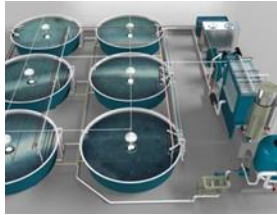
The system can operate with groundwater
Open field and Soilless Aquaponics can be created

Excess water will be used to irrigate palm trees by mixing with units 1 and 3

Aquaculture or Aquaponics



Salt water Aquaculture Using water from the sea and the underground source



Proposed System

Recirculating Aquaculture system (RAS)
Aquaculture & Aquaponics options



Proposed Fish Species

Seabream
Hammour
Safi
Others



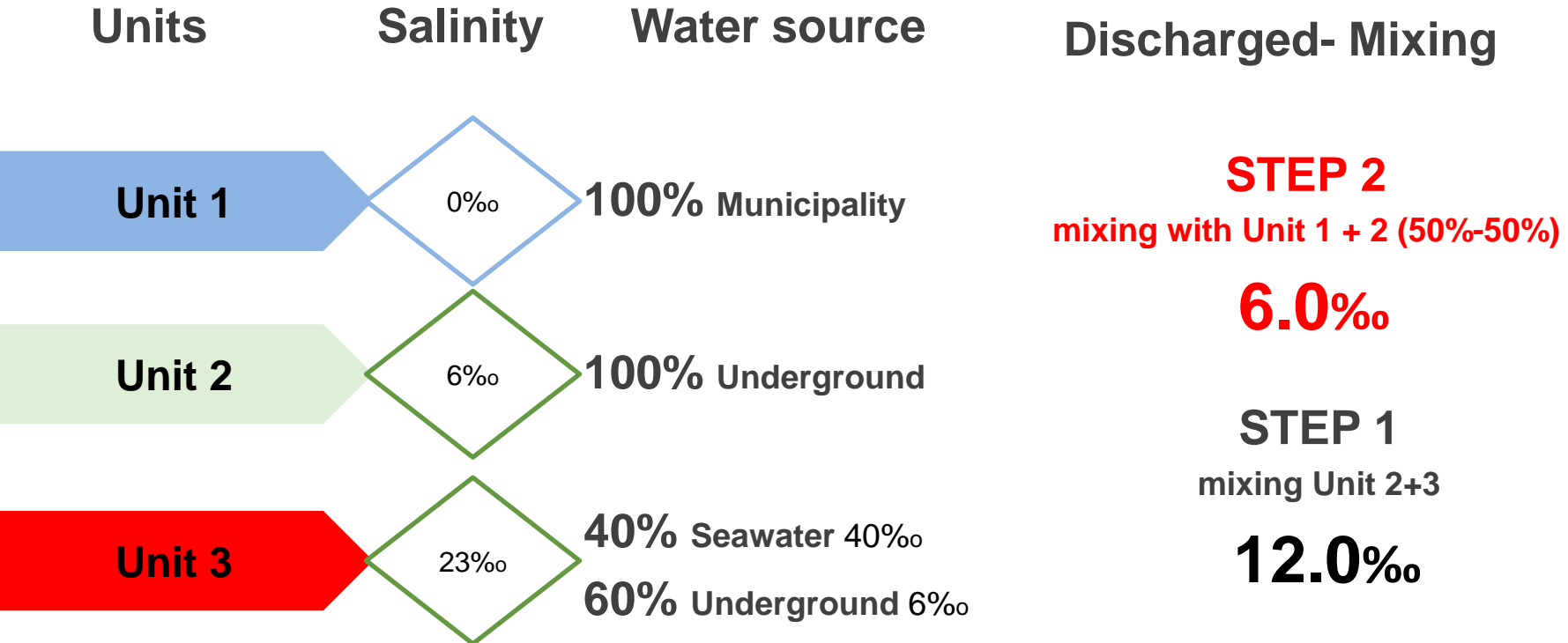
Main Aspects

The system will run on Salty water
To maintain the salinity at desired levels will be mixed with groundwater
Excess water will be used to irrigate palm trees by mixing with units 1 and 2

Water Flow Diagram

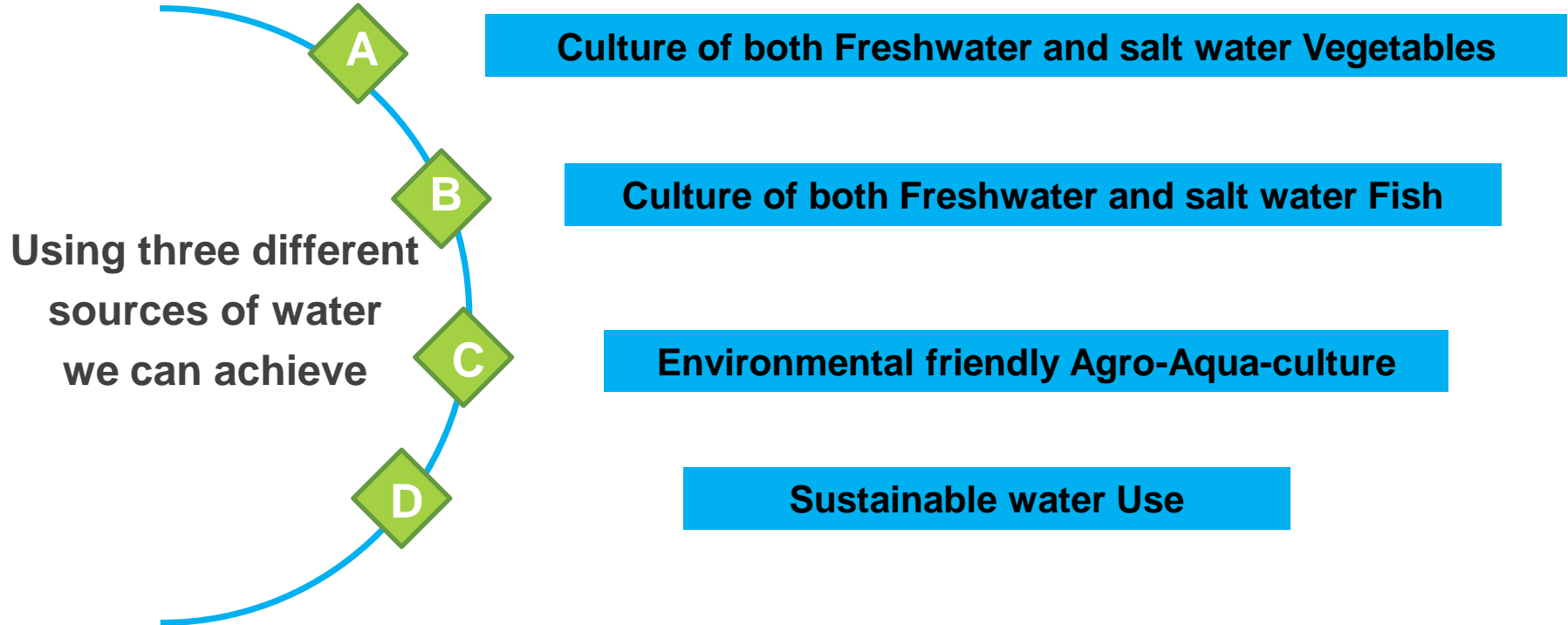


The water in all units will be used on a sustainable way
in order to be environmental friendly





Final Goals



Integration prospects



01

All units will be designed according to the needs and taking into account the final salinity of the discharged water so that it is similar to the salinity of groundwater.

02

Soilless and open field agricultural activities will be carried out in such a way that all excess water is collected and reused sustainable

03

All fish waste and its by-products will be used as fertilizers for open field crops

04

All waste and by-products from agricultural activities will be used as animal feed or as compost fertilizers

For Consideration



01

Regardless of whether the three units will have similarities on the design, different studies and equipment should be considered depending on the salinity and the species to be grown.

02

Investment cost and operational expenses in any kind of saltwater farming activities are much higher compared to freshwater farming

03

To operate similar to the proposed “Integrated farming system” expertise with different skills will needed.

04

Due to the fact that juvenile fish are not available in the UAE market, especially for saltwater fish species, it is necessary to consider which species other than tilapia and sea bream will be cultivated.

Thank you

With a promise to fulfill your needs



Remote Aqua Services



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