

11-12 FEBRUARY 2025

RABAT, MOROCCO

Institut Agronomique et Vétérinaire Hassan II



WEFE NEXUS INTERNATIONAL CONFERENCE

**EXPLORING AND BRIDGING NEXUS FOR
A SUSTAINABLE FUTURE**



These projects are part of the
PRIMA programme supported
by the European Union.



WEFE NEXUS INTERNATIONAL CONFERENCE

Day 2 – 12th February 2025

PILLAR 3: WEFE NEXUS SOLUTIONS

INNOVATIVE SOLUTIONS SHOWCASING DEMONSTRATION CASES FROM BONEX/SURENEXUS



DP Morocco
Souss Massa Basin

Prof Mounia Ennami
IAV Hassan II

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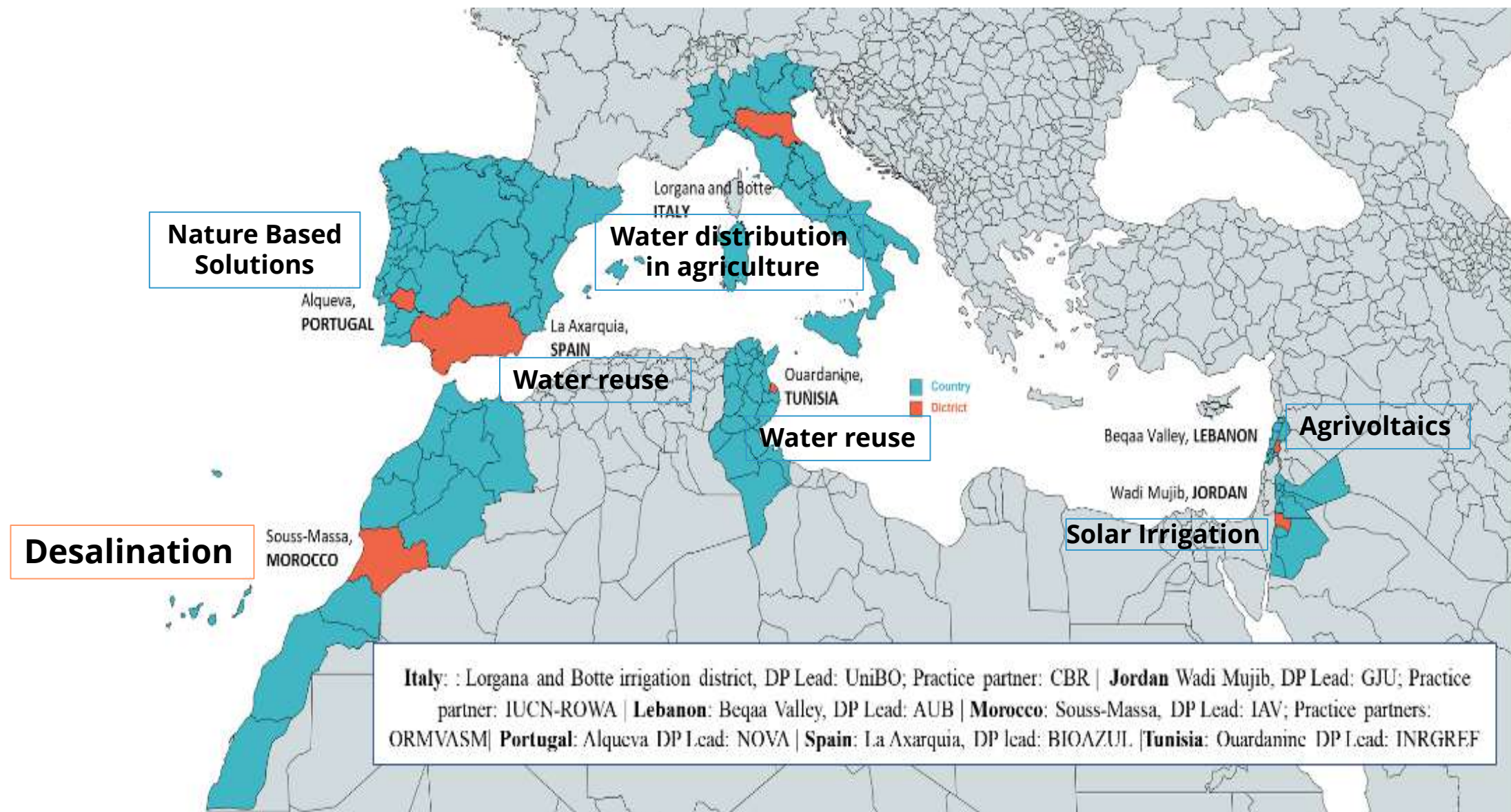
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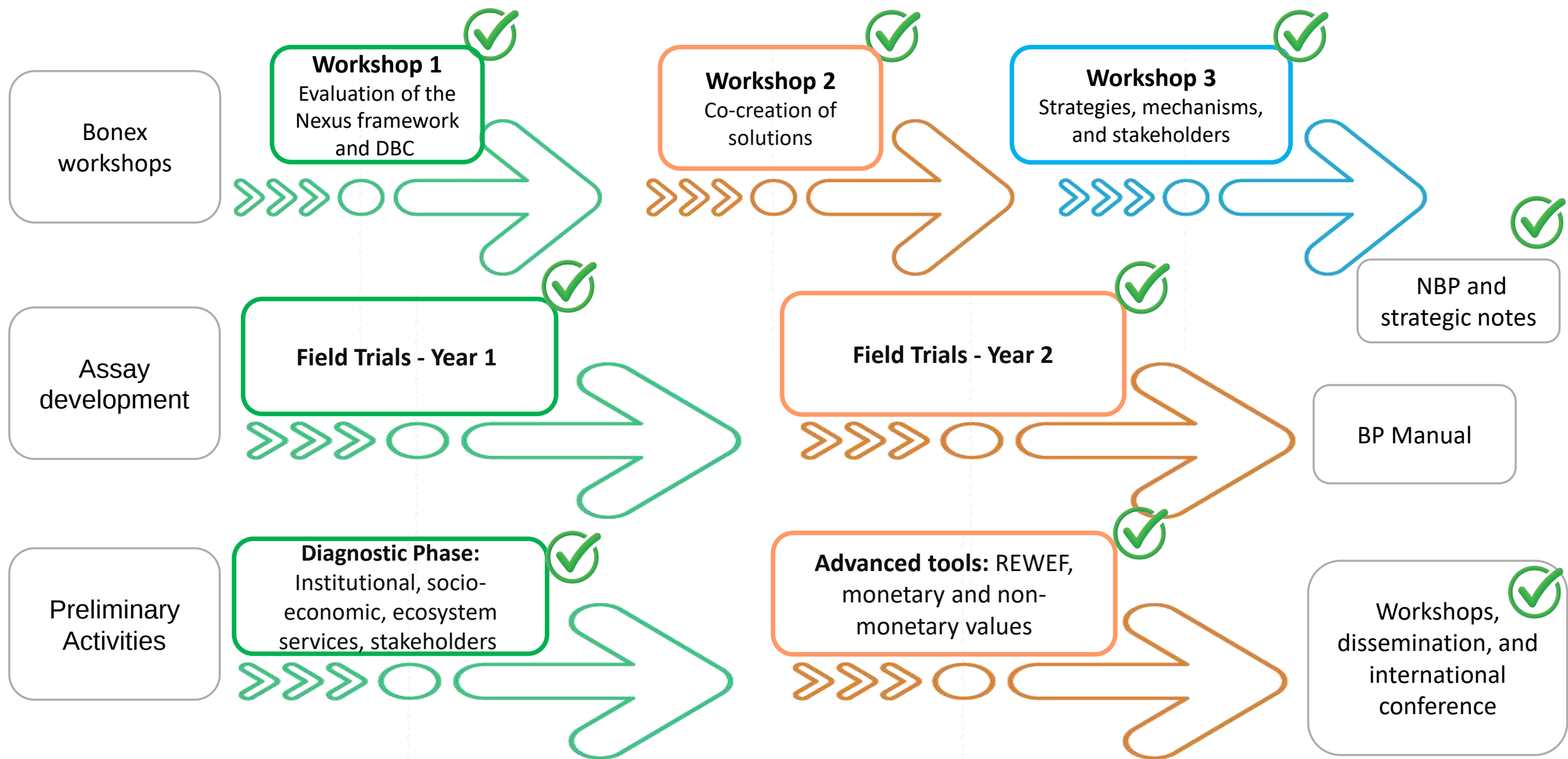
EXPLORING AND BRIDGING NEXUS FOR
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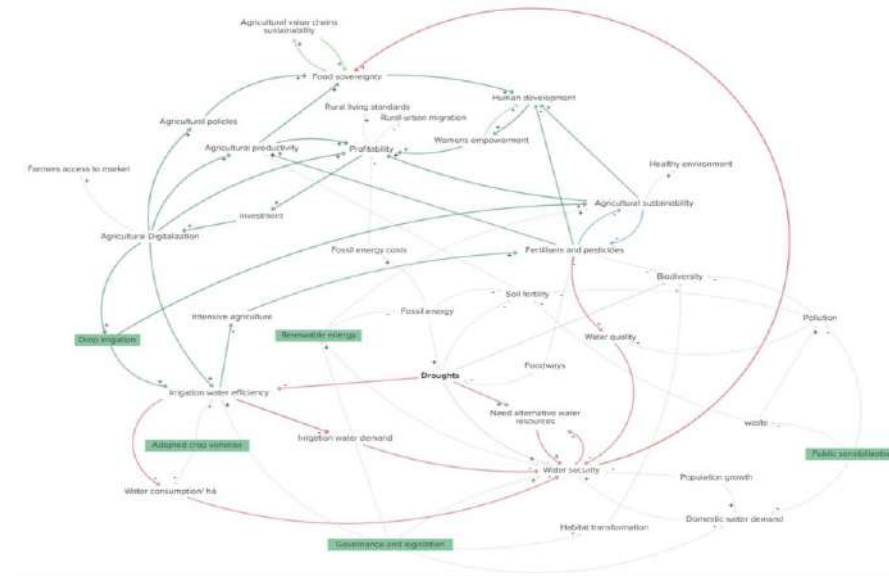
Prof. ENNAMI Mounia
IAV Hassan II – DP Morocco



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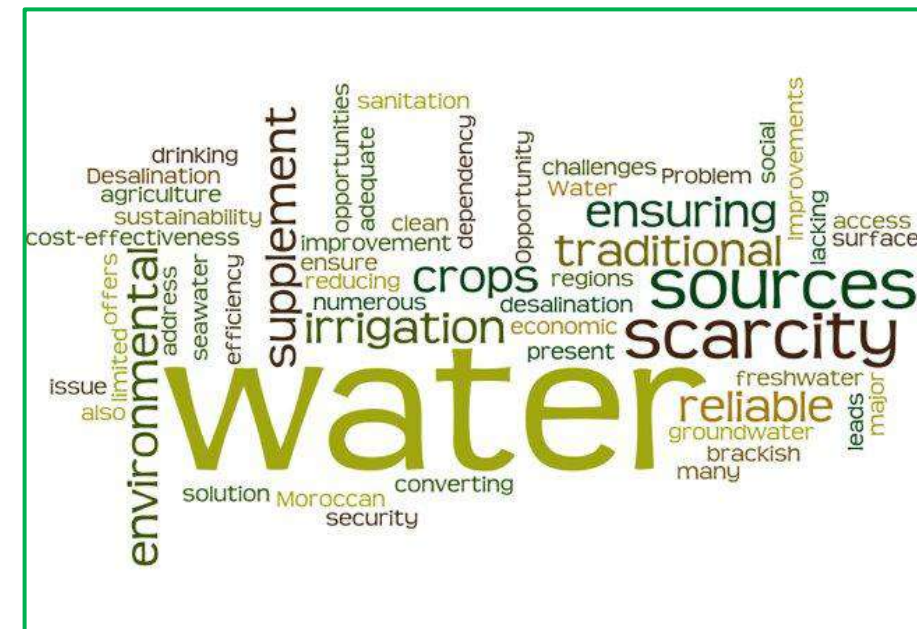






Workshop 1

Evaluation of the Nexus framework and DBC



Acheived Work - Graduation project

1. The use of a mixture of groundwater and desalinated water at different ratios (25%-75%, 50%-50%, and 25%-75%), for zucchini plant.



Travail de Fin d'Études présenté pour l'obtention du diplôme
d'Ingénieur en Management de la production végétal et de
l'environnement

Évaluation de l'effet des mélanges d'eau de puits et d'eau de
dessalement sur l'irrigation de la courgette (*Cucurbita pepo*): Une
étude basée sur l'approche NEXUS WEF (Water-Energy-Food-
Ecosystems)

Présenté et soutenu publiquement par :
ELATRASSI Aya

Devant le jury composé de :

Pr. TAIMOURYA Houda
Pr. LAHLOU Ouïam
Pr. KHOUYA Khadija
Pr. ZAKRI Bahija
Pr. ZIM Jamaa
Pr. BOURZIZA Roïa

Présidente
Encadrant
Encadrante
Co-encadrante
Examineur
Examinatrice

IAV Hassan II
IAV Hassan II
IAV Hassan II
IAV Hassan II-CHA
IAV Hassan II-CHA
IAV Hassan II

Le 9 octobre 2023



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Workshop 2

Co-creation of solutions

1	solar energy	Renewable energy
2	Biofertilizers and biostimulants	Agricultural productivity
3	Improvement of Soil Bacteria (PGPR)	Agricultural productivity
4	Varieties adapted for soil-less system	Agricultural productivity
5	Varieties Adapted to Desalinated Water Irrigation	Agricultural productivity
6	Compost	Agricultural productivity
7	Aquaponics	Water security
8	Recycling of plastic waste using nanotechnology	Agricultural sustainability
9	improving water quality using nanomolecular technology	Water quality
10	magnetic water treatment	Water quality
11	water retainer	Water security
12	Recycling desalinated water	Water security
13	Smart greenhouse technology	Agricultural sustainability
14	widespread use of weather stations	Agricultural sustainability
15	Electricity generation from brackish water	Renewable energy



Acheived Work - Graduation project

2. The use of a mixture of groundwater and desalinated water at different ratios (50%-50% and 25%-75%), with the integration of solar energy, magnetically treated water and a biofertilizer for zucchini plant.

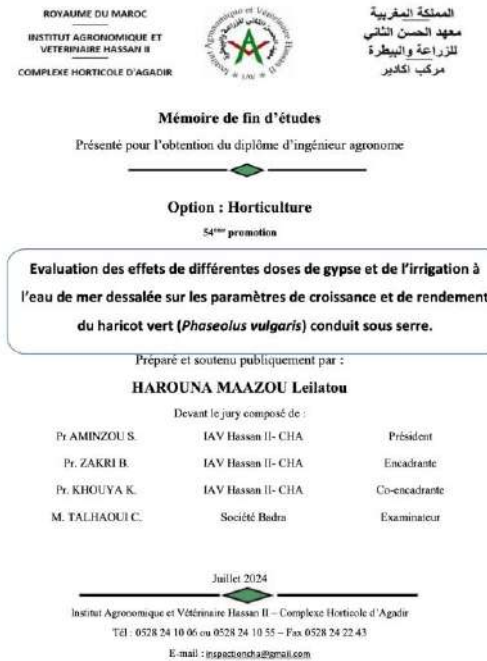
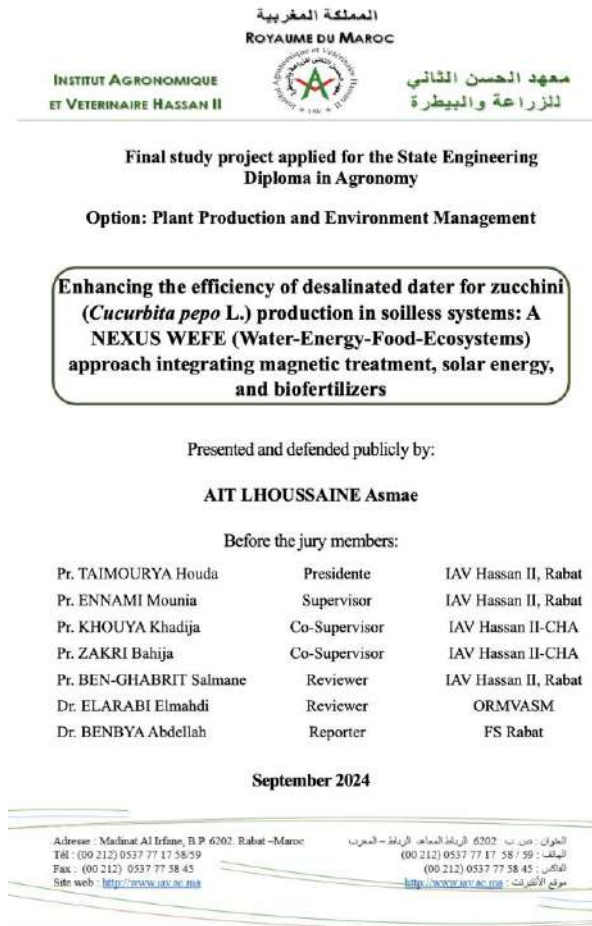
3. Using a mixture of groundwater and desalinated water at one proportion (50%-50%) with 100% groundwater as control, using zucchini, solar energy and three soil types with different gypsum concentrations



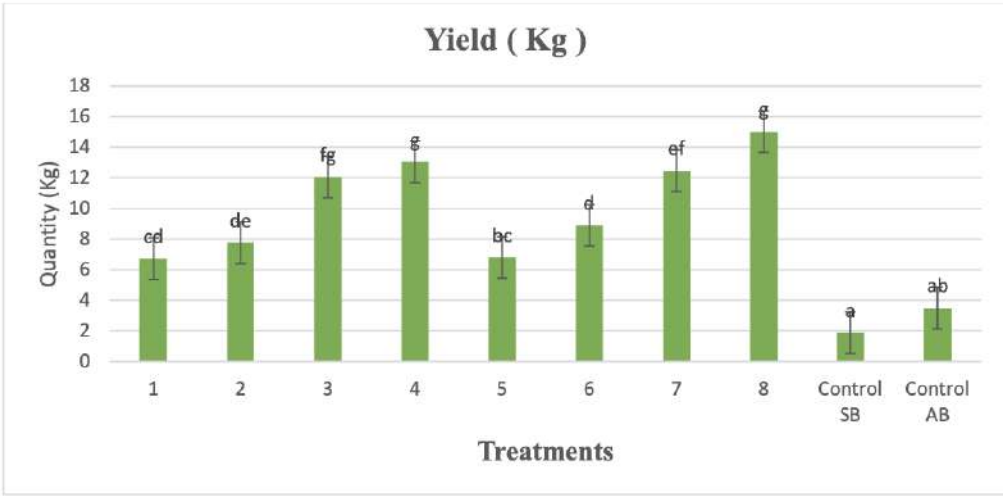
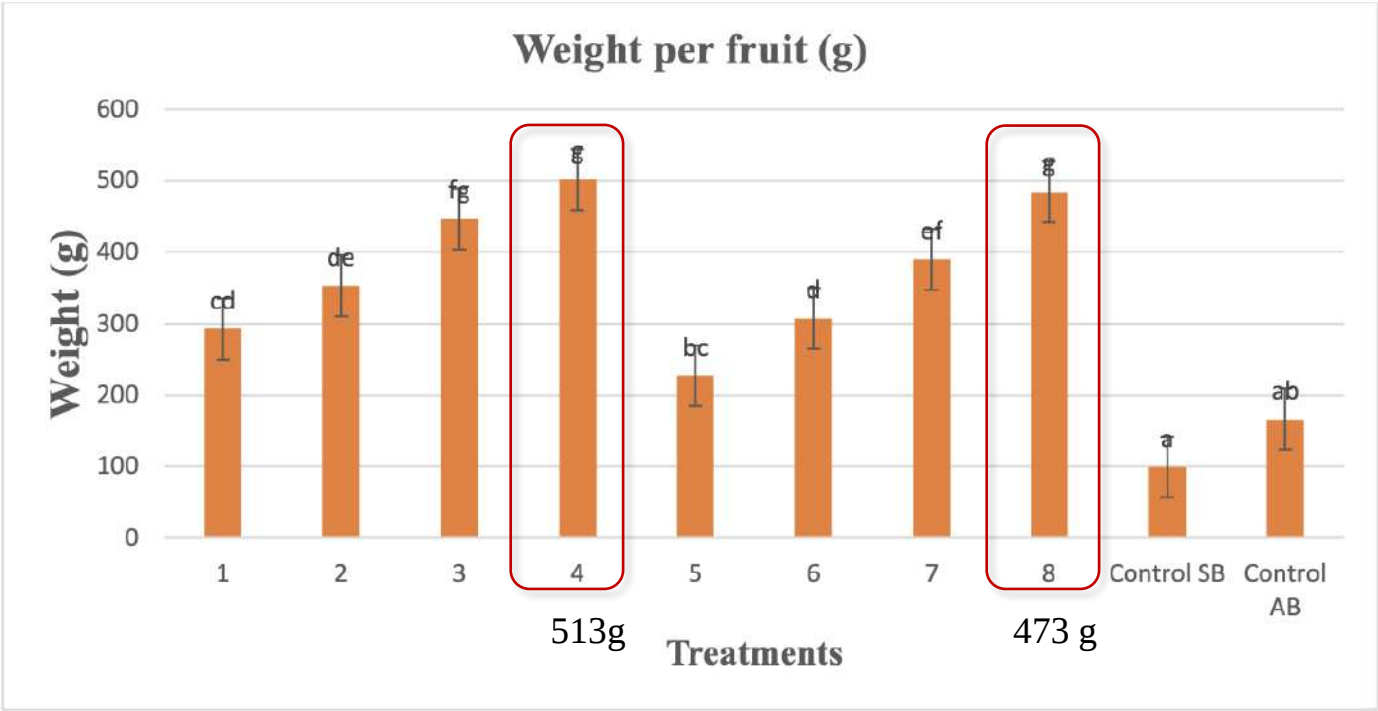
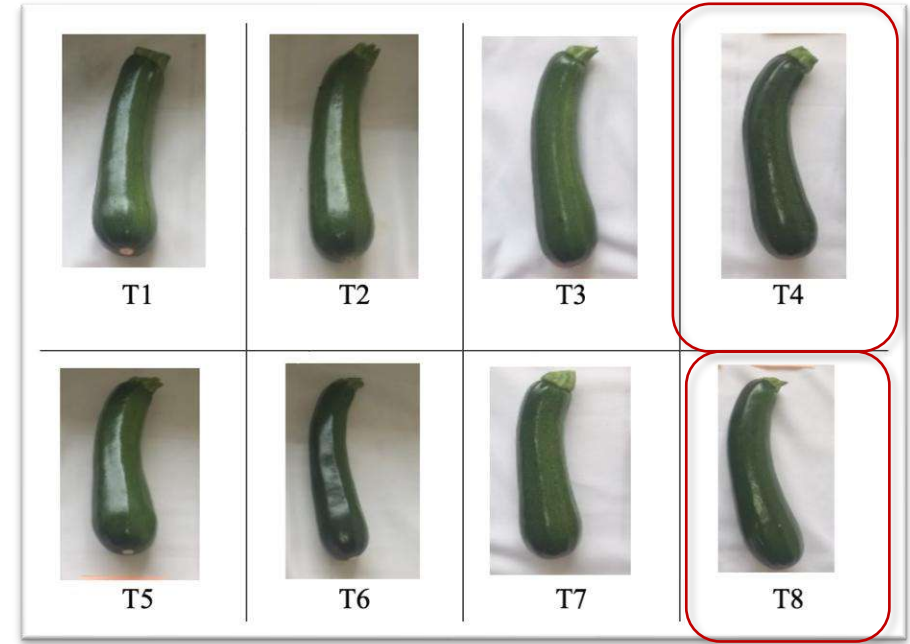
Acheived Work - Graduation project

2. The use of a mixture of groundwater and desalinated water at different ratios (50%-50% and 25%-75%), with the integration of solar energy, magnetically treated water and a biofertilizer for zucchini plant.

3. Using a mixture of groundwater and desalinated water at one proportion (50%-50%) with 100% groundwater as control, using zucchini, solar energy and three soil types with different gypsum concentrations



Treatments	
T1	50%W - 50%D; SM; SB
T2	50%W - 50%D; SM; AB
T3	50%W - 50%D; AM; SB
T4	50%W - 50%D; AM; AB
T5	75%W - 25%D; SM; SB
T6	75%W - 25%D; SM; AB
T7	75%W - 25%D; AM; SB
T8	75%W - 25%D; AM; AB
Control	100%W; SB
Control	100%W; AB



Workshop 3 Strategies, mechanisms, and stakeholders



- ✓ Mechanisms and strategies to facilitate, within the Nexus WEF framework, the integrated implementation of desalinated water and other technological innovations.



**SURE
NEXUS**



PRIMA
PARTNERSHIP FOR RESEARCH AND INNOVATION
IN THE MEDITERRANEAN AREA



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