

16th January 2023



PRIMA INFO DAY 2024

Topic 1.1.1–2024 (IA) Sustainability of Mediterranean irrigated agriculture through the implementation of the WEFE Nexus approach

Ali RHOUMA, Project Officer

Water management in the Nexus – Section 1



Topic 1.1.1 IA

Section 1

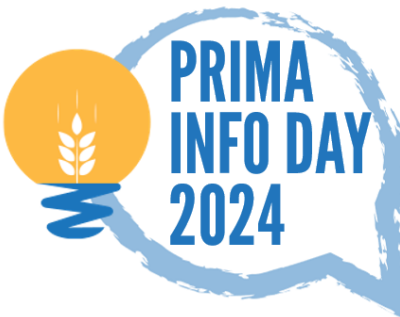
**Topic 1.1.1-2024 (IA) Sustainability of
Mediterranean irrigated agriculture through the
implementation of the WEFE Nexus approach**



Submission deadline Stage 1: 02/04/2024

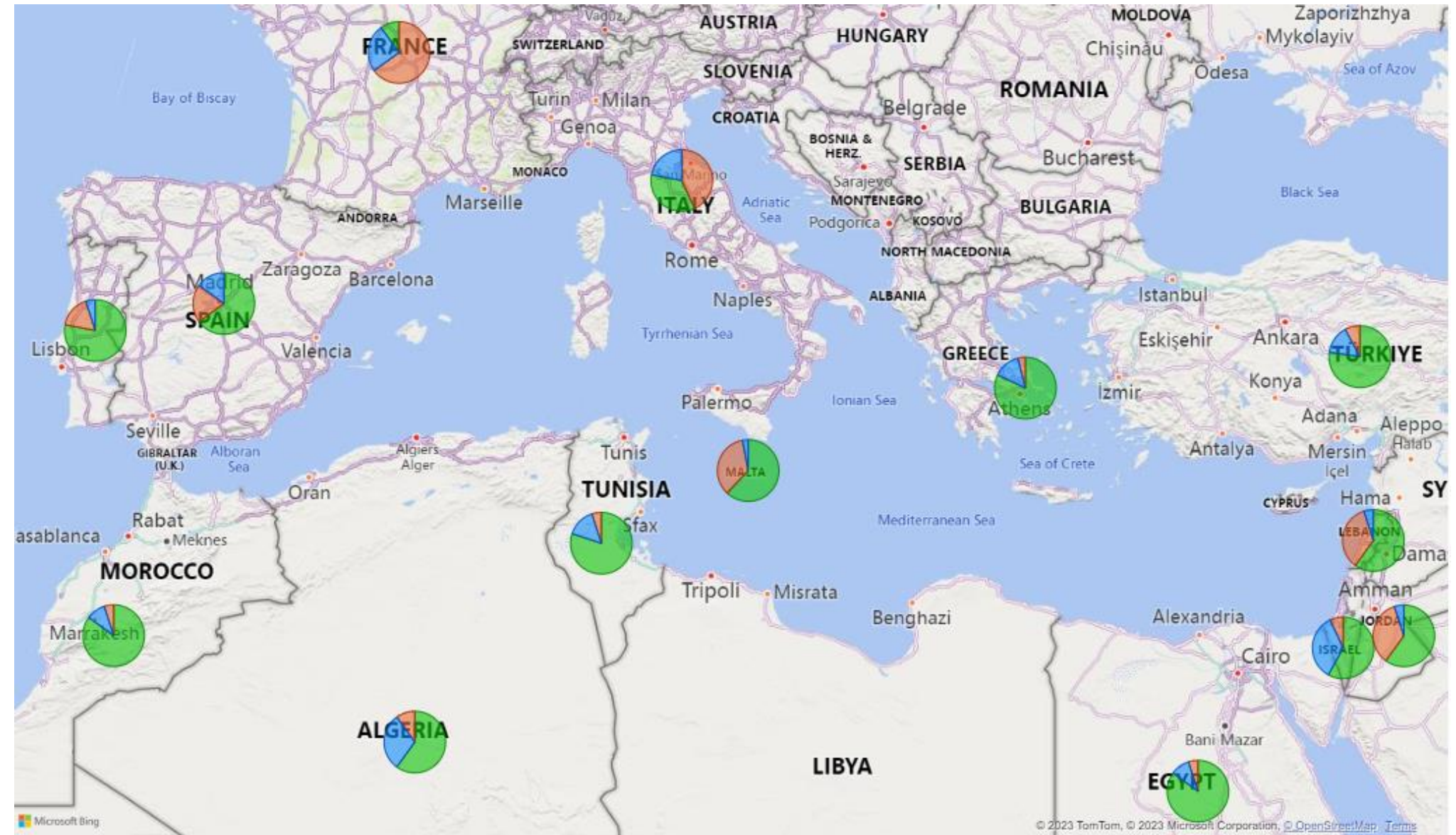
DISCLAIMER Preliminary information,
AWP has not been approved by European
Commission yet

Irrigated Agriculture



30%
Cropland
irrigated

40%
Food
Production



● Agricultural ● Industrial ● Municipal

Irrigated Agriculture **>70%** Of Global blue water

Challenge



Trade-offs

Climate change



Increase of Food Production



Population



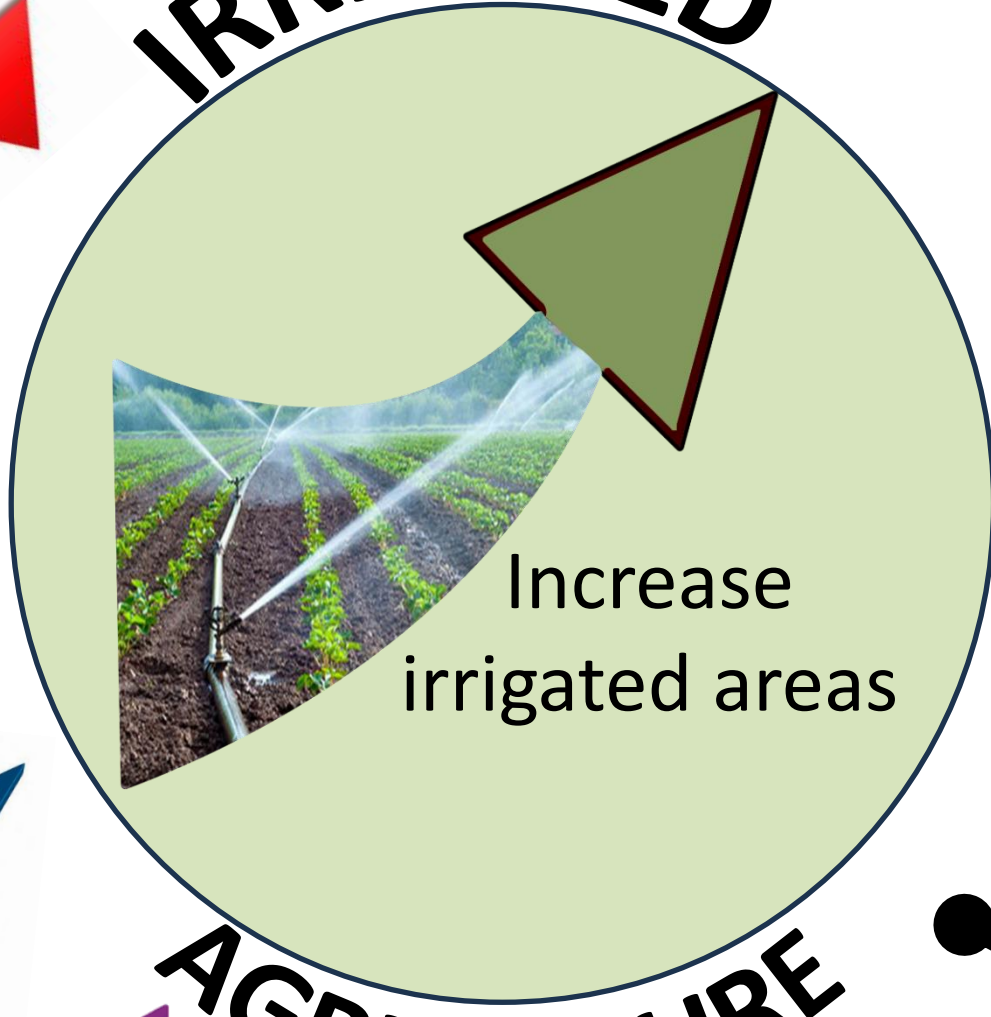
Water Users



Policies



IRRIGATED

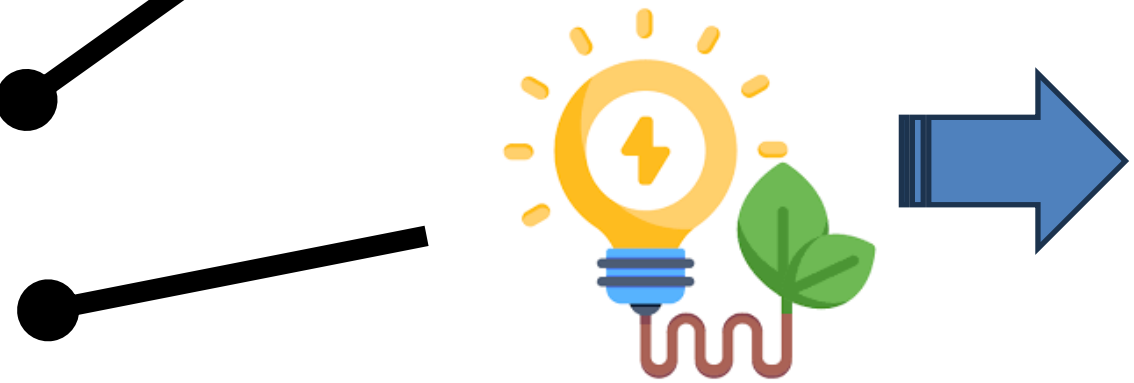


AGRICULTURE

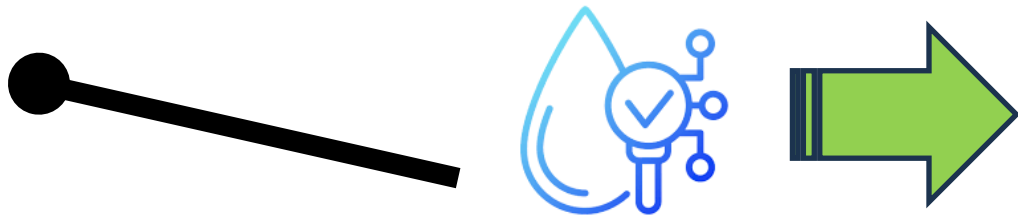


Energy (fossil fuel)

Carbon emissions
(CO2 and other GHGs)



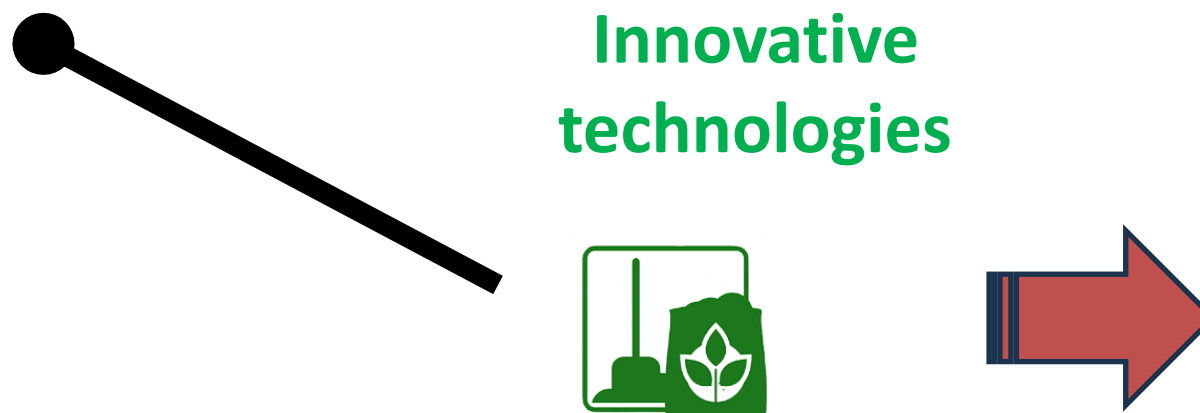
Overexploitation of
water resources



Innovative
technologies



Switch to more water
consumption crops



Fertilisers
Pesticides

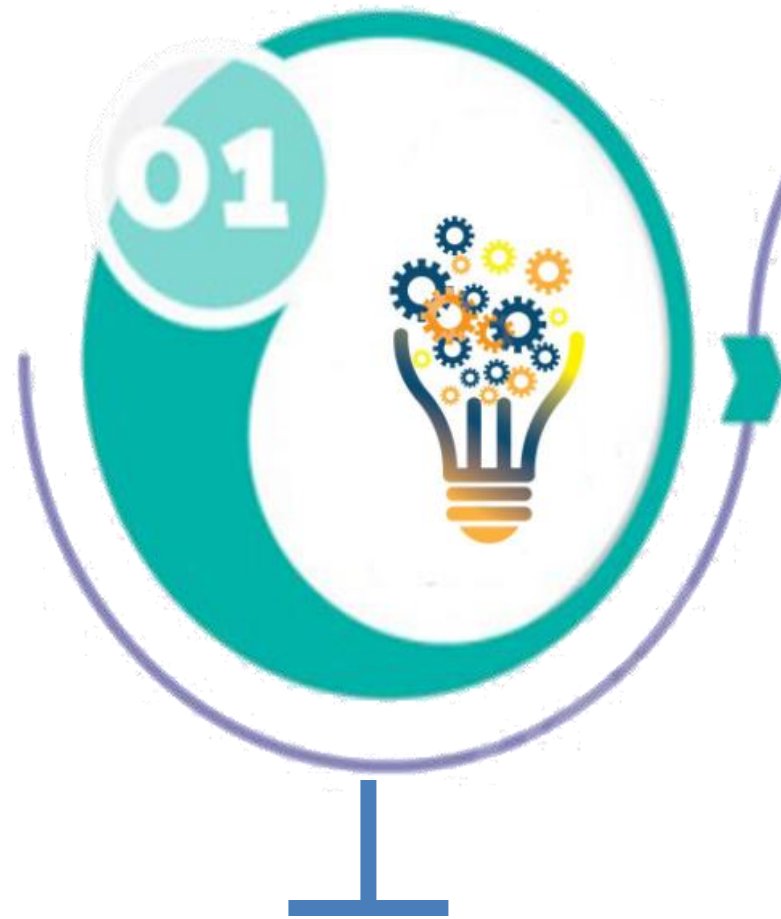


Soil pollution

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Scope

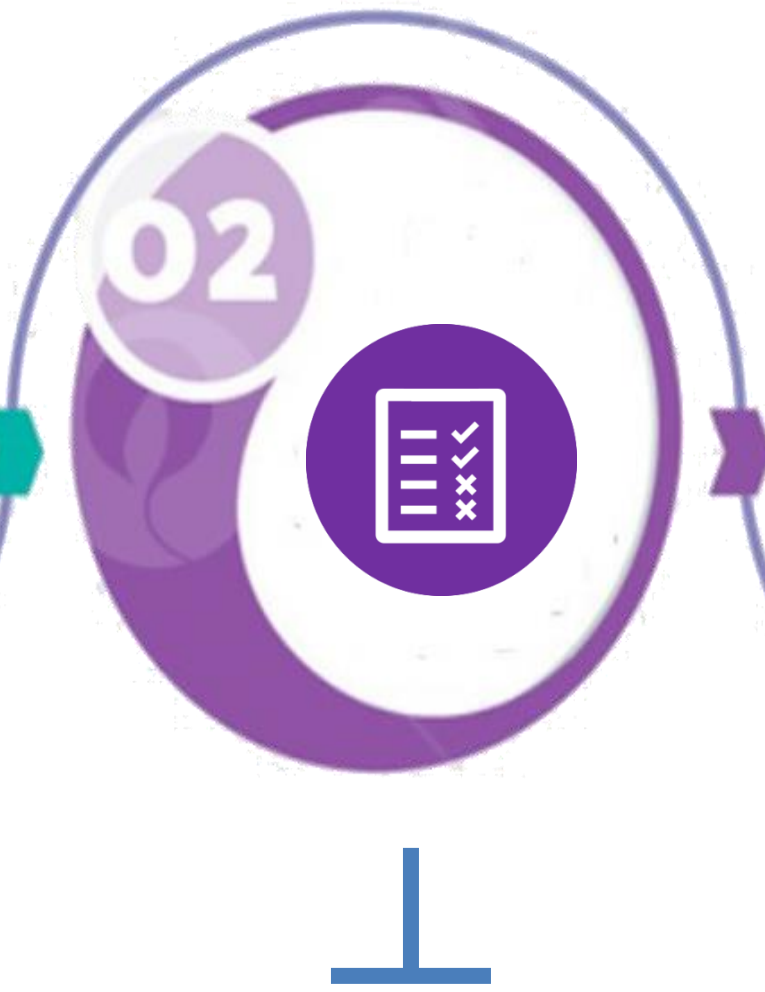
Assemble innovative Solutions



Assembling innovative solutions and test them in a combined way

- Nature-based solutions
- Smart irrigation solutions
- Agro-ecology practices

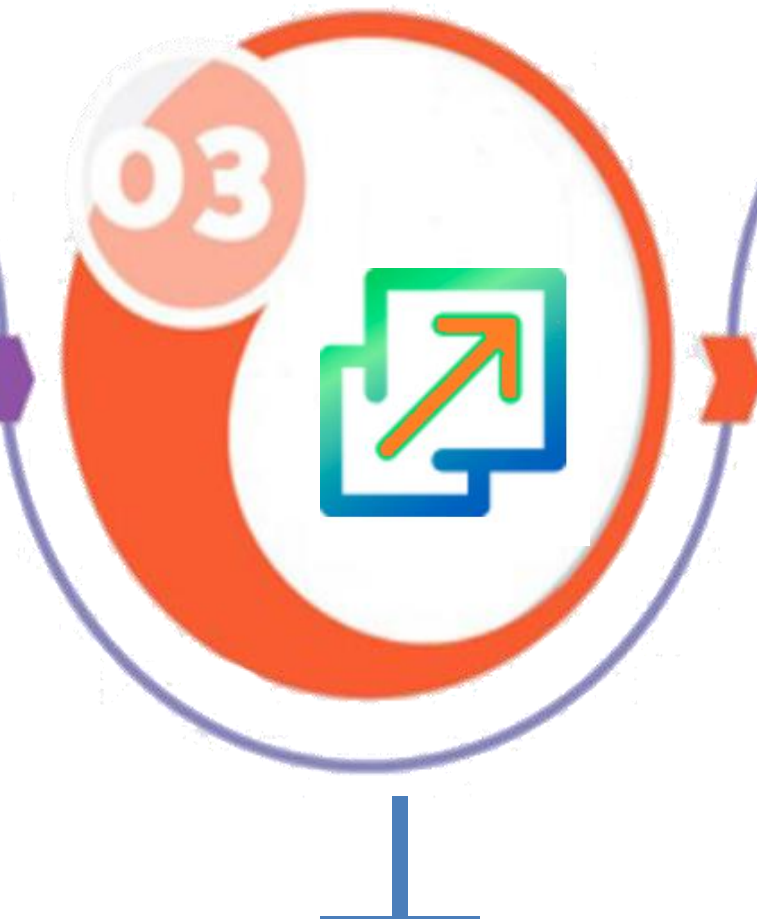
Impact Assessment



Appropriate indicators

- Crop Yield
- Water use efficiency
- Energy productivity
- ecosystem benefits
- Trade-offs/Synergies associated to the solutions

Upscaling Solutions



Assess the environmental impact of Entire value chain

- Life Cycle Analysis
- Ecological foot print analysis

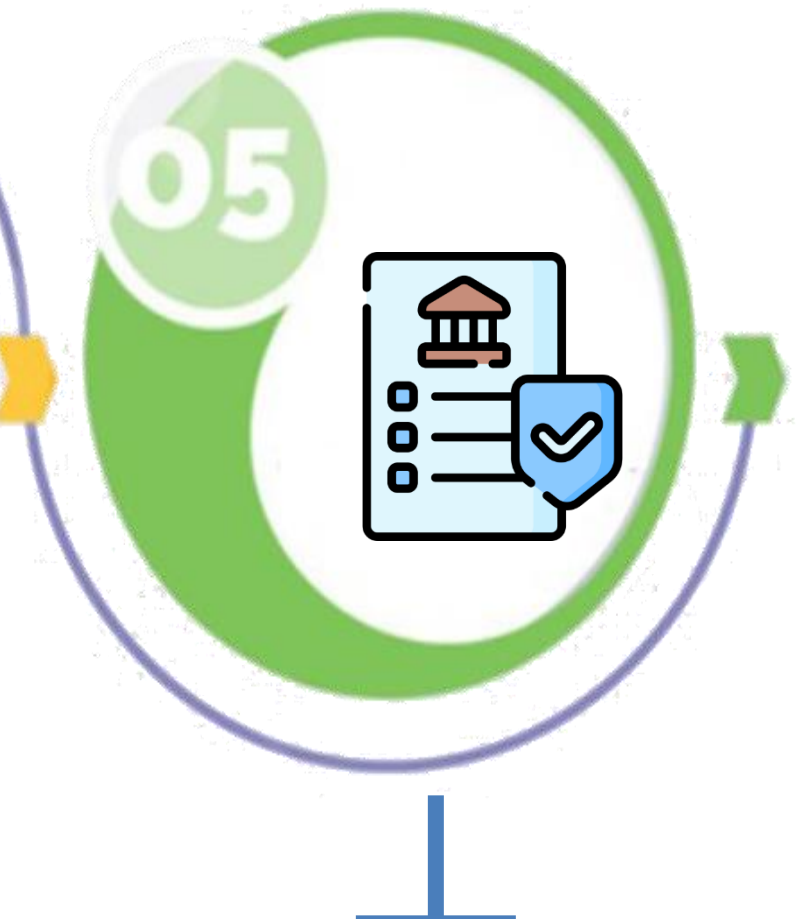
Business Models



Sustainability/profitability

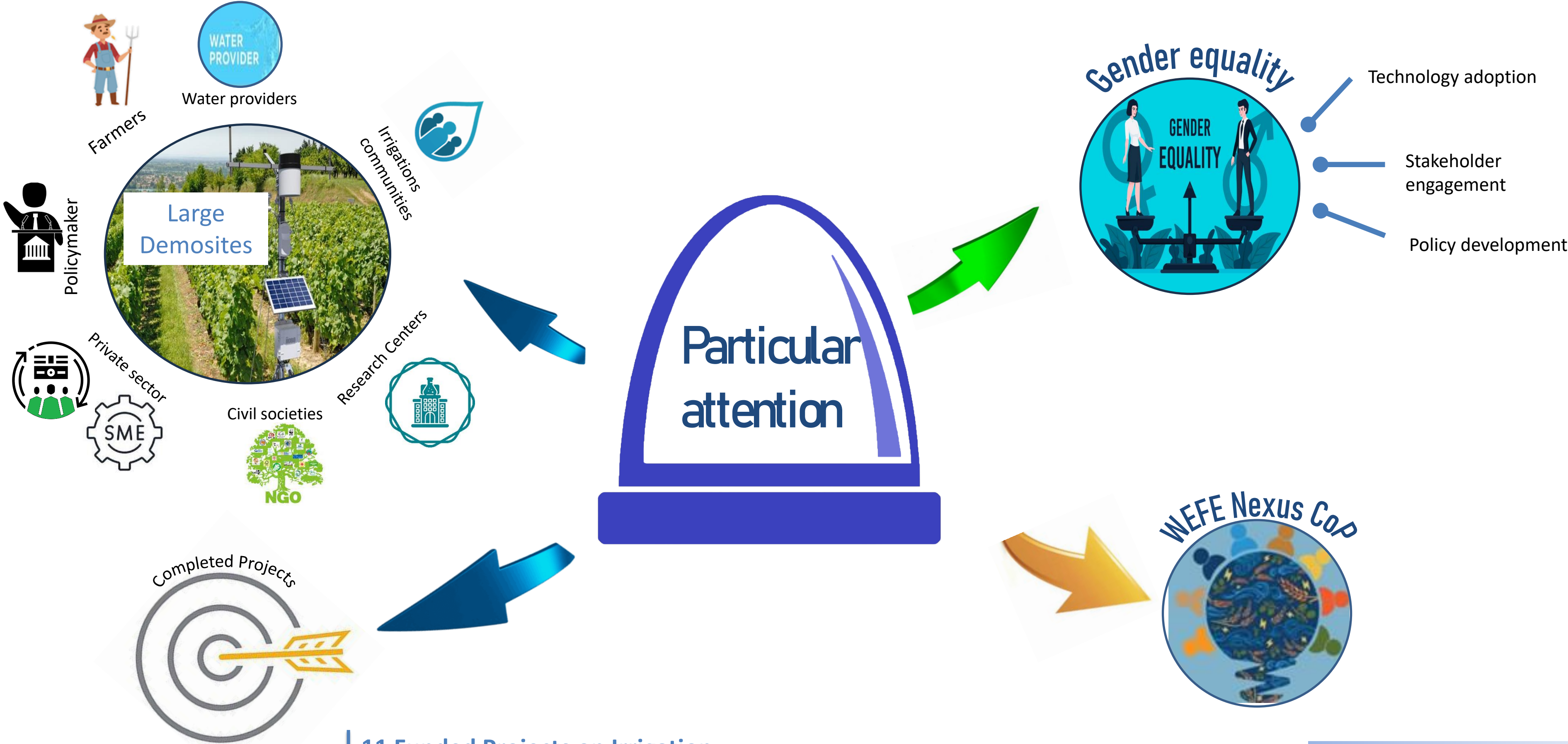
- Adoption and scaling up of the innovative solutions
- Reduce the financial risks of early adopters of developed solutions

Policies



Recommendations for improved and targeted incentives and policies

Scope



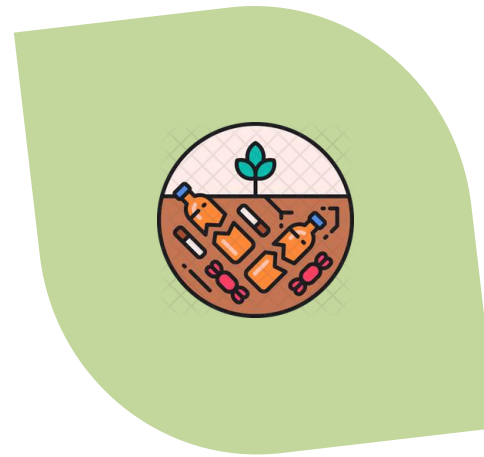
Capitalize past achievements

11 Funded Projects on Irrigation
2018 and 2019

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Expected Impacts

Reduce pollution and soil salinisation



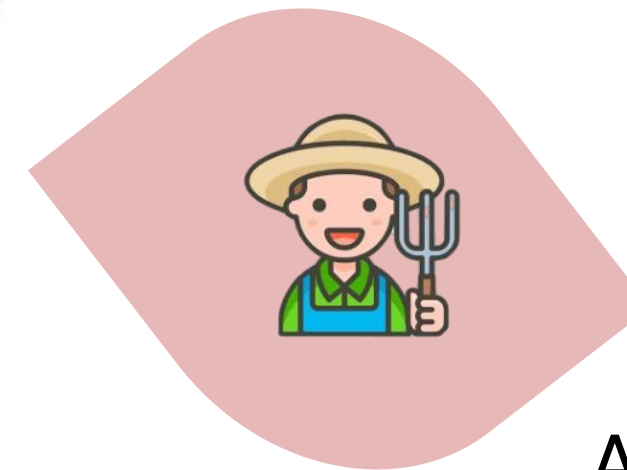
More effective policies and governance



Efficient and sustainable use of resources



Adoption by farmers and end-users of WEFE solutions



Increased resilience of irrigated agriculture



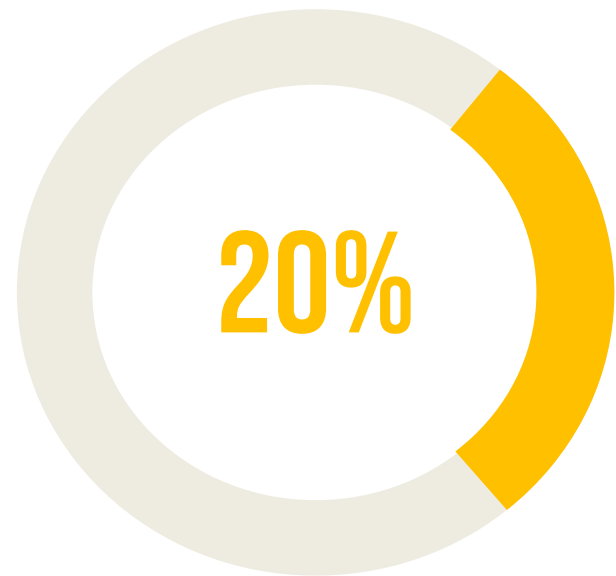
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Key Performance Indicators

ENERGY EFFICIENCY

Improve the energy efficiency

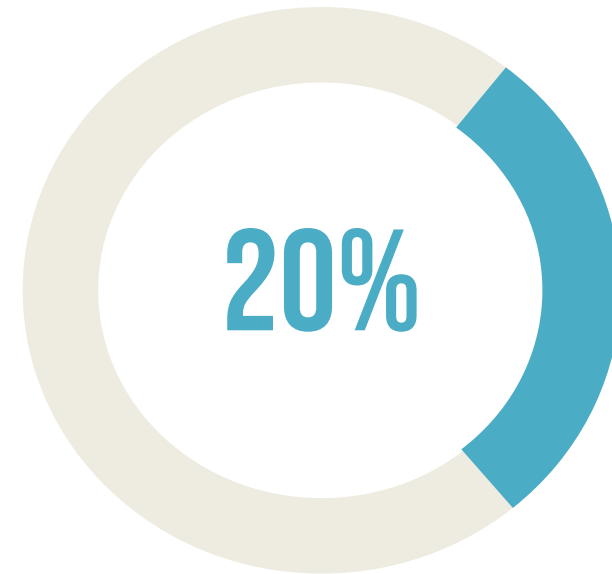
% ENERGY EFFICIENCY



WATER USAGE

Redcution of Water use in irrigated agriculture

% WATER REDUCTION



STAKEHOLDERS

NB. Stakeholers engaged

NB. STAKEHOLDERS

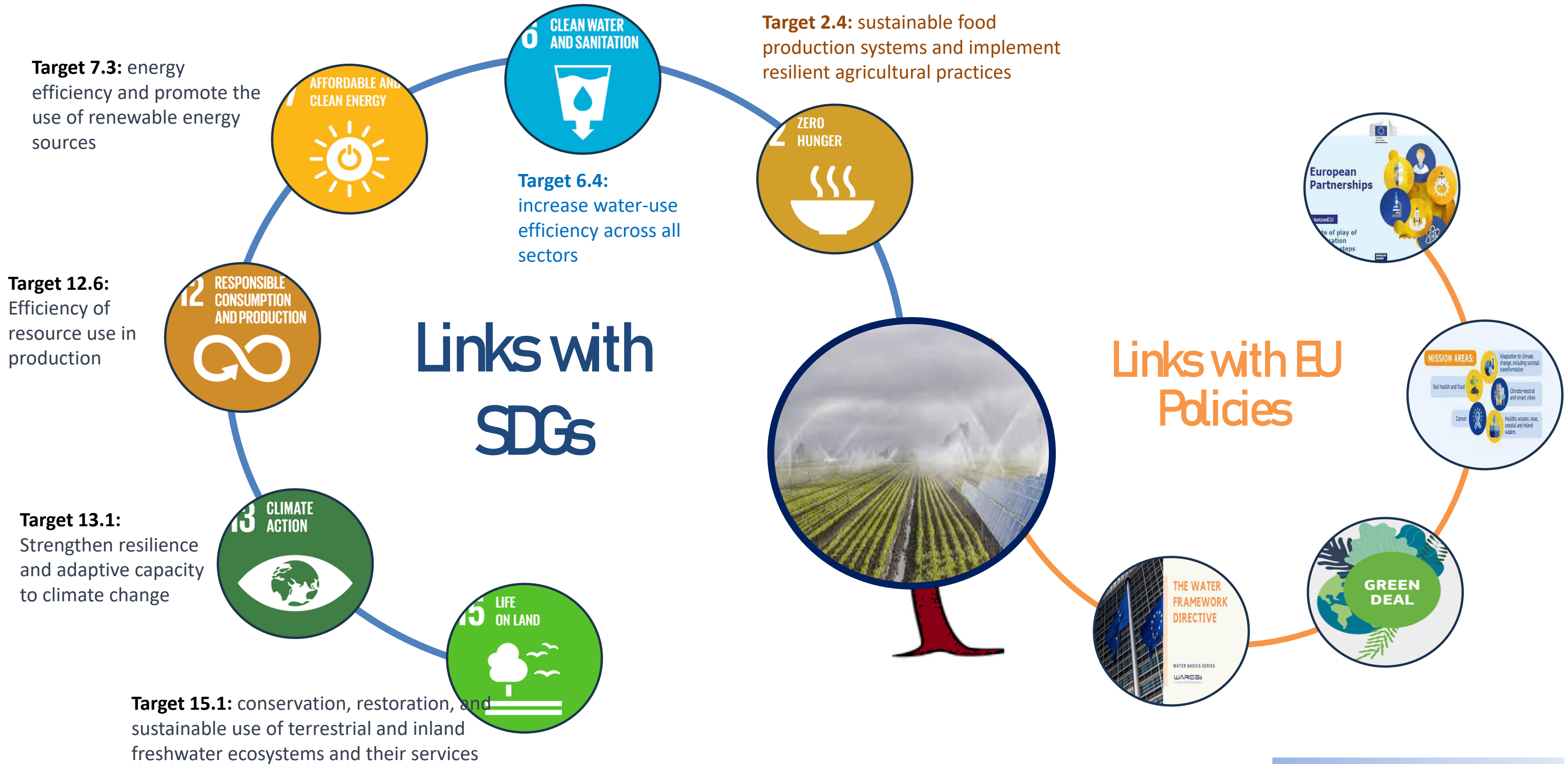
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BUSINESS MODELS

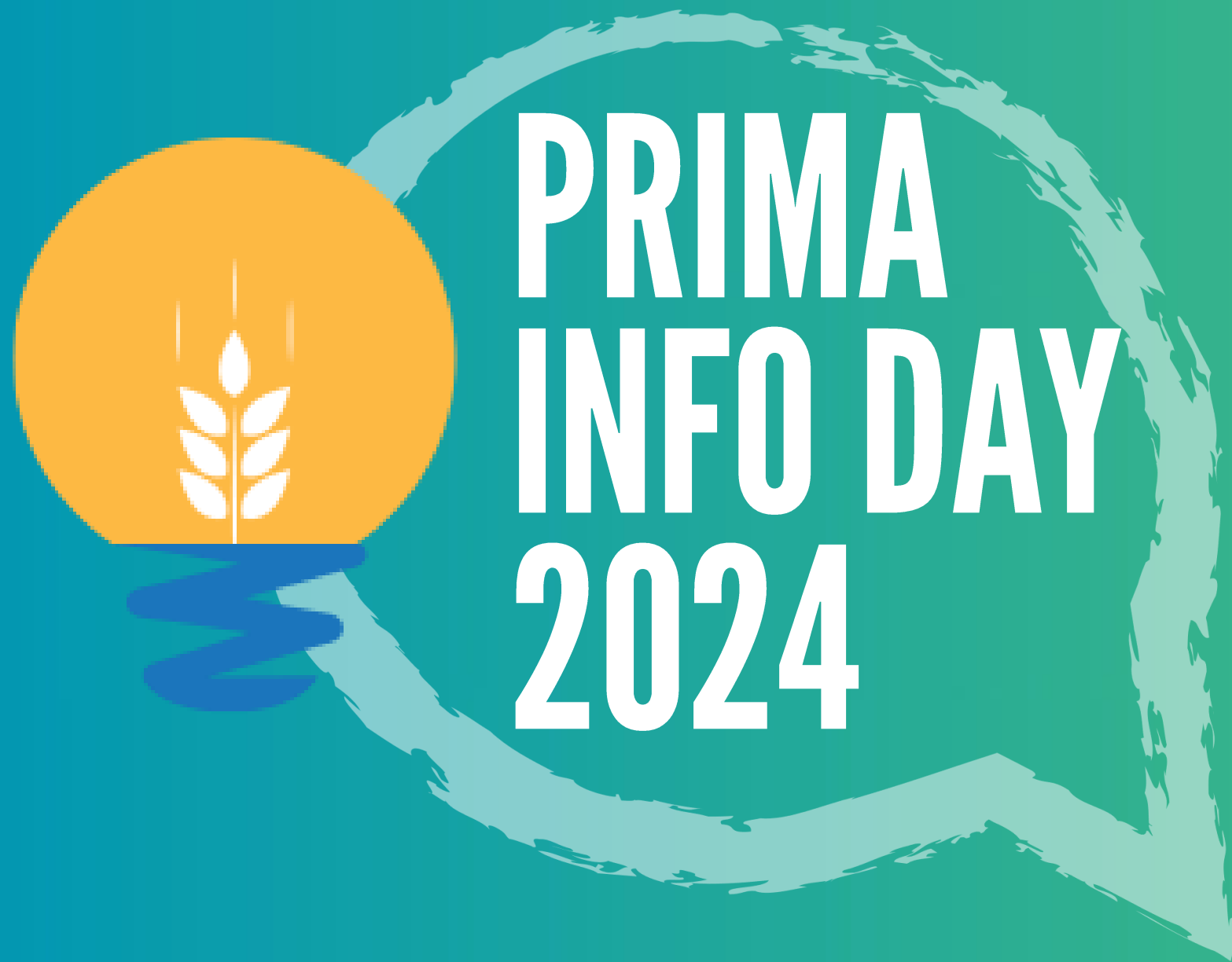
Nb. Business Models

NB. BUSINESS MODELS

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Thank you

Ali Rhouma, Project Officer

| 16th January 2023

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