

Program

10:00 am start of work

- Introduction to the NEUTRALISE project: activities, objectives and expected outcomes - Raffaele Cortignani, UNITUS-DAFNE
- Irrigation volumes and seasonal climatic weather conditions: challenges and reflections on the analysis of FADN data - Arianna Di Paola, CNR-IBE
- Analysis of drought in relation to Italian agriculture, forty years of observations and future prospects - Edmondo Di Giuseppe, CNR-IBE
- Economic analysis using FADN data - Raffaele Cortignani, UNITUS-DAFNE
- Evaluation of the productive and economic impacts on Italian farms - Rebecca Buttinelli, UNITUS-DAFNE
- The Responsiveness Scores model for the analysis of impact drivers - Antonio Zinilli, Simona Tarra e Giovanni Cerulli, CNR-IRCrES



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11:00 am Discussion and insights with the participation of

- Alessandra Pesce, CREA: Relationships between soil, land use and water
- Sonia Marongiu, CREA: water needs and FSDN
- Alessandro Monteleone, CREA-Rete Rurale: CAP 2023-2027 and post 2027
- Daniela Santori, ANBI: Drought in agriculture: role and strategies of *CdBI*

12:00 coffee break

Followed by a workshop between project participants and external researchers.

13:30 Lunch



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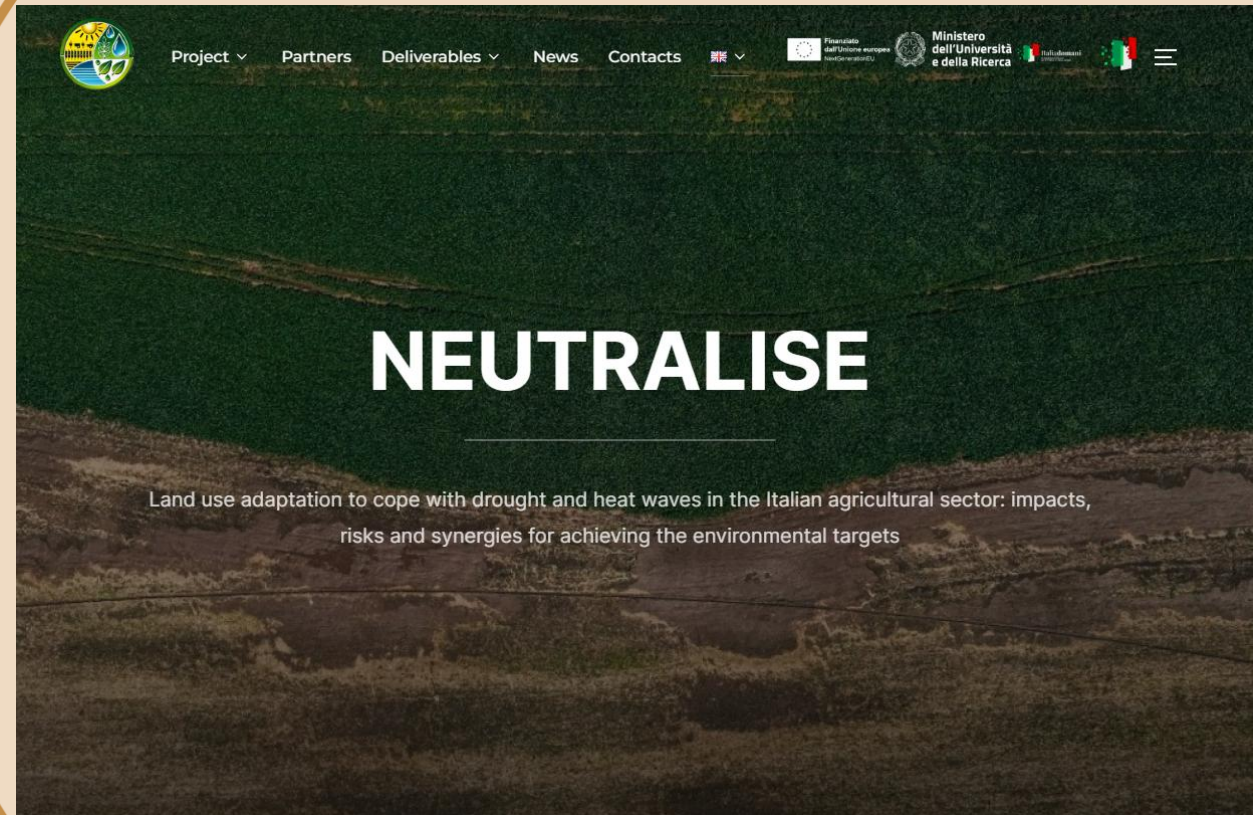
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Missione 4 Istruzione e Ricerca

**Introduction to the NEUTRALISE
project: activities, objectives
and expected outcomes**

**Prof. Raffaele Cortignani
UNITUS-DAFNE**





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Title and key words

Land use adaptation to cope with drought and heat waves in the Italian agricultural sector: impacts, risks and synergies for achieving the environmental targets (NEUTRALISE)

- Land use adaptation
- Drought and heat waves
- Agricultural sector
- Impacts, risks and synergies



Research units, PI and leaders

1. Università degli Studi della TUSCIA [CORTIGNANI Raffaele - PI]

2. Consiglio Nazionale delle Ricerche [ZINILLI Antonio]
 - A. IRCRES [ZINILLI Antonio]
 - B. IBE [DI PAOLA Arianna]



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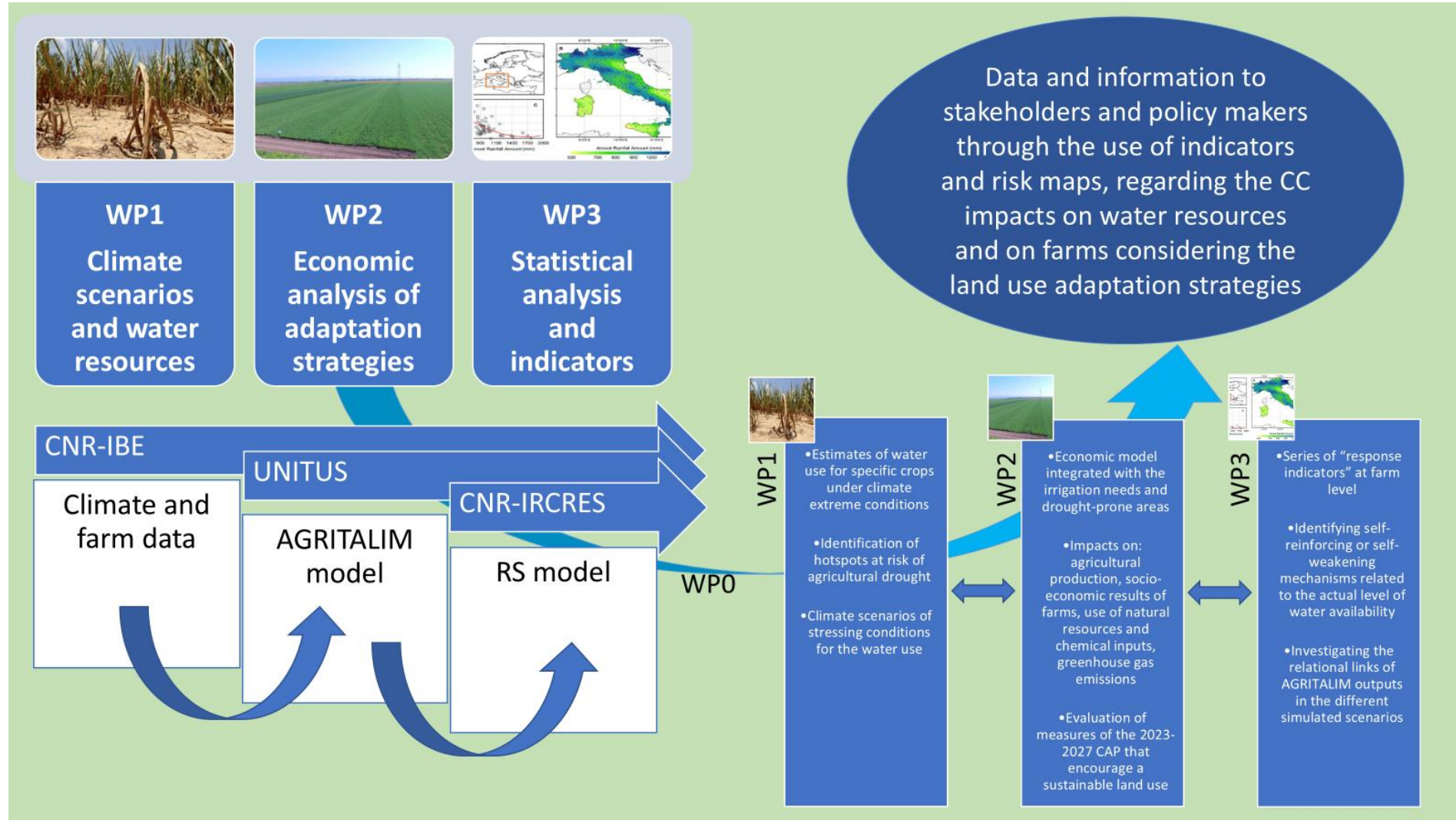


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General and specific objectives

- positive impact on the society will be to contribute to the achievement of **various 2030 Sustainable Development Goals**, and in particular **GOALS 1, 2, 6, 12 and 13**
- **advance of knowledge and progress** will concern the **individual research groups**, and the **whole integrated group** as a whole, stimulating the international scientific community to operate and research on the topic
- to create an **inter(multi)disciplinary research group** integrating knowledge and methods to obtain an operational instrument and know-how regarding the issue "**climate - adaptation strategies in agriculture – indicators/risk maps**"
- evaluate the **adaptation strategies** to reduce the negative impacts of drought and heat waves, including **land use change**
- possible **synergies** should be exploited to achieve the **environmental targets** of the **European Green Deal** and the **Farm to Fork strategy** (e.g. the cultivation of more resilient and environmentally sustainable agricultural crops, also thanks to the support of new CAP, can maintain the farms profitability)
- to **overcome some gaps at present**, and then can provide **useful information to stakeholders and policy makers** regarding the **CC impacts on water resources** and **farms** using **indicators** and **risk maps**





| UNIT | ACTIVITIES | MILESTONES | BIM 1 | BIM 2 | BIM 3 | BIM 4 | BIM 5 | BIM 6 | BIM 7 | BIM 8 | BIM 9 | BIM 10 | BIM 11 | BIM 12 |
|------------|---|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | jan-24 | mar-24 | may-24 | jul-24 | sep-24 | nov-24 | jan-25 | mar-25 | may-25 | jul-25 | sep-25 | nov-25 |
| CNR-IBE | Calibration of farmers' water uses with drought conditions | Milestone: 1 - Analysis of water uses at farm type level and identification of combined drought-heat waves' events | x | x | | | | | | | | | | |
| | Identification of hotspots highly at risk of agricultural drought in Italy | | | | x | x | | | | | | | | |
| | Future scenarios of drought hotspots | | | | x | x | x | x | | | | | | |
| UNITUS | Model update and implementation of scenarios on market prices and CAP 2023-2027 | Milestone: 2 - Integrated model (Climate&Economic) and sustainable adaptation strategies including the CAP 2023-2027 measures | x | x | x | | | | | | | | | |
| | Implementation of data on irrigation needs and drought-prone areas | | | | | | x | x | x | x | | | | |
| | Analysis of results inclusive of adaptation strategies | | | | | | | | | x | x | x | x | x |
| CNR-IRCRES | Statistical analysis of the AGRITALIM model results | Milestone: 3 - Indicators and risk maps about climate change impacts on water resources and farms | | | | | | | x | x | x | | | |
| | Mapping of responsiveness indicators | | | | | | | | | | x | x | x | |
| | Statistical relationship and risk maps | | | | | | | | | | | x | x | x |
| ALL | Communication, dissemination, exploitation (online platform) | Milestone: 4 - Results and indications for scientific community, stakeholders and policy makers | | | x | x | x | x | x | x | x | x | x | x |
| | Communication, dissemination, exploitation (workshop, seminars) | | | | | | | | x | | x | | | |
| | Communication, dissemination, exploitation (final meeting) | | | | | | | | | | | | | |
| UNITUS | Project coordination and administration | Milestone: 5 - Integration between research groups and obtaining the research and financial results | x | x | x | x | x | x | x | x | x | x | x | |