











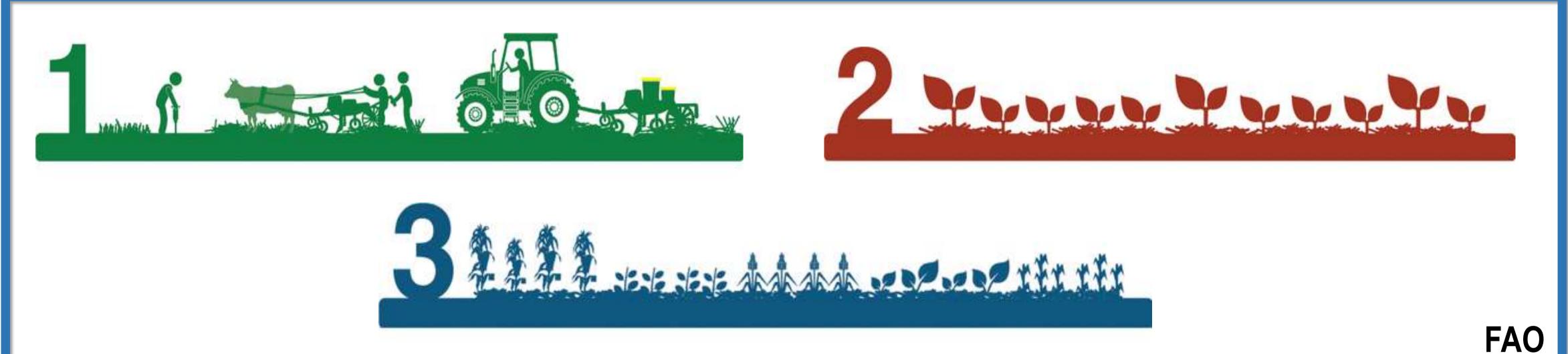
VICERRECTORATE OF SCIENCE POLICY



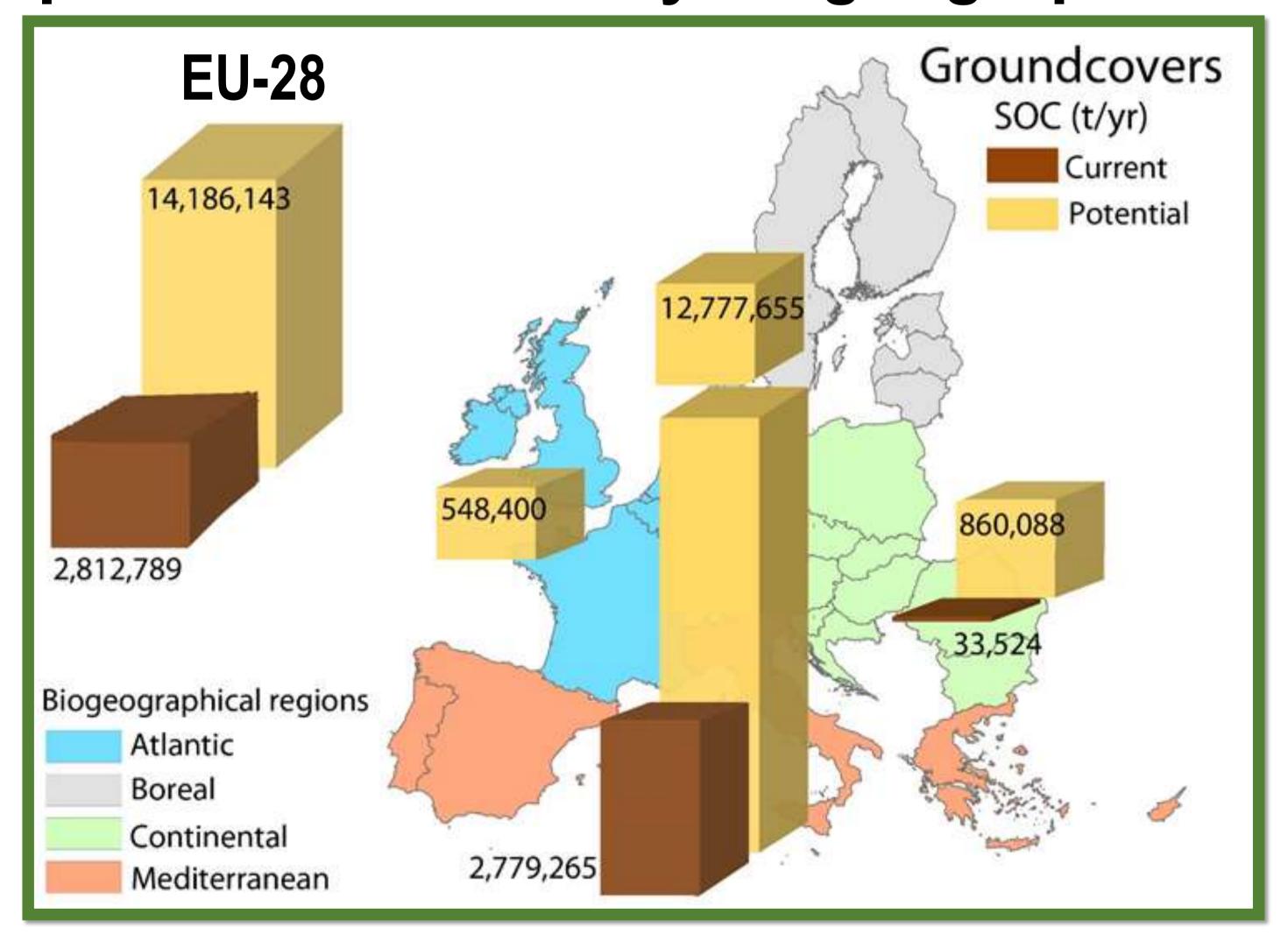
LifeAgroTrack



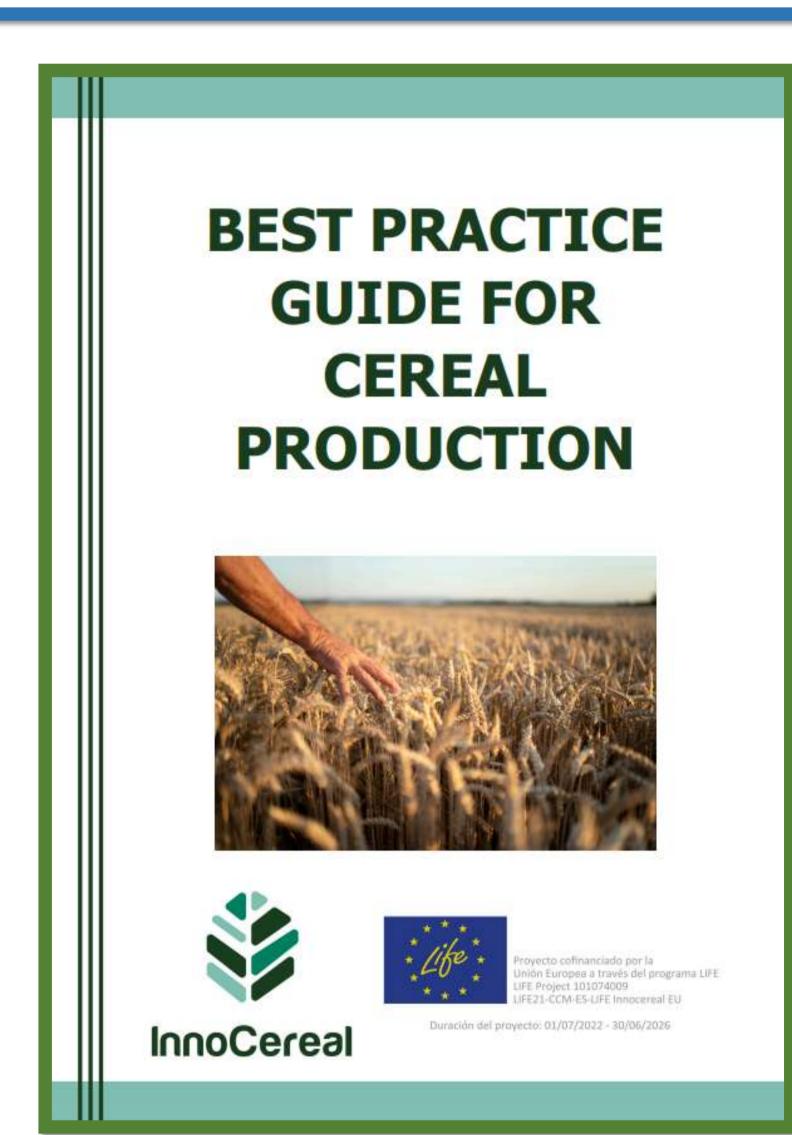
Three principles of Conservation Agriculture (CA)



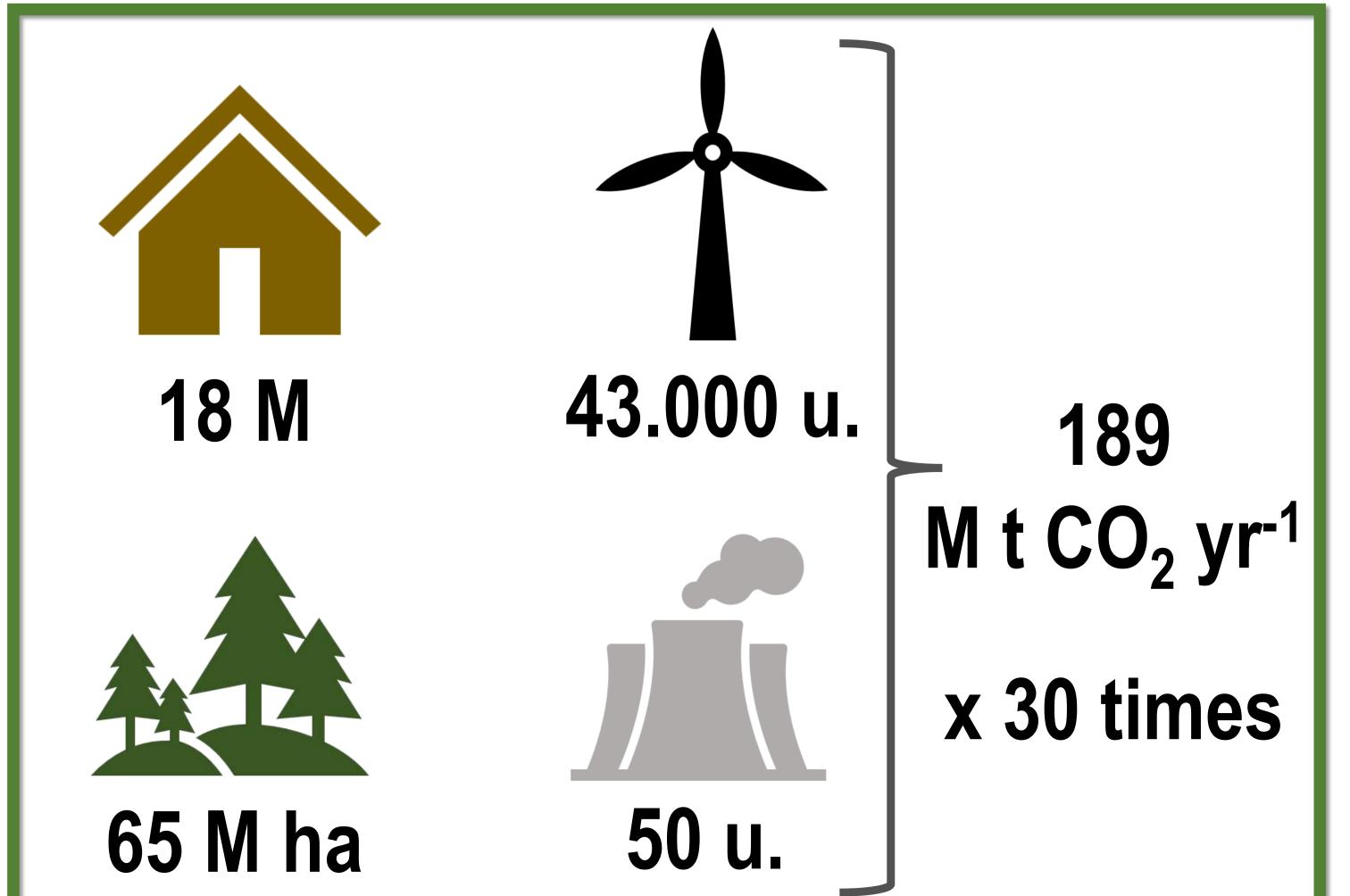
Current soil organic carbon and its potential with CA by biogeographical



No-tillage **EU-28** SOC (t/yr) Current 37,381,131 160,946 Potential 6,825,929 225,244 1,511,706 13,349,235 Biogeographical regions Atlantic Boreal Continental 758,799 Mediterranean



Climate change mitigation potential by Conservation Agriculture



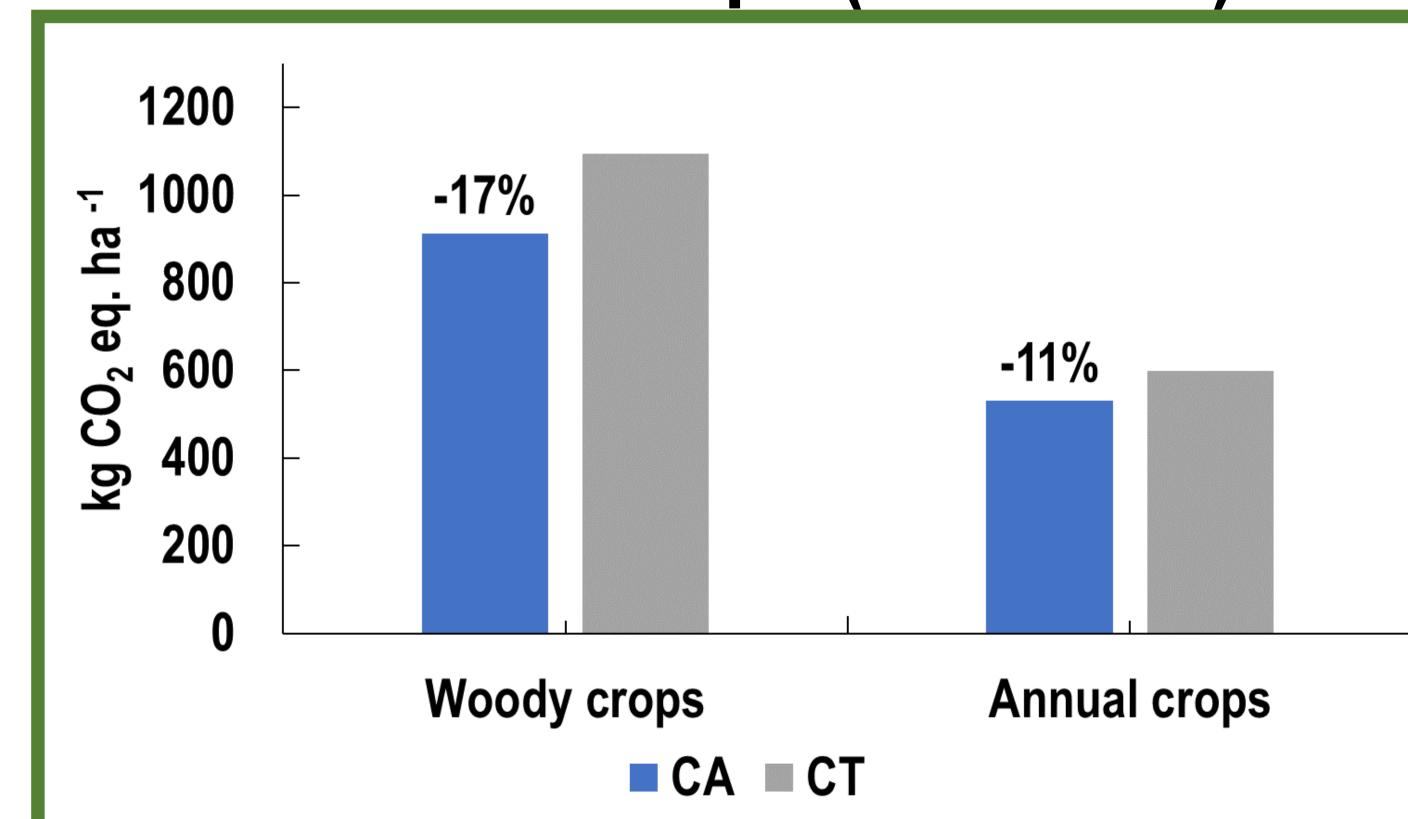
Barley in no-tillage



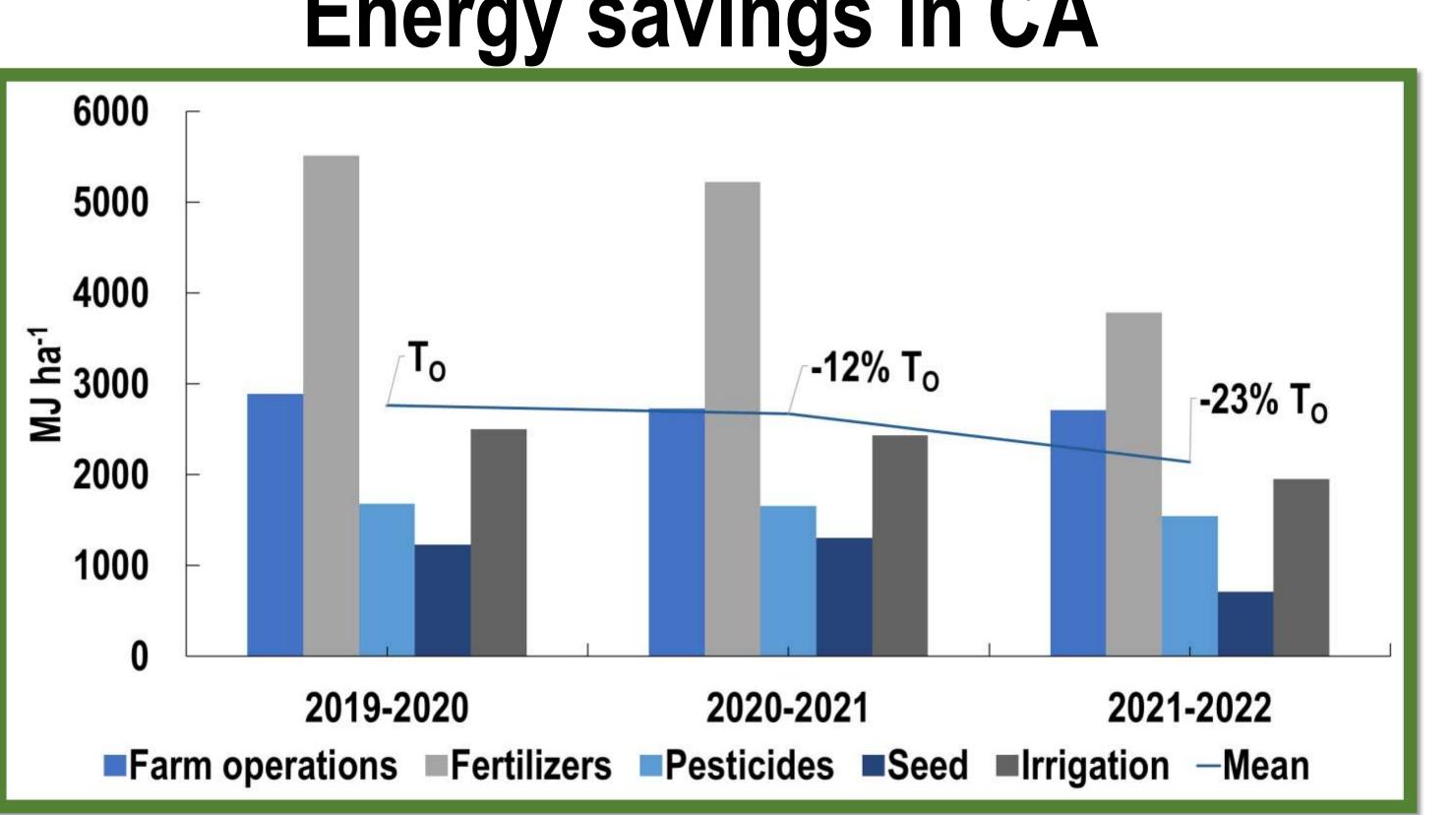
Groundcover in olive groves



CO₂ emissions for woody and annual crops (CA vs CT)



Energy savings in CA



LIFE Carbon Farming APP



INTERNATIONAL OLIVE GERMPLASM BANK OF CORDOBA



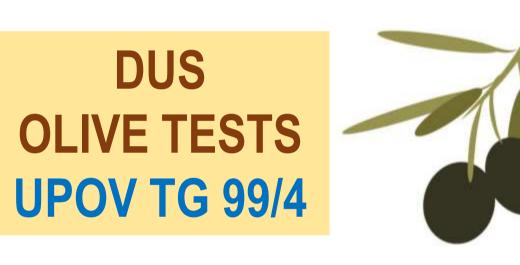
CONSERVATION OF THE OLIVE GENETIC RESOURCES, CHARACTERISATION AND STUDY OF EXISTING OLIVE VARIETIES IN THE WORLD



OLIVE VARIETIES EXAMINATION CENTRE



TECHNICAL EXAMS FOR THE **NEW OLIVE VARIETIES:** PROTECTED AND COMMERCIAL **VARIETIES**







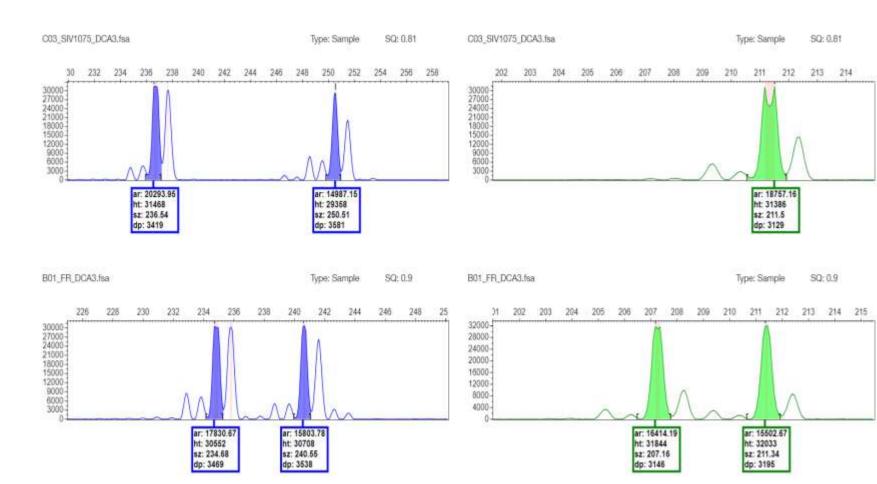


PUBLIC ISOLATED REPOSITORY SPANISH COMMERCIAL VARIETIES THOC PROJECT (INTERNATIONAL ISOLATED REPOSITORY)

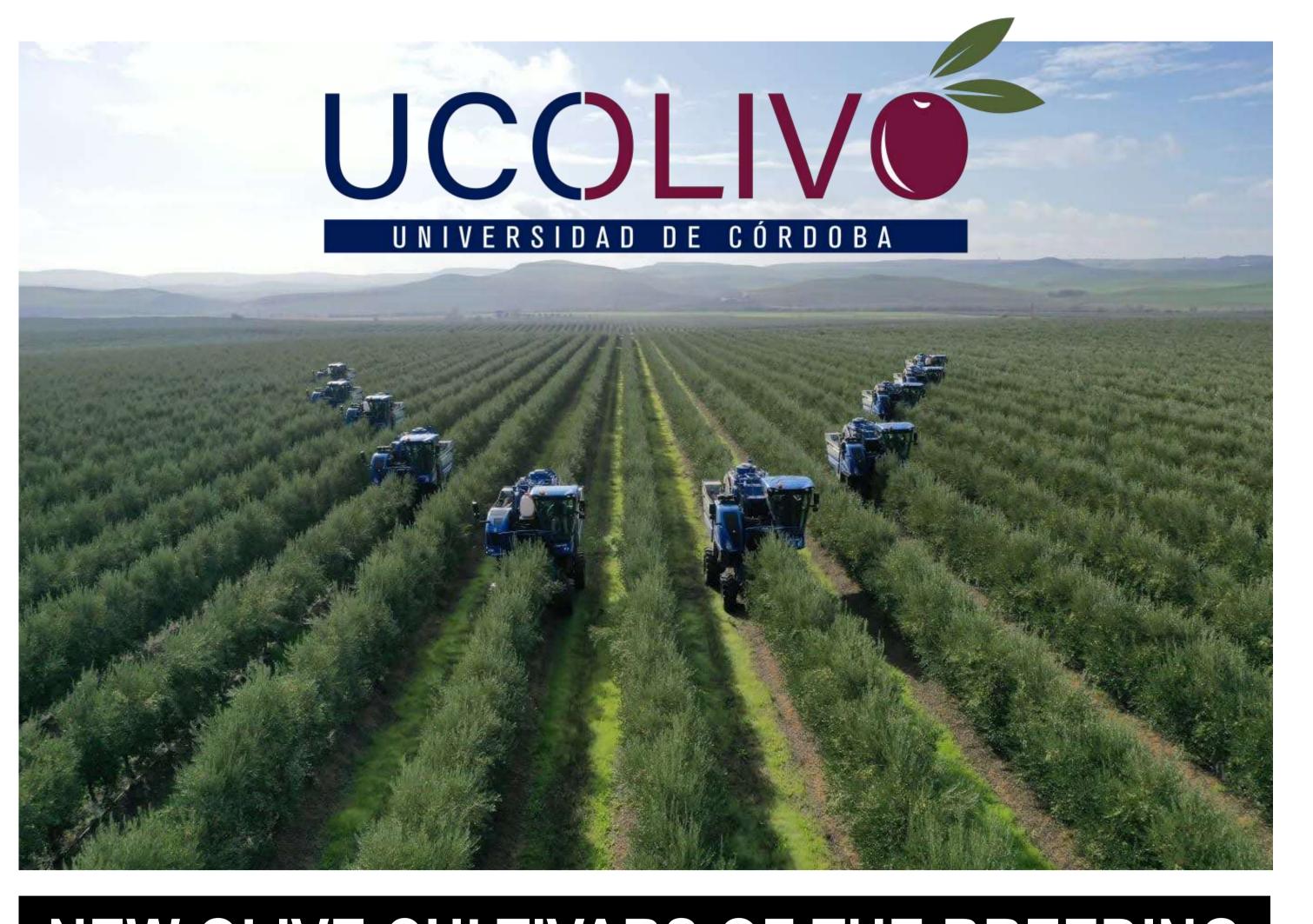


PRODUCTION OF PREBASIC AND BASIC MATERIAL FOR CERTIFICATION TRUE TO TYPE (AUTHENTIC) HEALTHY (PATHOGENS FREE)

OLIVE VARIETIES IDENTIFICATION SERVICE



UNIQUE SERVICE IN THE WORLD OLIVE VARIETAL IDENTIFICATION USING MOLECULAR AND MORPHOLOGICAL MARKERS









'SIKITITA – 2'



'MARTINA'



'SULTANA'







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GEN4OLIVE

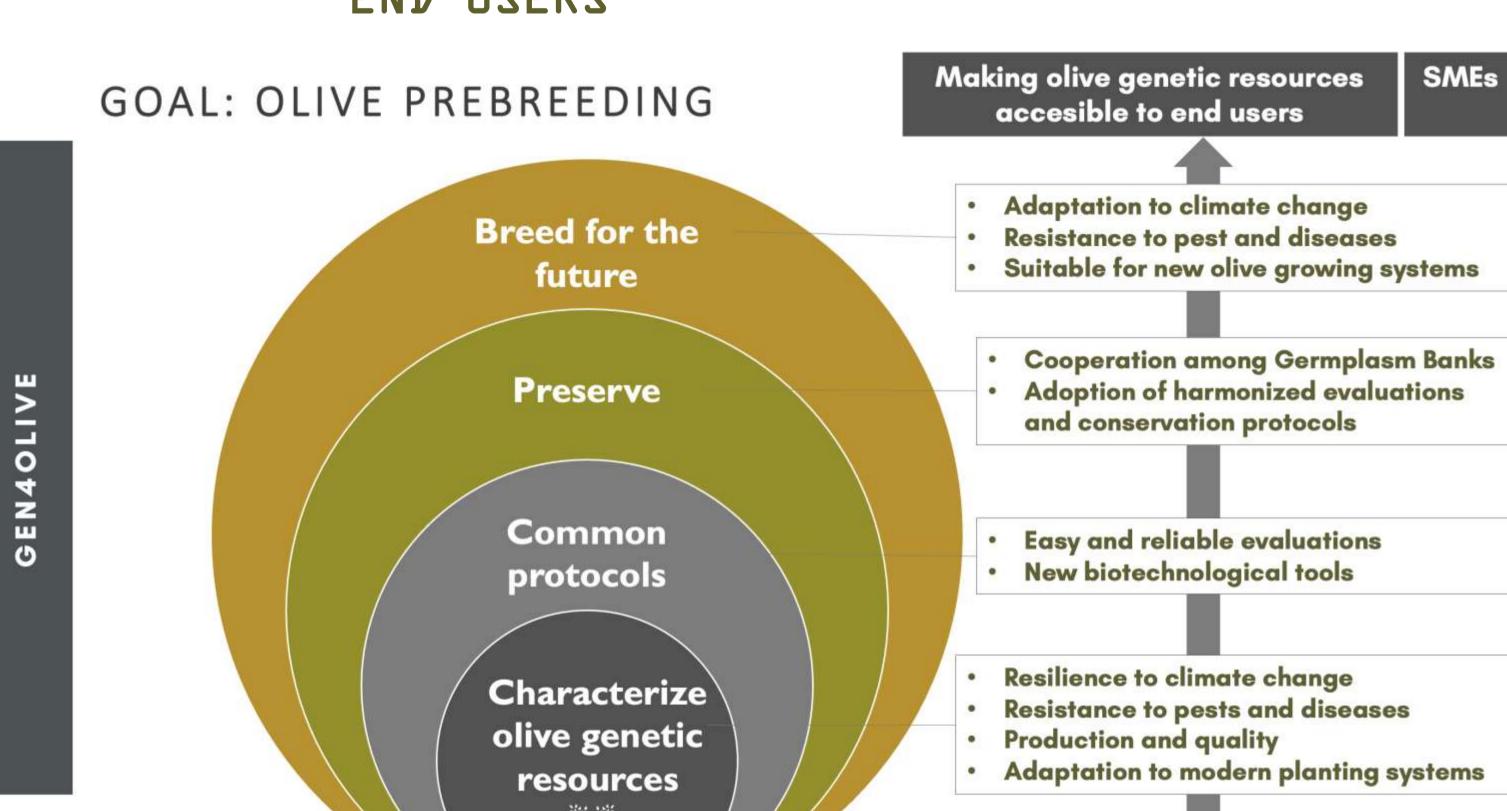
MOBILIZATION OF OLIVE GENRES THROUGH PRE-BREEDING ACTIVITIES ENSURING INFORMATION AVAILABILITY FOR END USERS







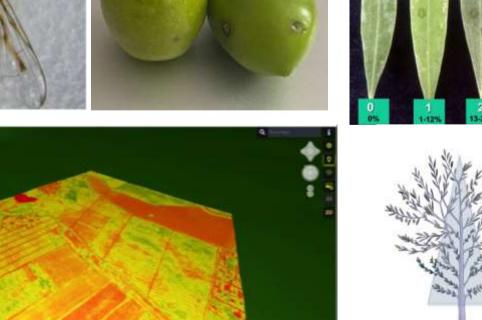


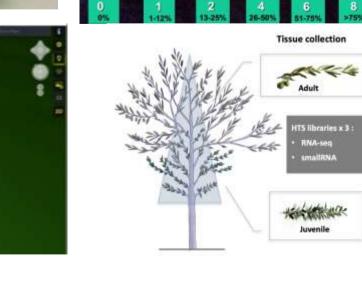


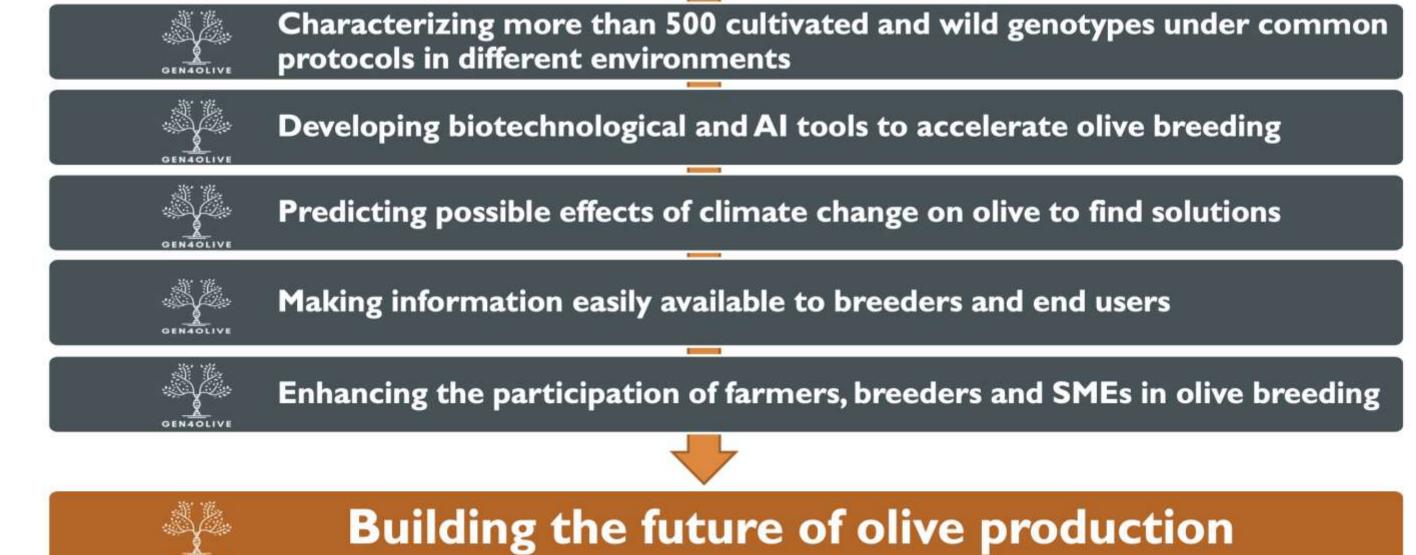














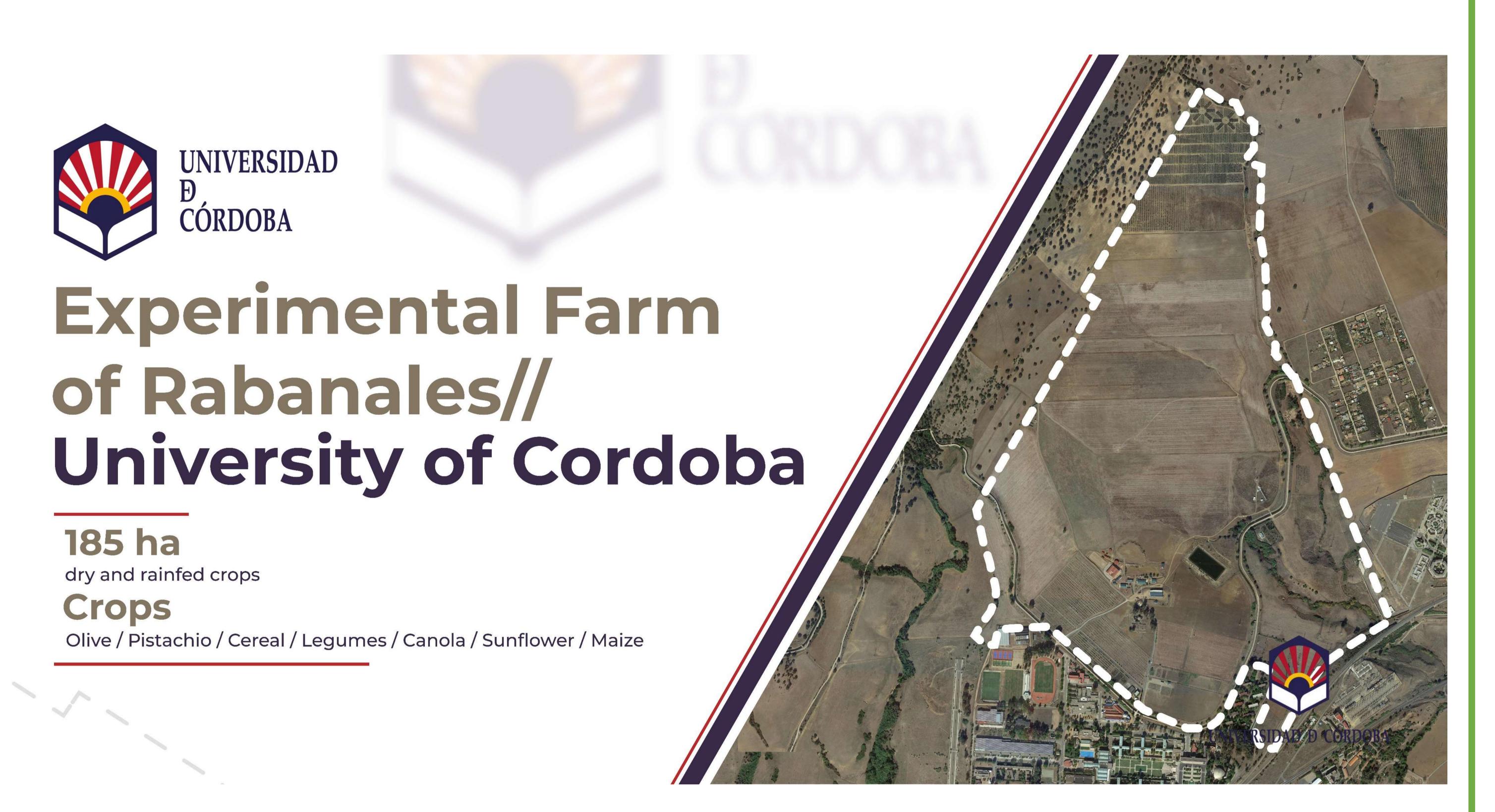


EXPERIMENTAL FARM OF RABANALES

An Innovative Ecosystem of Sustainable & Digital Agriculture

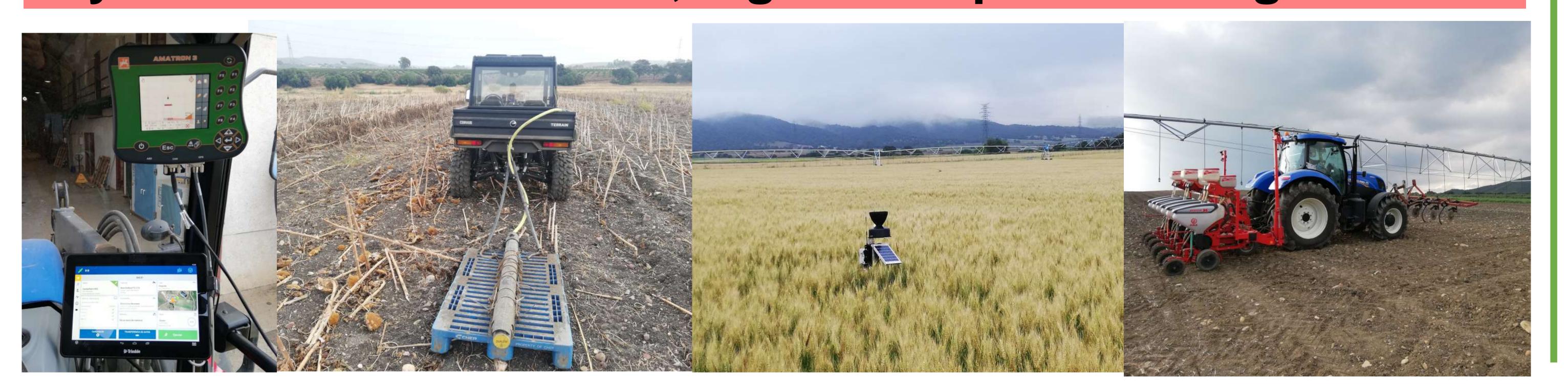


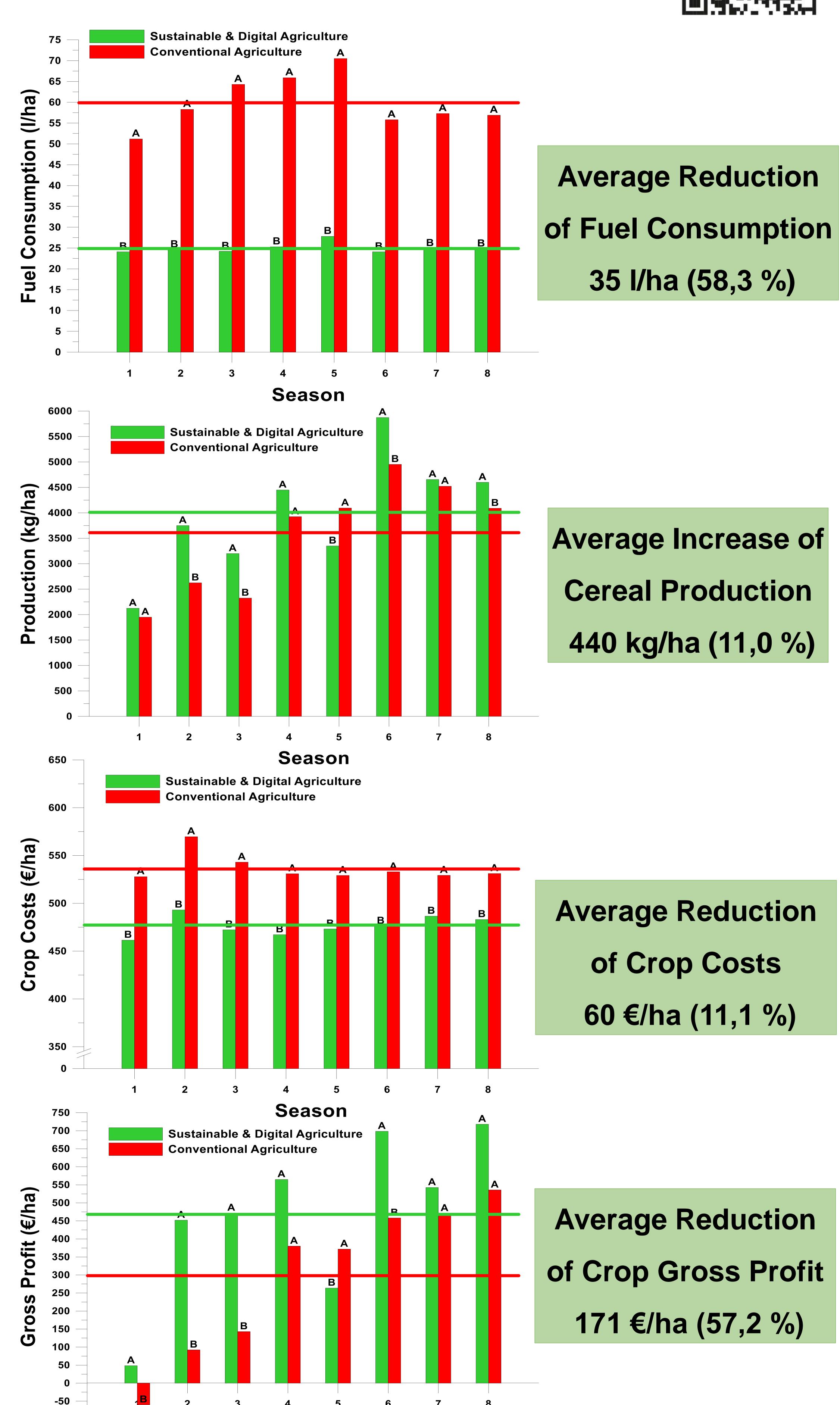
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- > 20 Research Groups Working in the Experimental Farm
- > 7 International Projects
- 22 Multinational Companies and Associations Collaborating on the Experimental Farm
- More than 2.7 M € captured in the last 10 years in Scientific Equipment Infrastructure

Our core is to implement and adapt new technology systems in a sustainable, digital and profitable agriculture





Seanson



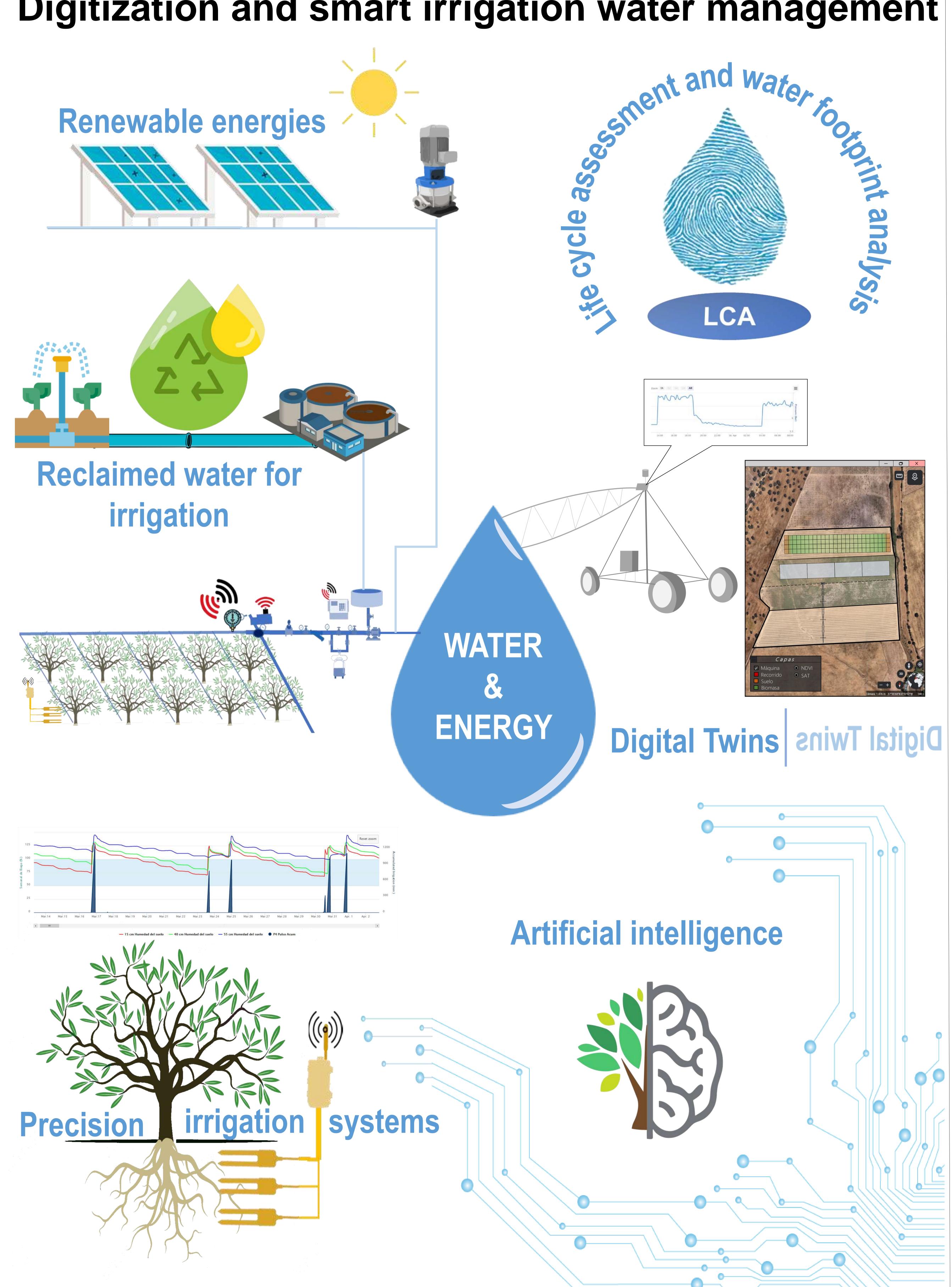




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Digitization and smart irrigation water management



Applications of Remote Sensing in Agriculture



From REGIONAL to LOCAL scale





Air quality

- Common Agricultural Policy
- Trends and Climate Response
- Crop variety and climate adaptation
- Weeds detection
- Food security

LiDAR



From Multispectral DATA to INFORMATION Hypersepctral Thermal

