



European Conference: Biodiversity in Food Supply Chains

Monitoring of Biodiversity Indicators in Citrus Cultivation The BioDiversity Grow Programme

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BIODIVERSITY GROW IS A STANDARD FOR THE PRODUCTION, PACKAGING, INDUSTRY AND SUSTAINABLE TRADE OF FRUIT AND VEGETABLES

2019. **BioDiversity Grow** is created by
Quality & Adviser, SL;
together with The
Polytechnic University
of Valencia

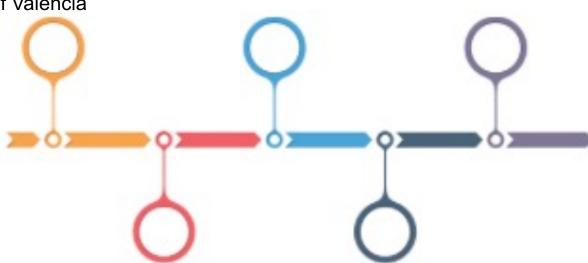
2021. BioDiversity
Grow it can be certified
by SGS

2021. BioDiversity Grow joins Food For Biodiversity









2%6

WHITE 2%6

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2022. More than 3000 hectares of fruits and vegetables implement the program

2024. BioDiversity
Grow joins the ESS
Global G.A.P. Working
Group



How do we do it and what do we contribute in BioDiversity

Increase?

			feb		mar		apr		may		jun		jul		aug		sep		oct		nov		dec	
initial visit																								
follow-up visits																								
flora evaluation vis	its																							
soil samples																								
aerial samples																								
laboratory work																								
technical visits																								
reports	·																							



Field: BioDiversity: Periodic Visits/Field Monitoring

Sampling – Evaluation of irrigation and fertilizer use



Laboratory: Biodiversity Analysis

Analysis of indicators and proposals for improvement



BioDiversity Grow Reports

Technical training support





Progress assessment and qualification

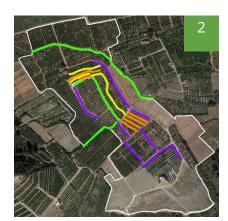
Development of strategies Impact Assessment of Phytosanitary Treatments (EIQ) and to select the cover fields that can be home of key species

DETAIL OF THE WORK IN EACH FARM BIODIVERSITY ASSESSMENT: ECOLOGICAL INFRASTRUCTURES

Ecological INFRASTRUCTURES (EI) provide different ecosystem services to the environment.

- 1-External ecological infrastructures
- 2-Permanent internal ecological infrastructures (hedges)
- 3 & 4- Non-permanent internal ecological infrastructures: spontaneous vegetation covers and planted vegetation covers.











BIODIVERSITY EVALUATION: BIOINDICATORS

The FUNCTIONAL BIODIVERSITY of AUXILIARY FAUNA BIOINDICATORS (arthropods whose presence and abundance indicate the quality of the agricultural ecosystem)

5. Aerial entomofauna





6. Aerial acarofauna





7. Edaphofauna



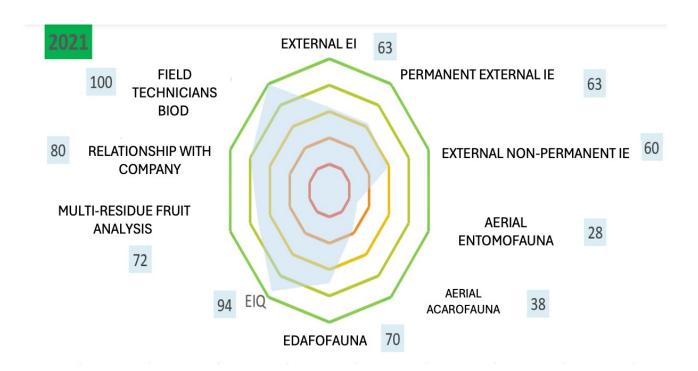


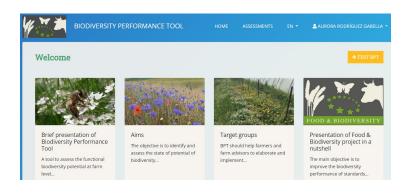




PROMOTION OF BIODIVERSITY

Criteria aligned with the Food For Biodiversity Basis Set







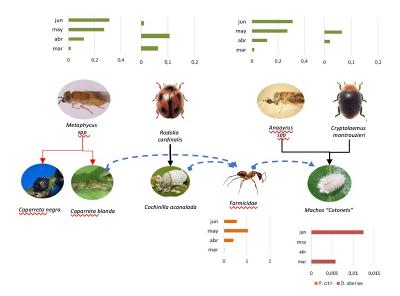
KEY ASPECTS OF BIODIVERSITY MONITORING AND PROMOTION

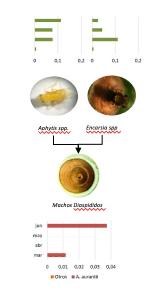
• Decision support: Aerial Entomofauna.

In order to obtain an overall view of the farm's ecosystem, pest have been related to their parasitoids and predators.

 Analysis of internal ecological and nonpermanent infrastructures: actions

The change in the management of the vegetation cover from interline to mechanical management is further developed. Likewise, species that improve soil properties and compete against other invasive species present on the farm are selected; and others are selected to provide food (pollen and nectar to the auxiliary fauna).



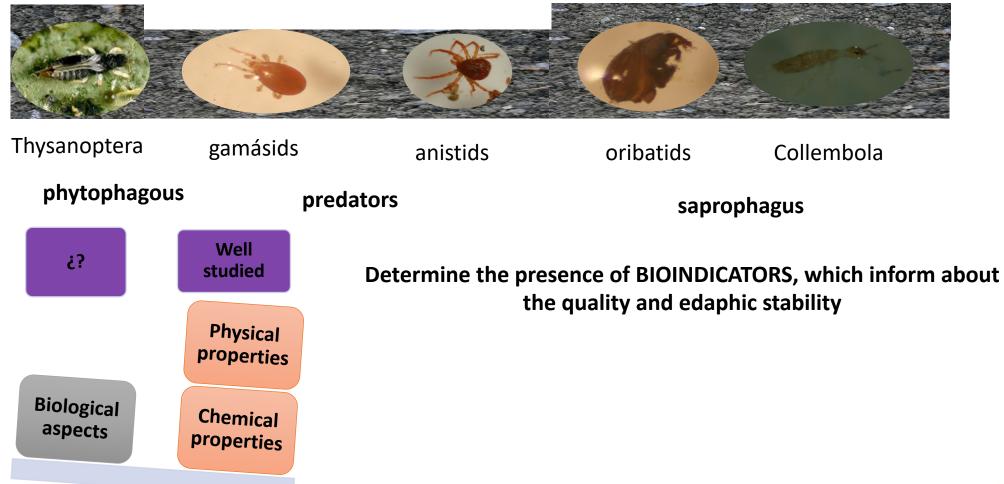






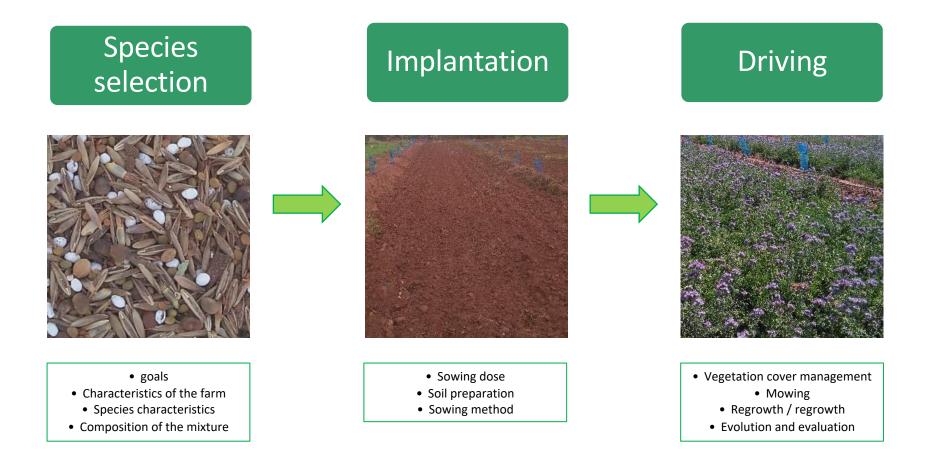


HELP IN MAKING DECISIONS: SOIL EVALUATION



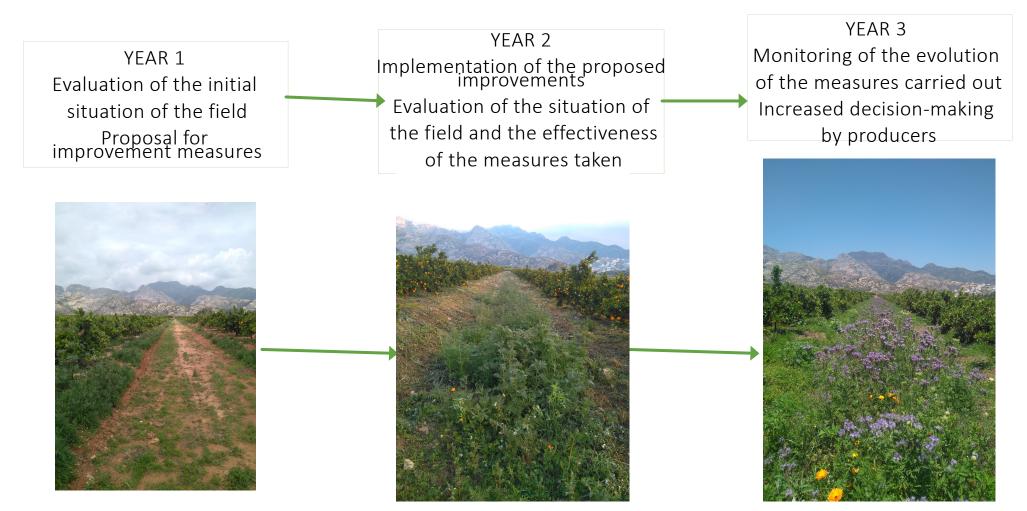


MULTI-SPECIES PLANTING PROPOSAL





PROCESS OF ACCOMPANIMENT AND IMPLEMENTATION OF CONCRETE MEASURES TO IMPROVE BIODIVERSITY FOR APTRANSITION TO SUSTAINABILITY









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