LIFE CLINOMICS
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Promoting resilience
Opportunities and challenges of the local economy and society to adapt to climate change

THE ADAPTATION OF AGRICULTURE TO CLIMATE CHANGE AND THE ROLE OF LOCAL AUTHORITIES

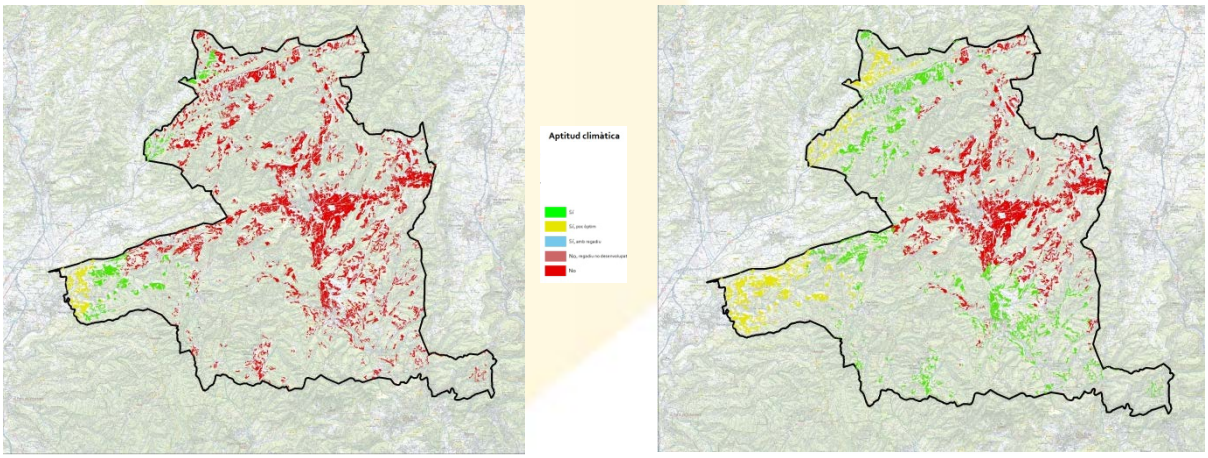
Parc Agrari del Baix Llobregat - 6 June 2018

Agriculture and climate change. Organic agriculture

Jordi Puig (L'Espigall)

Agriculture is one of the sectors that will suffer most from the effects of Climate Change. In this sense, the creation of adaptation strategies in order to reduce the adverse effects on agriculture are essential.
In this sense, climate-based agricultural planning is essential in order to advance actions, anticipate new water supplies, change varieties or establish new ways of managing agriculture.
At the planning level, work is being done to detect what may be the optimal potential distributions of various crops in specific areas of the territory. Also, work is underway to determine new irrigation needs or production loss forecasts in order to generate new food supply scenarios.

Current and future climatic suitability of a crop in the current and future scenario (2030-50)



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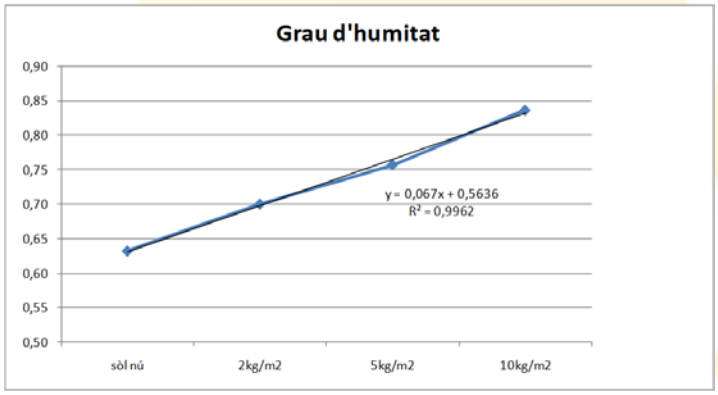
Various strategies emerge from this planning process, but one of the most powerful is organic farming.

Many of the instruments, processes and requirements of organic farming are aimed at increasing the resilience of agricultural systems, making them more self-sufficient. However, this type of agriculture is especially interesting in the face of Climate Change, as it takes into account the basic parameter for tackling climate change.

Soil when it has a good structure and richness of stable organic matter can be a powerful agent for mitigating the effects of climate change, as it allows to store more water in the soil, reduce erosion, store carbon stably and generate higher quality food.

Columna1	sòl nú	2kg/m2	5kg/m2	10kg/m2
unitat mesura	126,34	140,55	151,37	167,21
% absolut	63,17%	70,00%	75,69%	83,61%
% relatiu		11,25%	19,82%	32,36%



Relationship between organic matter applied to the soil and its conservation of moisture