

THE FRUITS AND VEGETABLES INDUSTRY SERIES

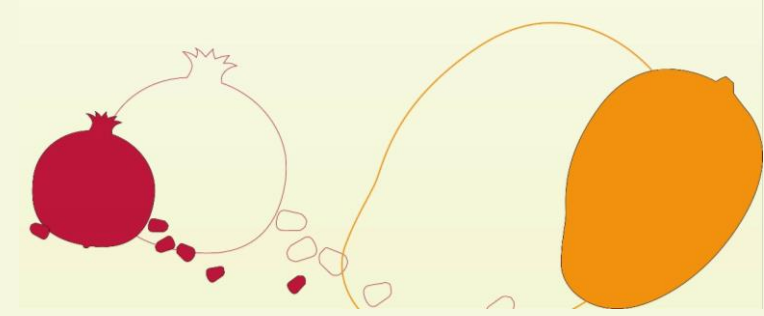
16 May 2023



Session 4 – Impact of climate change on production and quality of fruits and vegetables



FRUIT AND VEGETABLES SCHEME



ORGANIC FRUIT & VEGETABLES... AND MORE!

CLIMATE IMPACT
SESSION



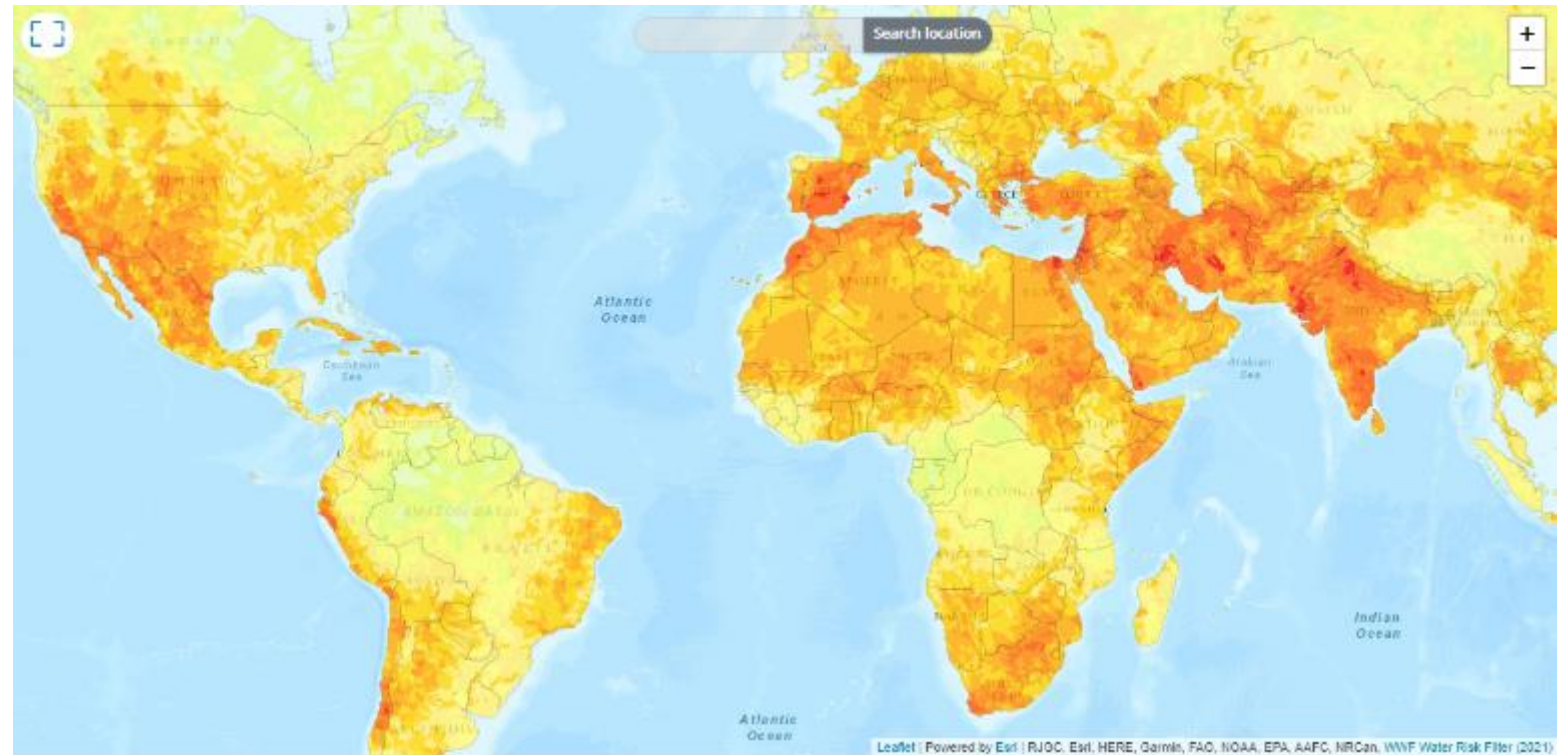
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CLIMATE CHANGE



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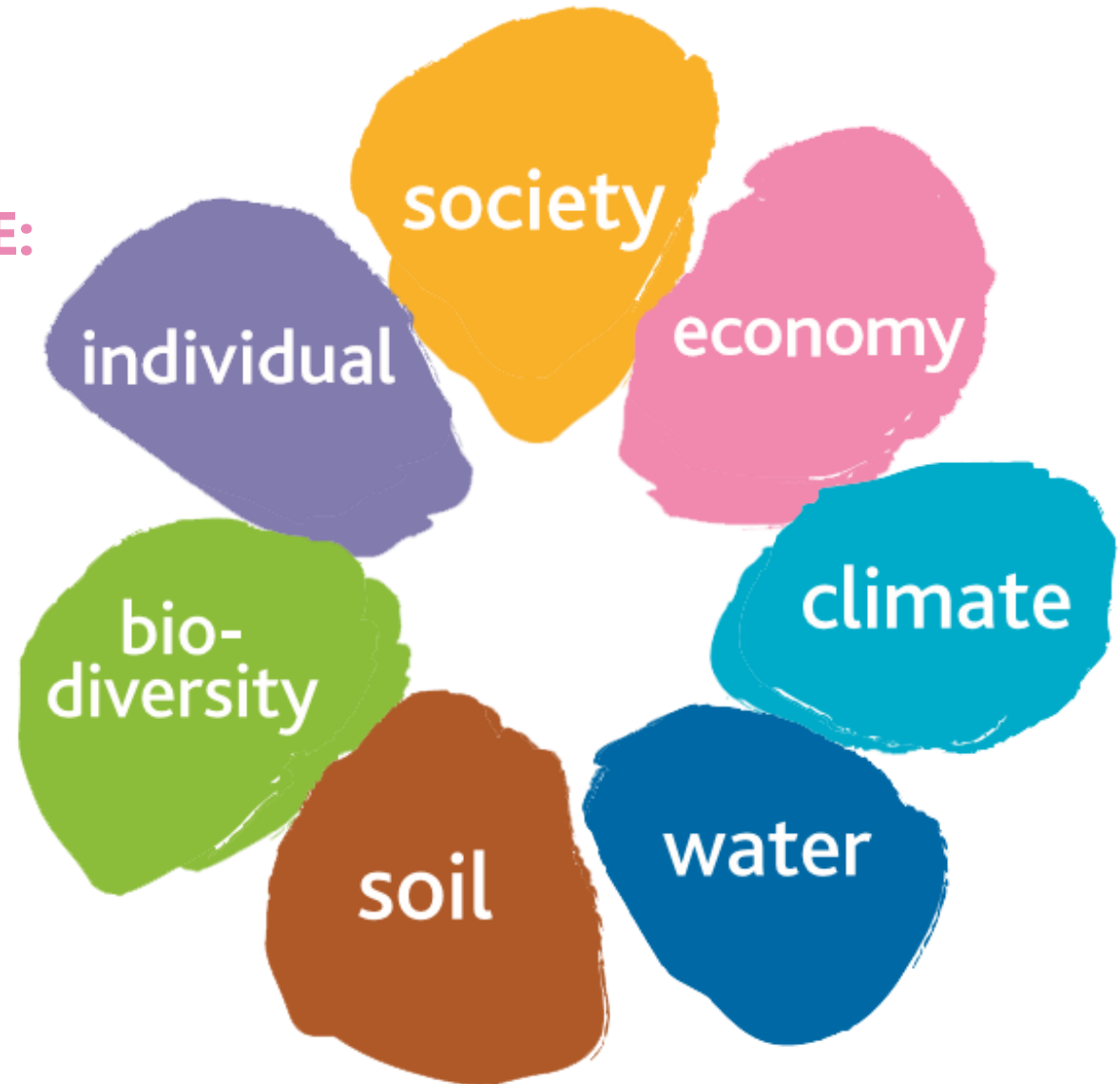
- Shifting seasons
- Intense rains vs drought
- Lower yields
- Fruit sizing



IMPACT ASSESSMENTS

EUROPEAN UNION (EU) DIRECTIVE: CORPORATE SUSTAINABILITY REPORTING DIRECTIVE (CSRD)

MAPPING IMPACT ON PEOPLE AND PLANET

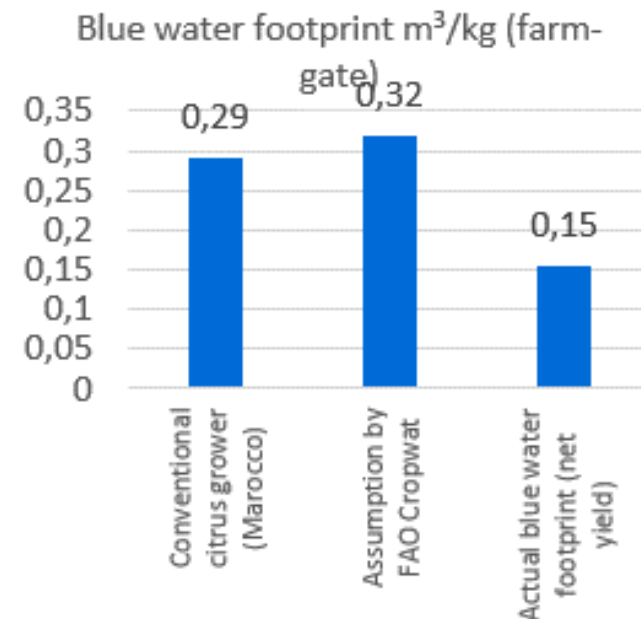
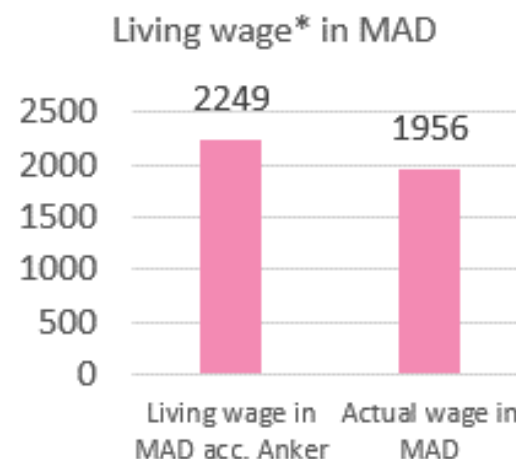
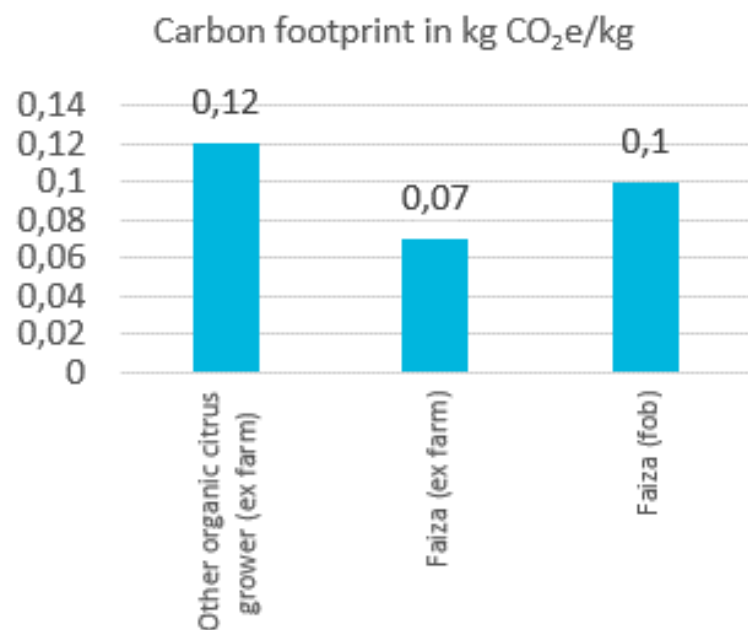


THE SUSTAINABILITY FLOWER - MEASURING



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Comparison with secondary data



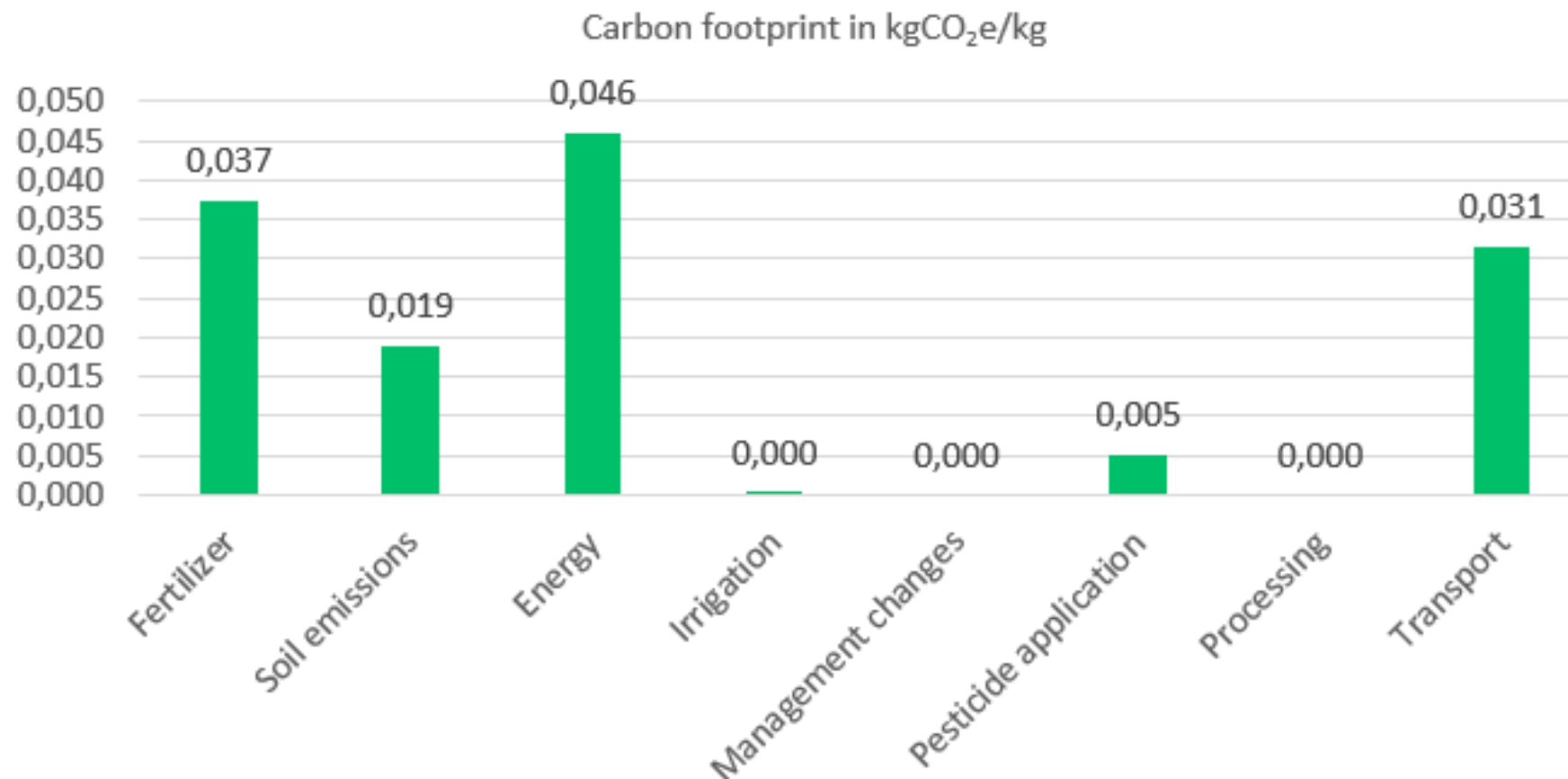
¹ Basset-Mens et al. (2016): Environmental impacts of imported and locally grown fruits for the French market: a cradle-to-farm-gate LCA study. Fruits 71, 93–104.;

FAO Climwat/Cropwat (Meknes)

THE SUSTAINABILITY FLOWER - MEASURING



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Carbon footprint:

2247,04 kg CO₂e / ha

0,139 kg CO₂e / kg

Tree biomass is not included in the carbon footprint.

SUSTAINABLE SOLUTIONS

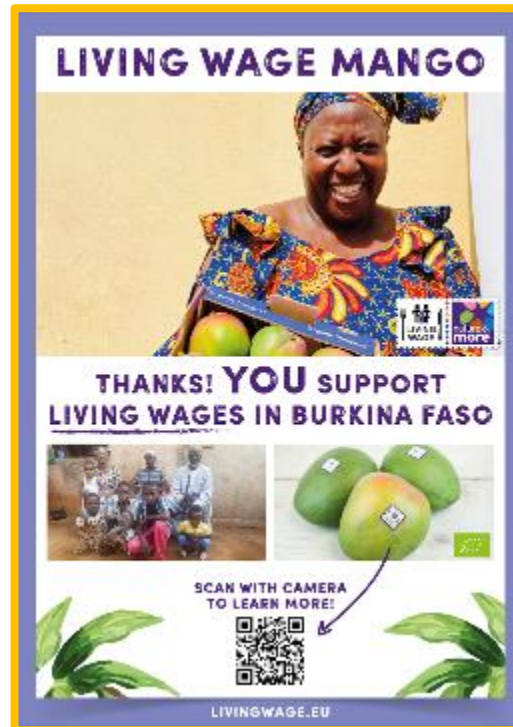


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■ Farming System Approach

- Creating a resilient system
- Building up soil organic matter
- Soil Coverage
- Mulching
- Selection of crop and variety

- **Inclusive Price**
- Based on the Living Wage GAP we define a premium per Kg product. Added to the market price this will result in the Living Wage inclusive price. The premium will be directly transferred to workers' fund in Burkina Faso.



ORGANIC TOO EXPENSIVE... OR CONVENTIONAL TOO CHEAP?

CLICK HERE AND DISCOVER THE TRUE BENEFITS AND COSTS OF GONZALO'S ORGANIC AVOCADOS!

THE TRUE COST OF FOOD

nature & more

LIVELIHOODS
Conventional cost: € 99\$
Organic benefit: € 1.02\$
Organic benefit for society: € 2.02\$

HEALTH
Conventional cost: € 2.80\$
Organic benefit: € 49\$
Organic benefit for society: € 3.24\$

CLIMATE
Conventional cost: € 514\$
Organic benefit: € 1101
Organic benefit for society: € 4.244

BIO-DIVERSITY
Conventional cost: € 216\$
Organic benefit: € 254
Organic benefit for society: € 2417

SOIL
Conventional cost: € 116\$
Organic benefit: € 254
Organic benefit for society: € 1417

WATER
Conventional cost: € 752
Organic benefit: € 984
Organic benefit for society: € 1136

cost comparison per hectare / year, and according to FAO

>>> NATURE & MORE GROWER PASSPORT >>>

<<< GONZALO DE LA VEGA <<< PERU <<<

CLIMATE
The use of compost and mulch increases carbon sequestration in the soil. Since Gonzalo's Fruit is an organic farm and does not use any energy draining chemical fertilizers and pesticides, their products have a relatively low carbon footprint. Furthermore, the fruits are shipped to Europe, which is again an energy efficient means of transport. Making the organic option and your annual energy needed, according to a study by Soil & Water International Ltd.

WATER
The organic, compost Gonzalo's Fruit uses improves the water holding capacity of the soils and therefore reduces the water consumption of the plants. To irrigate the fields, they opt for a drip system, which is the most water efficient system.

SOIL
To maintain soil fertility, particularly in and around the Gonzalo's, compost is the answer. The positive effects of composting are numerous. Soil water management is improved, with better drainage and reduced erosion and runoff. As a result, the soil is more resistant to drought or flooding. Biodiversity is greatly improved. Soil water resources are increased. More organic matter is stored in the soil, that contributes to greenhouse gas emissions in short, good composting brings fertility to the whole system.

RE & MORE ORGANICS!

GONZALO DE LA VEGA <<< PERU <<<



THE FRUITS AND VEGETABLES INDUSTRY SERIES

Thank you



FRUIT AND VEGETABLES SCHEME



The OECD-COLEAD Fruits and Vegetables Industry Series focuses on market access conditions and opportunities for the fruit and vegetable sector, especially for fruit and vegetables producers and exporters from ACP-countries. This activity is supported by the Fit For Market Plus programme, implemented by COLEAD within the Framework of Development Cooperation between the Organisation of African, Caribbean and Pacific States (OACPS) and the European Union.