



EU CAP Network workshop
'Enhancing food security under changing
weather patterns: farm adaptation'

14 - 15 March 2023, Bologna | Italy



Funded by
the European Union

Workshop: 'Enhancing food security under changing weather patterns:
farm adaptation' | 14-15 March 2023 | Bologna, Italy



Organic Avocado Farming in a “Controlled Environment”

Keyvan Ramezani

AVO.BIO EU organic avocado souloton





But Why ?

From popular avocado to desertification in southern Spain

<https://inspain.news/from-popular-avocado-to-desertification-in-southern-spain/>

MALAGA – From June-September, farmers of subtropical crops in La Axarquía region look anxiously from their land to the sky. The warm microclimate allows their tropical fruits, such as the avocado to thrive. However, it also punishes them with a chronic lack of precipitation.

Poorly organised irrigation and climate change are leading to severe water scarcity in La Axarquía region, east of Málaga. Spanish newspaper El Mundo writes water resources are no longer sufficient for the crops that were planned by the government 32 years ago.

Add to this the vastly reduced water resources as a result of the production of more subtropical crops that require irrigation. **Over three decades ago, less thirsty crops such as olives and almonds grew in this southern Spanish region. However, now avocado and mango plantations dominate the scene.**

Stop Europe's largest avocado in Portugal "before it sucks us dry"

<https://www.portugalresident.com/lagos-avocado-overlords-hear-they-could-be-hit-with-fine-for-millions-of-euros/>

Since 2014 Europe's largest avocado monoculture was planted where natural landscapes used to prevail.

Today more than 3,5 MILLION LITERS of water are being used to water 50.000 AVOCADO TREES on more than 200 HECTARES of land (bought by two different companies)!

This happens EVERY SINGLE DAY in our neighbourhood - where the rivers and wells run dry in times of nearly no rainfall.

What will happen if one day we run out of water?



Only in Europe ? No in Chile...



The avocado agribusiness and the water crisis in Petorca, Valparaiso Chile



Last update:
2021-11-30



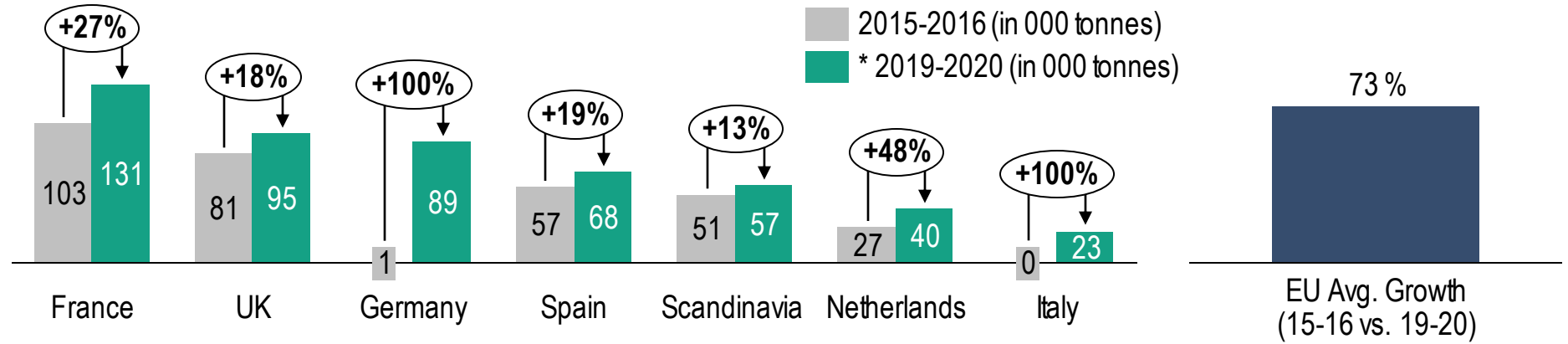
Petorca (Chile) has been covered with thousands of avocado trees which have aggravated a water crisis in the region causing negative impacts to the environment and to the lives of the inhabitants.

And in Mexico ...

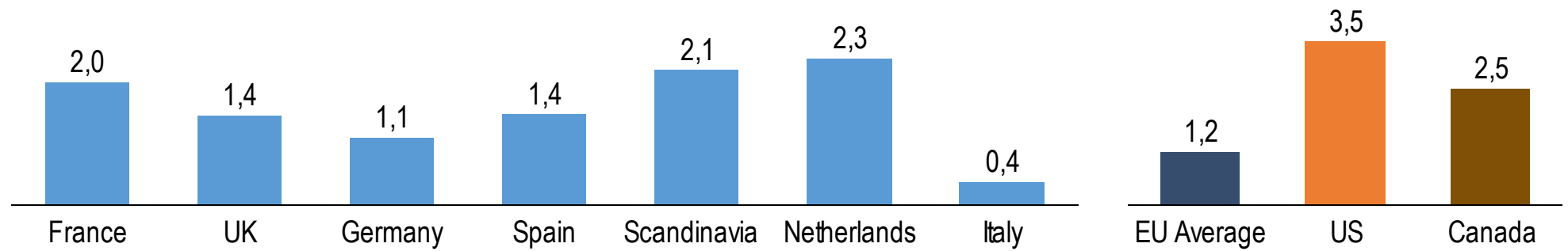


Avocado in Europe ? Tell us more !!!

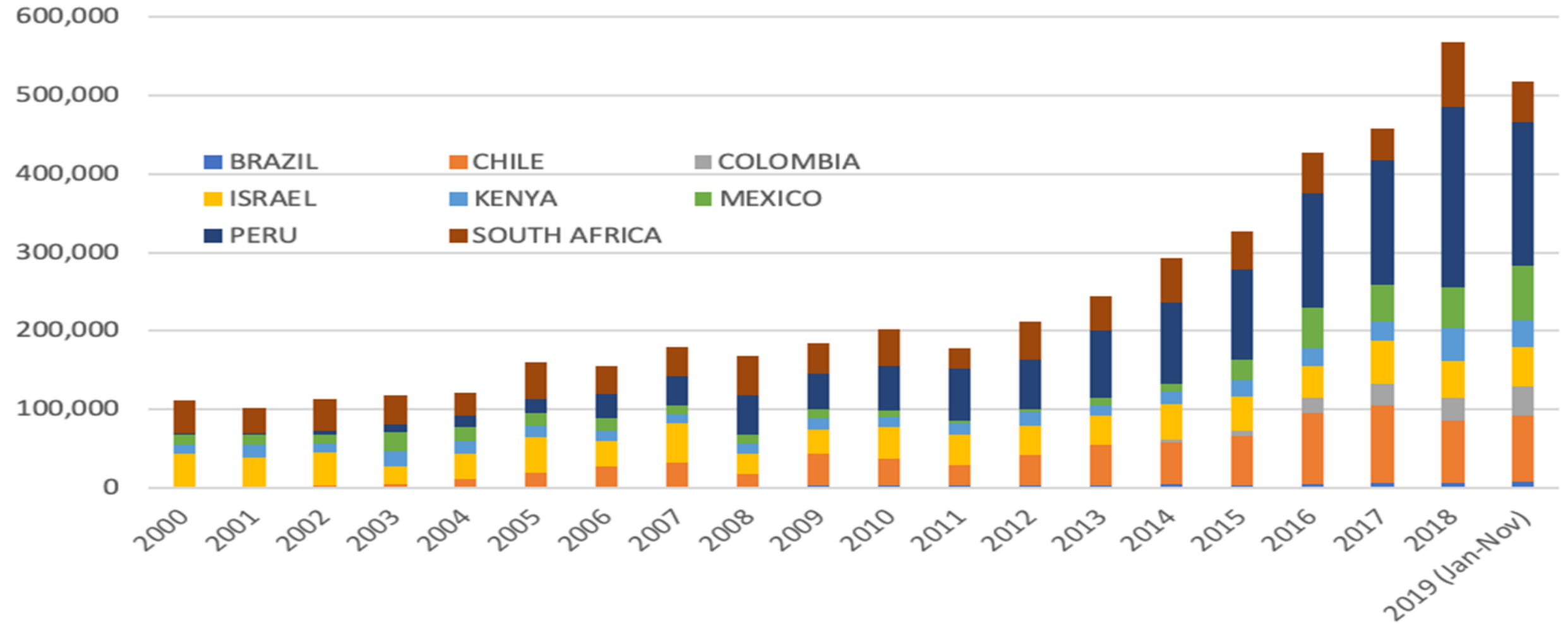
Market Consumption



Consumption per capita



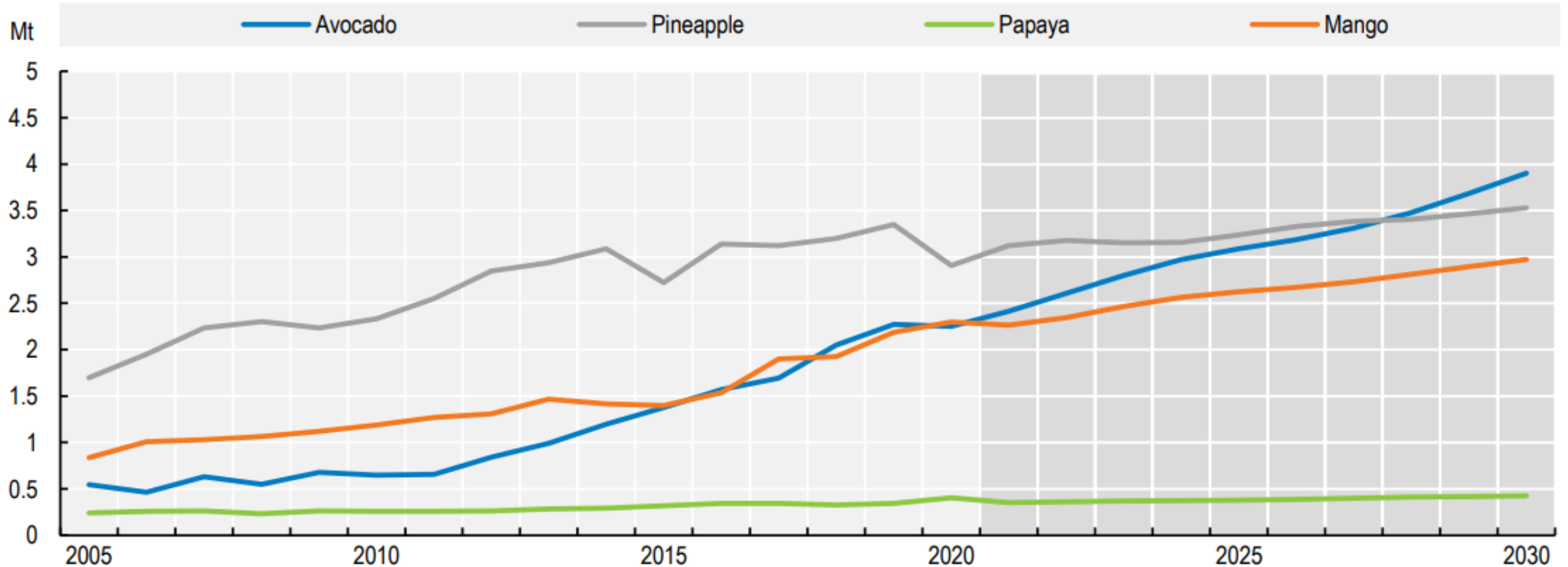
... imports are rapidly growing



And best yet to come Globally ...

According to the CBI (2021), **avocado will be the second bestselling fruit in the world in 2030**.

The current challenge is to balance the supply / demand for avocado and its double-digit market growth while moving towards sustainable, resilient and organic production.



Be curious and Be responsive !

Is it sustainable ?

- Access to water
- Deforestations
- Other local environmental factors

Is it Organic ?

Following EU organic standards:

- Use of fertilizers, pesticides
- Maintenance of biodiversity;
- Enhancement of soil fertility;
- Maintenance of water quality / irrigation methods.

Is it efficient ?

Environmentally and Economically

**Does
Consumers
know about it ?**



**Funded by
the European Union**

How its begin ?



We strive to Make it Achievable, Accessible & Sustainable !



UNIVERSITY OF CALIFORNIA
Agriculture and Natural Resources



WAGENINGEN
UNIVERSITY & RESEARCH



“

I'm working on developing a sustainable farming solution across the EU which could fit for future young farmers

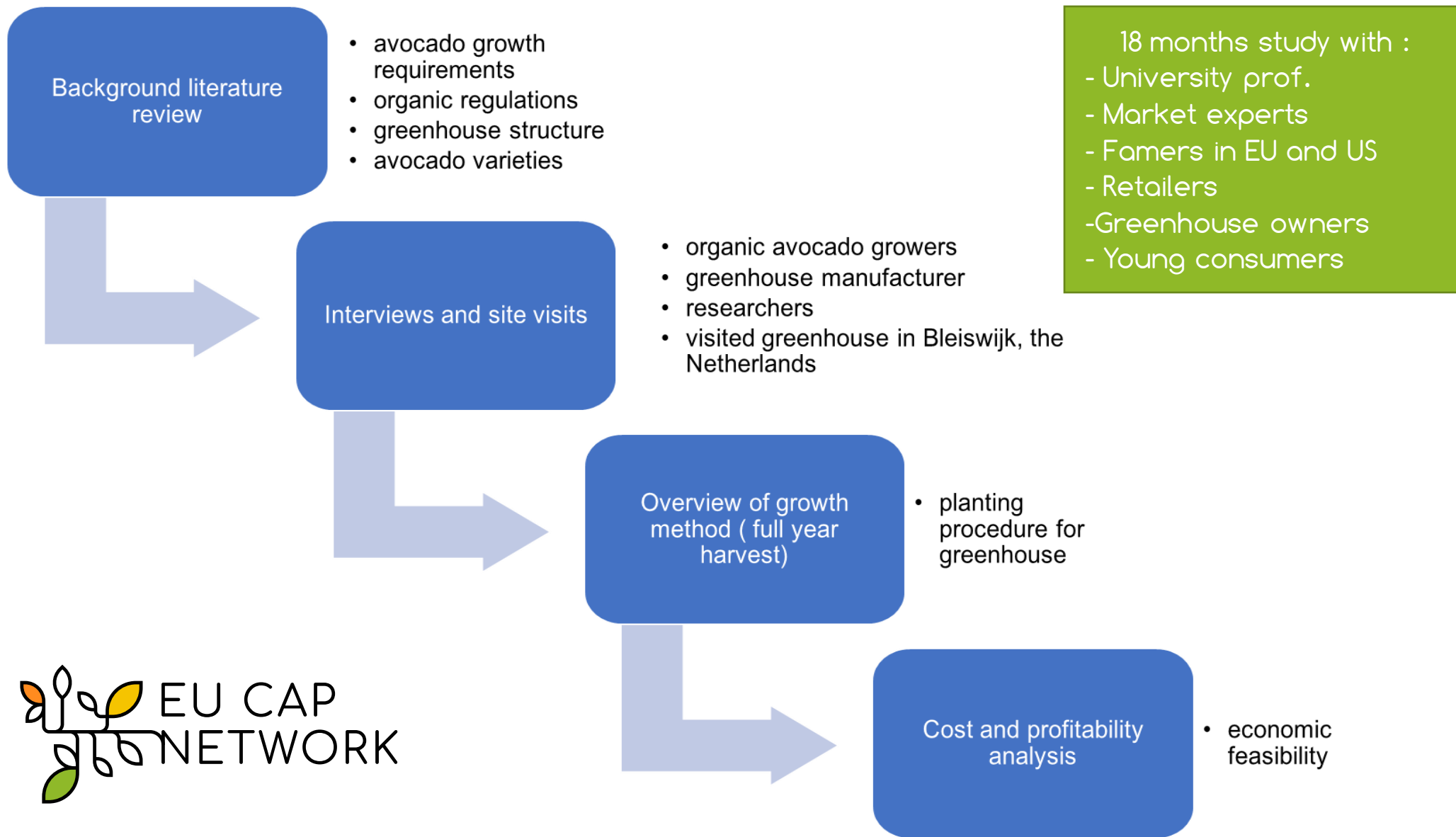
Keyvan Ramezani
LUXEMBOURG



connecting consumers and producers to rebalance farmers' position



What we have done in brief...



Avo-Bio project looking for investors / funding network

Sustainable method to produce more by using less resources, adapting to climate change and organic regulations



Easy to replicate

Today only 11% of farmers in EU are below 40 years old !

Profitable investment vs. traditional methods

full cost recovery from Year 8 with prospect to growth

Sustainability impact with usage of technology

50 % reduction of water usage
70% CO2 reduction vs. imported products
EU organic standards / technology

Made in Europe

Secure the full year round harvest for EU market with its double digit growth! |

EU CAP Network workshop 'Enhancing food security under changing weather patterns: farm adaptation'

14-15 March 2023
Bologna, Italy

All information on the workshop is available
on the **[EU CAP Network website](#)**

On the event webpage: **https://eu-cap-network.ec.europa.eu/events/eu-cap-network-workshop-enhancing-food-security-under-changing-weather-patterns-farm_en**