

Andean Fruit Productivity and competitiveness

COLOMBIA, ECUADOR, SPAIN, PERU



Webstory



Technological solution

With the moderation in the use of agrochemicals, the integrated management of soil fertility, better water management, carbon sequestration, the addition of value to fruits and their residues, under circular economy approach, the project is contributing to the sustainable growth of a climate resilient fruitculture in the region.



Technological description

To increase the productivity and competitiveness of the avocado, passiflora genus and citrus fruit chains through coordinated actions between producers, processors, traders, academic and training institutions, to implement sustainable technologies for adaptation to climate change and improve the quality of fresh fruits and their derivatives.



Impacts and results

- 4 fertigation technologies with productivity of 15 ton / ha-year in granadilla (Ecuadorian average, 10), 16.8 ton / ha-year in Hass avocado (vs. 8.5 with edaphic fertilization).
- 3 sustainable agronomic practices, 6 shelf life studies and 2 of fruit transforms; 2 methods of lengthening shelf life for passion fruit and Hass avocado; 3 new passion fruit materials.
- Design of products derived from fruit or its residues: laboratory prototypes, 19 foods, 3 cosmetics and 4 materials. 3 piloted prototypes, and 3 products on the market.
- For a pilot group of producers that provide fruit to the FLP co-executor, the following were achieved: increase from 5 to 32 GlobalGap certifications, increase their exports from 2,623 to 4,017 tons in avocado and from 2,105 to 4,176 tons in citrus between 2019 and 2020.
- 29 university students with undergraduate, internship or master's and doctoral theses and 12 technology students participated.
- 24 articles (19 published and 5 submitted), 22 lectures, 9 posters, 9 book chapters, 24 theses and 1 book.
- Dissemination: 2 fairs, 3 symposia, 20 conferences, 3 webinars, 22 field days, 1 diploma for 3660 participants (1587 women)



4

Validated fertigation technologies



4268

Participants in dissemination events



32

Value added formulations



90

Articles, presentations, theses and technical papers



35

Students and technologists linked to the project



160

Videos, ecards and infographics



3

New passion fruit materials



+ 8.3 Tn/ha

Increase in productivity of avocado due to fertigation