FONTAGROTECH

Vertical Agriculture and its contribution to Food Security

PANAMÁ, ARGENTINA, COLOMBIA, COSTA RICA

Webstory

Technological solution

Vertical Agriculture was generated as an alternative to guarantee food security and sustainable food production. This system is characterized by producing intensive crops under controlled or uncontrolled conditions, arranged vertically and in little space3, its use allows consumption of 5 to 20% of water and only requires 1 to 5% of the area

Technological description

The challenge for LAC will be the implementation of this technology in intensive agricultural production systems. This proposal proposes the validation of vertical production systems and the dissemination of technologies, strengthening their sustainability in each country. The acceptance of technologies, productivity and profitability indicators.

Impacts and results

The research proposal aims at the productive, economic and sustainable validation of different production options under AV systems (controlled, protected or semi-protected environment), which allow improving productive factors, increasing performance due to a greater number of production cycles. per year, increase the cultivated area.

+ 25 %
Expected production increase over conventional units

4
Vertical farming prototypes designed and modeled

5
Horticultural species evaluated per country in the prototypes

2000
Expected people trained

7
Expected technical dissemination seminars and workshops

+ 2
Scientific articles expected

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