

Iron-rich beans for family farming in Latin America and the Caribbean

Anemia is a significant public health problem; this initiative seeks to increase the adoption rate of iron-rich beans by implementing strategies that strengthen the value chain and food security in LAC.

Panama /Colombia /Honduras
/Nicaragua /Dominican Republic



11
Varieties and a selected line of iron-rich beans available



~48 ha
Seed Production Area



14.8 ton
Iron-rich bean seed for the project



+275 %
Progress in Agroecological Transition, score from 0.83 to 3.12



+71.3 %
Adoption Persistence



93.4 %
Commercial Acceptability, rated 4.67 out of 5.00



2
Bachelor's and Master's Theses



1
Seed protocol incorporating traceability and nutritional quality



Technologies in agriculture for food and nutritional security

Initiative

This initiative supported by FONTAGRO has three major challenges: i) identify the demand and potential market for iron-rich beans in each country. ii) Multiply, spread and scale seeds of iron-rich bean varieties released at the level of producers' farms. iii) generate knowledge management and technology transfer strategies for producers. In order to improve the adoption rate

of these new varieties in an appropriate and sustainable way in Central America, the Dominican Republic and Colombia, this project expects to strengthen the value chain and the consumption of iron-rich beans, benefiting 1,200 producers and implementing strategies for knowledge management in 200 technicians and researchers, in 30 marketers and in consumers.

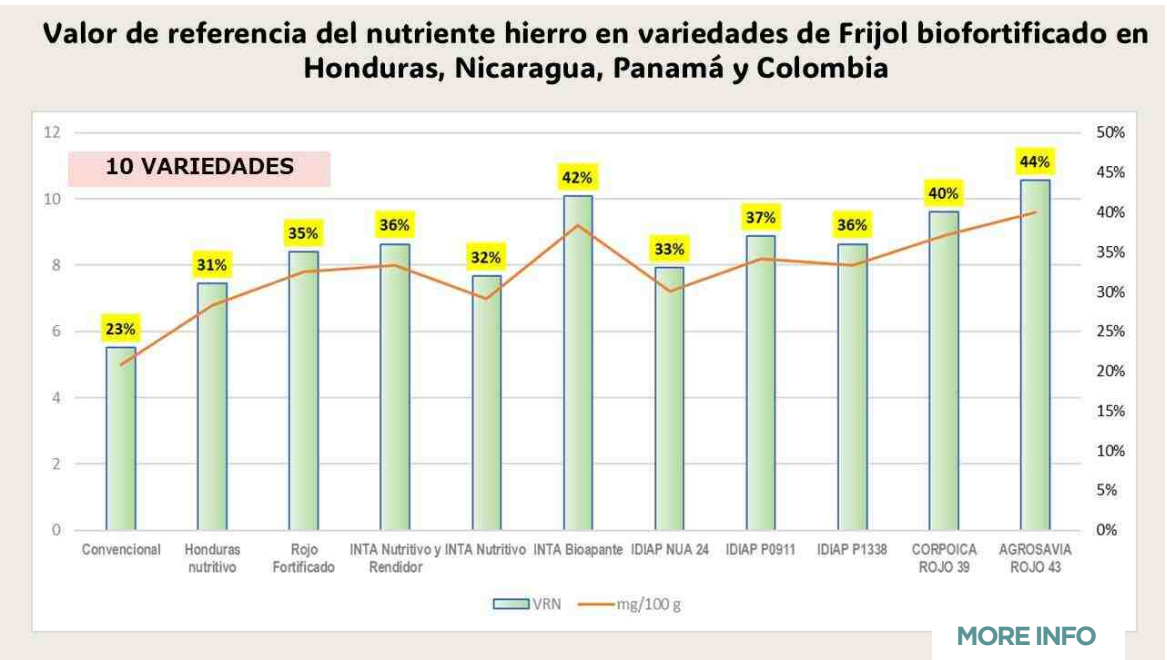
Sustainable production and consumption of iron rich beans for Central America, the Dominican Republic and Colombia

Tech solution

This initiative seeks to integrate agricultural and nutritional issues in order to close the communication and knowledge gap between producers, consumers and food environments. Among the main solutions are strategies aimed at strengthening the value chain, acceptance and technological adoption by producers, such as:
a) Baseline and final line available in the region with data from the main actors in the value chain for iron-rich beans in the intervention areas, their characteristics, limitations, market

opportunities - commercialization and analysis of challenges.
b) A design protocol for the production of quality seed on demand-based producer farms.
c) A Strategic Plan with recommendations and successful experiences in the management of knowledge and communication in each country and at the regional level for stimulating the demand for iron-rich beans.
d) Availability of new varieties of iron-rich beans released for the Dominican Republic.

Iron content in biofortified bean seeds for LAC



Impacts and Results

The project proposes to have positive productive, economic, social and environmental impacts on family producers and other actors in the value chain in the region. Through the implementation of knowledge management strategies and the exchange of experiences between actors of the iron-rich bean chain, the aim is to promote an increase of at least 25 % in the production of good quality seeds, reduce agrochemical use by at least 20 % and utilize at least one

agroecological technique for integrated crop management. Stimulate demand through marketing strategies with gastronomic education and food and nutritional education regionally and by country. At least 50 % adoption of iron-rich bean varieties by participating producers in Panama, Honduras, Nicaragua and Colombia and the release of at least one iron-rich bean variety in the Dominican Republic.