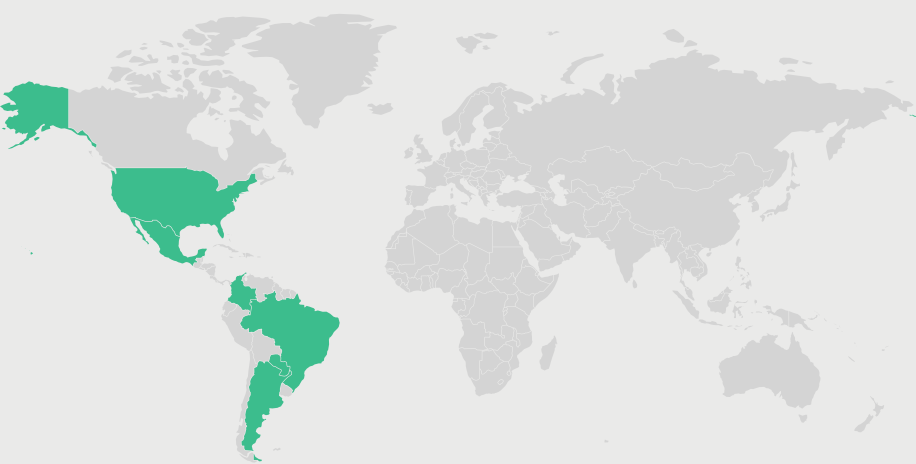


Resilient Maize: Innovation and sustainable management of stunting

This project combats the maize stunting complex in Latin America by mapping its vector under climate change and validating sustainable management practices. This initiative aims to protect crop yields and ensure regional food security.



Argentina /Brazil /Colombia /United States /Mexico /Paraguay



-20 %
Reducing the water footprint



+16 talleres
Training workshops



+5 %
Increase crop yield



-30 %
Decrease in the use of agrochemicals



-20 %
Reduction in chemical fertilizers



~400 personas
Trained people



Validating and strengthening sustainable technological alternatives for managing *Dalbulus maidis* and associated pathogens will help reduce losses due to stunting and safeguard food security in Latin America and the Caribbean.

Initiative

The increase of the corn stunt disease complex and its vector poses a risk to maize production in Latin America and the Caribbean. In this context, the project aims to reduce its incidence in Colombia and Argentina, with regional impact. To achieve this, it comprises three components: 1) To assess the potential distribution of *Dalbulus maidis* under climate change scenarios, 2) To validate and promote integrated

management practices (bioinputs, precision irrigation, epidemiological monitoring, among others) that help reduce yield losses and environmental footprint, 3) To manage and transfer the generated knowledge in order to strengthen farmer networks and technical capacities for the prevention, containment, and management of the disease and its insect vector.

Comprehensive strategies for addressing climate change to manage stunted growth in corn

Tech solution

This initiative aims to reduce the incidence of the maize bushy stunt complex in maize-producing regions of Latin America by assessing the potential distribution of the vector *Dalbulus maidis* under climate change scenarios, validating and promoting sustainable technologies for the

management of the maize bushy stunt complex and its vector, strengthening the adoption of innovations and maize farmer networks for knowledge management, and implementing technology transfer to small- and medium-scale maize producers.

Resilient Maize: Innovation Against Maize Stunt Disease in Latin America



\nDiseño de CAMILO IGNACIO JARAMILLO BAR [MORE INFO](#)



Impacts and Results

The proposal introduces improvements by integrating predictive, technological, and participatory approaches for managing corn stunt disease. It will incorporate distribution models of the vector *Dalbulus maidis* under climate change scenarios, enabling risk anticipation and targeted interventions. Additionally, it will validate and promote a sustainable

technological package that reduces dependence on agrochemicals and improves production efficiency. The initiative will also strengthen adoption through farmer networks and knowledge management, overcoming gaps in technology transfer. Overall, it contributes to more resilient, profitable, and environmentally sustainable production systems.