

# SCALING-UP CLIMATE SERVICES WITH USERS IN LATIN AMERICA

Carlos Navarro-Racines<sup>1,4\*</sup>, Diego Pons<sup>3</sup>, Anna Muller<sup>2</sup>, Carmen Gonzalez-Romero<sup>3</sup>, Ángel G. Muñoz<sup>3</sup>, Diana Giraldo<sup>1,4</sup>, Deissy Martínez<sup>1,4</sup>, Steve Prager<sup>1,4</sup>, Julián Ramírez-Villegas<sup>1,4</sup>

\*Contact:  
 ✉ c.e.navarro@cgiar.org  
 🐦 @\_cenavarro



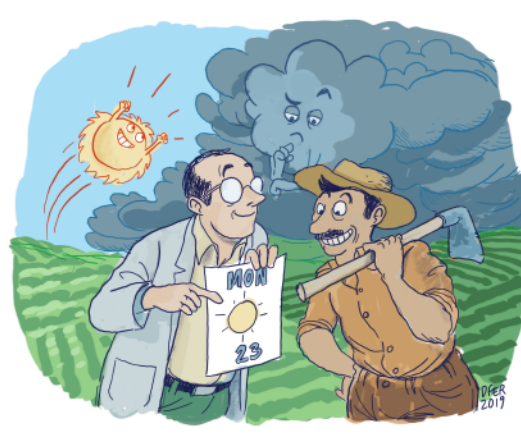
## Local Technical Agro-climatic Committees (MTA in Spanish)

They are innovative way for local stakeholders to be informed about the expected climatic variations in their region, and how these can affect their crops. MTA allow open and clear dialogues about seasonal climate forecasts at multiple timescales, how these can affect crops, and the design of measures to reduce crop loss, particularly providing agronomic recommendations to farmers.

Here we systematically describe the process of evidence generation, creation, partner engagement, scaling up, and monitoring of the approach throughout Latin America. We show how strategic alliances with farmer organizations, national public and private and regional climate outlook forums help deliver improved and accurate climate information to users.

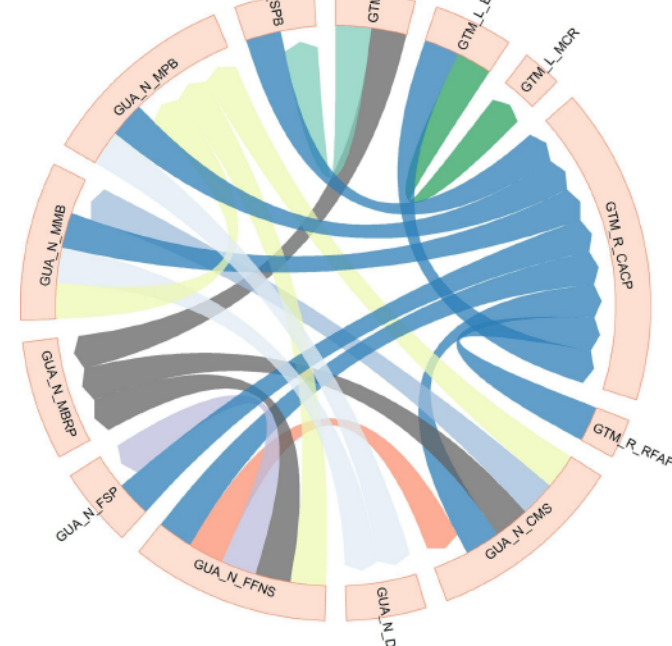
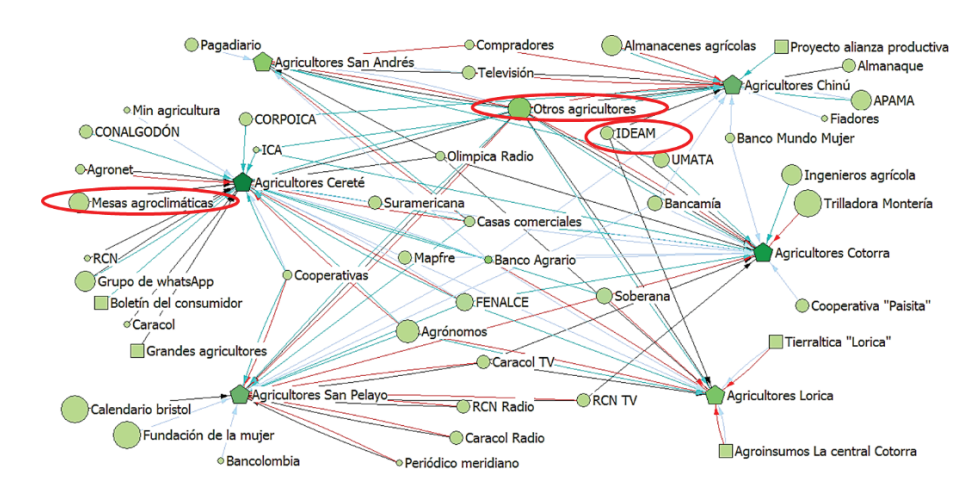
## KNOWLEDGE FLOWS

**1 Needs**  
 User-centered work



Understanding the needs of tailored climatic information

Supply Networks  
 How are products connected?



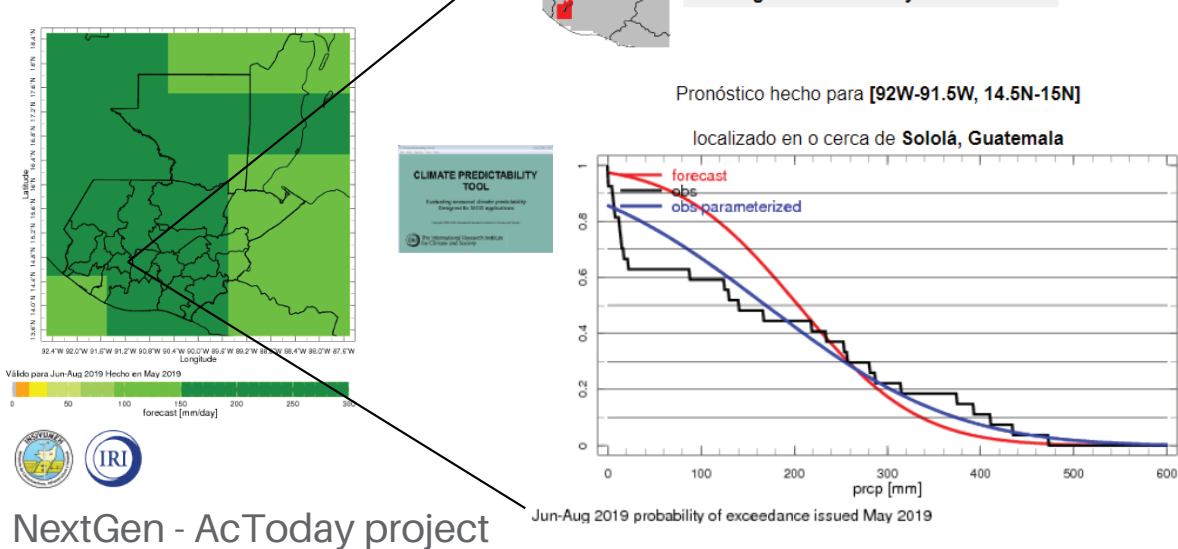
Building bridges between supply and demand. Understand the information flows

Circular migration plots showing the flow of information between products in Guatemala  
 Borraucio et al 2020, <https://doi.org/10.1016/j.cisr.2019.100137>

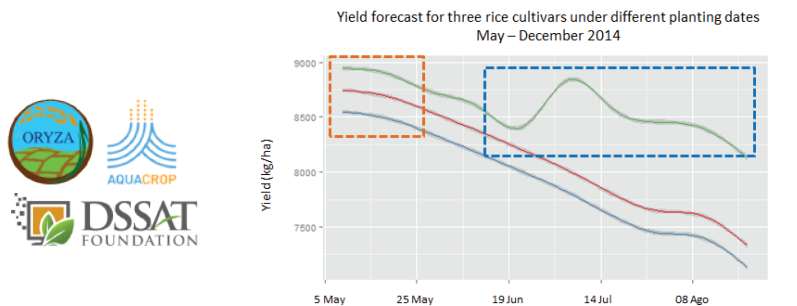
**2 Better predictions**  
 Weather and crop predictions



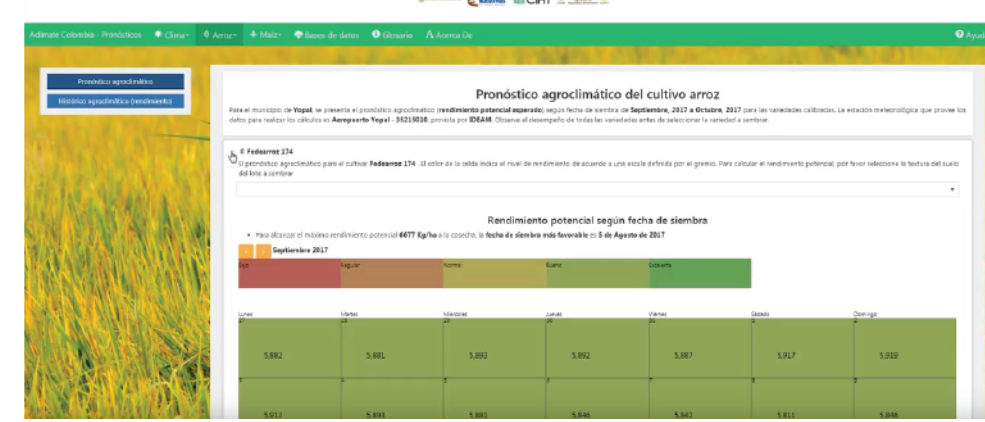
A new generation of climate forecast



Agro-Climatic Forecasts  
 Combine agricultural and climate information, and then provide adapted recommendations for crops.

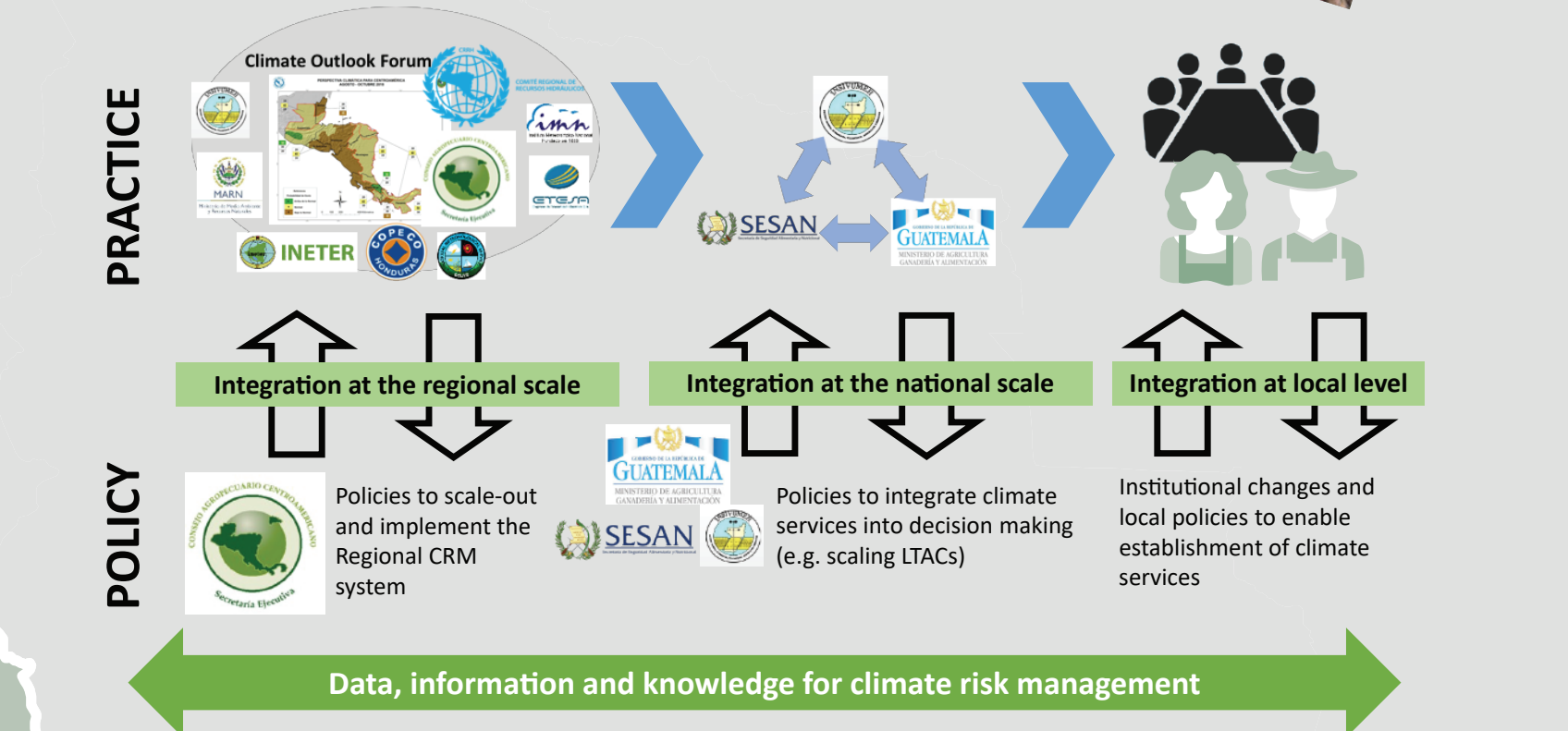
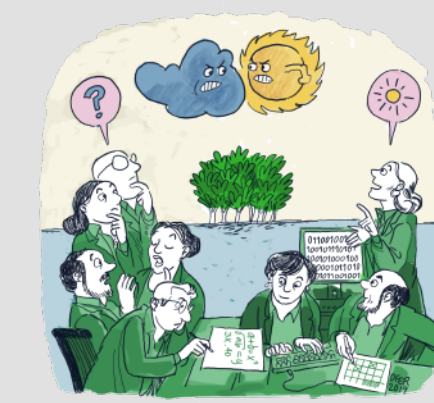


For example, a recommendation of planting dates following a seasonal climate forecast.



An operative agro-climatic forecast platform  
<https://pronosticos.aclimatecolombia.org/>

**3 Empowerment**  
 Institutional strengthening



## ¿DID YOU KNOW?

According to the **FAO** the **70%**

cent of our food comes from small-scale farmers, and most of them have no access to climate information.



Climate services have the most potential where climate is predictable, and the crops farmers grow are highly sensitive to climate.

Through climate services, we provide weather and climate information tailored to the users' specific needs.



- + Farmer organizations
- + National Meteorological Services
- + Climate Outlook Forums
- = Improved and accurate climate information

## OUTCOMES AND IMPACT

We have helped establish **38** MTA across Latin America  
 empowering almost **300** institutions with agro-climatic information

**10** Latin American countries  
 Colombia, Paraguay, Nicaragua, Honduras, Chile, México, Panamá, Guatemala, Ecuador, El Salvador

**330K** farmers Latin American of maize, rice, beans, coffee, fruits, vegetables and livestock are making better decisions using agro-climatic information

Some bean farmers in Colombia are **doubling and sometimes tripling productivity**

## LOCAL, NATIONAL, REGIONAL PARTNERS

