



The
Food and Land Use
Coalition



FOLU Colombia: transforming food systems from the territories



www.folucolombia.org

March 2021

Launched in 2017, FOLU is a platform that brings together different actors to accelerate the transformation of food and land use systems in order to achieve the Sustainable Development Goals, the Paris Agreement and the Aichi biodiversity targets.

- Self-governing coalition of different institutions
- With an expanding network of influence
- Global and national scope
- Provides robust scientific evidence for action

Our mission is to:

- Protect and restore the planet's natural resources and ecosystems
- Build a more resilient and prosperous rural economy for farmers and their families
- Change food and land use systems to transform them into net carbon sinks
- Seek a healthier and less wasteful ways to feed more than 9 billion people by 2030



Main partners:



supporters:





The case for change: Food and land use systems key to all SDGs

~2 billion ha of agricultural land degraded

62% of IUCN globally threatened species are adversely affected by agriculture

~80% of large marine eco-system subject to significant eutrophication

AFOLU contributes ~30% of GHG emissions

Our systems waste 1/3 of food, resulting in 8% of global emissions

+500 million farmers & fishers in poverty

820 million people hungry every day

2 billion people overweight or obese

43% of agricultural workforce are women

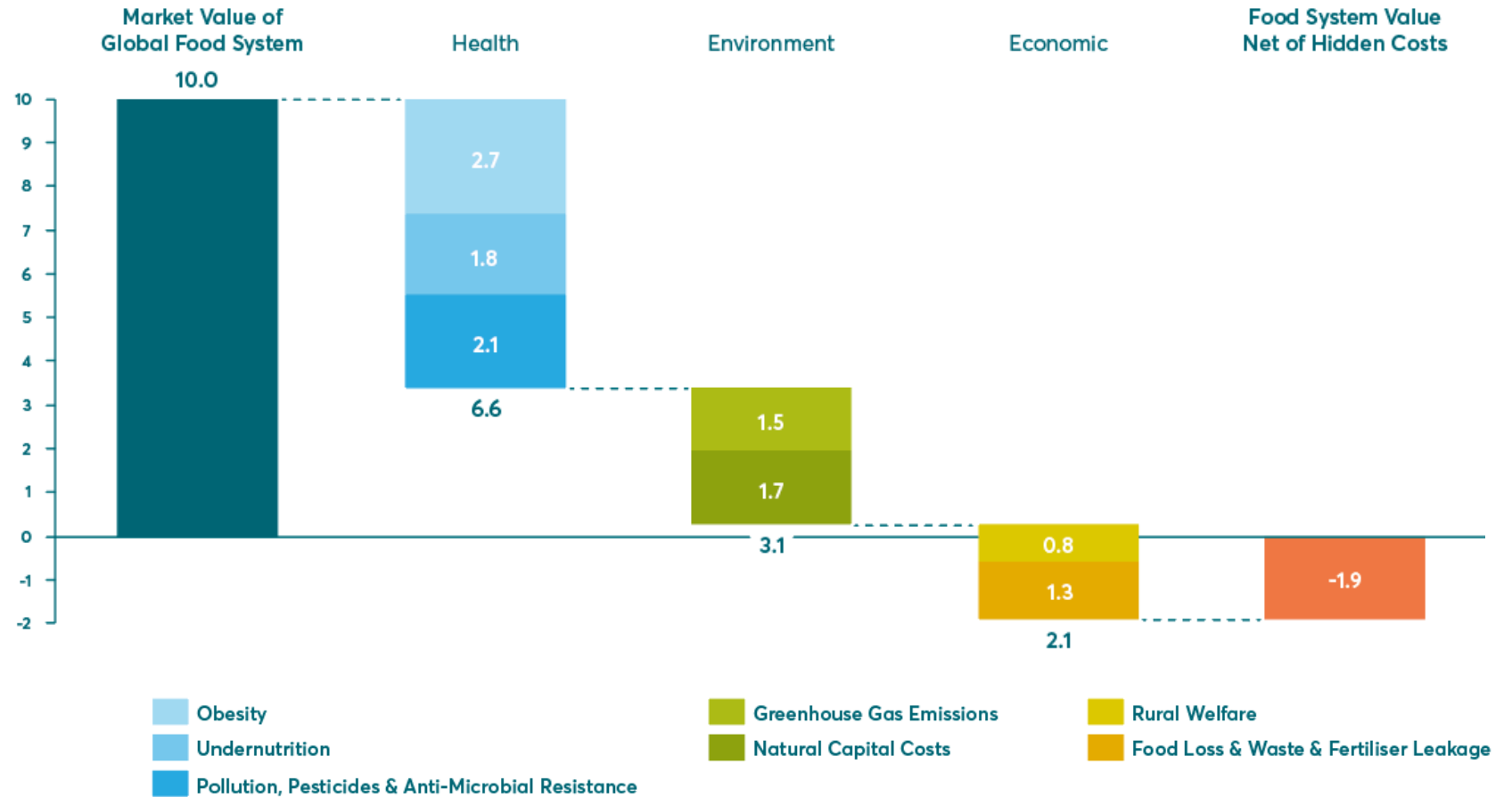
Agriculture accounts for 70% of freshwater withdrawals



Hidden costs today

Trillions USD, 2018 prices

The “hidden costs” of global food and land use systems sum to **\$12 trillion**, compared to a market value of the global food system of \$10 trillion.

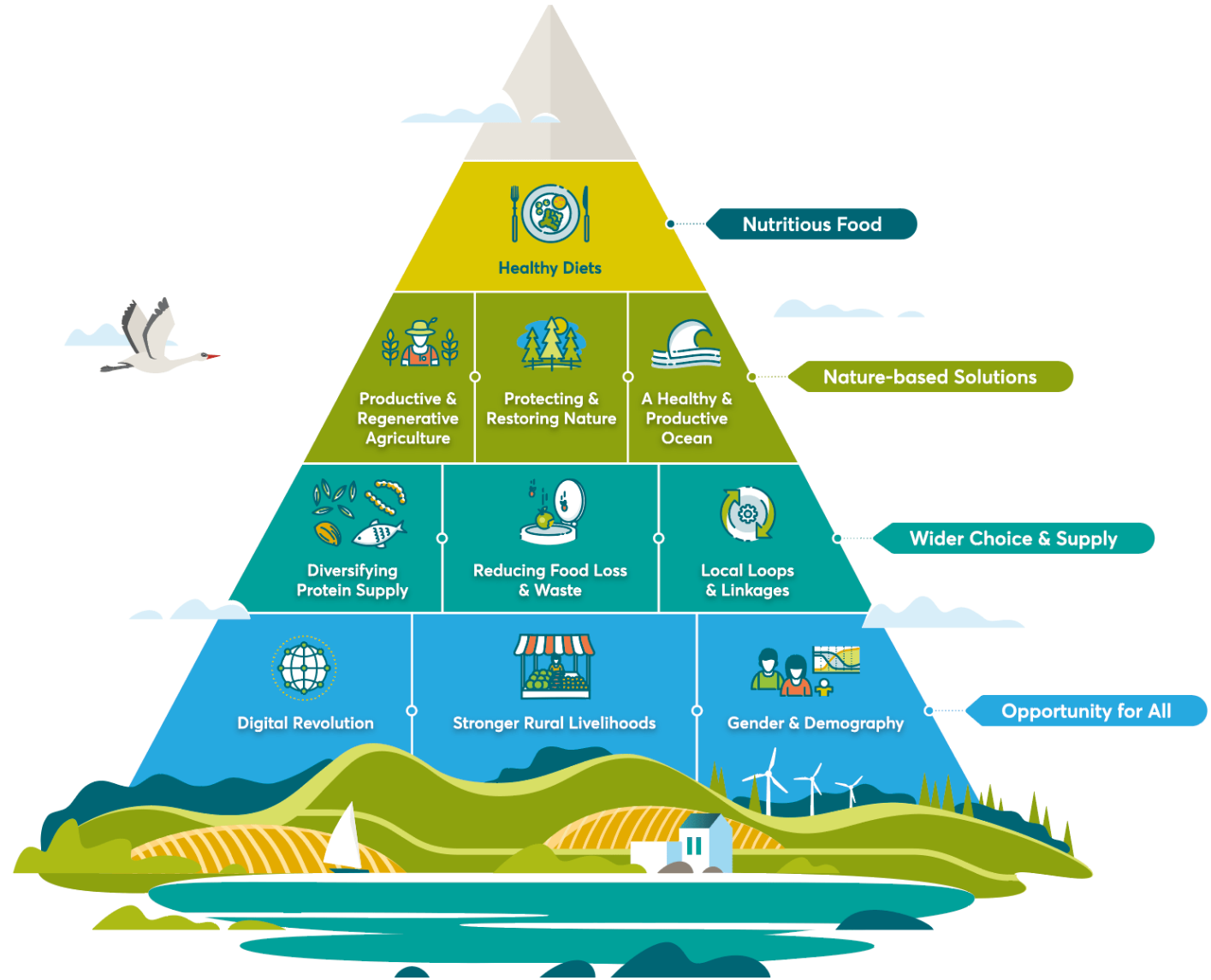


Ten critical transitions

 **Economic Prize**
 \$5.7 trillion economic prize by 2030 and \$10.5 by 2050 based on avoided hidden costs

 **Investment Requirements**
 \$300-\$350 billion required each year for the transformation of food and land use systems to 2030

 **Business Opportunity**
 \$4.5 trillion annual opportunity for businesses associated with the ten critical transitions by 2030



Critical transition 2: scaling productive & regenerative agriculture



Agricultural systems that are both productive and regenerative will combine traditional techniques, such as crop rotation, controlled livestock grazing systems and agroforestry, with advanced precision farming technologies which support more judicious use of inputs including land, water and synthetic and bio-based fertilisers and pesticides.



\$1.7 trillion



\$35-40 billion



\$530 billion



Economic prize by 2030



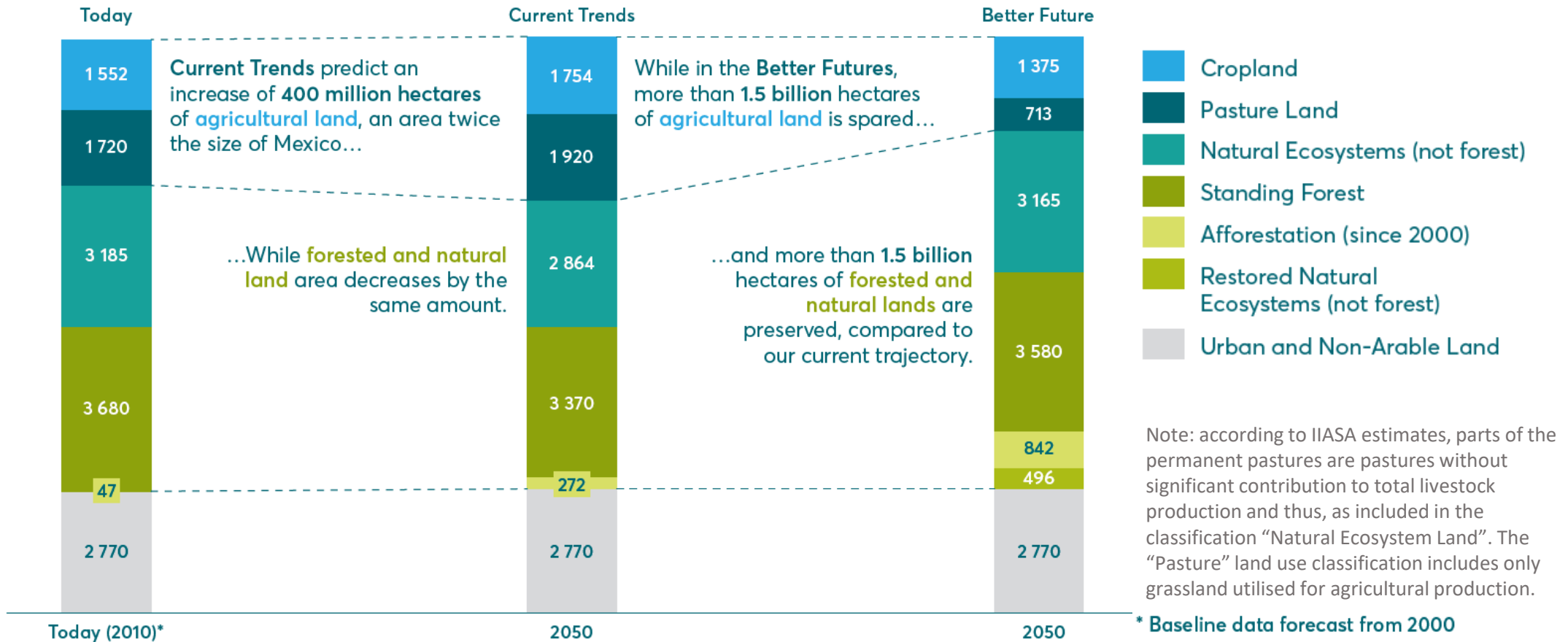
Annual additional investment requirements to 2030



Business opportunity by 2030

What does this mean for **how we use land**?

Total Surface Land Use: million hectares





Guided by five **Action Tracks**, the Summit will bring together key stakeholders from all over the globe to achieve tangible and positive changes to the world's food systems



Ensure access to safe and nutritious food for all

1



Shift to sustainable consumption patterns

2



Boost nature-positive production

3



Advance equitable livelihoods

4



Build resilience to vulnerabilities, shocks and stress

5

ACTION TRACK 3 | 12 Solution clusters



Protect



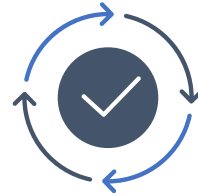
1. Deforestation-free and conversion-free food supply chains



2. Land-freshwater nexus



3. Agri-food support (including subsidies)



Manage



4. Transformation through innovation for nature-positive production



5. Sustainable Livestock



6. Transformation through agroecology & regenerative agriculture



7. Agrobiodiversity



8. Blue Foods



9. Indigenous Peoples' food production systems



Restore



10. Grasslands and savannahs



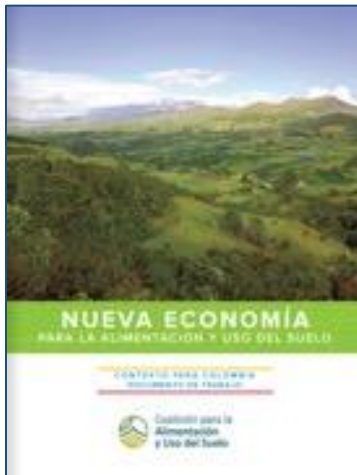
11. Monitoring and stakeholder engagement with evidence



12. The Soils Hub



FOLU Colombia Roadmap



2017



2018



2019



2019 - 2021





FOLU roadmaps are being developed in important territories

- Selection of territories in **coordination with public and private entities.**
- In each case, we develop a **diagnosis in a participatory process.**
- We are **forging public-private coalitions**, involving relevant actors in the process.
- We **prioritize actions in a methodology that makes people think in an integral manner.**
- We end up with **implementable roadmaps.**

The FOLU Quindío Roadmap is centered in a vision of regeneration

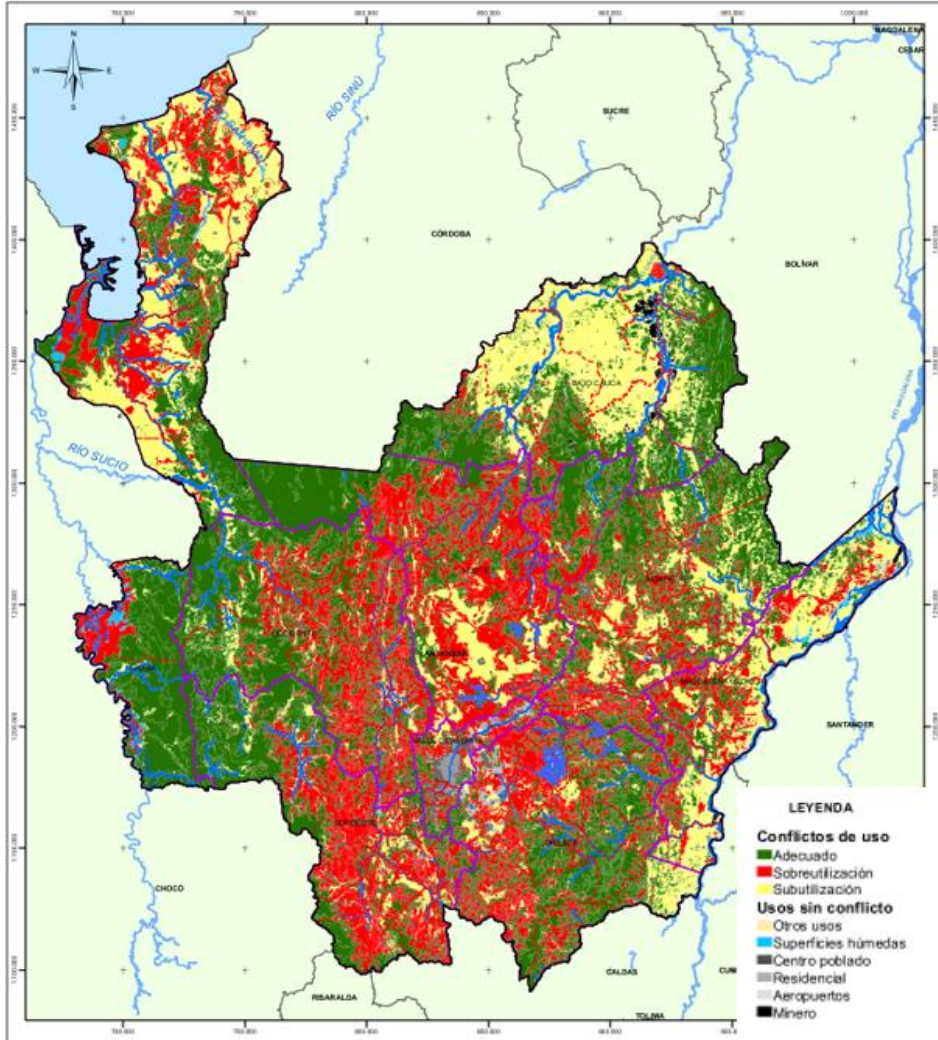
Launch of the FOLU Quindío Roadmap: 27 November 2019 in Armenia



Strategic and Transversal Axes



Antioquia is the biggest agricultural producers in the country, that faces food insecurity



- 27% of the soil has been used in livestock and 6.7% in agriculture, while the capability is 3% and 27%, respectively.
- Land use conflict due to overuse (42%)
- High degree of informality in land tenure, close to 40%
- High degree of inequity in land tenure, the GINI for land distribution is around 0.81
- The food insecurity index is 67%

The Antioquia Roadmap has productive and sustainable territories as a priority



The use of pesticides and fertilizers vs bioinputs



The value produced per hectare of cultivatable land **in Colombia is less than a third of that produced in OECD countries.**

Source: OCDE 2015

Decrease in the contribution of the agricultural sector for the national economy:

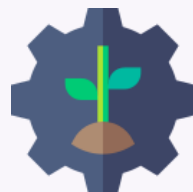
- Contribution to GDP increased from 16.7% in 1990 to 6.1% in 2013
- The contribution in terms of jobs went from 26% in 1990 to 16.9% in 2013

Source: OECD 2015



Insufficient technological assistance

63% of farmers say they have not received any technical assistance



Only 13% of public assistance is meant for overall assistance



Research

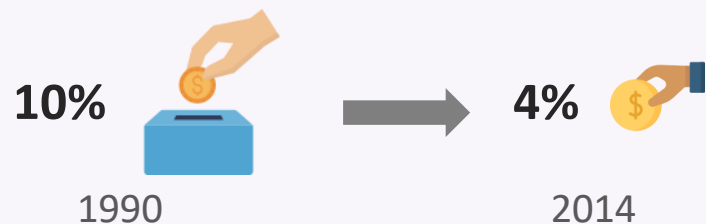


Knowledge transfer



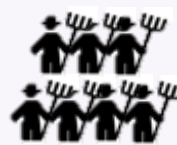
Infrastructure

The share of the agricultural sector in the total investment budget has fallen:



Unequal property distribution

Property type



65%

Smallholder < 3 ha



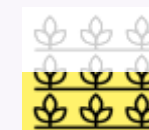
1%

Big > 200 ha

Lands



2%



65%

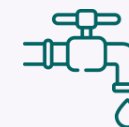
Fuente: UPRA 2015

Scarce access to finance and technologies



Access to finance

89.3% of Census takers do not apply for credit



Irrigation cover

66.7% of those surveyed did not use irrigation

*UPA = Agricultural Production Unit

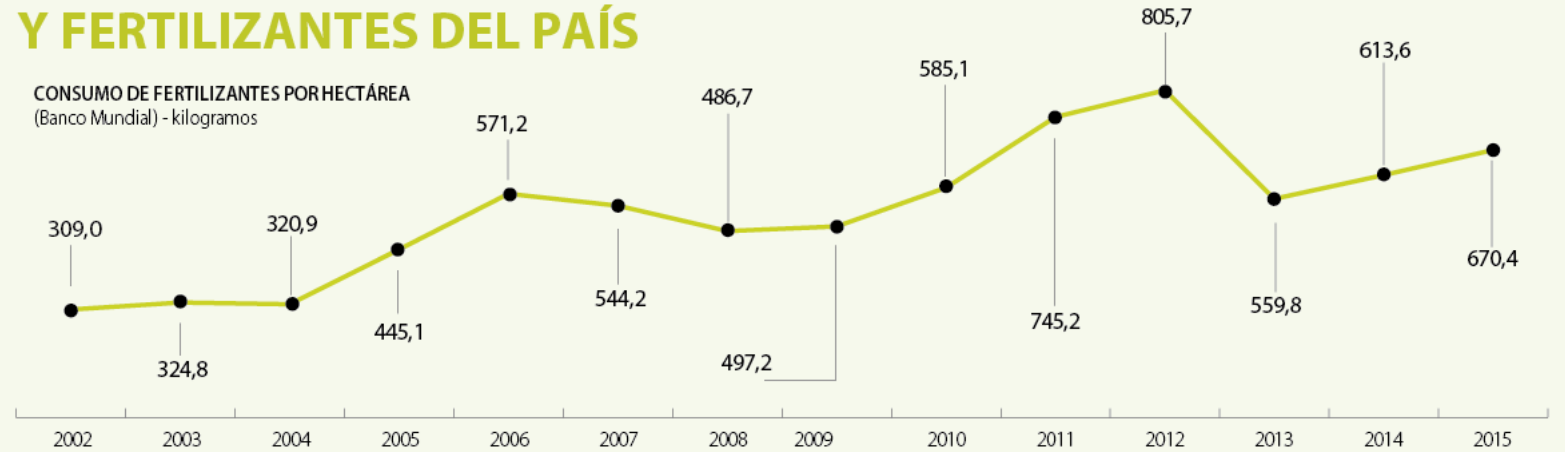
Fuente: CNA 2015

The market of pesticides and fertilizers is big compared to other LAC countries

- Pesticides and fertilizers correspond to around 35% of the costs of production in Colombia. (Fedesarrollo e IQuartil, 2012).
- The products that use more pesticides are rice, potatoes, bananas, flowers and vegetables.
- ICA has approved more than 2000 pesticides.
- Several farmers still use banned pesticides, that enter illegally to the country.

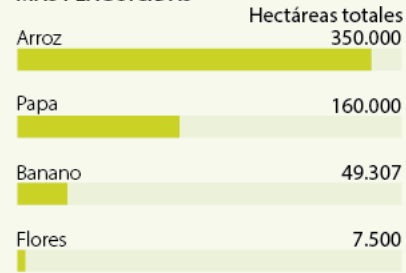
EL MERCADO DE PLAGUICIDAS Y FERTILIZANTES DEL PAÍS

CONSUMO DE FERTILIZANTES POR HECTÁREA
(Banco Mundial) - kilogramos

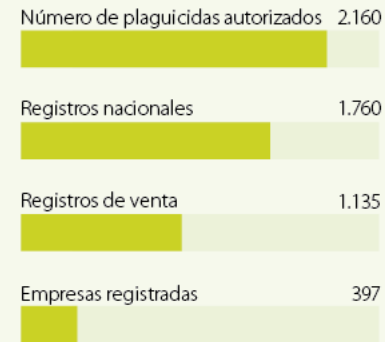


● Mercado de agroquímicos en el país US\$600 millones (descontando los fertilizantes)

PRODUCTOS QUE CONSUMEN MÁS PLAGUICIDAS



APROBACIONES DEL ICA (hasta 2015)



PRODUCCIÓN DE AGROQUÍMICOS

En litros: 50,9 millones
En kilos: 24,5 millones

EXPORTACIÓN

En litros: 36,9 millones
En kilos: 11,8 millones

IMPORTACIÓN

En litros: 34,7 millones
En kilos: 43,3 millones

PRODUCCIÓN DE FERTILIZANTES

En litros: 72,5 millones
En kilos: 1.644 millones

EXPORTACIÓN

En litros: 271,6 millones
En kilos: 71.658 litros

IMPORTACIÓN

En litros: 1,4 millones
En kilos: 1.576 millones

Fuente: ICA / Sondeo / Gráfico: LR-5B

Project of Chonto Tomato and Hass Avocado



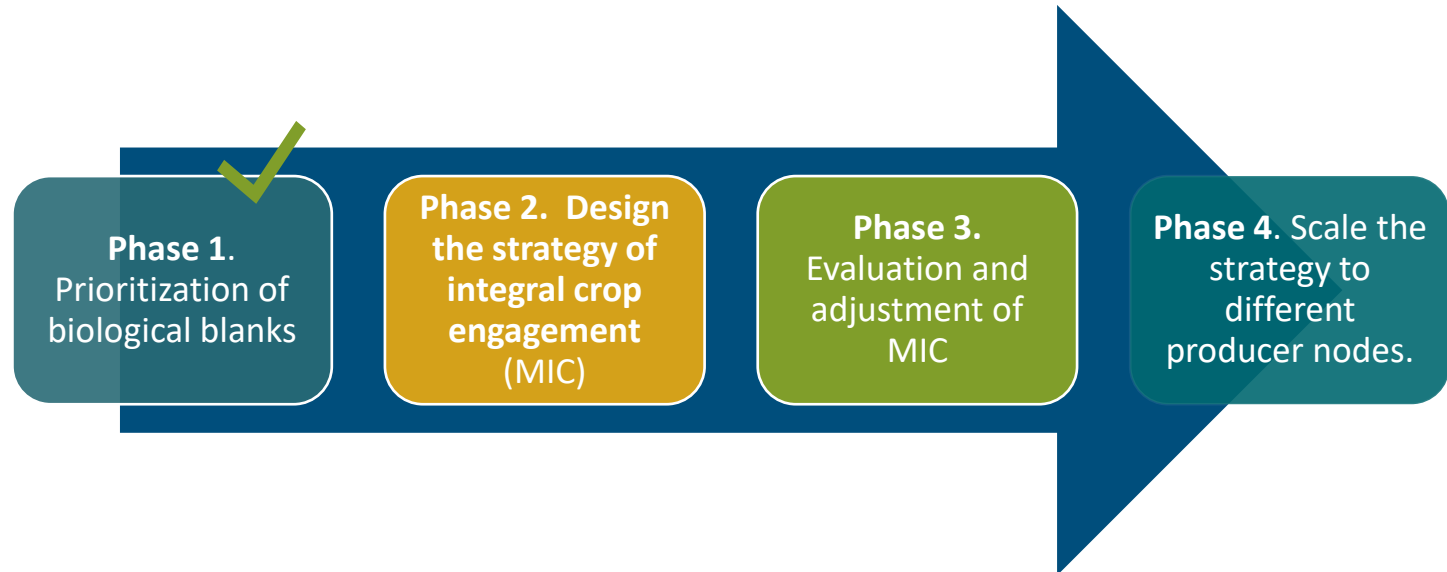
Coordinator:



Partners:



- Developed the first **prioritization of biological blanks for tomatoes and avocados**
- Developed an **integral research Project** with scientists of Agrosavia and partners.



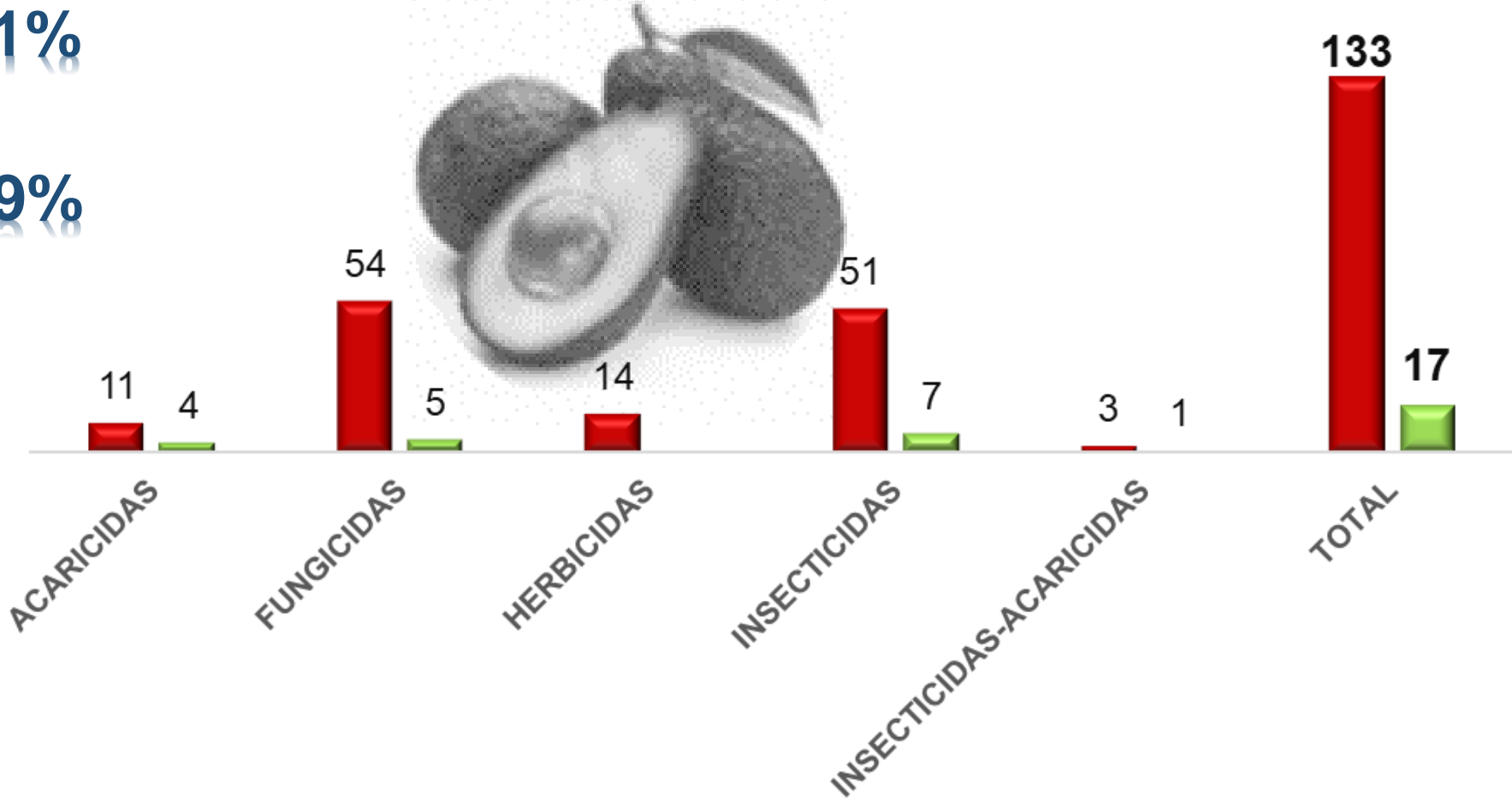
Avocado growers are using both biological and chemical pesticides

Biological pesticides
JUNIO, 2020

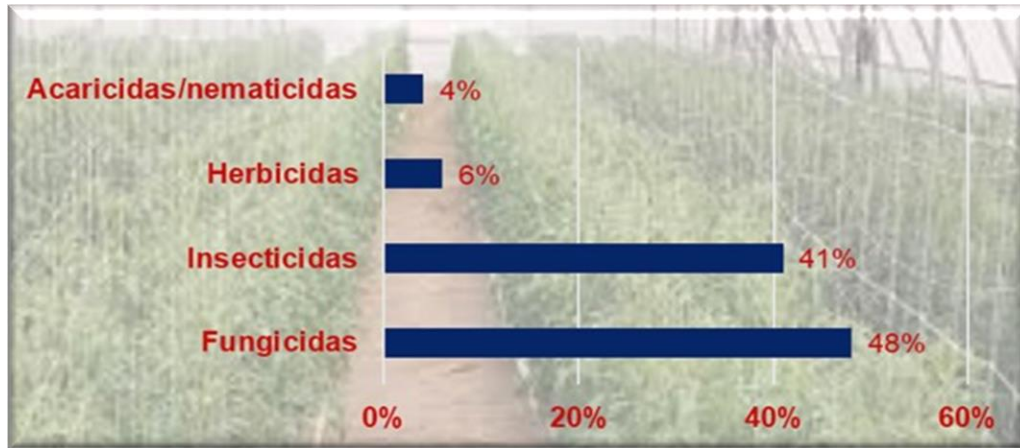
Quemical pesticides
Julio, 2020

11%

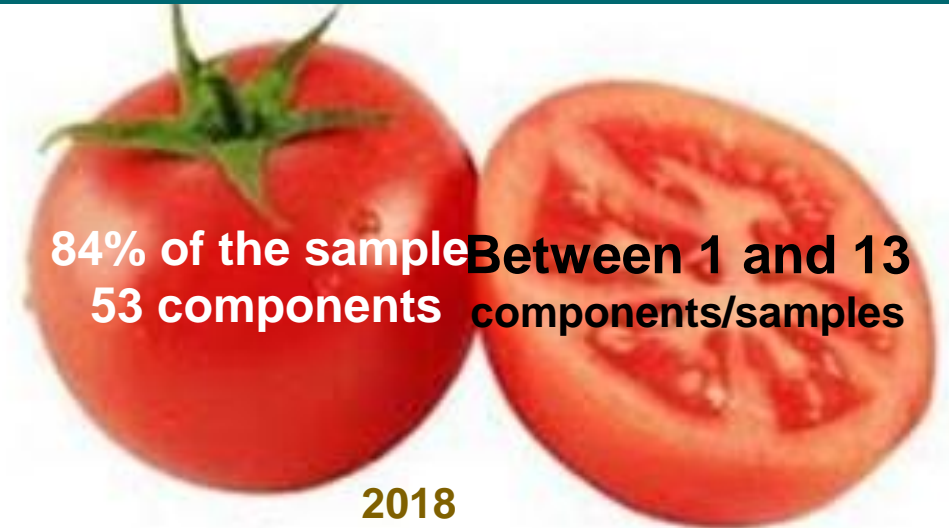
89%



And tomatoes are poisoning people and ecosystems



300 samples
(100 in product, 100 in soil y 100 in water)



14 of the components detected do NOT count with a registered commercial product for its use.

Componentes with prevalence	component	Group
	dithiocarbamates	Fungicida
	carbendazim y benomyl	Fungicida
	sulfoxaflor	Insecticida
	Captan**	Fungicida
	dimethomorph	Fungicida

Carbofuran**	fluopyram
chlorantraniliprole	hexaconazole
clothianidin	methoxyfenozide**
cyantraniliprole	omethoate
fenazaquin	procymidone
Fenhexamid**	Profenofos**
Flubendiamide	Propiconazole**

** Components of products with sells registry cancelled by 08 June 2020



- 🌿 We need strong and active groups of actors/institutions, able to connect, innovate and support effective solutions to produce healthier food.
- 🌿 There is a strong need to develop accurate policies to ensure effective use of bio-based inputs.
- 🌿 There are ample opportunities to promote changes at the regional level, involving actors that are making real changes.
- 🌿 We need to reinforce the need of nature positive solutions including regeneration. .
- 🌿 Making the case for action is critical, with sound technological packages and economic, social and health factors.



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iThank you!



@E3_grupo



@folucolombia



FOLU Colombia

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