### Challenges

- Gaps in agricultural productivity, and in knowledge and capacity of food producing households
- Growing demand for more nutrient-dense foods and higher food safety standards
- Threats to human health
  - High environmental footprint of agriculture and missing incentives for Ecosystem Services
  - High exposure and limited coping capacity of small-scale food producing households to risks
- Inequalities in access to innovations, capacity development, financial, informational, and legal services for women and young people

### Initiatives

- **SAPLING:** Sustainable animal productivity for livelihoods, nutrition and gender inclusion
- **ANIMALS:** Climate change mitigation and adaptation of livestock systems
- **Resilient aquatic foods** systems for healthy people and planet
- **Excellence in agronomy:** Solutions for agricultural transformation (EIA)
- **Plant health and rapid response** to protect food and livelihood security
- **Nature-positive solutions** for productivity, resilience and inclusive growth
- **ASPHERE:** Building integrated, climate and crisis resilient agrivsilvopastoral food systems
- **Sustainable Intensification** of mixed farming systems

### Innovation & scaling partners

- **NARES**
- International and Regional Agric Res centers/institutes
- International and national universities
- International research alliances
- Int. networks and programs
- UN organizations
- National and regional growers/farmers/ trade associations
- National and multinational agri-business and food companies
- IFIs
- Funders

### Outcomes

- Smallholder farmers and their organizations adopt resource-efficient and climate-smart technologies and practices and use digital services to enhance their capacity and skills
- Smallholder farmers have increased capacity to cope with climate risks and extremes through diversification, access to climate information, insurance and credit products and services
- Women, youth, and marginalized groups participate in and benefit from improved value chains, farming systems and AFS
- Our research and scaling partners use available data, new tools, and turnkey solutions to s co-create resilient and inclusive AFS
- Public, private and finance sector invest in climate smart and more inclusive agri-business models and support services
- National and local decision makers adopt decision support tools and design enabling policies and incentive systems based on scientific evidence

### Demand & scaling partners

- National and regional governments
- Producer organizations
- Public and private extension services
- International and national NGOs
- Digital service providers
- UN organizations
- IFIs
- Investors
- Financial and insurance institutions

### Impact

- **Nutrition, health and food security:** Access to nutrient dense food, increased dietary diversity, increased food safety, reduced risk of zoonotic diseases, environmental contamination with pathogens, and AMR
- **Poverty reduction, livelihoods and jobs:** Increased yields and animal productivity, increased incomes, more decent jobs, improved livelihoods and protection against zoonoses & food borne diseases
- **Gender Equality, youth and social inclusion:** Increased decent job opportunities for women and youth, women empowerment and inclusion in AFS, women and youth assisted to exit poverty
- **Environmental health and biodiversity:** Increased water and land use efficiency, restored biodiversity and soil health, reduced land degradation and deforestation, reduced habitat fragmentation
- **Climate adaptation and mitigation:** Reduced GHG emissions, increased resilience to climate hazards, green finance and climate adaptation investment

Source: [CGIAR 2022–2024 Investment Prospectus](#)