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# Foresight and Trade-off Implications for One CGIAR

ISDC Launch: June 15, 2020

*This event is being recorded and will be publicly posted online.*



# Presentation Outline & Goals

**Presented by Chris Barrett, Holger Meinke, & Lesley Torrance**

- Understand the goals of the project
- Explain the development process of outcomes
- Review the foresight observations
- Outline the trade-off implications for One CGIAR
- Summarize ISDC reflection highlights
- Present the trade-off recommendations

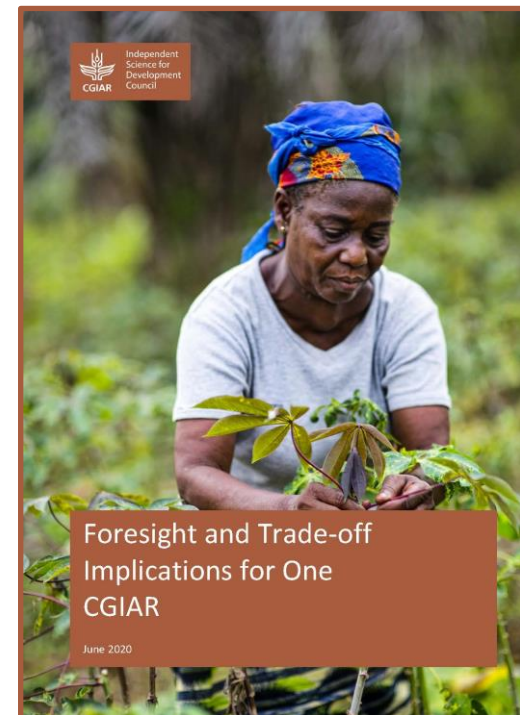
*\*Please hold all questions & comments until the closing discussion*

# Foresight & Trade-offs: Background

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- Part of the ISDC 2020 workplan
- Support evidence in the development of the CGIAR 2030 Research Strategy
- Publications include:
  - Foresight and Trade-off Implications for One CGIAR Technical Note
  - Trade-offs: The Value of Understanding the Consequences of Choices Fact Sheet
  - Food and Agriculture Systems Foresight Study: Implications for Gender, Poverty, and Nutrition
  - Food and Agriculture Systems Foresight Study: Implications for Climate Change and the Environment
  - Tradeoff Analysis of Agrifood Systems for One CGIAR

[bit.ly/isdc-foresight](https://bit.ly/isdc-foresight)



# Foresight & Trade-offs: Process

Commissioned **two foresight reviews**\* through the lens of the five impact areas of One CGIAR

The **first** review focused on the three *societal impact areas of*

- Nutrition & food security
- Poverty reduction, livelihoods, & jobs and
- Gender equality, youth, & social inclusion

Author: Erin Lentz, The University of Texas at Austin

The **second** review focused on the two *environmental impact areas of*

- Climate adaptation & greenhouse gas reduction
- Environmental health & biodiversity

Authors: Monika Zurek, University of Oxford  
Aniek Hebinck, Erasmus University Rotterdam  
Odirilwe Selomane, Stellenbosch University



Credit: 2016CIAT/Neil Palmer

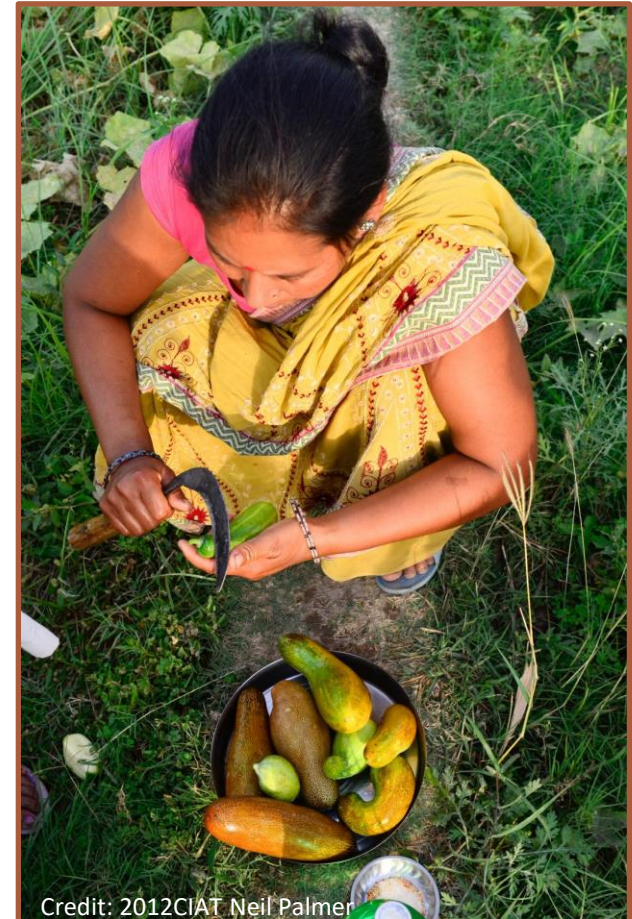
# Foresight & Trade-offs: Process

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Commissioned a **trade-off analysis report** that

- reviewed conceptual foundations of trade-offs analysis
- described current data and modeling tools from farm to global scales
- identified their strengths and limitations

Authors: John Antle & Roberto Valdivia, Oregon State University



Credit: 2012CIAT Neil Palmer

# Foresight & Trade-offs: Process

- The ISDC semiannual meeting was held the week of 20th April virtually
- Foresight reviews presented and discussed at meeting
- ISDC built a consensus of draft reflections delivered to TAG 2 using the foresight reviews' findings and meeting discussions
- The trade-off analysis report built upon the foresight reviews and ISDC consensus
- ISDC developed critical questions and recommendations from the trade-off analysis report



Credit: C. Schubert CCAFS

## Foresight Research Observations Related to Impact Areas

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- Impact areas under-represented in foresight studies: gender, nutrition, and poverty
- Megatrend analyses that include shocks
- Governance & policy barriers insufficiently considered
- Adoption and adaptation pathways of technology and institutional innovations
- Fish stocks & more sustainable forms of aquaculture & mariculture
- Effective management of trees for co-production of food and ecosystem services
- Migration gender dynamics
- Specific challenges within sub-Saharan Africa
- Linkages between access to water, sanitation, & water infrastructure & gender, poverty, & nutrition
- Biotic pressures on the AFS resulting from climate change
- Effects of food prices across impact areas



Credit: P. Casier/CGIAR

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# Trade-off Analysis Implications

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- What are CGIAR's mechanisms and capacities to identify and engage key partners in weighing trade-offs?
- What opportunities exist in emerging research modalities and tools to streamline ongoing trade-off discussions?
- How will the trade-off analysis systems of CGIAR continually assess and weight the inevitable unintended consequences that new technologies spur?
- Studying and projecting the possible impacts of shocks will be critical in aligning and influencing emerging AFS trends.



Credit: N. Palmer (CIAT-CCAFS)



# Reflection Highlights

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- Success will depend on integrating foresight and trade-off analyses into ongoing co-design and decision-making processes
- Foresight and trade-off analyses should prioritize attention to key barriers to adoption, adaptation, and diffusion of innovations for impact
- Expanded attention to—and investment in—research concerning fruits, legumes (including pulses), nuts, and vegetables to broaden the System's commodity composition
- Research needs to align and influence emerging AFS trends
- Sustainable intensification and stronger agroecological systems approaches are synergistic pathways



# Foresight & Trade-off Analyses are Essential Tools for Developing & Executing Research Strategies

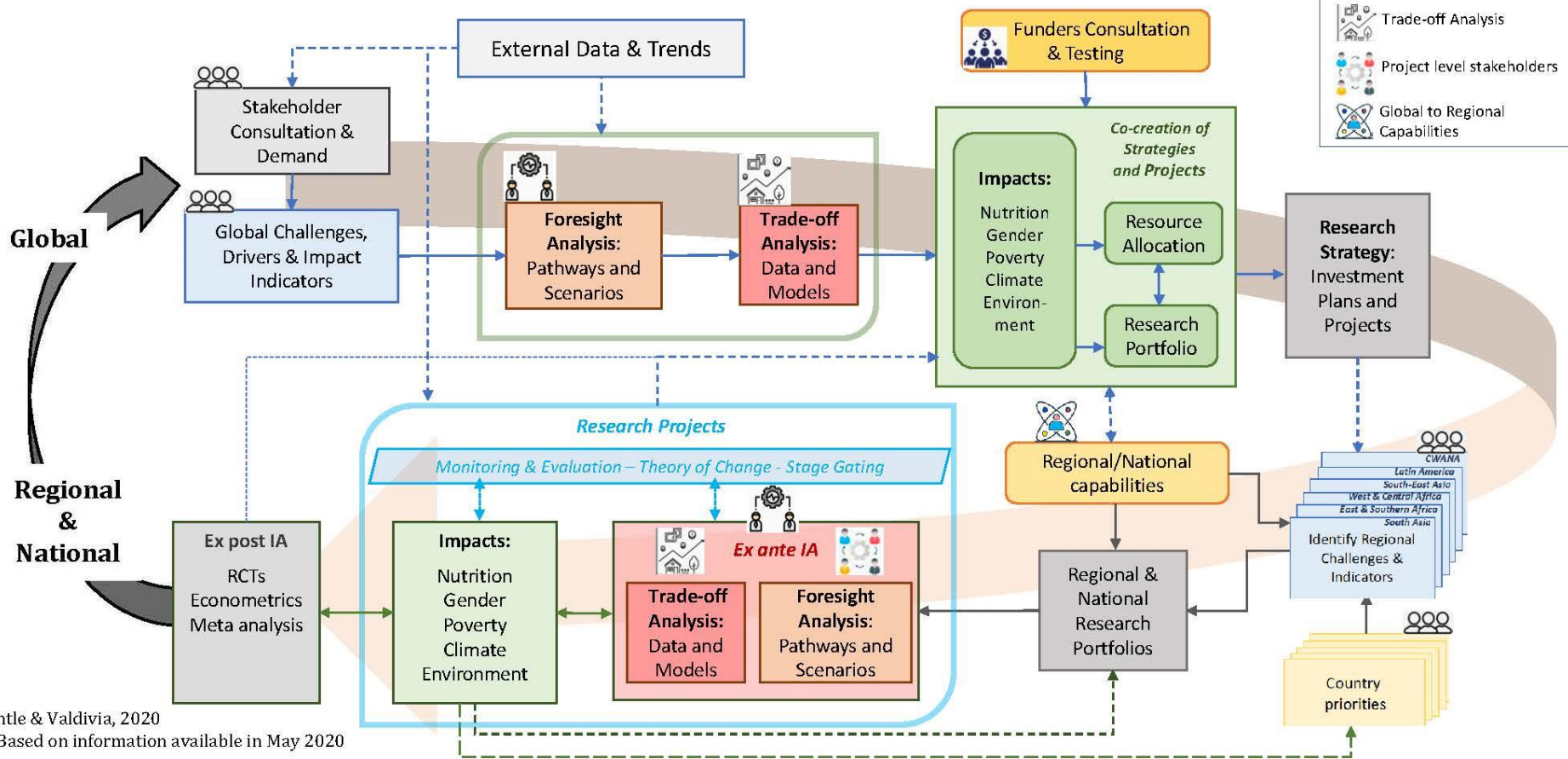
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- One CGIAR should integrate the two types of analytical approaches—foresight analysis and tradeoff analysis—into all its ongoing decision-making and priority-setting processes
- To deal with complexity and uncertainty in AFS, foresight and trade-off analyses implementation should respect the principle of parsimony by using the simplest scientifically-sound approaches that fit the problem domain
- One CGIAR needs a strategy for capacity building to ensure the effective use of foresight and trade-off analyses by all its governance, management, and research teams



Credit: H. Meinke

## Foresight and Trade-off Analysis in One CGIAR Priority Setting, Research Portfolio Design, and Monitoring & Evaluation



Antle & Valdivia, 2020  
 \* Based on information available in May 2020

Reaction & Discussion Moderator:  
ISDC Foresight & Trade-off Focal Point  
Lesley Torrance

*Reactions from:*

SIMEC Chair  
Michel Bernhardt

TAG 2 Co-convener  
Martin Kropff

Science Leaders  
Co-spokesperson  
Oscar Ortiz



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Discussion Directions:  
Please raise your hand.  
You will be called on to  
ask your question or  
comment.

Please email additional  
questions to  
[isdc@cgiar.org](mailto:isdc@cgiar.org) for an FAQ  
by July 3.

