

GLOBAL ALLIANCE FOR CLIMATE-SMART AGRICULTURE

Knowledge action group



RESEARCH PROGRAM ON Climate Change, Agriculture and Food Security

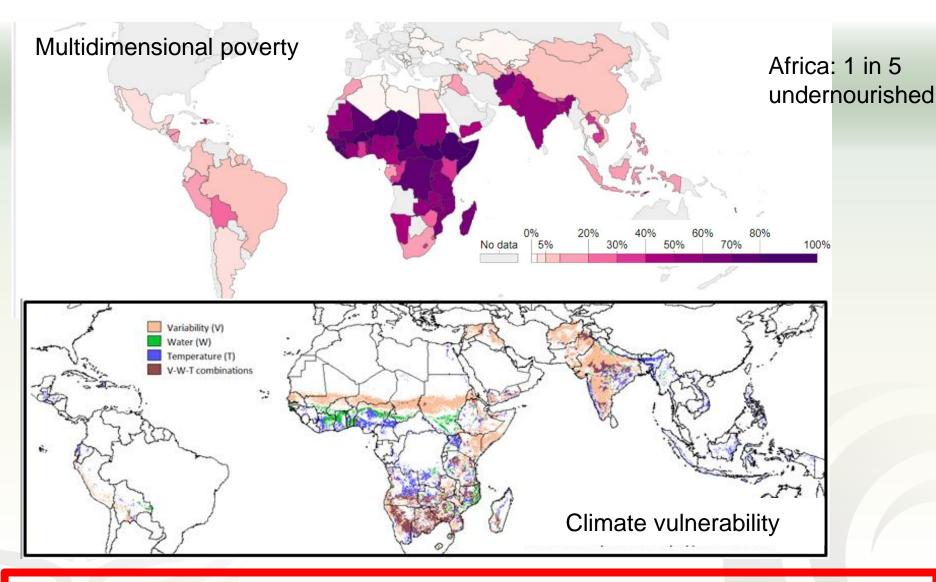


Bruce Campbell Program Director



Are we serious about the challenges? Are we serious about the SDGs: Zero hunger in 2030?





In many regions we have only 11 growing seasons to reach 55 M African smallholders

How are agric practices changing?



Region	No. sites	Proportion of households of each type			
		Stepping up (Investing in ag. assets; expanding scale or intensity of ag. activities)	Stepping out (increased off- farm income; accumulating non-ag assets)	Hanging in (Few changes)	Scraping by (> 5 food deficit months per year)
East Africa	8	14	12	43	32
West Africa	5	11	6	70	14

- Few farmers are intensifying
- Few are moving towards significant off-farm activities
- Many are "stuck" in food insecurity or making minimal change (i.e. coping)

Thornton et al. (2018)

Must have tailored solutions

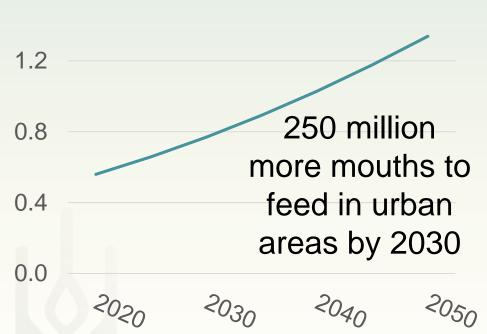
Be realistic about what agriculture can achieve – other sectors have to grow

Massive opportunity for African farmers and food companies



Africa's urban population (billions)

1.6



Africa's annual food import bill \$35 billion \$110 billion by 2025 Africa Development Bank

Diets are changing

- Staples diversifying
- Increased consumption of fruits, vegetables and animal-based products
- More "fast foods"

Staatz, J. and F. Hollinger (2016), OECD Publishing, Paris

UN Department of Economic and Social Affairs. World Population Prospects: The 2017 Revision.

What will it take to get food system transformation?

Empower farmer and consumer organizations, women and youth

Reshaping supply chains, food retail, marketing and procurement

Fostering enabling policy and institutions Digitally enabled climate-informed services

RESEARCH PROGRAM ON

Climate Change, Agriculture and

Food Security

CGIAR

 \bigcirc

CCAFS

Innovative finance to leverage public & private sector investments

Climate-resilient and lowemission practices and technologies

Dinesh et al 2018 CCAFS Infonote Campbell et al., 2018 Current Opinion

Don't get stuck on technology

CSA Practice Briefs: Implementation guidance for policymakers and investors



- Site-specific nutrient management (Wageningen)
- A Gender-responsive Approach to Climate-Smart Agriculture (FAO & CCAFS)
- Coffee-Banana Intercropping: (IITA, CCAFS, ISABU)
- Integrated Soil Fertility Management: (IITA, AGRA, CCAFS)
- Site-Specific Nutrient Management: (ILRI, CIMMYT, WRI, Univ Minnesota, CCAFS)
- Conservation agriculture (FAO, CIMMYT, CCAFS)
- Climate-Smart Pest Management (CABI)
- Improved ruminant genetics (Wageningen, GRA,)
- The System of Rice Intensification (SRI): Revisiting Agronomy for a Changing Climate (Cornell)
- Alternate wetting and drying in irrigated rice (IRRI, CCAFS)

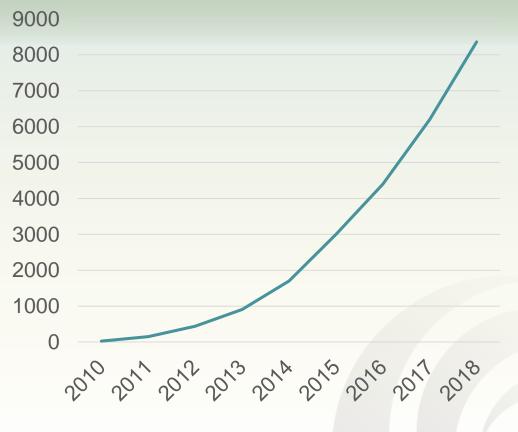
Webinars



What should the Knowledge Action Group do?



Numbers of publications on climate-smartagriculture



What should the Knowledge Action Group do?

Align CSA conferences with GACSA (ie be a part of GACSA)

 Aim for 2 KAG webinars per year on topics for which there is demand

- Expand vision of "knowledge" in KAG
- Try for a demand-driven mode of operation



Campbell et al., 2018 Current Opinio







GLOBAL ALLIANCE FOR CLIMATE-SMART AGRICULTURE

www.ccafs.cgiar.org



RESEARCH PROGRAM ON Climate Change, Agriculture and Food Security



@bcampbell_CGIAR

Thank you

CCAFS is supported by:







Schweizerische Eidgenossenschaf Confédération suisse Confederazione Svizzera Confederaziun svizra

> Swiss Agency for Development and Cooperation SDC



