



Climate-smart agriculture: state of play

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Outline



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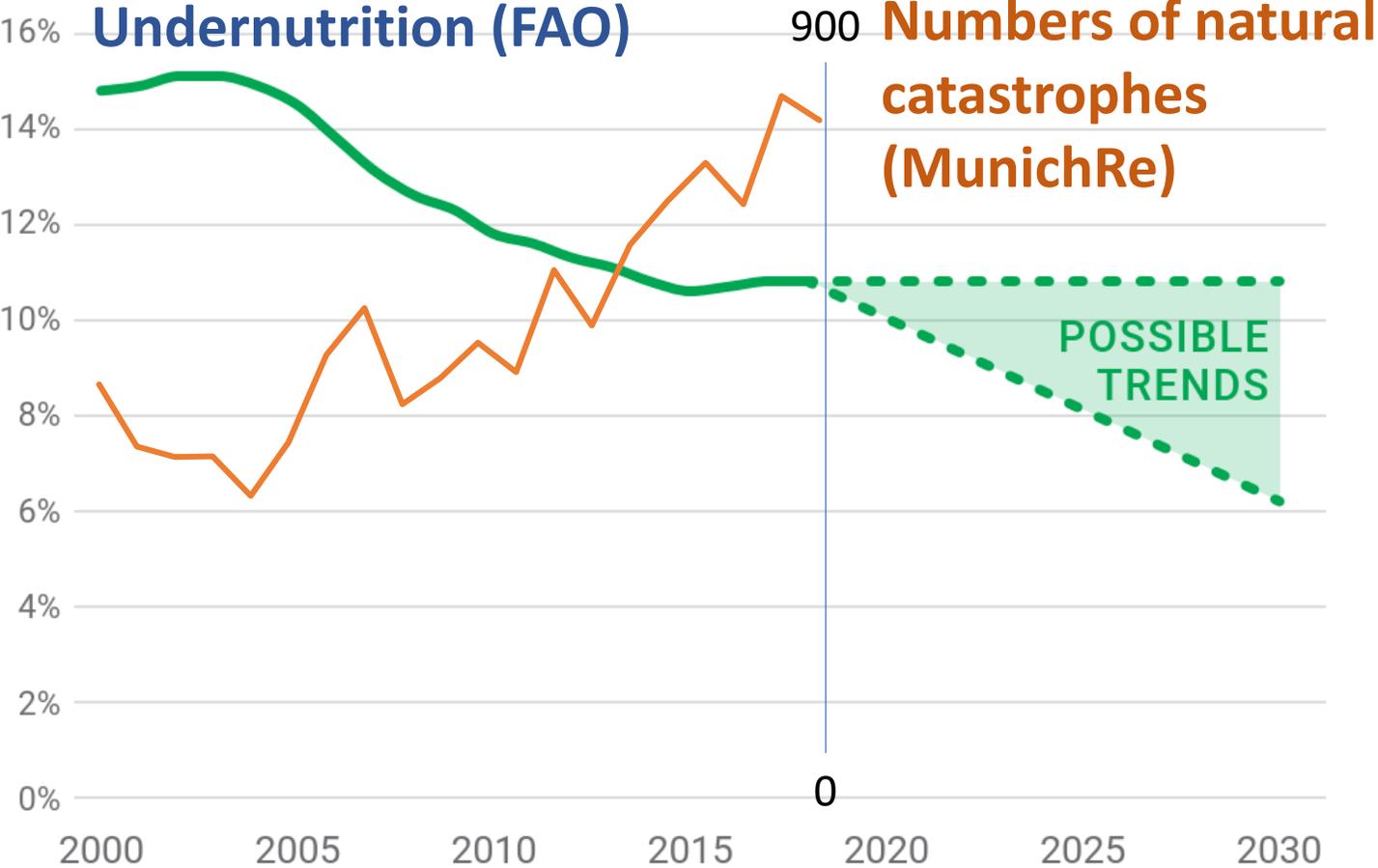
- Urgency: Only 10 seasons to 2030
- Many innovative climate-smart technologies, with multiple co-benefits
- To scale, we need transformative thinking with revolutions in **digital, policy making, finance, R4D**



Only 10 seasons to 2030 - we are not on track



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Climate extremes

- Selling productive assets
- Reducing number of meals
- Migration

Solar powered irrigation

- Sell to the grid
- Sell water to other farmers
- More secure irrigation water
- Positive GHG implications
- Limited over-pumping if incentives right
- Billion dollar investments in rolling out 2+ M solar irrigation pumps in India

- **5% of cropland in Africa irrigated, with a global average 20%**
- **Can solar be an energy and water solution?**

Alternate wetting & drying



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25-75% water



20-50% GHG



Without compromising yield

Stress-tolerant varieties



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- ☐ Increase yields by 38%
- ☐ Reduce crop failure by 36%

A stylized map of Zambia, composed of a grid of blue dots of varying density, with the word "Zambia" written in white on a blue rectangular background.

Zambia

Within a few seasons of R&D 300,000 farmers paying for climate-informed advisory services



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Toto Agriculture





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**To scale,
we need
transformative
action**

Help farmers make better choices - digital

- Take climate services to scale by connecting 300 million farmers and agribusinesses to ICT-enabled bundled advisory services by 2030.

Implement policy and institutional changes that enable transformation

- Realign US\$300 billion of agricultural subsidies to a climate change agenda
- Improve “ease of doing business” in 24 sub-Saharan African countries,
- Significantly improve the readiness score of the ND-GAIN Index in 49 countries.

Unlock billions in sustainable finance:

- Unlock US\$320 billion in public and private capital per year

Transform innovation systems to deliver impacts at scale

- At least 50% of public investment in research providing end-to-end solutions

Thank you



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