The Challenge of World Food

20th Century

- Reduce hunger & poverty
- Grow more calories to feed a growing population
- Grow more food with more resources
- Focus on small-scale producers

21st Century

- End hunger & poverty
- Grow more diverse foods to feed a growing economy
- Grow as much food with less impact
- Small or large producers?

How?

20th Century

- Public Research
- An "industrial" approach to agriculture
- Breed high yielding varieties of staple cereals
- Subsidize inputs (water, fertilizer)
- Focus on smallholders

21st Century

- Public/Private Research?
- An "ecological" approach to agriculture?
- Breed/Engineer (?)
 resilient+efficient varieties
- Price inputs/pollution?
- Focus on smallholders / commercial growers?

 New technologies/practices need not only perform well, they need to be adopted at scale.

• Economic, behavioral, institutional challenges.

 Especially so for small-scale producers in low and middle income countries.







Is our research system working?

EDITORIAL · 12 OCTOBER 2020

Ending hunger: science must stop neglecting smallholder farmers

Policymakers urgently need ideas on ways to end hunger. But a global review of the literature finds that most researchers have had the wrong priorities.











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