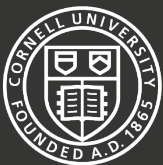


Ceres2030

Sustainable Solutions to End Hunger



INTERNATIONAL
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RESEARCH
INSTITUTE



International Institute for
Sustainable Development

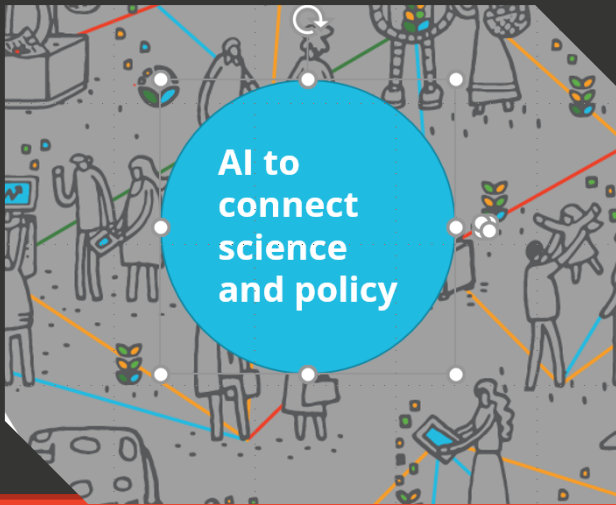
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Reimagining Future Food Systems:
zero hunger, X2 incomes, < C02

Reimagining future food systems by 2030

1. What are the most effective ways to achieve **zero hunger, double incomes** of smallholder farmers, AND **protect the climate**?
2. What would it cost?



Artificial intelligence

nature research

Highest scientific standards



CGE modelling

Bring together a new generation committed to evidence-based decisions

Supported by **84**
researchers from
25 countries & 53
organisations



**Dr. Saweda
Liverpool-Tasie**
Market links for
farmers



**Dr. Isabelle
Baltenweck**
Livestock feed
interventions



**Dr. Vincent
Ricciardi** Water
scarcity



Jaron Porciello
Synthesis and AI



**Dr. Maricelis
Acevedo** Climate
resilient crops



**Dr. Tanya
Stathers**
Post harvest loss



**Dr. Valeria
Piñeiro**
Policy incentives
for sustainable
practices



**Dr. David
Laborde
Debucquet**
Economic
modeling



**Dr. Livia
Bizikova**
Farmers
organizations



**Dr. Eugenie
Maiga**
Youth employment



Dr. Leslie Lipper
Understanding
tradeoffs for SDG2



Carin Smaller
Policy relevancy



Guided by leading food experts



Catherine Bertini,
Chicago Council



Jamie
Morrison, FAO



Joachim von
Braun, ZEF



Segenet
Kelemu, icipe



Paul Winters, University
of Notre Dame



Uma Lele, Independent
Scholar



Richard
Florizone, IISD



Leslie Lipper,
Cornell University



Lindiwe Majela
Sibanda, Food Systems
Champion



Will Martin,
IFPRI



Maximo
Torero, FAO



Li Xiaoyun, China
Agricultural University



Nicola Randall, Harper
Adams University



Boaz Blackie
Keizire, AGRA



Mario Herrero,
CSIRO



Njuguna
Ndung'u, AERC



Ruurd Ruben,
Wageningen



Martin Piñeiro,
Argentina Council on
Agriculture



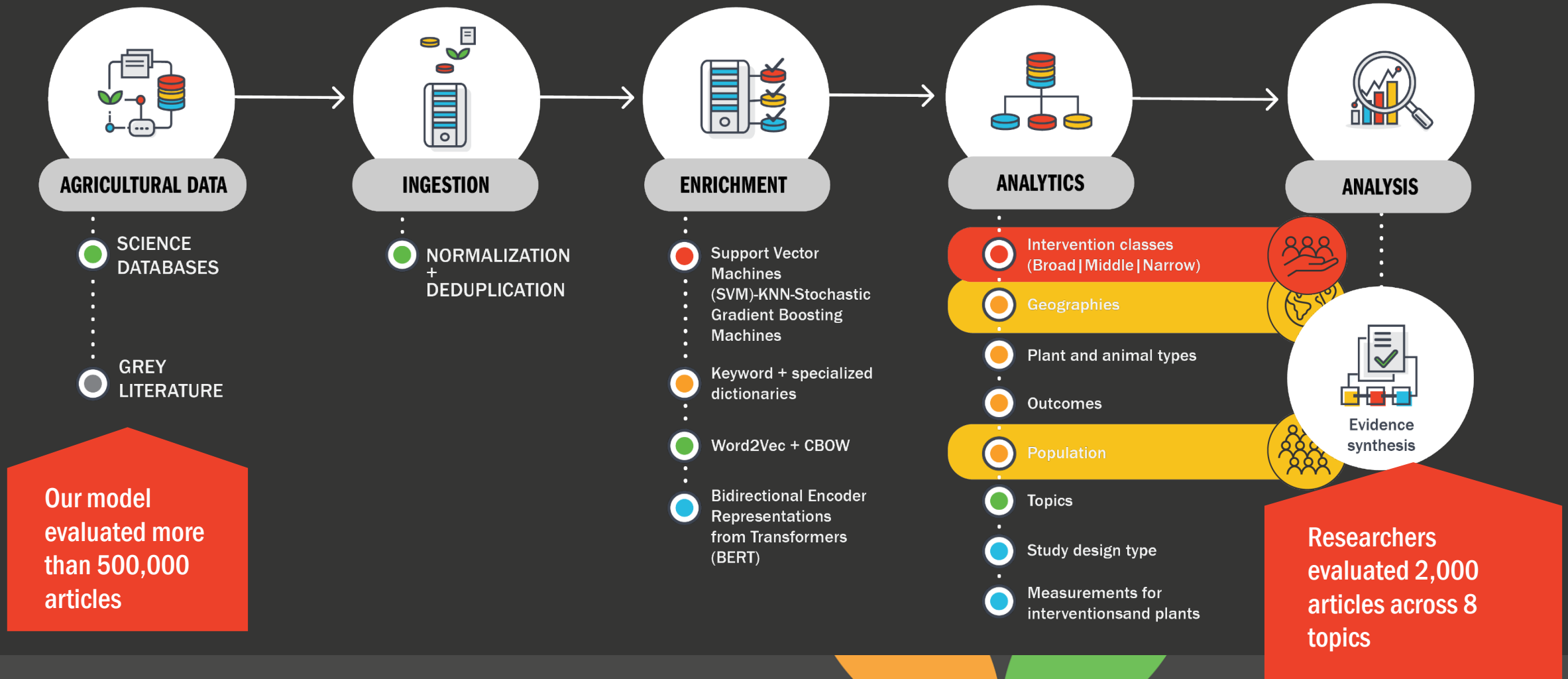
Prabhu Pingali,
Cornell University



Ronnie Coffman,
Cornell University

Use AI to scan half a million papers

Researchers
evaluated more
than 100,000
articles





SDG
2.1



SDG
2.3



SDG
2.4

And a CGE model to estimate the costs

Publish the collection

Sustainable Solutions to End Hunger

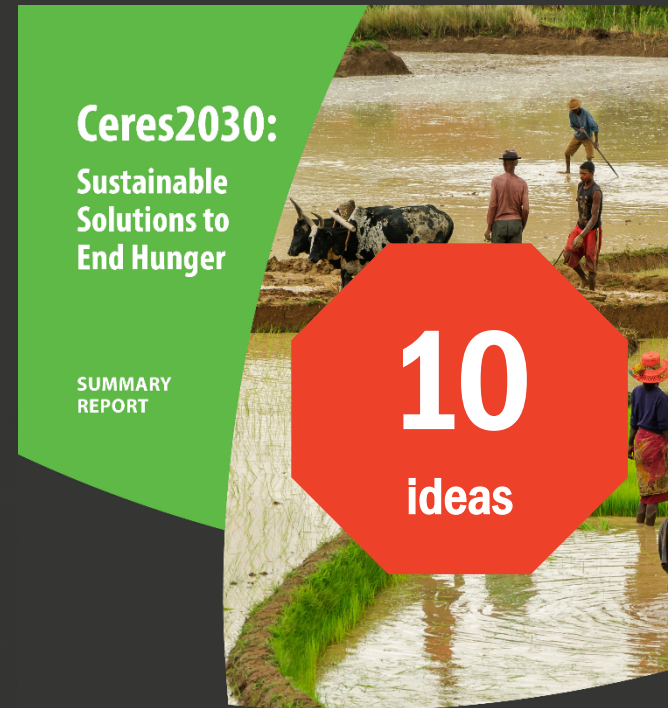


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<http://ceres2030.org>

We need to do many things, so let's be organized



ON THE FARM

Interventions provided directly to farmers, including farm inputs, R&D, improved livestock feed, and irrigation infrastructure.



FOOD ON THE MOVE

Interventions to reduce post-harvest losses, including storage, to improve returns from sales, and to support the mix of services provided by SMEs, such as cooperatives, traders, and processors.



EMPOWER THE EXCLUDED

Interventions related to social protection, institutions such as farmers' organizations, and education through vocational training.

8 papers

2 ZERO HUNGER



ON THE FARM



Feed interventions
for livestock



Water scarce
regions



Incentives for
sustainable agricultural
practices



Adoption of climate-
resilient crops

EMPOWER THE EXCLUDED



Farmers'
organizations



Rural youth
education and
training.

FOOD ON THE MOVE



SMEs in value
chains



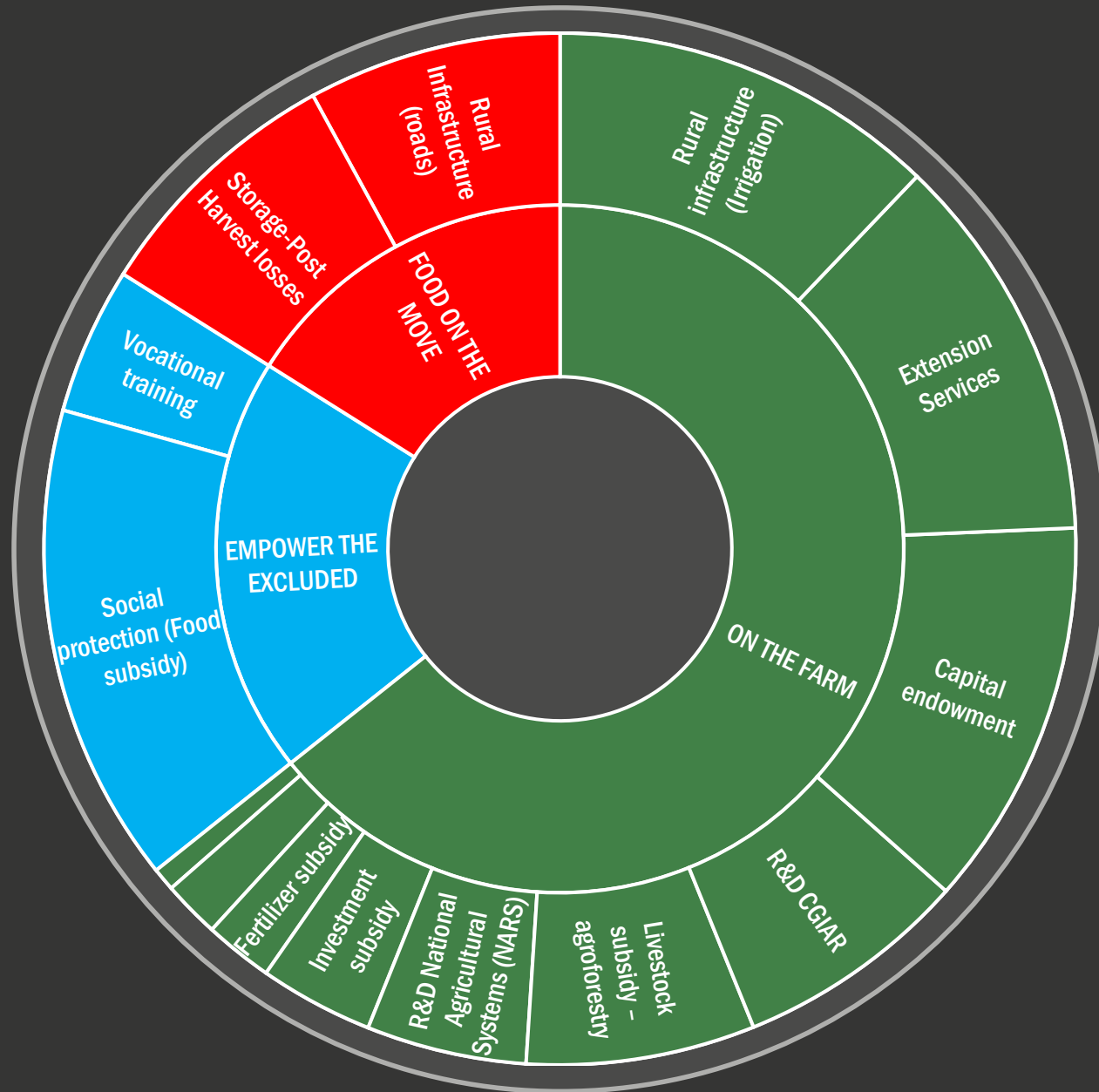
Postharvest loss
reduction



The collection
has been
published open
access with
Nature Research

14 interventions

Additional
spending
optimally
allocated across
14 interventions.



10 ideas

Here is our roadmap

1. Extension services with R&D, particularly for women.

2. Sustainable practices must be economically viable.

3. Support adoption of climate-resilient crops.

4. Increase research on water-scarce regions.

5. Improve the quantity and quality of livestock feed.

6. Enable participation in farmers' organizations.

7. Offer vocational training in multiple skills.

8. Scale up social protection programs.

9. Expand storage along value chains + more food crops.

10. Support SMEs in the value chain.

A wake-up call!

The role of minimum access to capital



Human capital (education & training)



Knowledge capital (R&D)



Social capital (networks and farmer's organisations)



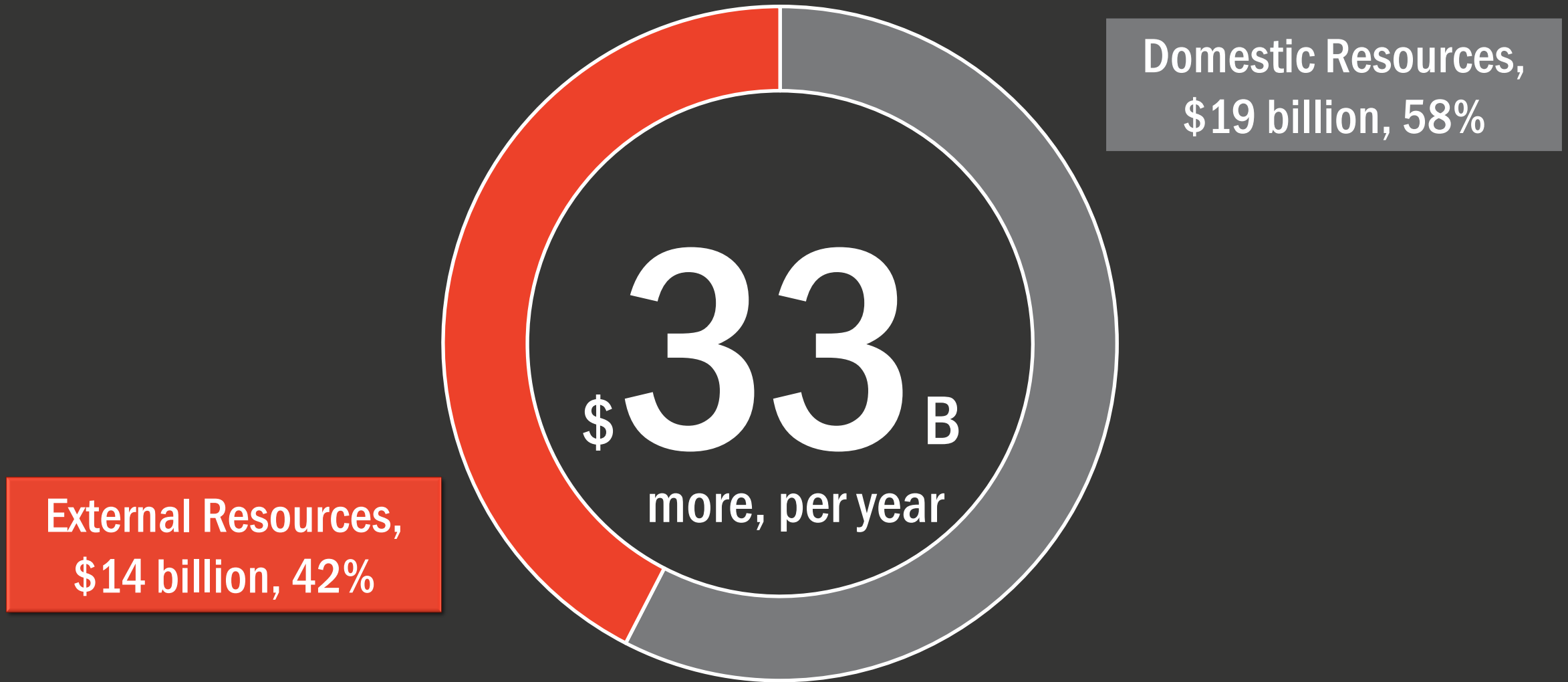
Financial capital (finance and credit)



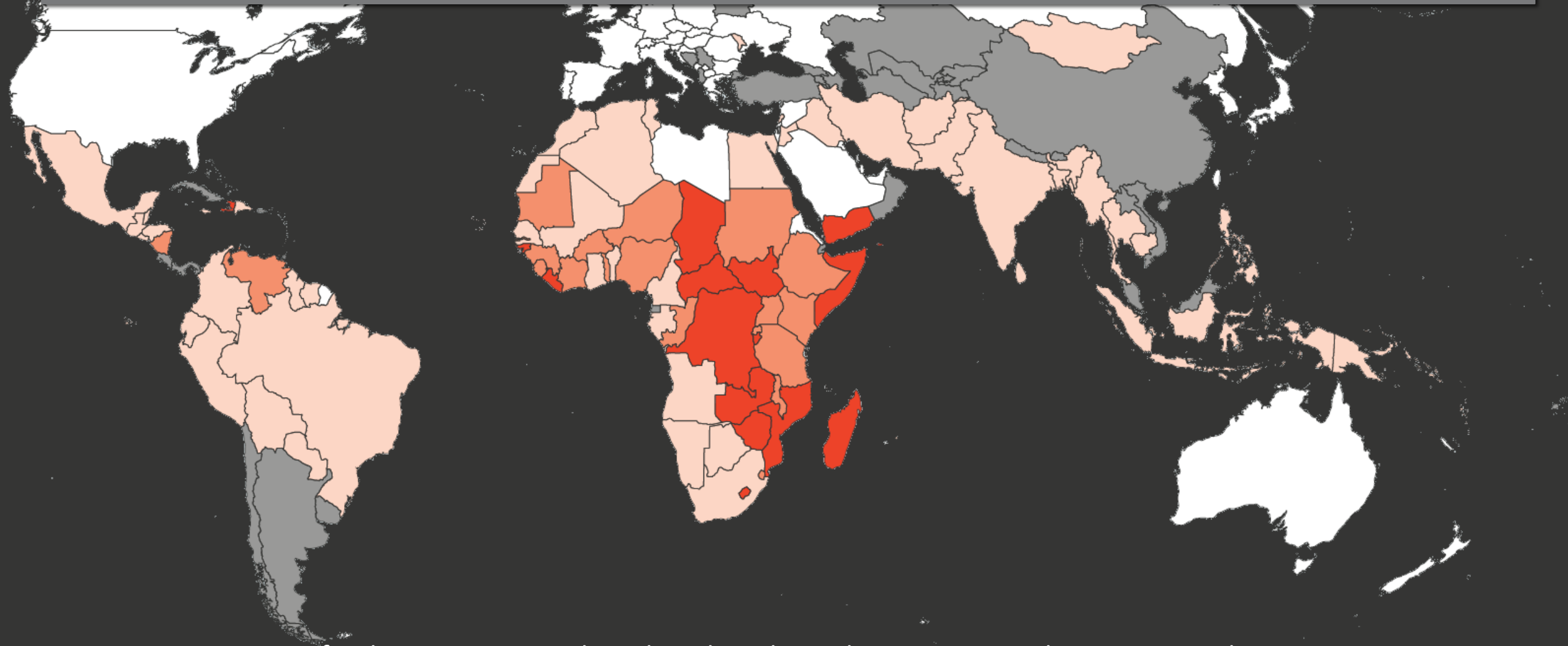
...while protecting natural capital



How much will it cost?



Where should we prioritize spending? A Focus on Africa



Priority countries for donor investment based on their dependency on external resources until 2030



High Priority



Medium Priority



Low Priority



On Target



Not Included in Assessment

If we mobilize

\$33^B

more, per year

500

million out of
Hunger

545

million farmers
**income
doubled**

Paris
climate
agreement
still respected
for ag

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Thank you

