



Food and Agriculture Organization
of the United Nations

USDA Agricultural Outlook Forum

What lies ahead: Searching for Innovation and the Next Technological Frontier

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735 million people

faced hunger in 2022.

That is an increase of over

122 million people

in one year due to the effects of the pandemic, repeated weather shocks and conflicts.

3 billion people

don't have access to a healthy diet.

In 2022,
258 million people
had experienced
acute food insecurity
(IPC Phase 3 and above)
in **58 countries**

**Phase 3:
Crisis**

Highly stressed and critical lack of food access with high and above usual malnutrition and accelerated depletion of livelihood assets

**Phase 4:
Emergency**

Severe lack of food access with excess mortality, very high and increasing malnutrition, and irreversible livelihood asset stripping

**Phase 5:
Famine**

Extreme social upheaval with complete lack of food access and/or other basic needs where mass starvation, death and displacement are evident

Urgent action required



Main drivers:

- conflict
- economic shocks
- weather extremes



Farmers are
the most vulnerable.



But **Farmers** are
also **innovators**.



FAO promotes
and upscales
innovation.



Without trade,

food

availability and accessibility
would be more unevenly
distributed.

We would have less diverse

diets.



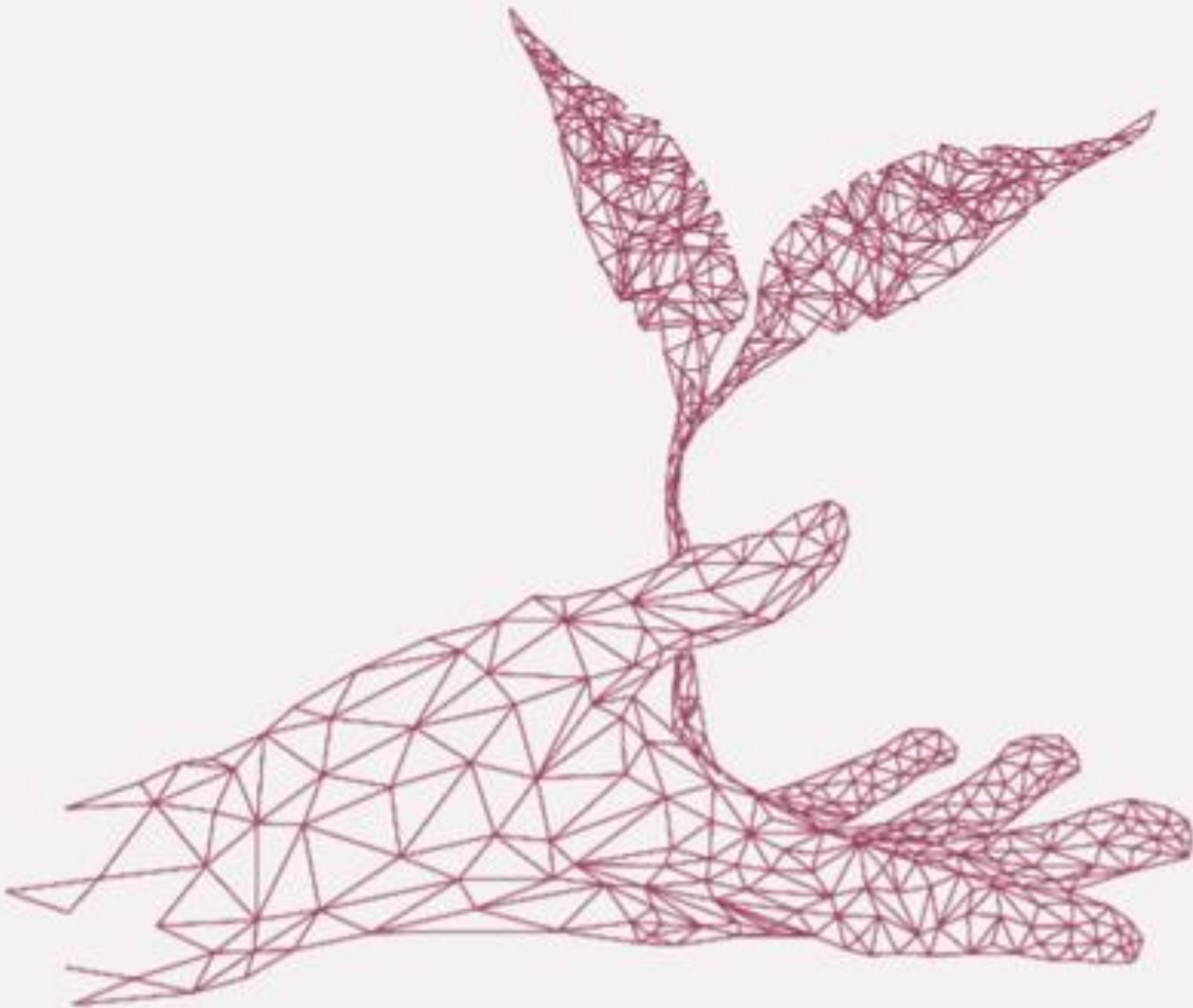
Impacts and Disruptions:

- Panama Canal
- Red Sea
- Black Sea



Challenges:

- Low water levels
- Changes in shipping routes
- Longer shipping routes



Innovation

is, at its core, about solving problems.

E-phyto solution and **supply chain traceability** are two important – and practical – innovations.

FAO's work and contributions





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Thank you!
