





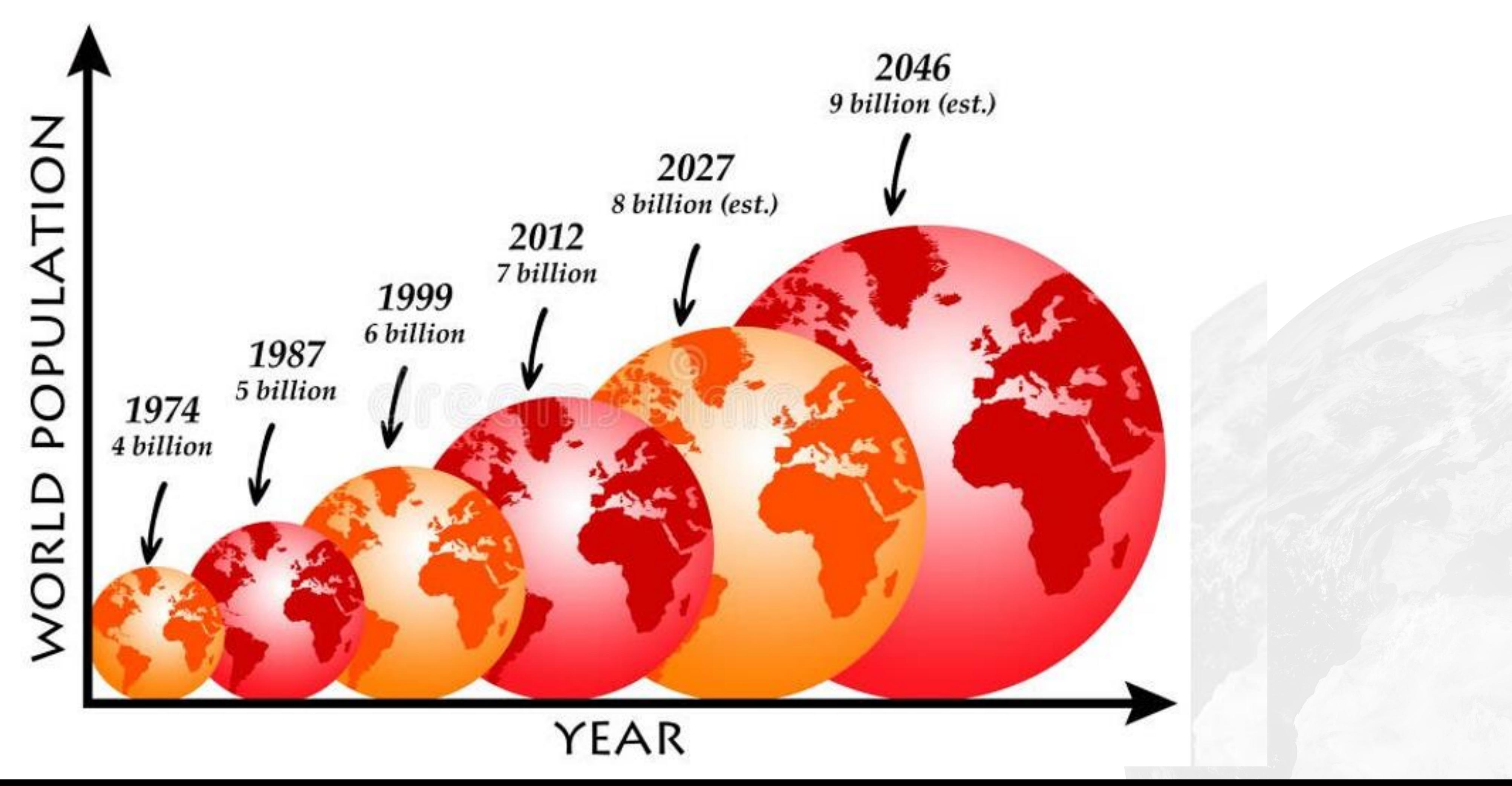
Emerging Issues:

Addressing Food Monitoring as a Foundation of Food Control Systems

Professor Chris Elliott, OBE
Professor of Food Security, Thammasat University
Institute for Global Food Security, Queen's University, Belfast



Food Security by numbers

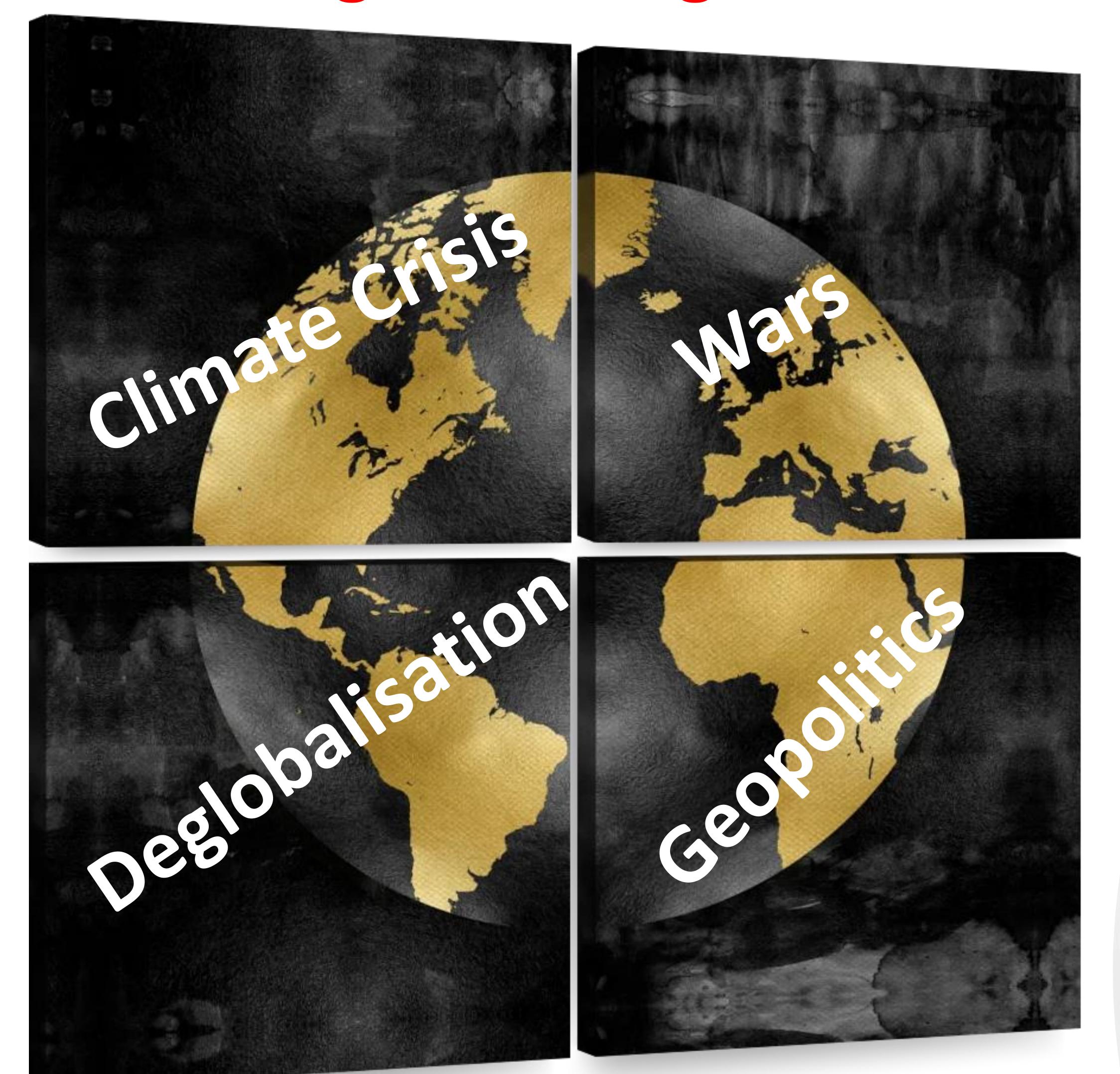








The four big drivers of changes to the global food supply system.



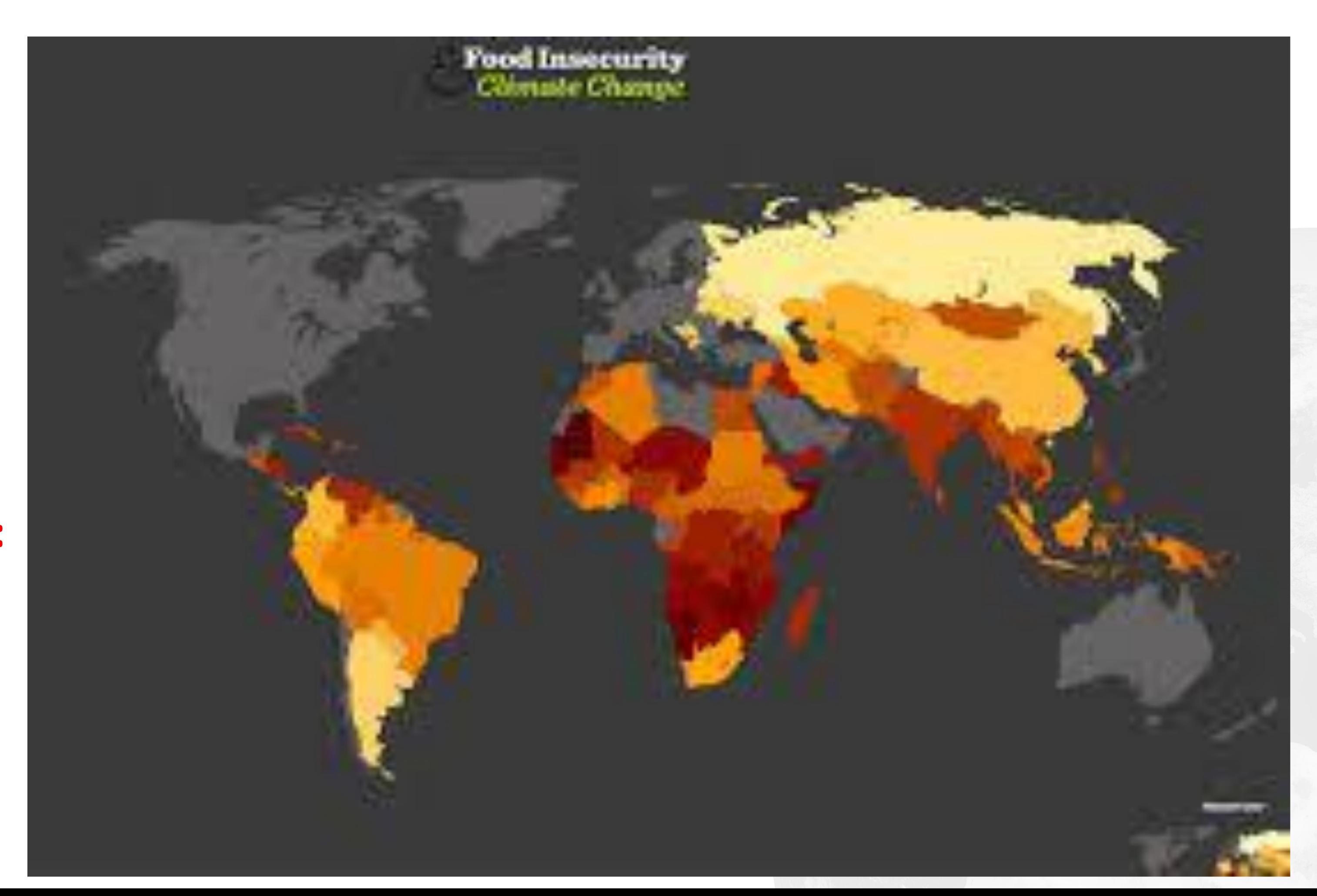






Food insecurity linked to climate change is a complex and multifaceted issue

- Extreme Weather Events:
- Shifts in Growing Seasons:
- Temperature Increases:
- Water Scarcity:
- Sea-Level Rise:
- Reduced Fisheries:
- Displacement and Conflict:
- Rising Food Prices:
- Reduced Food Nutrient Content:
- Food System Vulnerability:









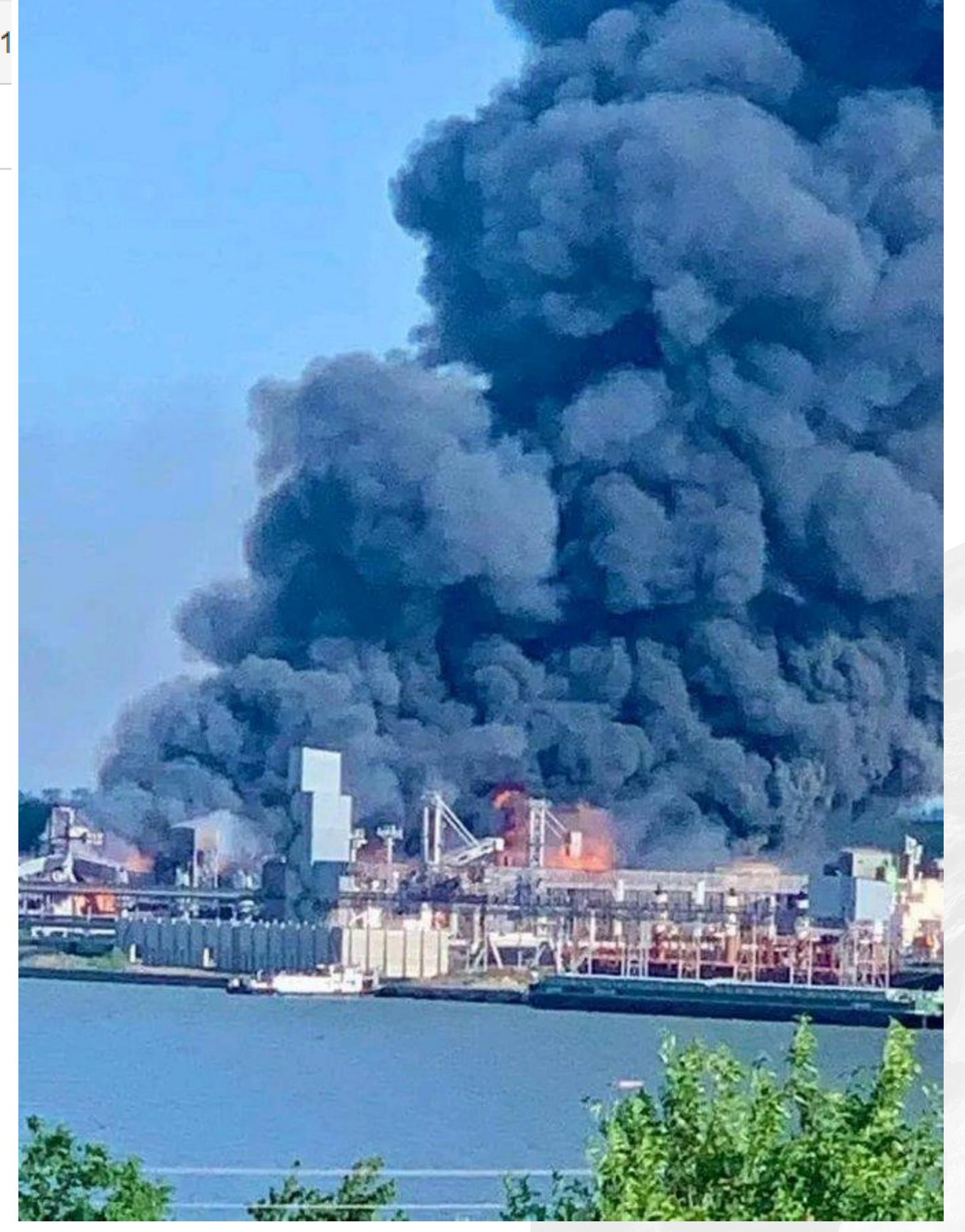




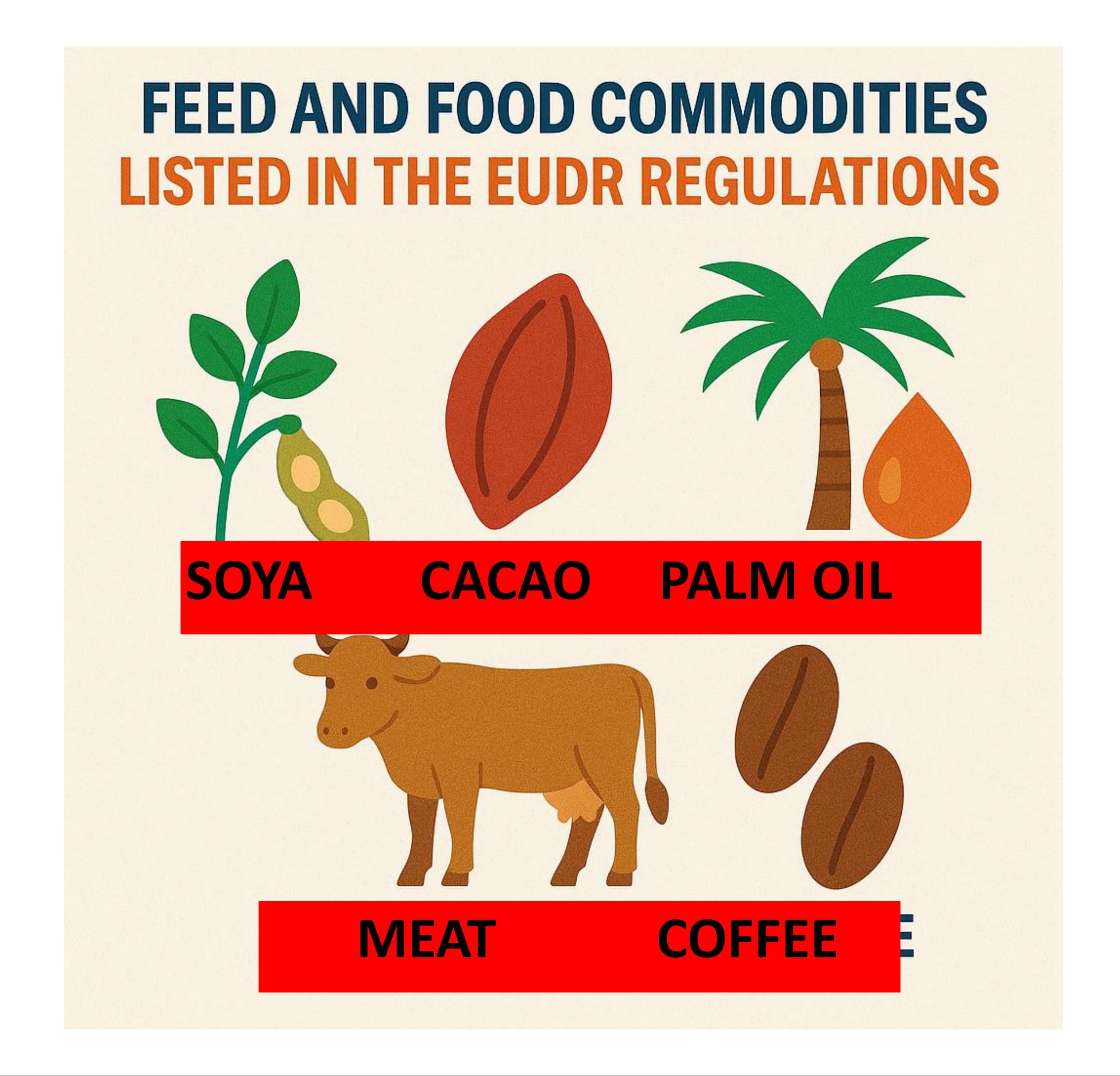
Japanese customers brave the rain to line up for cheap, stockpiled rice

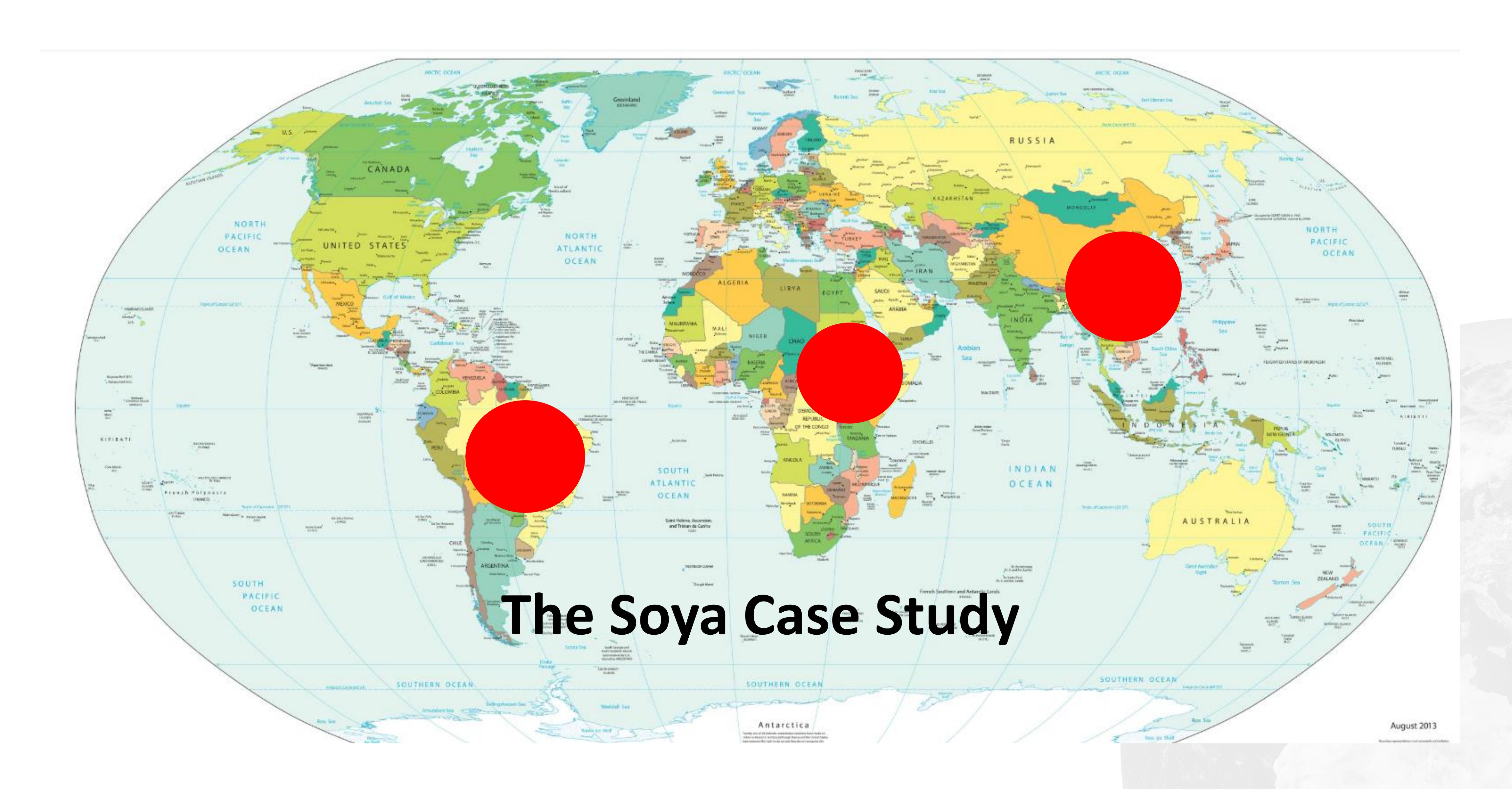














A slide from 2017.....





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Let's talk Olfactome

- Sensory Directed Analysis
- Finding key Aromas / Odors
- GC-MS/O Determination

ARTICLE

Is deglobalisation a good or bad thing?

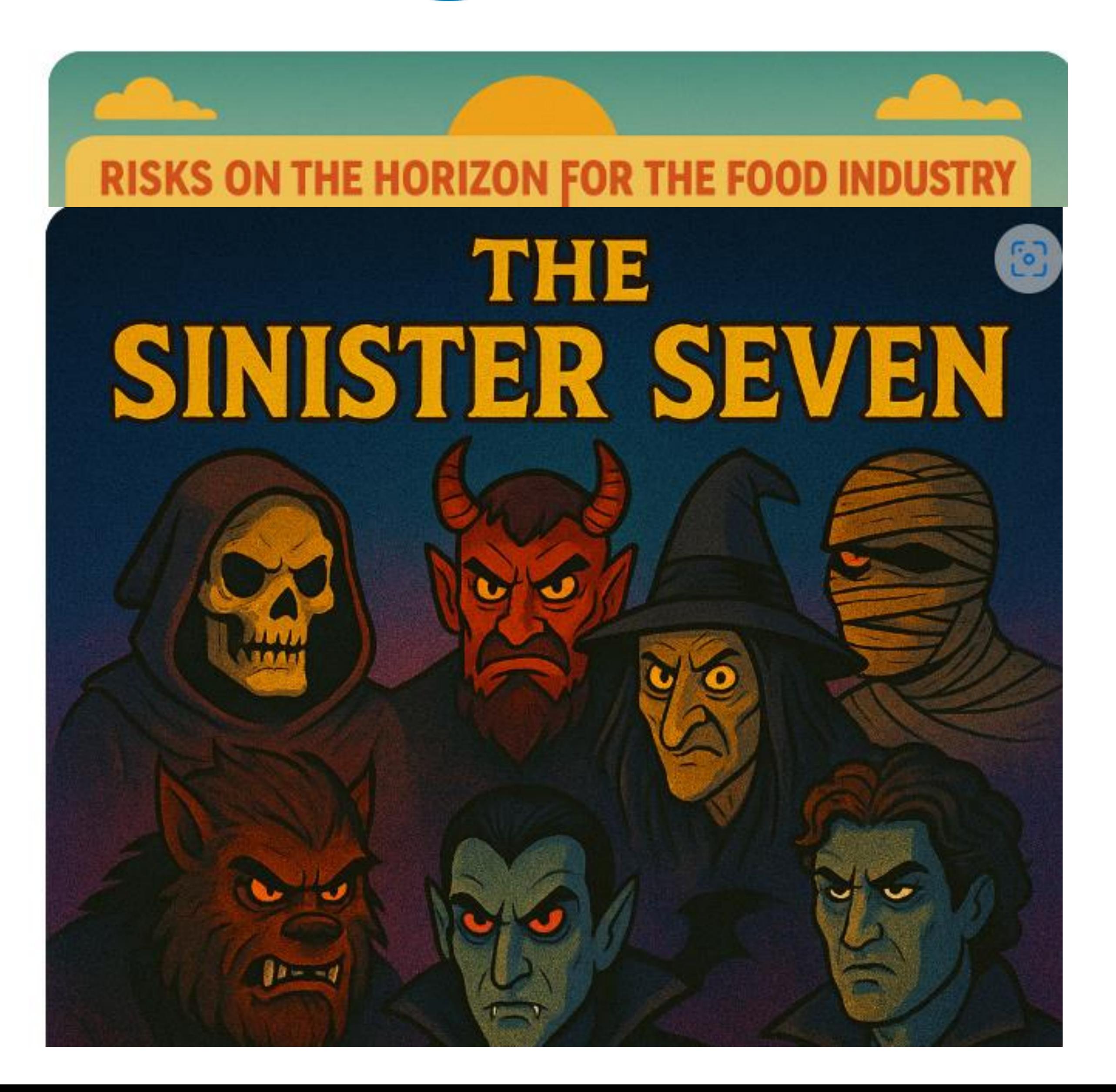
Professor Chris Elliott examines the ongoing deglobaliastion of our food system and analyses its potential impact.

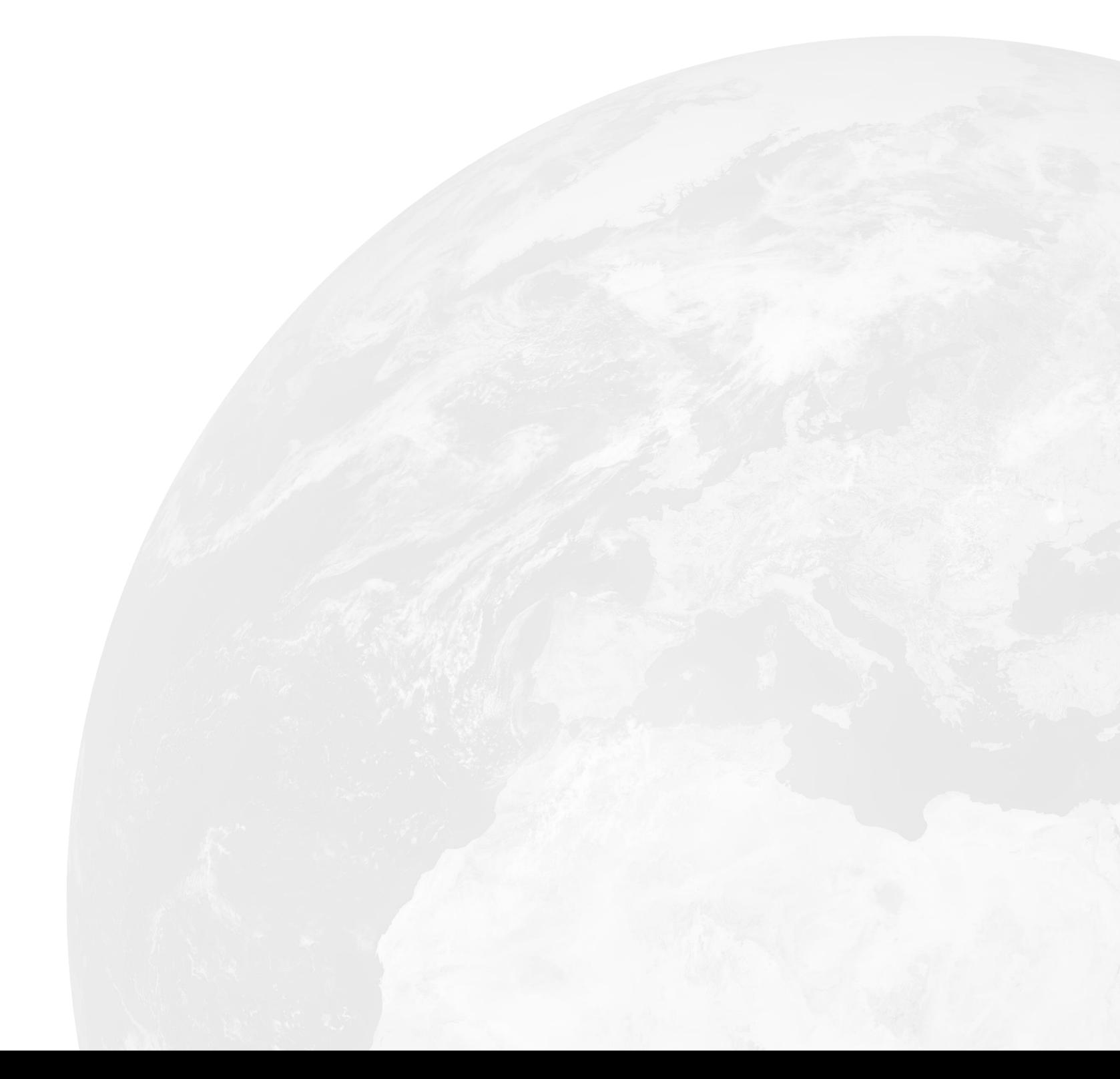












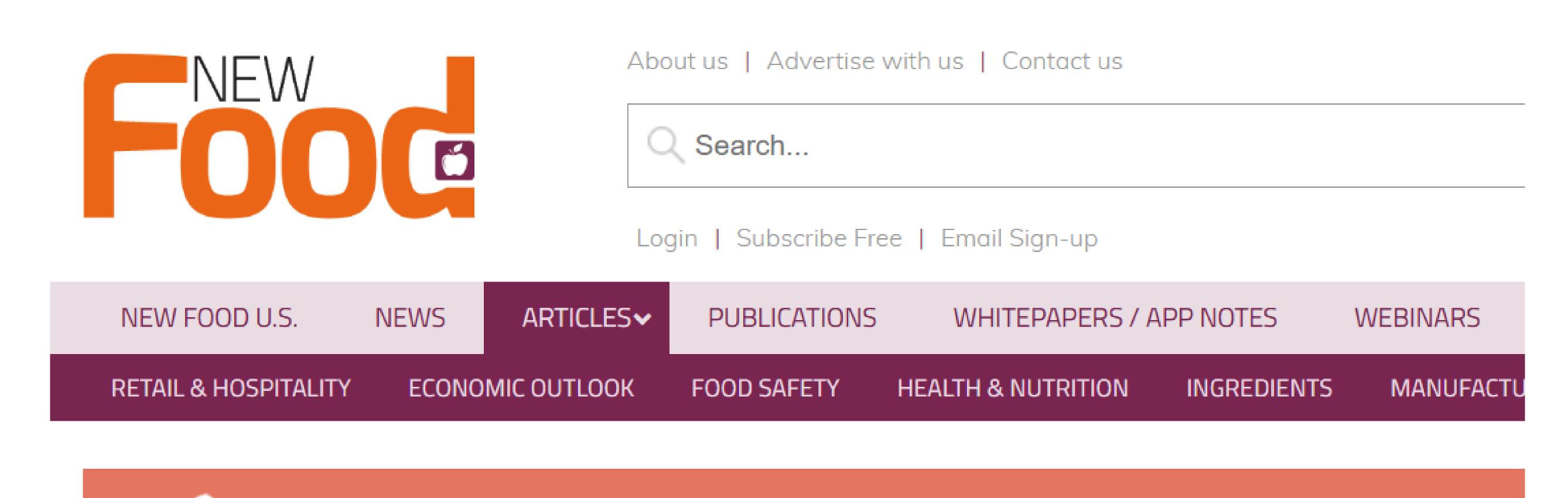
THE INSTITUTE
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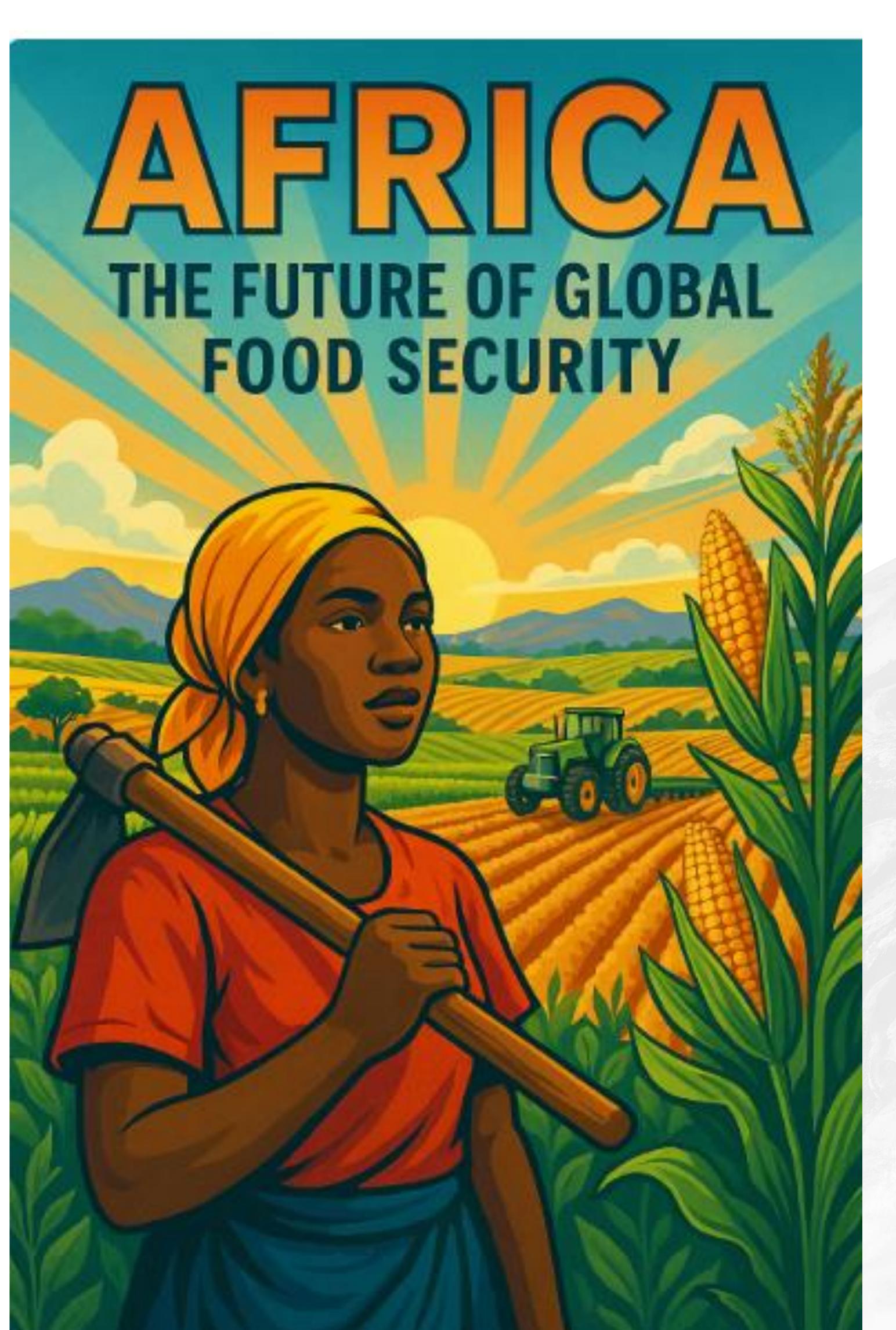
by providing mouthfeel notes to your formulations

ARTICLE

Biospringer

Out of Africa – the future of global food security

Africa is often seen through the lens of food insecurity, but a quiet revolution is underway. Professor Chris Elliott explores how the continent could become a global food powerhouse.





Top 5 Opportunites for Africa to Become a Global Food Security Powerhouse



Vast Untapped Arable Land





Rising Investment in Agriculture & Infrastructure



Transformation to Modern, ind-dustrialiseed Agriculture

Top 5 Barriers to Delivering this Vision



Low Agricultural Productivity



Climate Change and Environmental Degradation



Inadequate Access to Finance

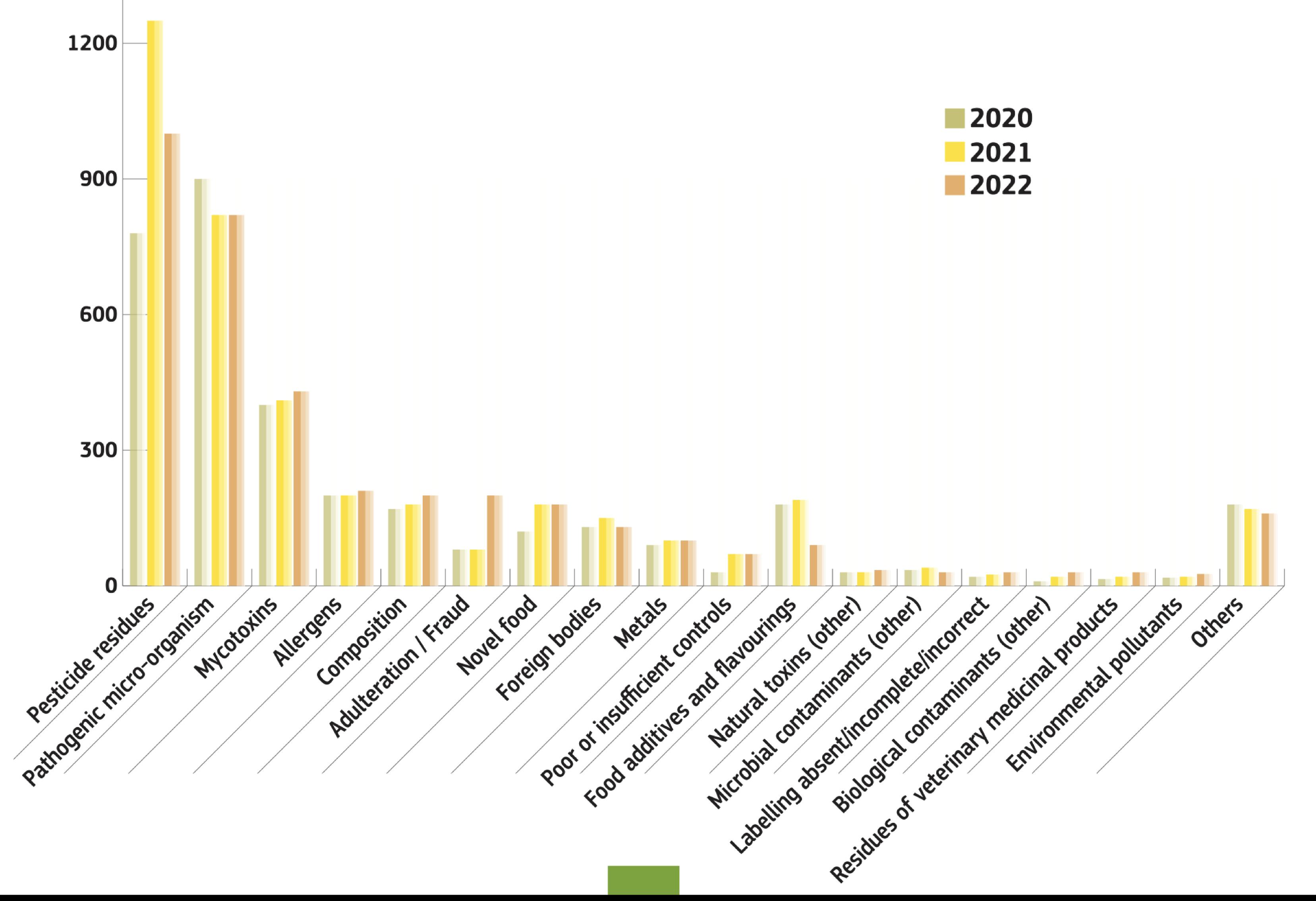


Poor Infrastructure and Logistics

Need for Improved Food Safety Regulations and Compliance



RASSF Notifications 2020 – 2022

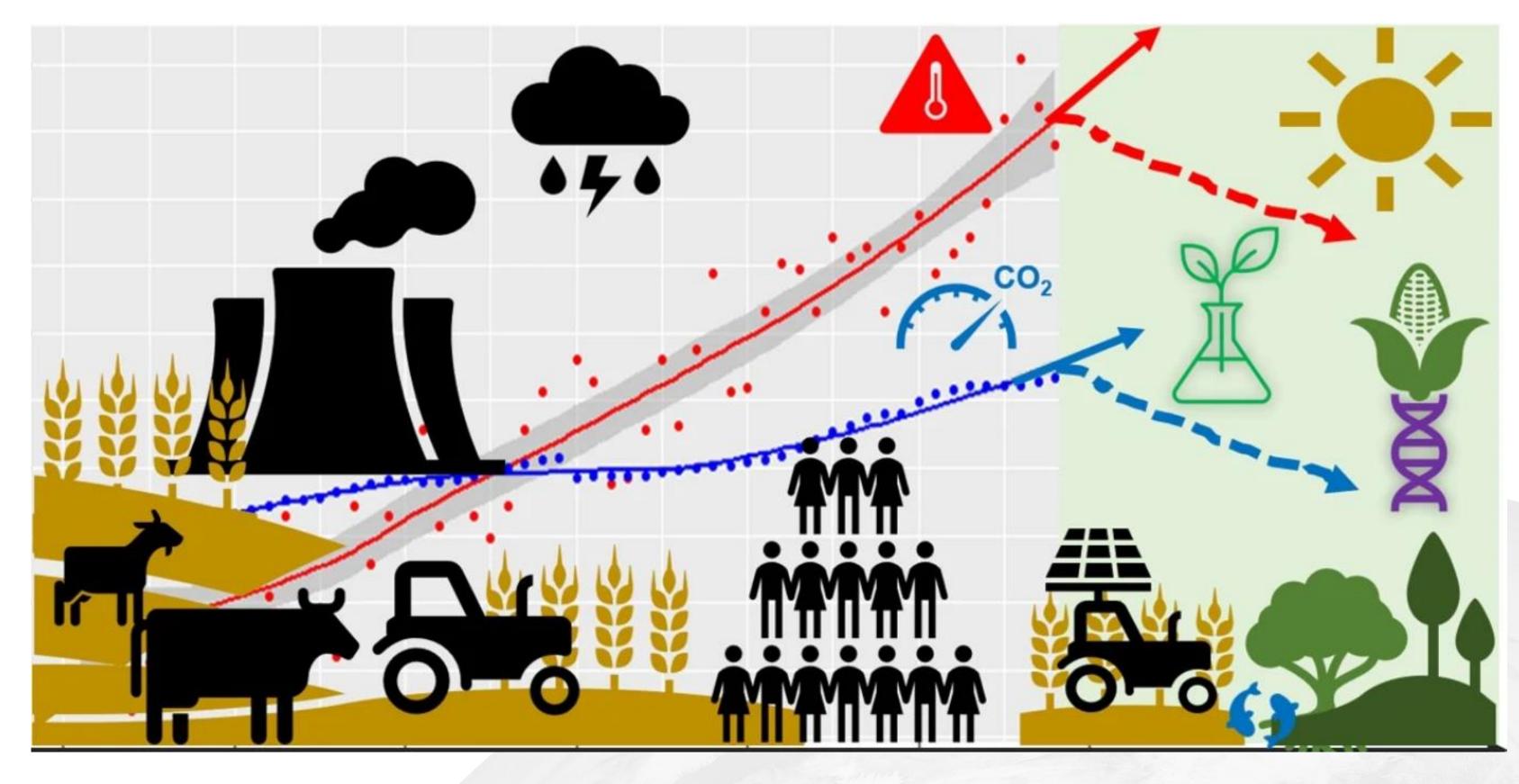






The hidden chemical burden of modern food systems

- Per- and polyfluoroalkyl substances (PFAS)
- Toxic heavy metals (e.g. Cadmium, Arsenic, Lead, Mercury)
- Alternaria toxins (AOH, AME, TeA) in tomato products, spices, cereals
- Tropane alkaloids (e.g. atropine, scopolamine)
- Micro and Nanoplastics















Harmonisation of food safety and quality regulations

Strengthening regulatory capacity and technical competence

Not only preparing for the present but also what the future will bring

