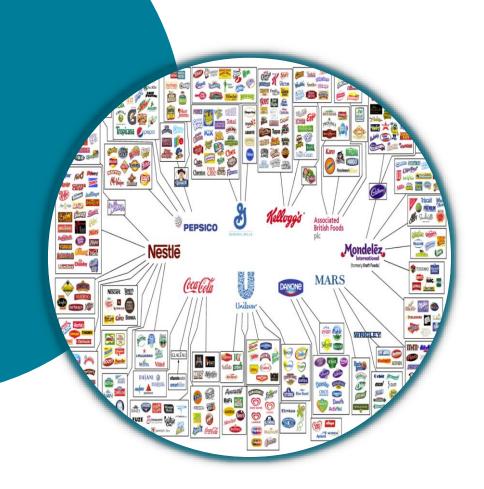
Understanding the global rise of ultraprocessed foods: the food systems and commercial determinants

Nutritional Determinants of Health: Recent Research Discoveries and Translation into Public Health Action

28th June 2023, College of France, Paris

Dr Phillip Baker

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Introduction

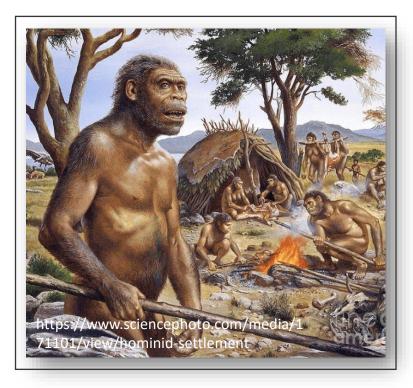
- This presentation explains the rise of ultraprocessed foods in human diets
- Adopts a whole of food systems approach, focusing on political, economic and commercial determinants of dietary change in historical context
- Why? Because understanding the nature of the problem can inform new modalities of dialogue, research and public health action

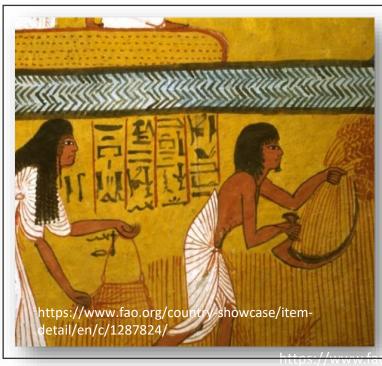


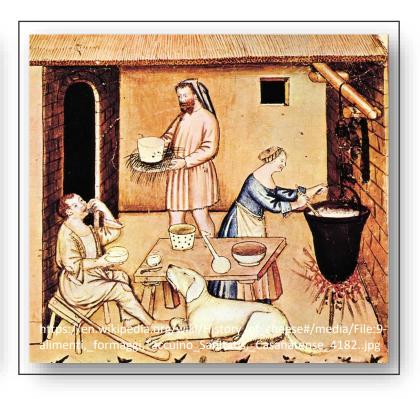
Shopfront, north Sumatra, Indonesia (2014).

Source: authors own

Food processing and human evolution

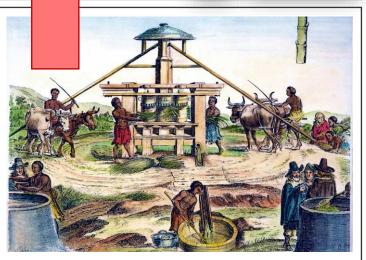






The origins of ultra-processed foods

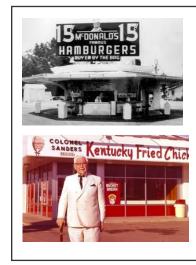












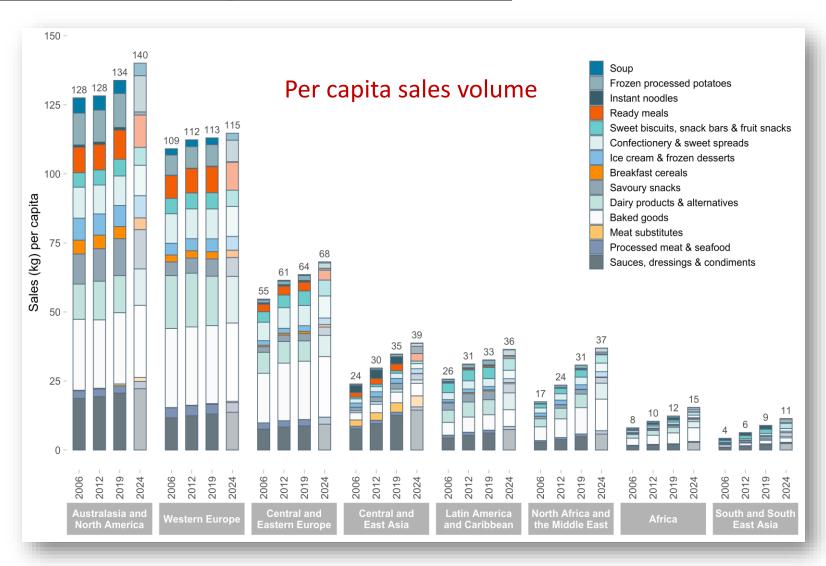


The rise of ultra-processed foods

Per capita UPF sales (kg) by region, 2006–2019 with projections to 2024

Baker, P., Machado, P., Santos, T., Sievert, K., Backholer, K., Hadjikakou, M., ... & Lawrence, M. (2020). Ultra-processed foods and the nutrition transition: Global, regional and national trends, food systems transformations and political economy drivers. *Obesity Reviews*, *21*(12), e13126.

Data from: Euromonitor Passport (2019)

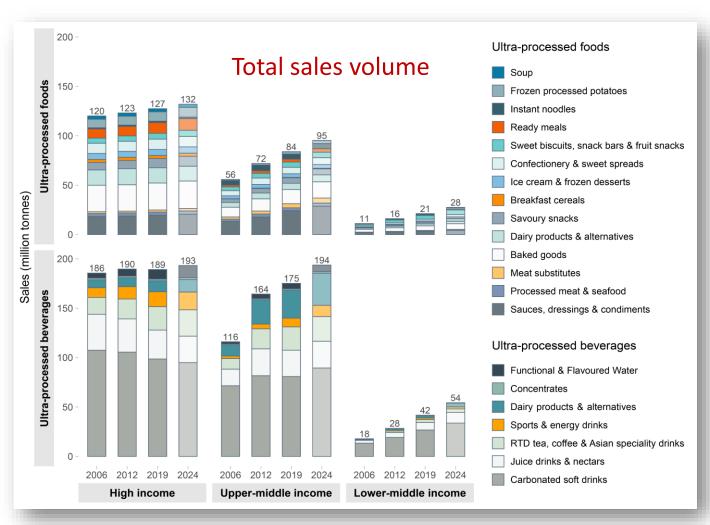


The rise of ultra-processed foods

Total UPF and UPB sales (millions tonnes) by country income, 2006–2019, with projections to 2024

Moodie, R., Bennett, E., Kwong, E. J. L., Santos...& Baker, P. (2021). Ultra-processed profits: the political economy of countering the global spread of ultra-processed foods-a synthesis review on the market and political practices of transnational food corporations. *International Journal of Health Policy and Management*, 10, 968-982.

Data from: Euromonitor Passport (2019)



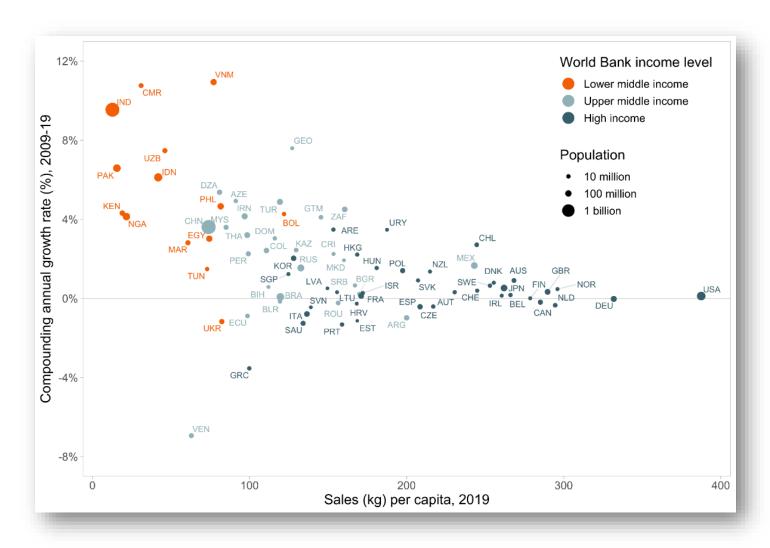
...although with wide variation between countries

Combined per capita UPF and UPB sales (kg) in 2019 vs. 2009–2019 annual growth rate (%)

Why do some countries transition to diets higher in UPFs (NOVA 4), but not others?

Baker, P., Machado, P., Santos, T., Sievert, K., Backholer, K., Hadjikakou, M., ... & Lawrence, M. (2020). Ultra-processed foods and the nutrition transition: Global, regional and national trends, food systems transformations and political economy drivers. *Obesity Reviews*, *21*(12), e13126.

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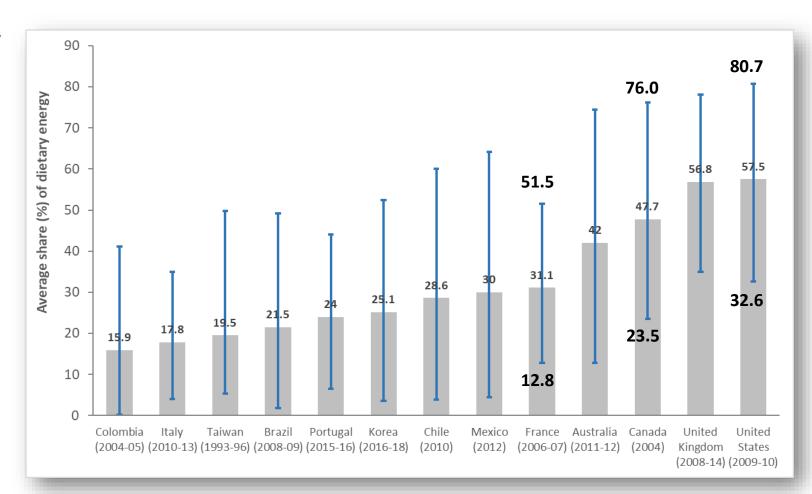
...and wide variation within countries

Average share (%) of total dietary energy from ultra-processed foods

Bars indicate lower- and upper-quartiles

Martini, D., Godos, J., Bonaccio, M., Vitaglione, P., & Grosso, G. (2021). Ultra-processed foods and nutritional dietary profile: a meta-analysis of nationally representative samples. *Nutrients*, 13(10), 3390.

Data from nationally representative samples using 24hour dietary recall





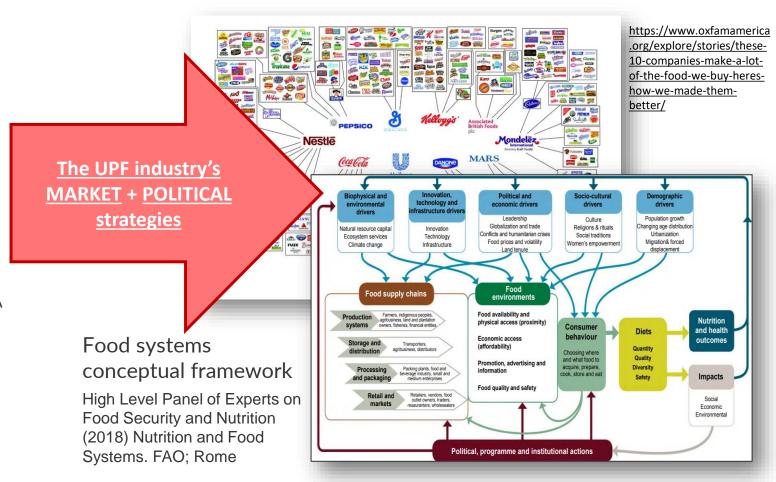
The rise of UPFs – a food systems explanation

The <u>purpose</u> of ultra-processed foods (NOVA 4):

"Processes and ingredients used to manufacture ultra-processed foods are designed to create highly profitable products (low-cost ingredients, long shelf-life, emphatic branding), convenient (ready-to-consume) hyper-palatable products liable to displace freshly prepared dishes and meals made from all other NOVA food groups"

Monteiro, C. A., Cannon, G., Lawrence, M., Costa Louzada, M. D., & Pereira Machado, P. (2019). Ultra-processed foods, diet quality, and health using the NOVA classification system. FAO; Rome.

'<u>Ultra-processed food systems</u>' are food systems aligned with this purpose:

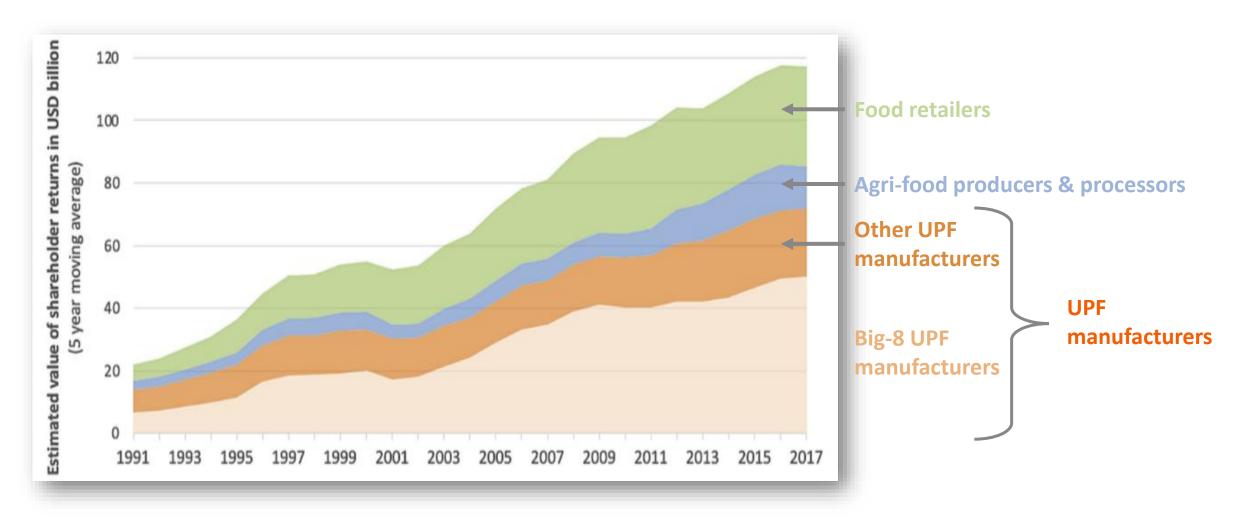


The growth imperative at the core of UPF systems

"Right now in the United States, people consume more soft drinks than any other liquid - including ordinary tap water. If we take full advantage of our opportunities, someday, not too many years into our second century, we will see the same wave catching on in market after market, until, eventually, the number one beverage on earth will [...] be soft drinks - our soft drinks"

Roberto Goizueta, Chairman, President and CEO of the Coca-Cola Company, 1980-1997; https://www.youtube.com/watch?v=tpF -BbaV1g

UPFs are designed for capital accumulation



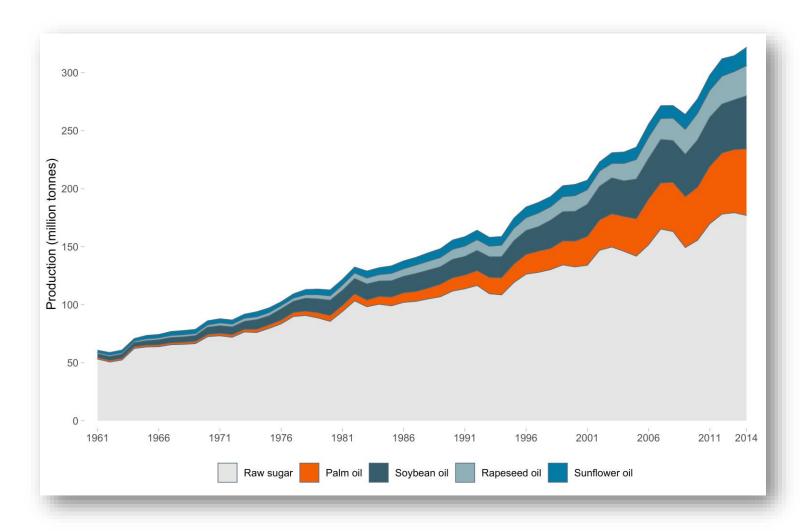
Wood, B., Williams, O., Baker, P., & Sacks, G. (2023). Behind the 'creative destruction' of human diets: An analysis of the structure and market dynamics of the ultra-processed food manufacturing industry and implications for public health. *Journal of Agrarian Change*.

Low-cost commodity ingredients

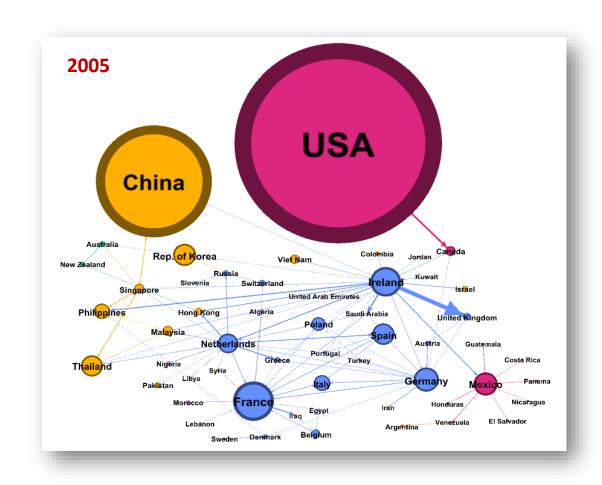
World production of raw sugar and major vegetable oil crops, 1961-2013

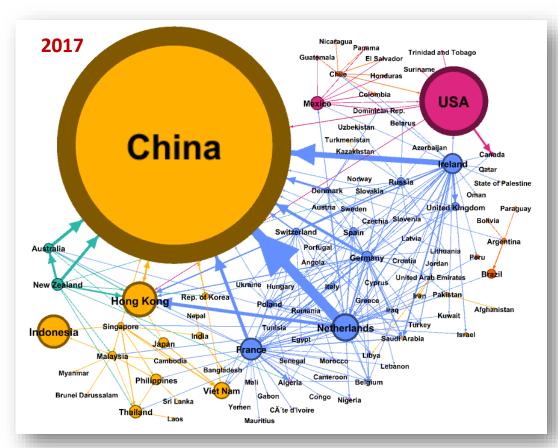
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Data from FAOSTAT



Global production networks

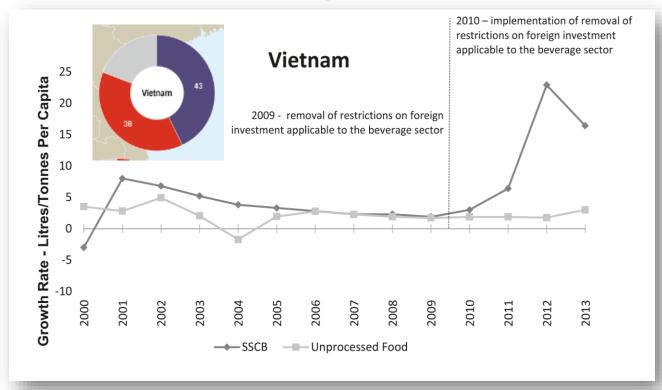




Baker, P., Russ, K., Kang, M., Santos, T. M., Neves, P. A., Smith, J., ... & McCoy, D. (2021). Globalization, first-foods systems transformations and corporate power: a synthesis of literature and data on the market and political practices of the transnational baby food industry. *Globalization and health*, 17(1), 1-35.

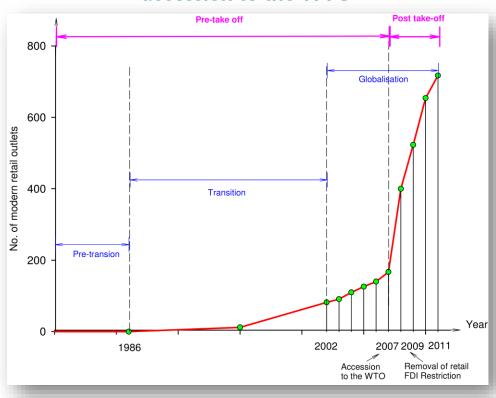
Trade and investment liberalization

Growth in SSB sales in Vietnam following accession to WTO vs unprocessed food



Schram A, Labonte R, Baker P, et al. (2015) The role of trade and investment liberalization in the sugar-sweetened carbonated beverages market: a natural experiment contrasting Vietnam and the Philippines. Globalization and Health, 11:41.

Supermarketisation in Vietnam following accession to the WTO



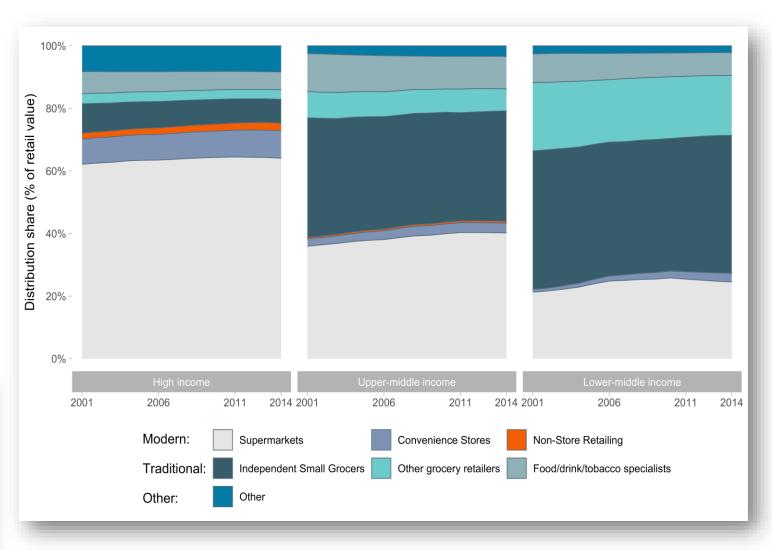
Nguyen H, et al. (2013) "The emerging food retail structure of Vietnam: Phases of expansion in a post-socialist environment", International Journal of Retail & Distribution Management, 41(8): 596-626

Supermarketisation and mass-distribution

Processed food distribution (calculated as % of total retail value) by modern versus traditional retail channels by country income, 2001–2014

Baker, P., Machado, P., Santos, T., Sievert, K., Backholer, K., Hadjikakou, M., ... & Lawrence, M. (2020). Ultra-processed foods and the nutrition transition: Global, regional and national trends, food systems transformations and political economy drivers. *Obesity Reviews*, *21*(12), e13126.





Reaching the 'base of the pyramid' - micro-distribution





The power of marketing

Strategy 1 Promotion



Strategy 2 Products & pricing



Strategy 3 Professionals







Cross-cutting

Corporate surveillance & science supports and amplifies this marketing

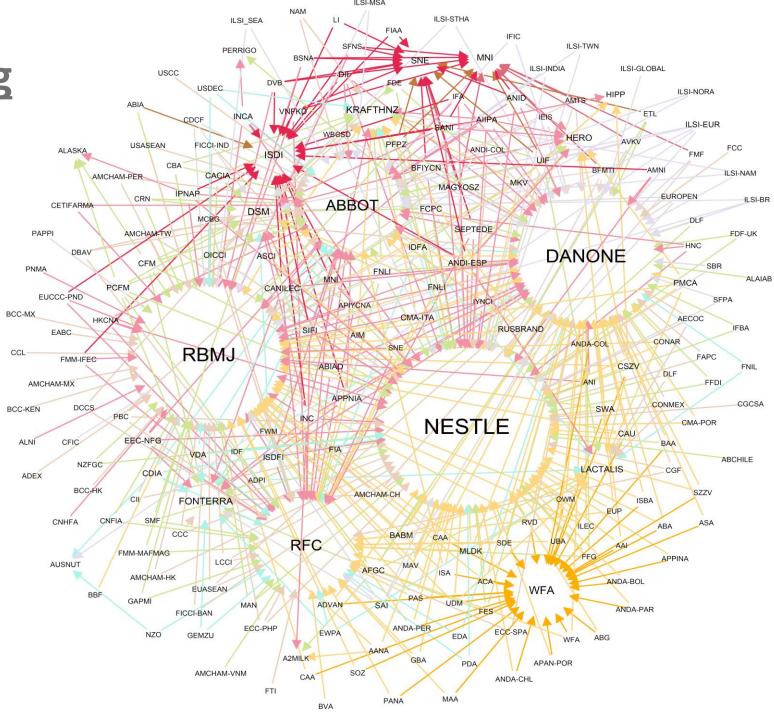
The power of public relations



The power of lobbying

A global influence network of lobby groups, trade associations, science communication platforms and multistakeholder initiatives

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Conclusions and discussion points

- Ultra-processed foods are a major feature of the nutrition transition, but with wide variation between countries and contexts
- Ultra-processed food systems perpetuate the rise of ultraprocessed foods (NOVA 4) in human diets, and the associated harms – but by no means universally
- The core driver of these systems is a corporate growth imperative, organized by logics of global capital accumulation in an increasingly financialised world economy
- Responding to this challenge requires a whole of food systems approach, to counter both the market AND political strategies of the UPF industry



Merci!

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