

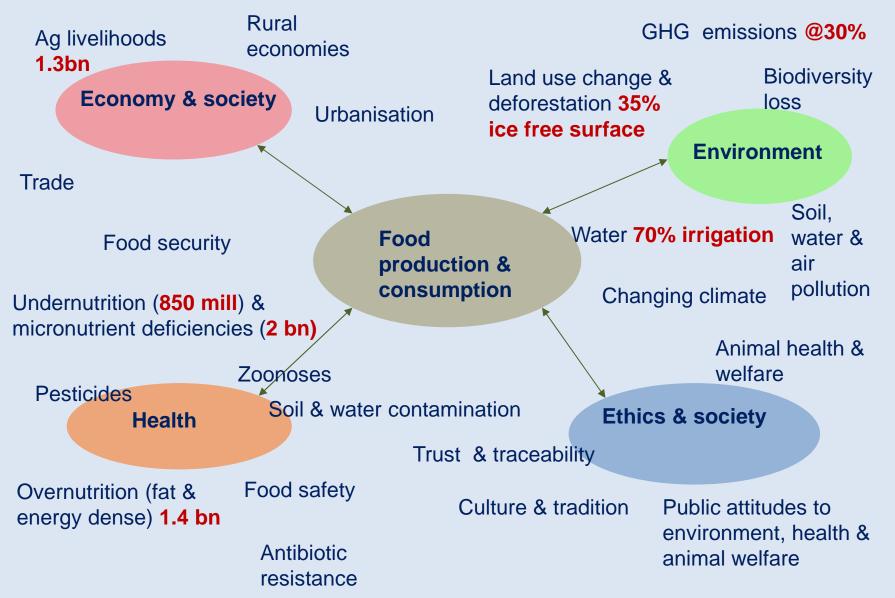
The food sustainability problem: How do we move forward?

And what does transparency have to do with it?

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Food sits at the heart of multiple concerns



The 'food sustainability' problem is well rehearsed...

- We have
 - Demand side pressures: Population growth,
 demographic changes, shifting diets... interacting with
 - Supply side pressures: resource scarcity,
 environmental degradation, climatic instability
- Within the context of insufficient, ineffective or perverse governance ... *leading to*
- Increased risk of climatic & other environmental change
 & food insecurity (insecurity of excess and insufficiency)
- Harming poor people most today and tomorrow

We all want a sustainable healthenhancing food system!

 We (nearly) all agree that we need to feed more people, better & more sustainably, while adapting to and mitigating environmental (including climatic) change

 But we have different perspectives on what ought to be done

Why? (and what's the relevance to transparency?)

What do we disagree about & why?

- We have different views on:
 - How the world works ie. what it is like
 - What is 'inevitable,' what is 'possible' & what is desirable ie.
 how far the status quo can & should be challenged
- We have different visions of what a good life looks like
 - What does a sustainable food system looks like?
 - What is progress?
- And we differ in the extent to which we 'lump' issues together or separate them out
- Values ethics and aesthetics underpin them all

This talk

- Describes 3 broad approaches * caricaturing, generalising & simplifying * to the food problem
 - Supply side challenge Efficiency
 - Demand side challenge: Demand restraint
 - Equity challenge: System transformation
- In relation to 3 areas:
 - GHG emissions
 - Human nutrition & food security
 - Animal welfare
- Identifies values underpinning these perspectives and the lack of transparency wrt these values
- Offers some concluding thoughts-in-progress

1. Efficiency perspective

- The problem: More food needed
- The solution: Produce it with less environmental impact
- Focus: Production producers
- Geographical perspective: Macro global markets
- Key stakeholders: Policy makers, ag producers & farming unions, food industry
- Dominates food security & mitigation discourse

Efficiency & GHG mitigation

Deliver more for less through technologies & techniques

Agriculture: sustainable intensification / land sparing

- Optimise inputs relative to outputs: nutrients, crop protection, water,
 breeding & feeding strategies for livestock
- Turn negative outputs into positives: eg. methane & AD
- Take up carbon: soil carbon sequestration; avoid land use change; offset fossil fuel use via biofuel production
- Post farm gate: decarbonisation
 - Energy efficiency, renewables, waste avoidance and mgt
- LCA thinking v influential highlights relative improvements ie.
 kg product/kg CO/2eq

Efficiency, food security & nutrition

- Food security = 'More food to meet demand'
 - Hunger a supply side problem.
 - Demand unchallengeable.
 - Solution: more grains, more livestock.
- Plus nutrition = Make 'inevitable' consumption trends healthier
 - Breed leaner animals
 - Product reformulations: less fat, fewer calories, enhanced nutrients (probiotics, added vitamins etc);
 - Biofortification & fortification (eg. HarvestPlus)
 - Labelling & information
- Environmental goals: more food for less impact
- Food security : meet demand
- Nutrition: make status quo healthier

Addressed separately

Efficiency & animal welfare

- Good welfare is possible in highly intensive systems
 - "You get good and bad welfare in any system"
 - "Do cows really 'like' fields? Don't anthropomorphise..."
- Focus on physical health & stockmanship
- Emphasises potential for ecological & health effectivenesses as well as economies of scale
- Framing of priorities: "hungry children" vs pig & chickens

Underlying moral values?

- Decoupling (of consumption from impact) is possible – thanks to human ingenuity: "green growth"
- Optimistic (we can innovate)... and pessimistic (human nature can't change)
- Better material quality of life for all & 'feed the world'
- Freedom = *freedom to consume*
- Approach: Innovation with informed choice

2. Demand restraint perspective

- Problem/challenge: Excessive consumption of high impact foods.
- Solution: More sustainable diets
- Focus: Consumption consumers.
- Geographical perspective: Developed / rich world origins and focus
- Stakeholders: Environmental & animal welfare organisations, vegetarian & vegan groups, animal rights activists

Dem. restraint & GHG mitigation

- Targets high impact meat & dairy products
- On SI: "If we ate a more sustainable diet we wouldn't need to intensify production/expand agri land"
 - le. an SI/ efficiency of diets approach

 LCA thinking highlights absolute impacts of livestock products compared with plants

Dem. restraint, food security & nutrition

Food security:

- Contraction & convergence: "there is enough food to feed everyone"
- Highlights obesity problems: "more fat people than thin people"
- Meat 'wasteful' wrt protein & land use 'feeding grains to livestock undermines food security'

• Nutrition:

- Emphasises negative qualities of animal products (eg saturated fat, calories) (fat rich people focus)
- Underplays **positives:** iron, calcium, B vitamins, zinc, protein
- Livestock farming = 'source of all evil" (lumps issues)
- ie. nexus of health, ethics (eg. animal welfare), environment

Demand restraint & animal welfare

- Critique of CAFOs/ intensive systems 'commoditisation' & 'industrialisation'
- Animal welfare: emphasises natural living 'freedom to express natural behaviour',
- Animal rights: often ambivalent about rearing animals for food at all
- "Cows belong in fields!"

Underlying moral values?

- "Limits to growth"
- "Greed" narrative; insatiability of human desire
- Freedom = freedom from consumption 'Live better by consuming less'
- Production side approaches an (immoral?)
 "techno-fix"
- Approach: regulation needed to change context of consumption

3. Food system transformation perspective

- Problem/challenge: not production, not consumption but inequitable power structures.
- Solution: More equitable access to food & means of production
- Focus: Interactions among food system actors
- Geographical focus: Developing plus "alternative" developed country – generally rural
- Stakeholders: Wide spectrum (alternative food mvt through to elements of FAO). Strong representation from international devt and civil society
- How dominant? Vocal.. but impact on practice?

Sys. transformation & GHG mitigation

- Focus on socio-economic systems & institutions; on smallholders & (often) developing countries
- Appropriate technologies & multifunctionality of land & livelihoods
- Adaptation more of a focus than mitigation
- Environmental sustainability often assumed to follow
 → ie. outcome of more equitable systems
- LCA? Hasn't yet engaged properly with envtl metrics

Food security as an *outcome*

- ...ie. Not just *supply* but *other dimensions*:
 - Can you afford it? Livelihoods, institutions, markets, empowerment
 - What kind of food is it? Nutrition
 - What are the conditions within which you are consuming? eg.
 disease, sanitation, cooking facilities
 - Do you have stable access? Temporal dimension
- Nutrition part of food security:
 - Not 'more' or 'less meat' but...
 - dietary diversity for micronutrients (meat, veg, legumes, local foods)...
 - and the transformative role of empowered production

Syst trans & animal welfare

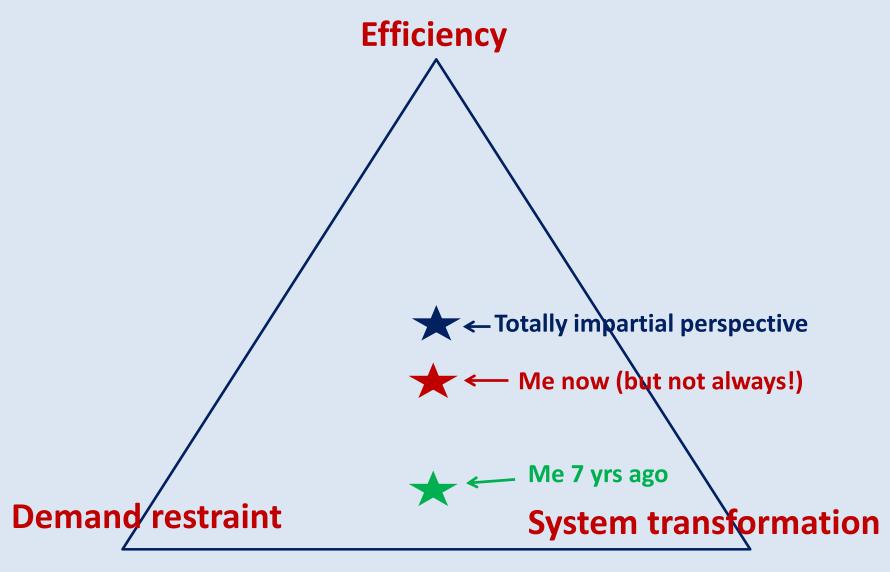
- "Well-cared for livestock are good for farmers" ie.
 One Health approach
- Often developing country focused → 'Intensification' from a very low base = win-win-wins for animal welfare, productivity & environmental efficiency (tipping points?)
- 'Industrialisation' critiqued as fostering unequal power structures rather than AW focus per se

Underlying moral values?

- Equity & justice
- "Small is beautiful" (Agrarian? Romantic?)
- Not "green growth" or "limits to growth" but "capacity building"
- Not freedom to consume... or freedom from consumption but freedom to self determine
- Approach: Fairer terms of production & trade

We all have our biases

(although they change by day/context/time)



Conclusions about food

- No one approach will do the job. Each on its own is too simplistic
- Efficiency perspective is overly dominant in policy & practice
- We need to draw upon all three perspectives and balance them better
- Need to recognise that food sustainability is not (just) a "scientific" or technical problem...
- ...Values matter they influence the choice of metrics, assumptions re baselines, counterfactuals, visions etc
- Not necessarily 'unscientific' but extra -scientific

On being transparent about transparency...

A man that looks on glasse,
On it may stay his eye;
Or if he pleaseth, through it passe,

And then the heav'n espie.

George Herbert

We need to be **transparent** about the values we bring **Thoughts on how??**

- Clear up factual accuracies: some evidence is simply wrong
- Identify real uncertainties in evidence & attitudes to uncertainties: how important is the uncertainty to my assessment of the truth?
- Consider assumptions re. baselines, framing conditions, counterfactuals what's starting point, what's the alternative?
- Consider how different values give rise to different ranking of priorities: A ranks economic development over animal welfare but B ranks animals over economics)
- Consider how diff values generate differing convictions as to what constitutes, eg. good nutrition or welfare: ie. my definition of good welfare is different from yours
- Identify commonalities of value among individuals who may argue for different solutions & inconsistencies within individuals highlight the simplistic nature of a 'three perspectives' approach... kick away ladder...

"Empathy occurs when we suspend our single-minded focus of attention, and instead adopt a double-minded focus of attention... to identify what someone else is thinking or feeling, and to respond to their thoughts and feelings with an appropriate emotion."

Baron-Cohen S (2012). Zero Degrees of Empathy

Thank you

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