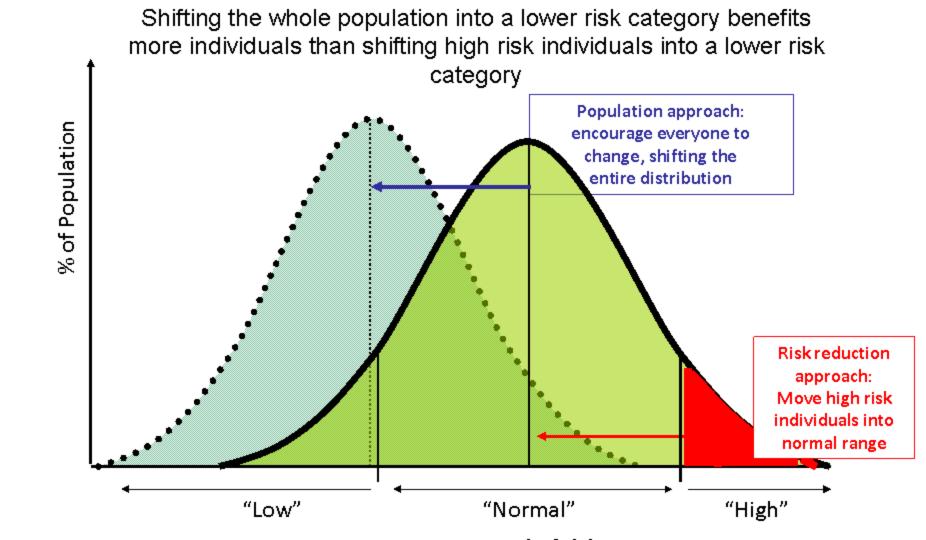


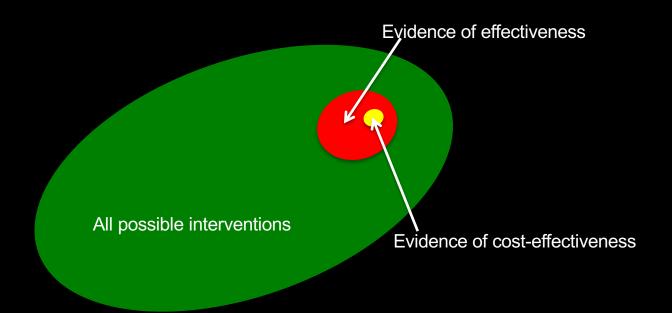
This presentation is done in total independence from the event organisers

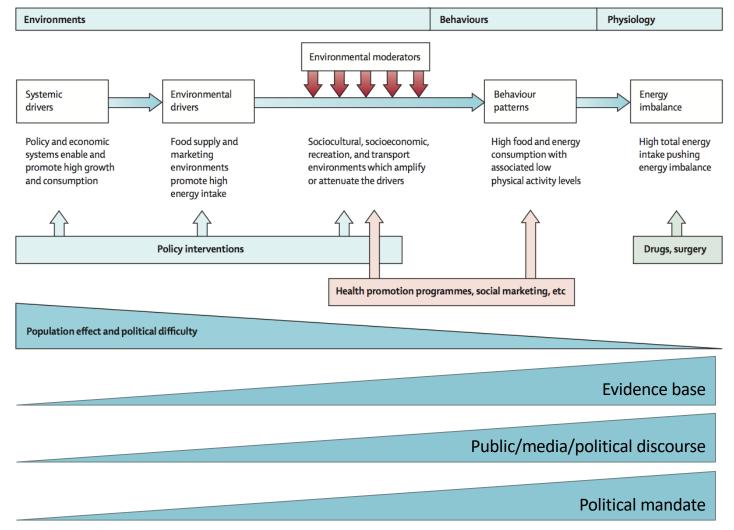
I have no conflict of interest to declare regarding the current presentation

Evidence

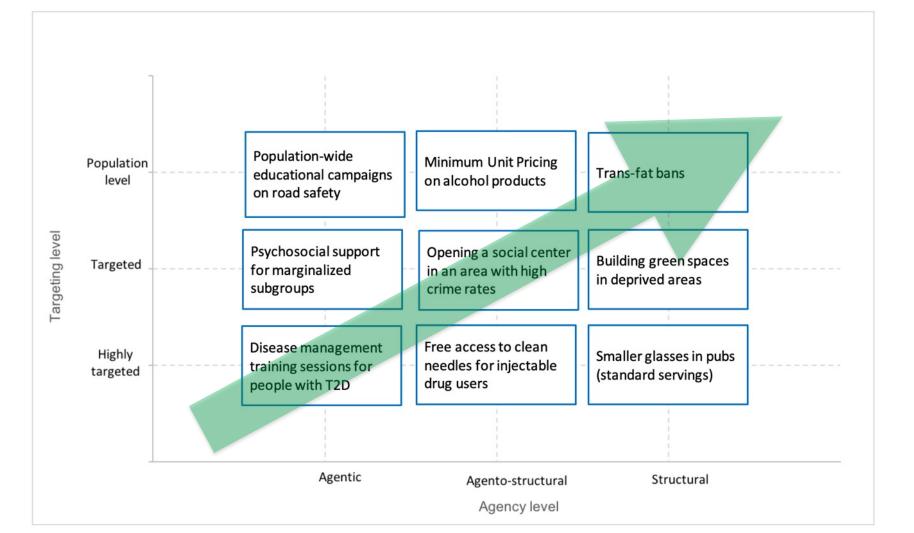


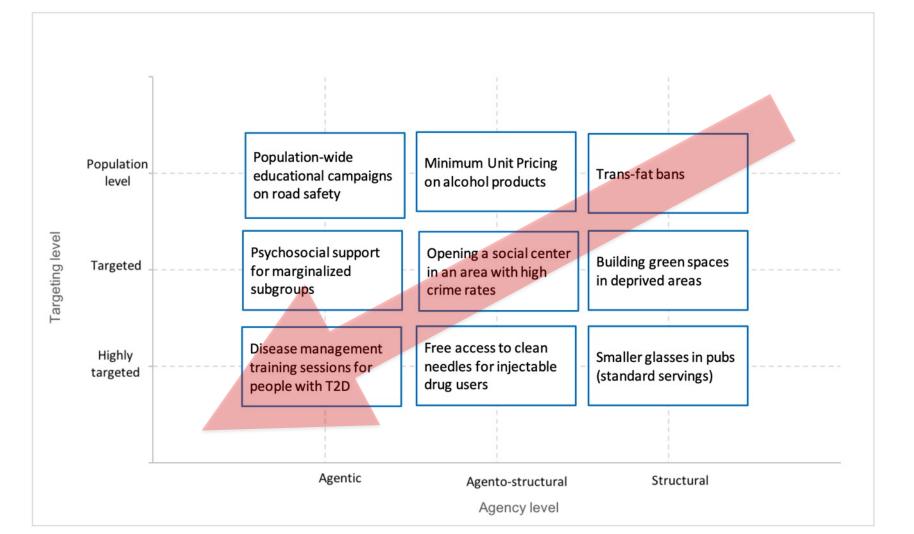
The dangerous olive of evidence...





Source: Swinburn et al, Lancet 2011





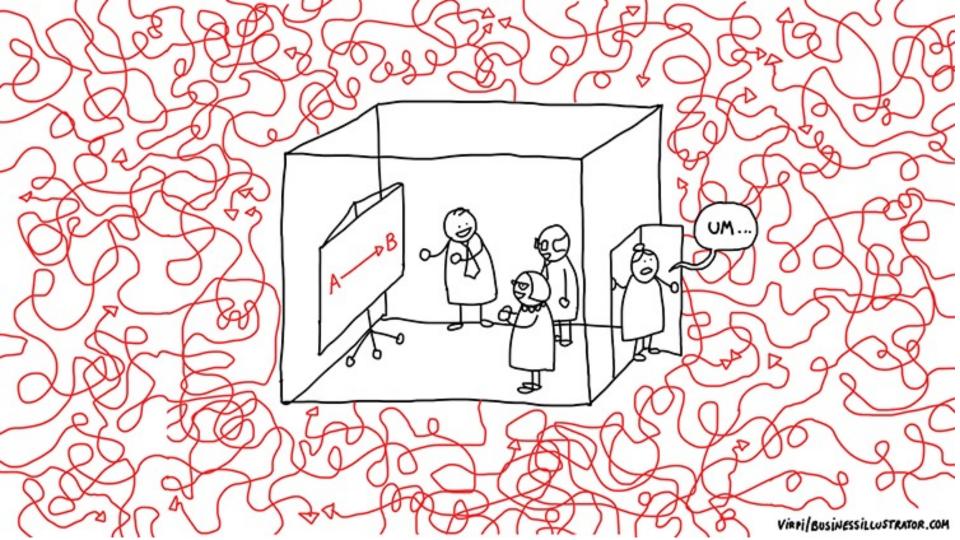
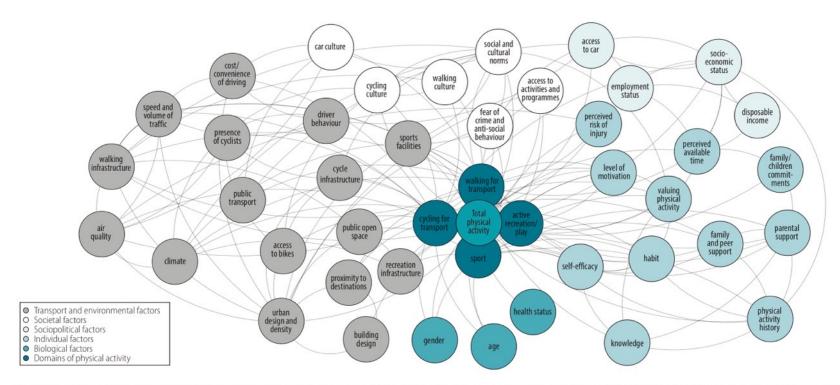
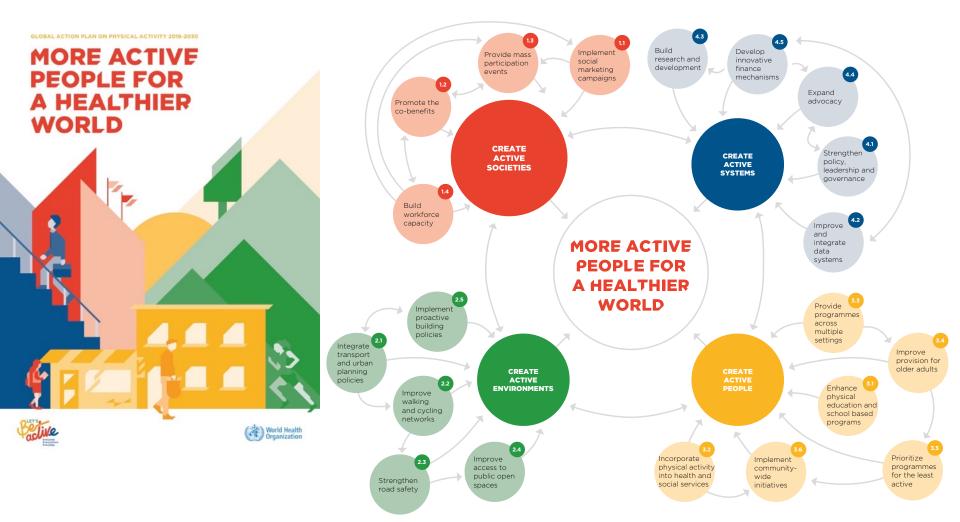


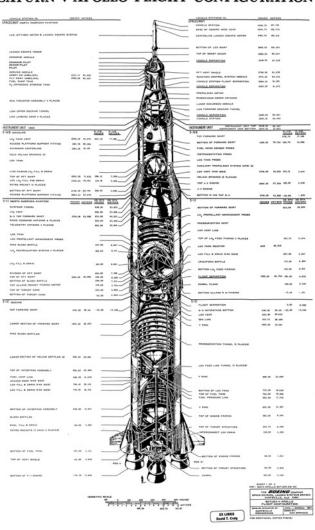
Fig. 1. An initial physical activity system map

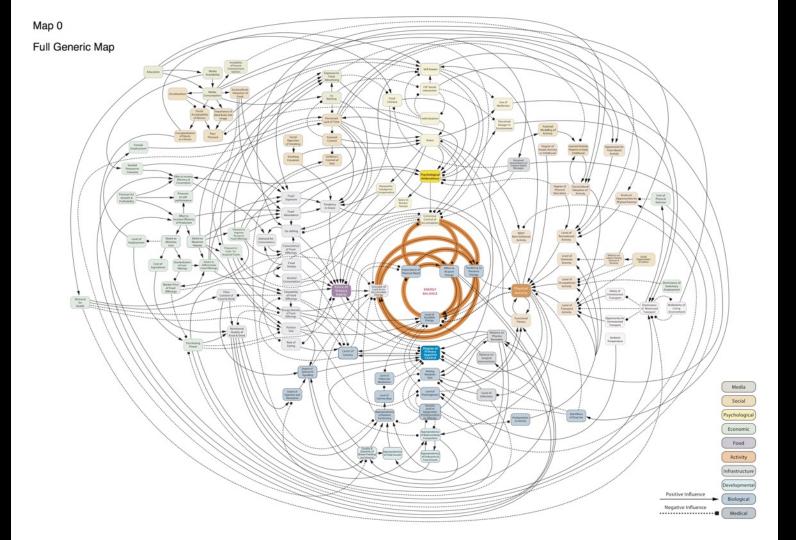


Note: This map provides an illustration of some of the main drivers of physical activity and inactivity, and the relations between them, based on evidence from systematic reviews and expert opinion. The map is a tool to illustrate the breadth of factors driving physical activity, and does not purport to provide a definitive description of all possible ways of conceptualizing the physical activity system.



SATURN V APOLLO FLIGHT CONFIGURATION





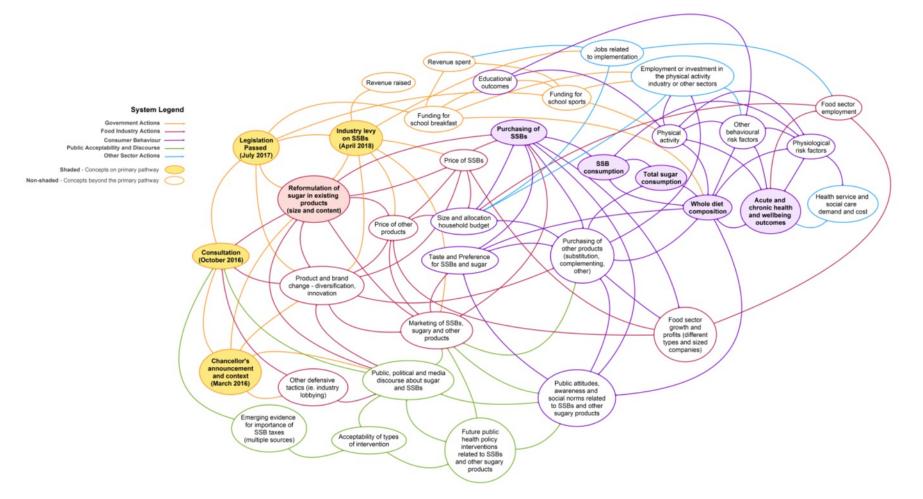
Sugar ---> Increased ---> Reduced ---> Reduced ---> Reduced ---> Reduced ---> obesity

Political Undermine Price Advertising Divert lobbying the restructuring Marketing attention PR offensive evidence Reformulation **Promotions** Media Reduced Reduced ---> **Increased** Sugar Reduced tax sales consumption obesity price Manipulate Minimise Minimise Minimise the discourse Obfuscate

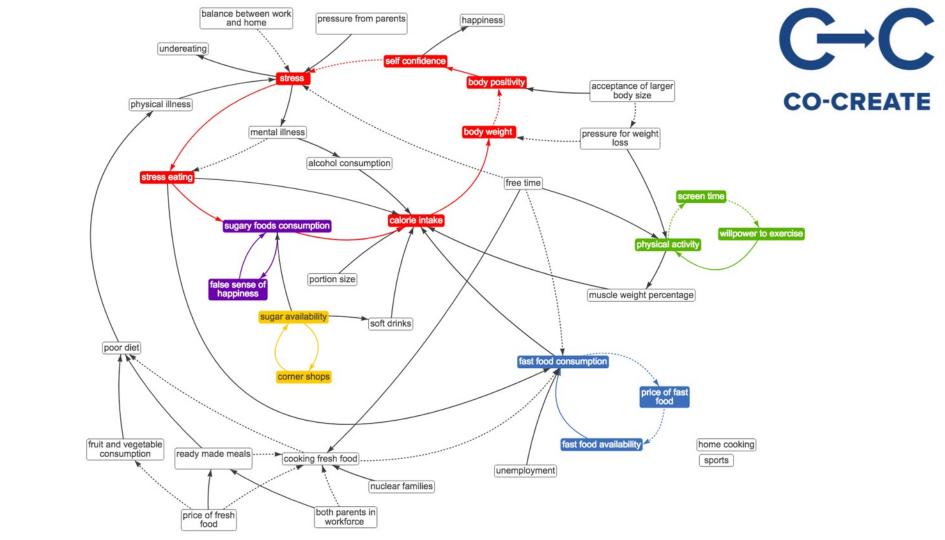
impact

magnitude

changes



Systems thinking and systems science



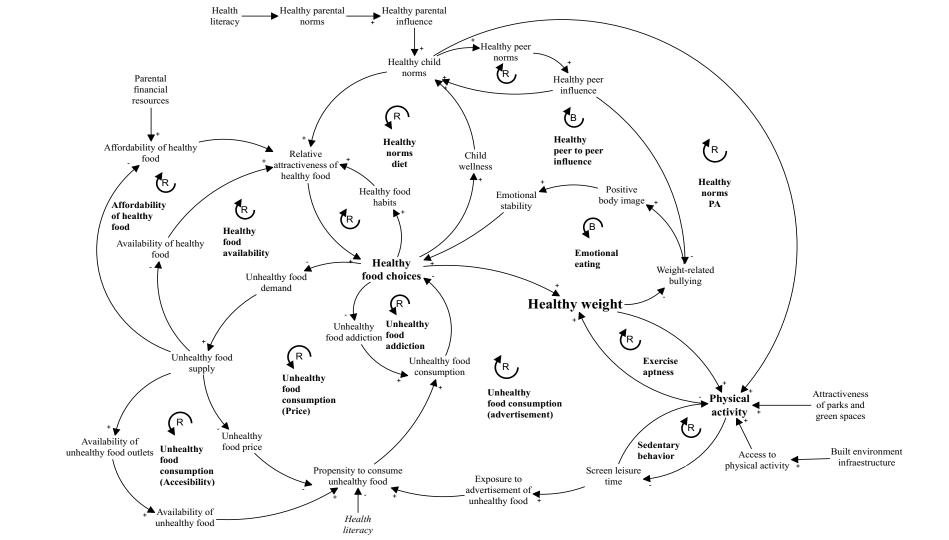
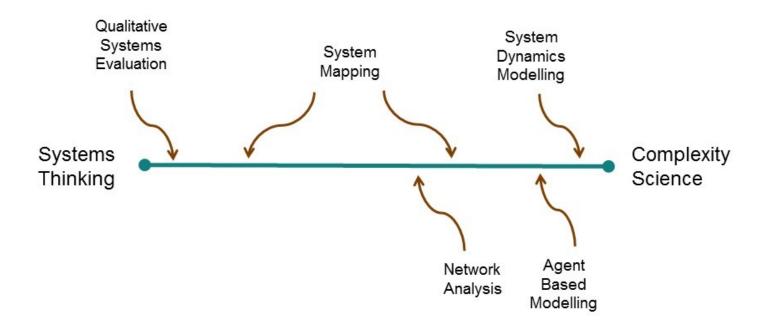


Figure 2: Typology of approaches to Public Health Complex Systems Evaluation

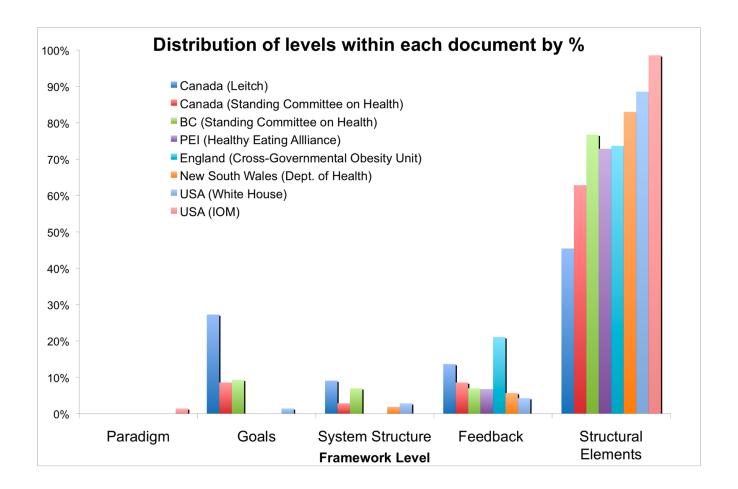


Time



Levers for change

The Intervention Level Framework	
Intervention Level	Definition
Paradigm	System's deepest held beliefs. System goals, rules and structure arise out of the paradigm
Goals	The aim/priorities of the system
System structure	All of the elements that make up the system as a whole including the subsystems, actors and interconnections between these elements
Feedback & Delays	Loops that cause an action by one element of the system to in turn affect the flows into or out of that same element
Structural elements	Subsystems, actors and the physical elements of the system



Johnston et al. American Journal of Public Health | July 2014, Vol 104, No. 7





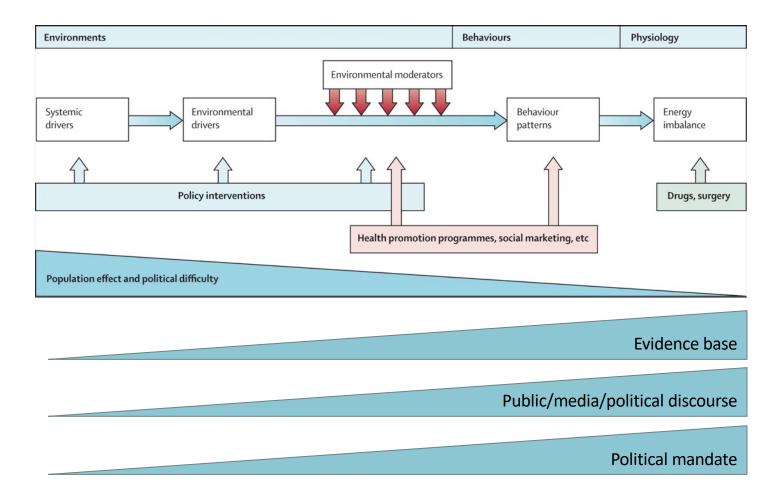
Well-being of **Future Generations** (Wales) Act 2015

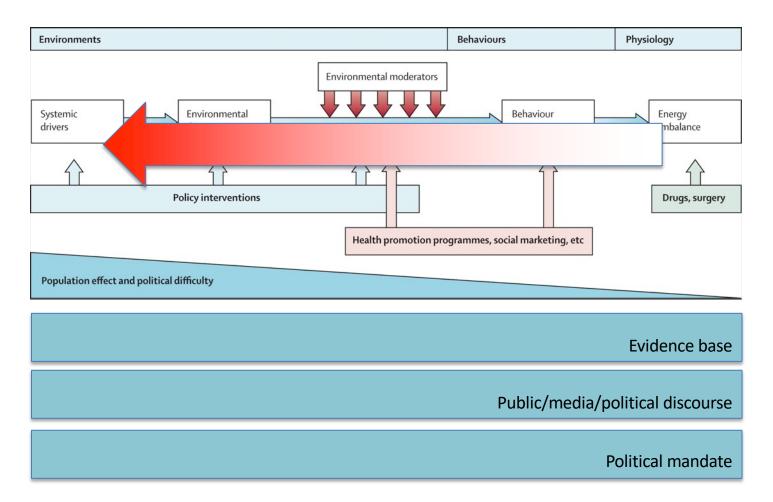
















Conclusions

- The public health evidence base is structurally biased towards short term impacts of tightly defined, highly agentic, individual level interventions
- This prioritises responses skewed towards proximal risk factors, and risks widening inequalities
- Population level health improvement involves actions at all levels, of which the individual level is just one
- Framing matters eg sugar sweetened drinks taxes internalize harmful externalities, they don't punish 'sin'
- Time dimension is important: 20 year vision, 5 year strategy, 1 year plan
- Systems approaches can help us to understand how interventions influence systems, and how those systems adapt in response