

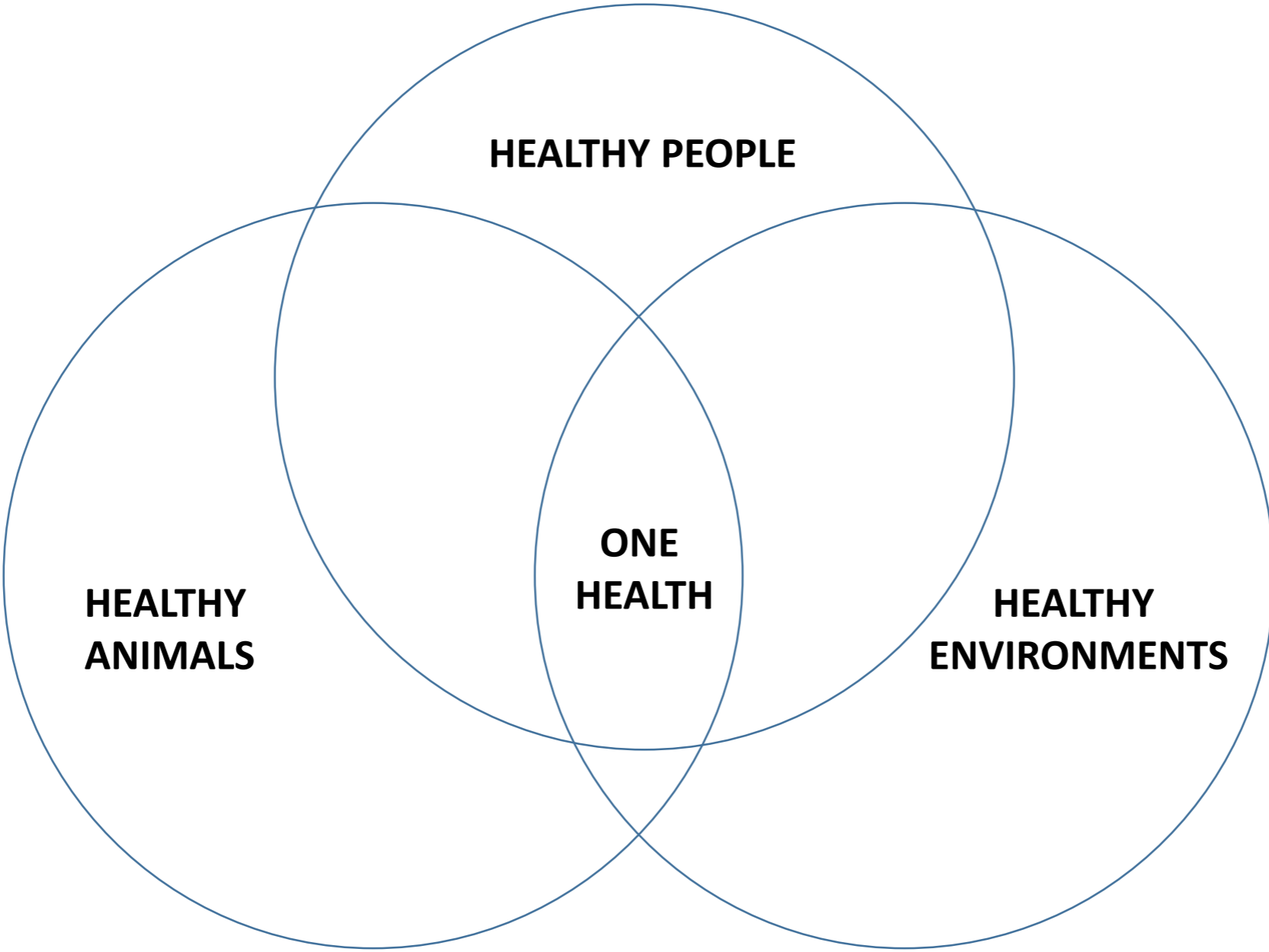
▶ **One Health, complex systems and community engagement**

Jeff Foote

Risk, Response & Social Systems

ESR

One Health



LOCAL

REGIONAL

GLOBAL

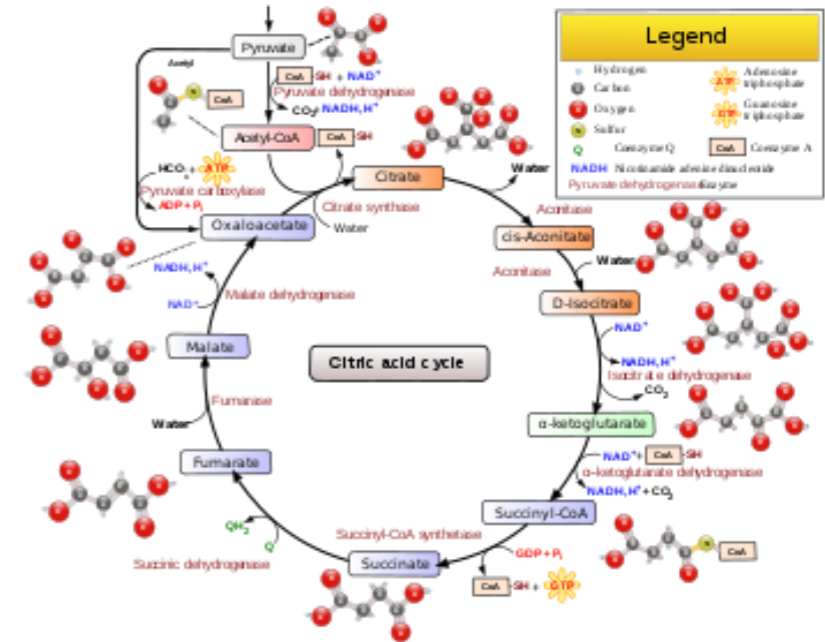
Wicked problems

- Inter-related issues cutting across institutional silos and multiple scales
- Multiple government agencies, businesses, non-governmental organisations, communities and individuals with 'stake'
- Multiple ways of framing the problem, different knowledge sets and competing values across economic, environmental, social and cultural criteria
- Conflict, power relations and vested interest
- Uncertainty about the possible effects of action

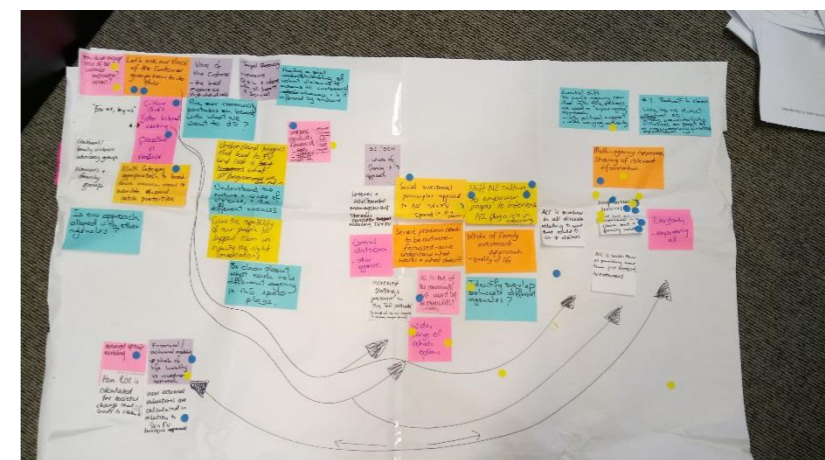
Thinking about systems (systems science)

OR

Using systems to think? (systems thinking)



https://en.wikipedia.org/wiki/Citric_acid_cycle



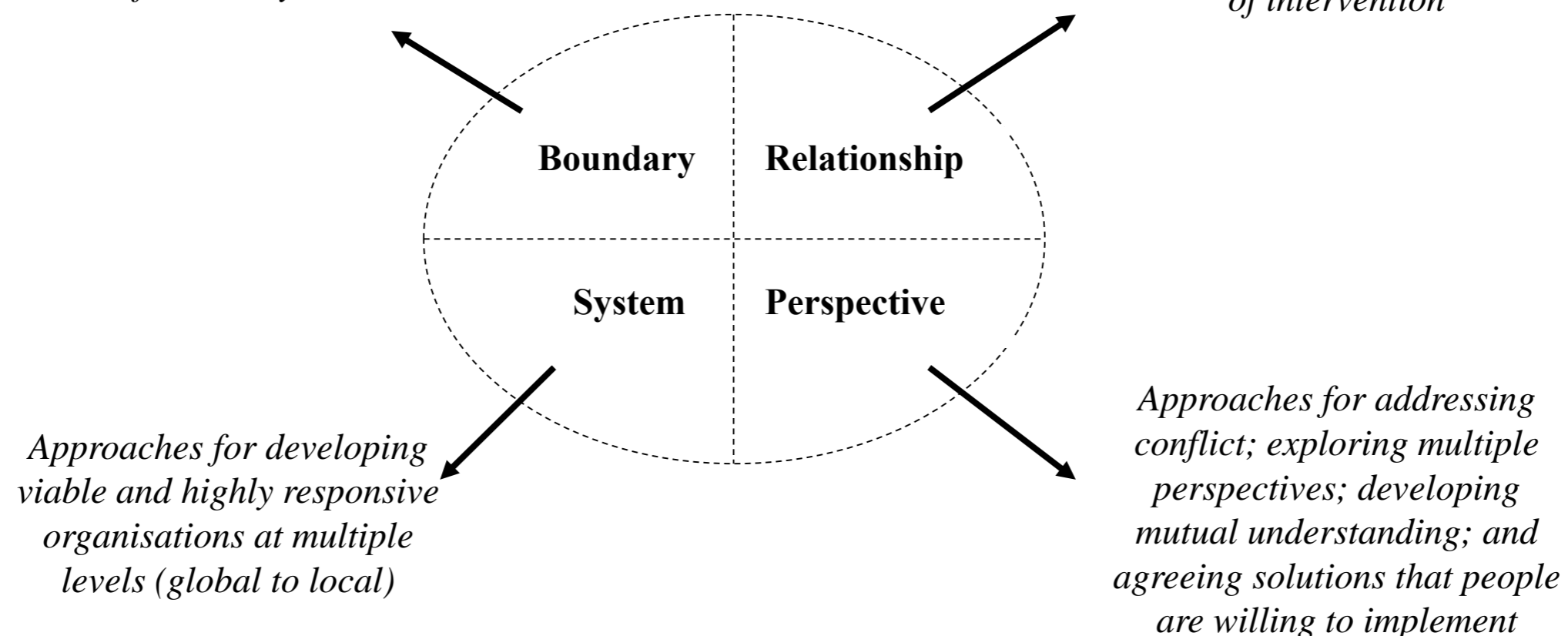
What is systems thinking?

Inter-relationships	<ul style="list-style-type: none">• What is the nature of the inter-relationships within a situation?• What are the patterns that emerge from those processes, with what consequences and for whom?
Boundaries	<ul style="list-style-type: none">• How is a situation being framed?• What is explained within the system and what is exogenous to the system?
Perspectives	<ul style="list-style-type: none">• What are the different ways in which this situation can be understood?• How are these different understandings going to affect the way in which people judge the success of an endeavour?

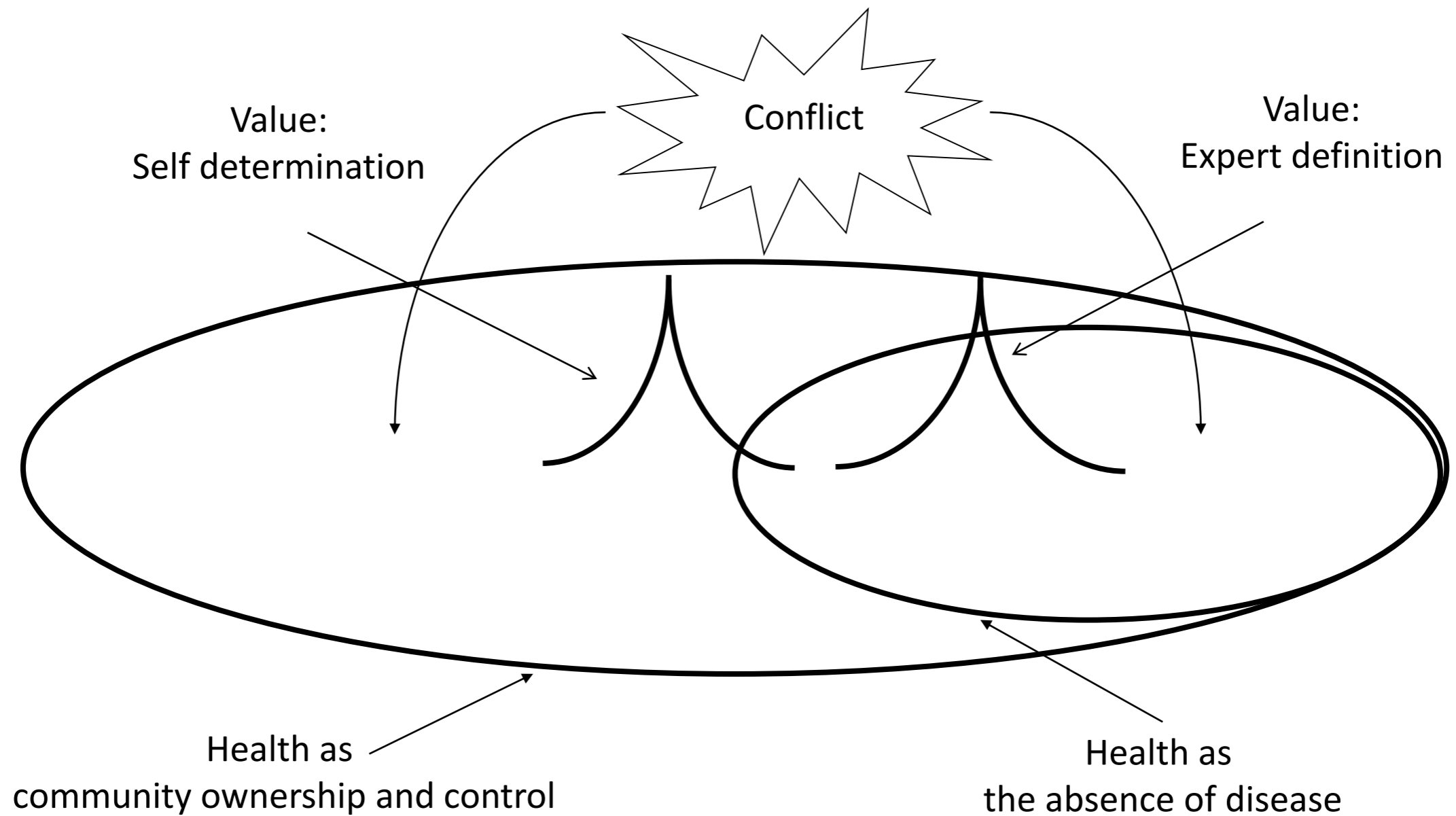
Systems approaches

Approaches for exploring value and boundary judgments about what should be included in or excluded from analysis

Approaches for understanding complex causality; feedback; vicious and virtuous circles; and the possible consequences of intervention



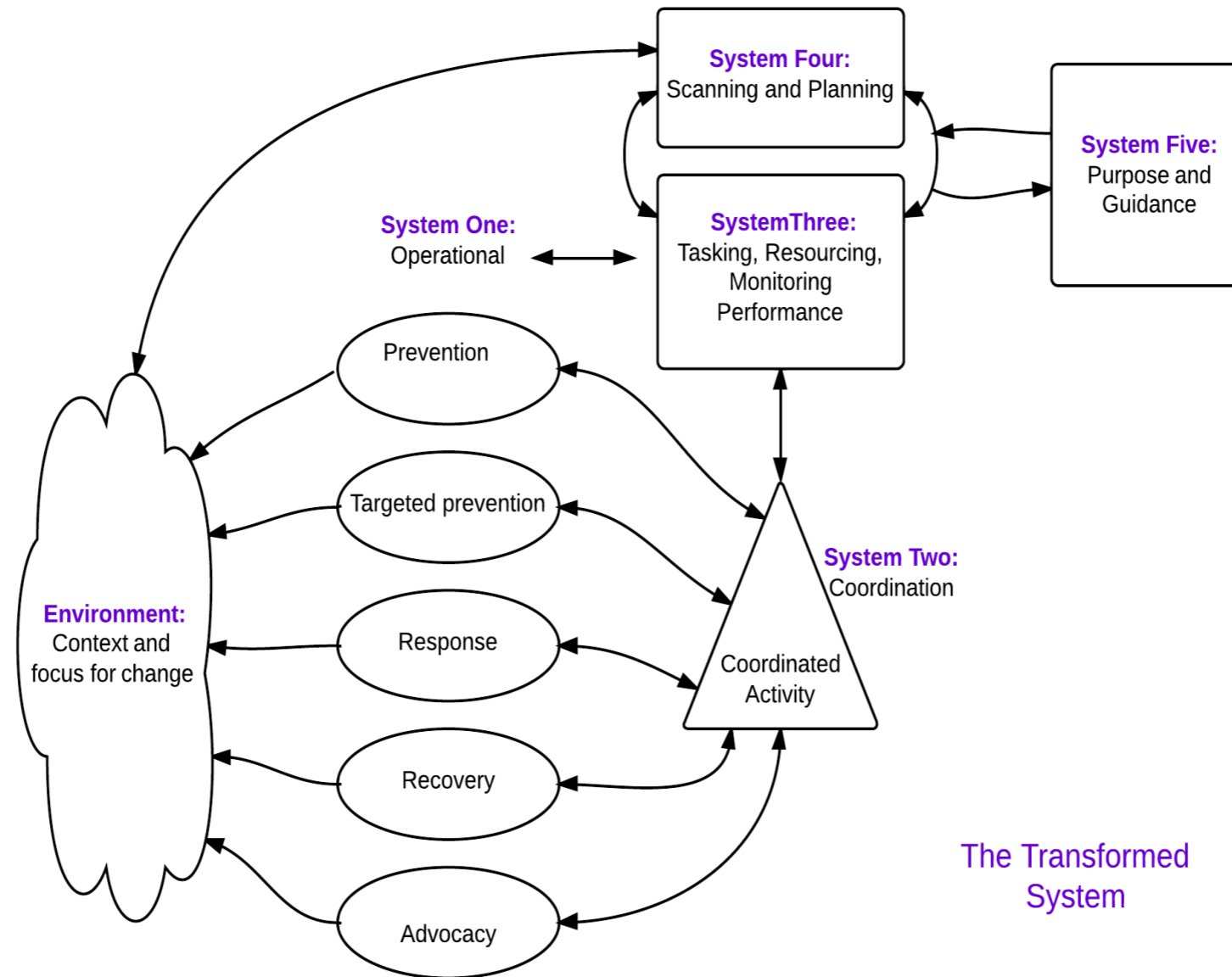
Dealing with boundaries



Working with multiple perspectives



Designing viable organisations



The Transformed System

Why is engagement important?

- ▶ Boundaries are inevitable
 - ▶ Comprehensive analysis is impossible
 - ▶ Value and boundary judgments are closed related
 - ▶ How far ought we push out boundaries?

- ▶ Elements of a systemic intervention (Midgley, 2000)
 - ▶ Explore stakeholder values and boundaries for analysis
 - ▶ Challenge marginalisation
 - ▶ Draw on a wide range of systems methodologies

An example

- ▶ Ministry of Health's Drinking Water Assistance Programme
 - ▶ Hokianga hapū participation
- ▶ Health
 - ▶ Absence of disease?
 - ▶ Community ownership and control?
- ▶ Outcome evaluation
 - ▶ Kaupapa Māori processes
 - ▶ Most significant change and participatory video
 - ▶ Action planning for drinking water supply sustainability

https://www.youtube.com/watch?v=kEO49SmP_BU

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