Connecting the Dots

Systems Thinking & the State of the World

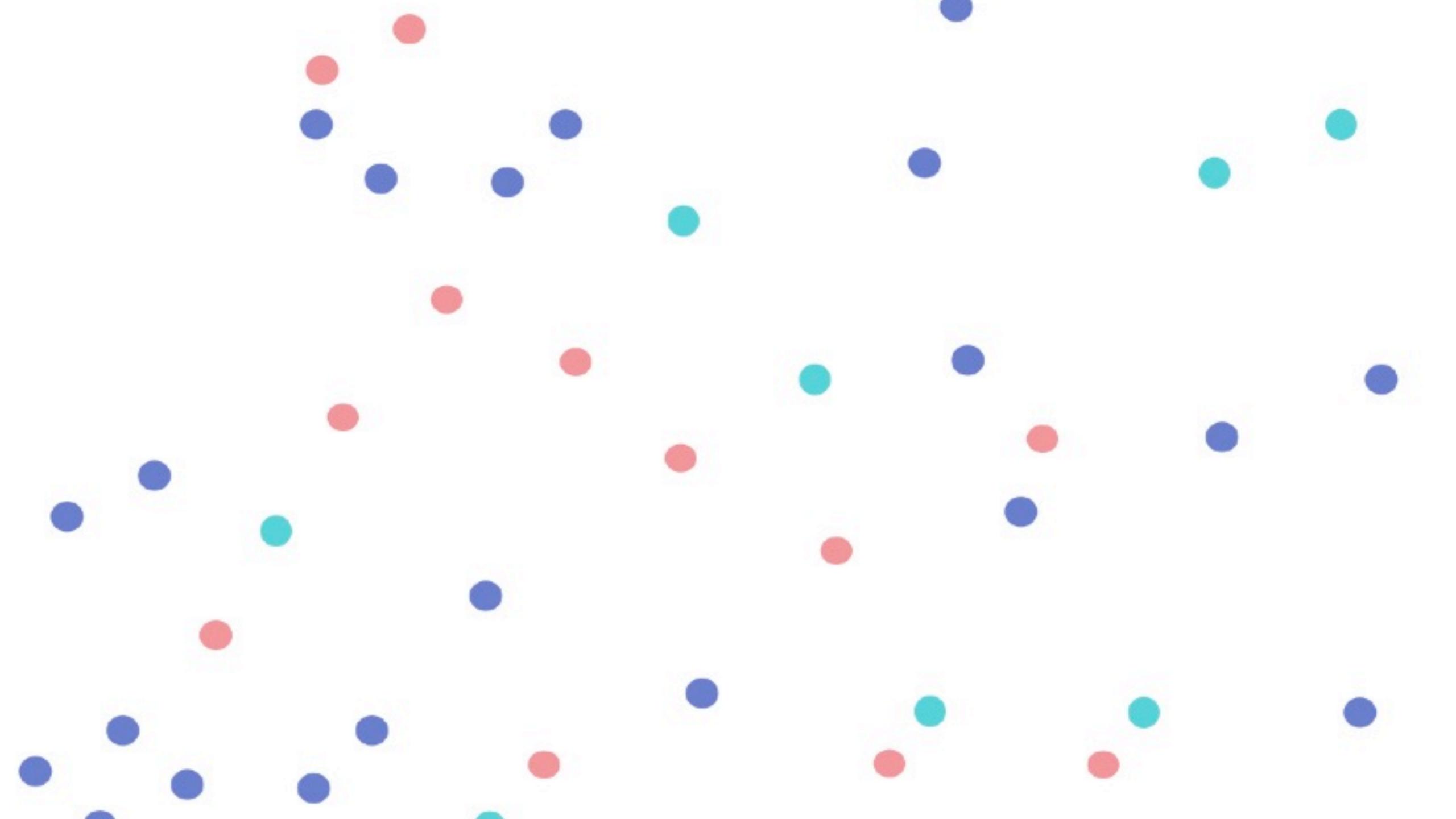
Listen to Manzini

Take notes underway

Discussion on this following the video

https://www.youtube.com/watch?v=bhm05JodBQ8

Min ca 26,5-31



Listen to Capra

Take notes underway

Discussion on this following the video

https://www.youtube.com/watch?v=TFERd65UCh8

The cognitive foundation to move on

The great challenge of our time - build and nurture sustainable communities and societies, designed in such a way that our activities do not interfere with nature's inherent ability to sustain life.

- 1) Understand the principles of organization that nature's ecosystems have evolved to sustain the web of life; we need to become, as it were, ecologically literate.
- 2) Understand the basic principles of ecology interdependence, the cyclical nature of ecological processes, flexibility, diversity, etc. properties of all living systems.

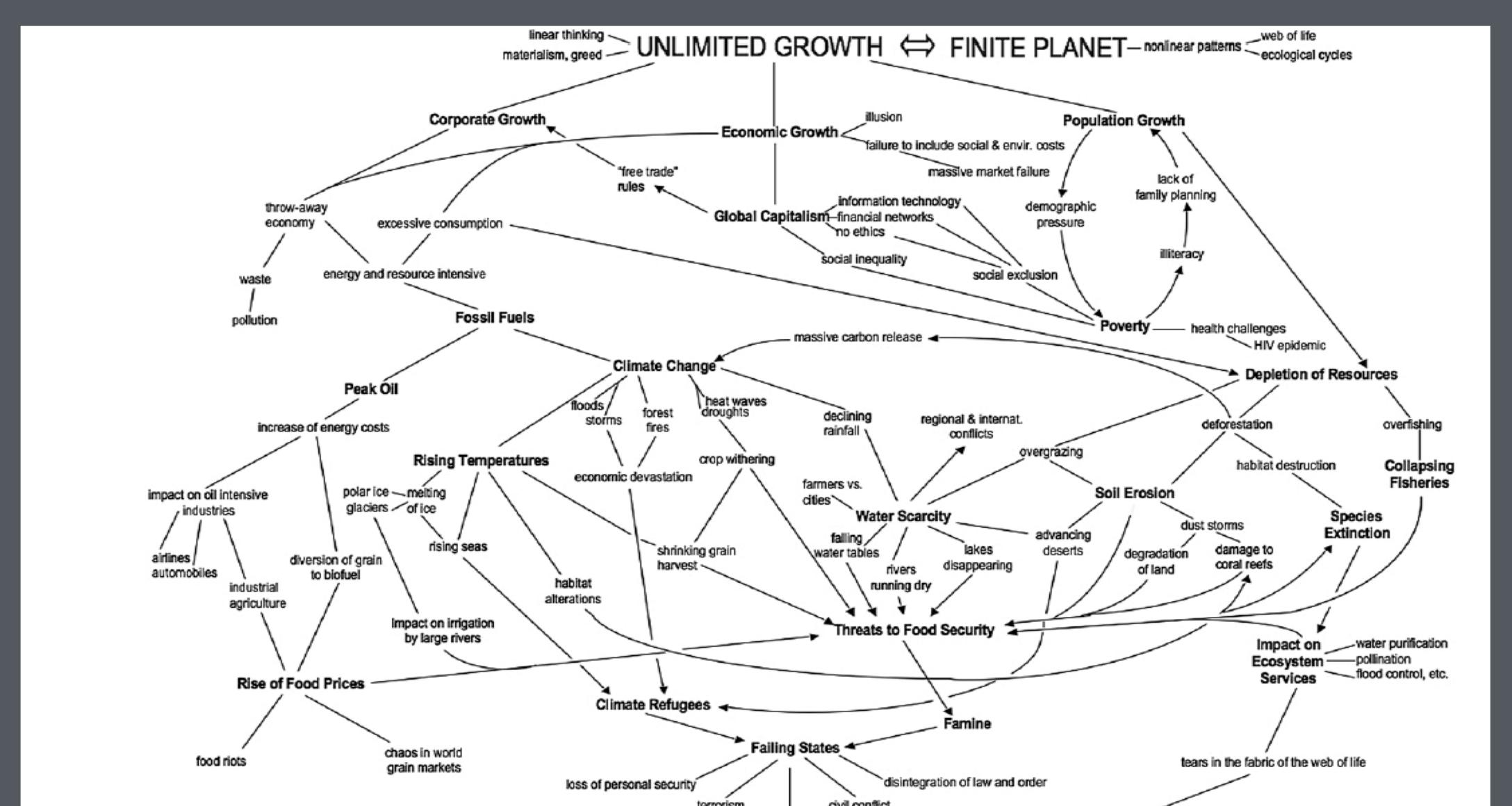
Interconnectedness of problems

All problems facets of one crasis – that of perception

Solving problems of our time require a radical shift in our perceptions, our thinking, our values.

They are systemic problems and require systemic solutions and only viable solutions are those that are ecologically sustainable.

A conceptual map to saving the world



Qualitative and quantitative growth

Unlimited growth vs. multifaceted organic growth known from ecosystems where some parts of the system grow, others decline, releasing and recycling their components, which become resources for new growth.

The End of Growth (Heinberg, 2011) - the world is now colliding with three barriers to continuing economic expansion:

- 1) The depletion of important natural resources, importantly fossil fuels, the situation also known as "peak oil."
- 2) The proliferation of harmful environmental impacts arising from the extraction and use of resources
- 3) The financial barrier

Transition from quantitative to qualitative paradigm

The concept of qualitative economic growth will be a crucial tool in this task.

"Beyond GDP" European initiative you heard about from Klara

Globalization, global capitalizm, and casino finance

Transition from materialism to community

Change also at the individual level. Cultural conditioning on materialism would need to be overcome, likely by finding satisfaction in human relationships and community.

The values of conservation, cooperation, and community are promoted today by many grass-roots movements and organizations in the new global civil society. Among them, the feminist movement and the ecology movement advocate the most profound value shifts, the former through a redefinition of gender relationships, the latter through a redefinition of the relationship between humans and nature.

The ecological impact

Case of South Korea and Taiwan, pg. 385

Listen to Terry

And once more, Terry:

https://www.youtube.com/watch?v=fDmBXxRqsW8

Systems Thinking

...is an approach that encourages us to a take a more holistic or systemic view of how different factors relate to one another within a whole.

Encourages us to move away from a focus on individual events or simplistic cause and effect scenarios to focus on the bigger picture

Allows us to see multiple components in relationship at once

Can indicate inputs we may have missed

May make it easier to understand delays – or escalations - in the system

Can suggest points of leverage for interventions

The Systems Thinking Iceberg

Events

What just happened?

Patterns/Trends

What's happened over time?

Underlying Structures

How do the parts relate? What's influenced the trend?

Mental Models

What assumptions and beliefs are keeping the system in place?

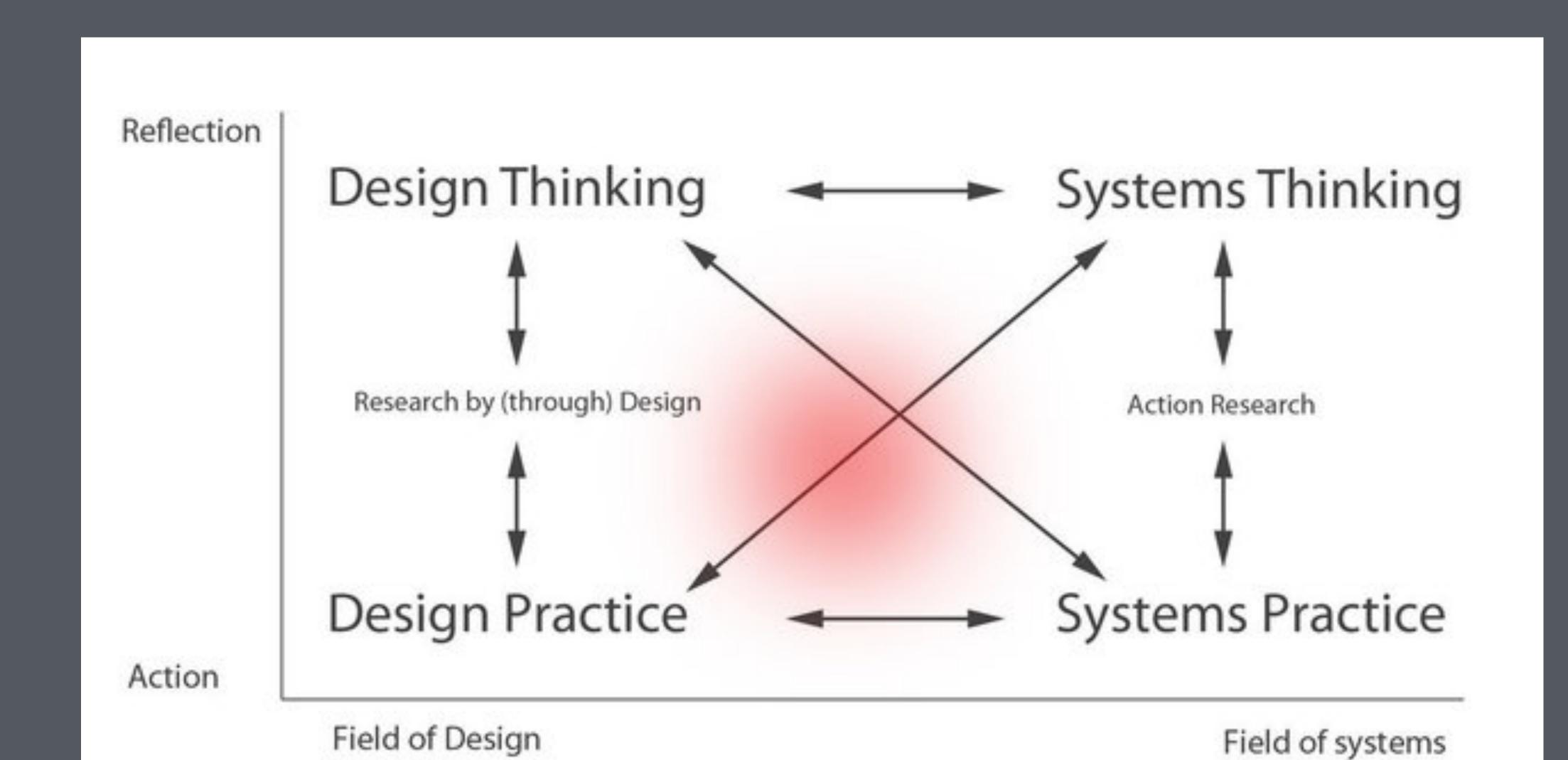
Exercise

- Start at the top of the iceberg, by describing a current challenge that you're encountering
- Work down the iceberg asking each of the questions in turn to undercover the mental models/values supporting the status quo

See also:

https://socialinsilico.wordpress.com/2017/11/27/reading-for-leading-14-exploring-the-iceberg/

Systems and Design



How do we adopt a systems perspective?

Three shifts

Big Picture

Personal Responsi bility

Systems Structure Donella
Meadows:
"Thinking in
Systems"
Leverage points

Culture change

...is often a "wicked" problem:

- Requires addressing the whole system
- Likely involves addressing multiple underlying structural elements
- Requires more than one intervention –
 strategies that target a single issue are unlikely
 to be effective alone
- Has multiple interconnected elements
- One size doesn't fit all need to understand the contexts in which we're working



The global civil society

Values and membership in the human community



What is the future?

