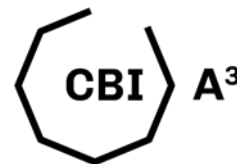


# Opportunity Cards

*Delving deeper into earth problem spaces*

Using 2 x systems thinking frameworks

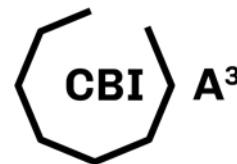


# Purpose:

Create a foundation for new ideas that intervene and improve water systems from your opportunity cards  
Take an “existing solution” you have identified.

Expand system understanding of parts and their relationships

Consider scale, hierarchy and consequence

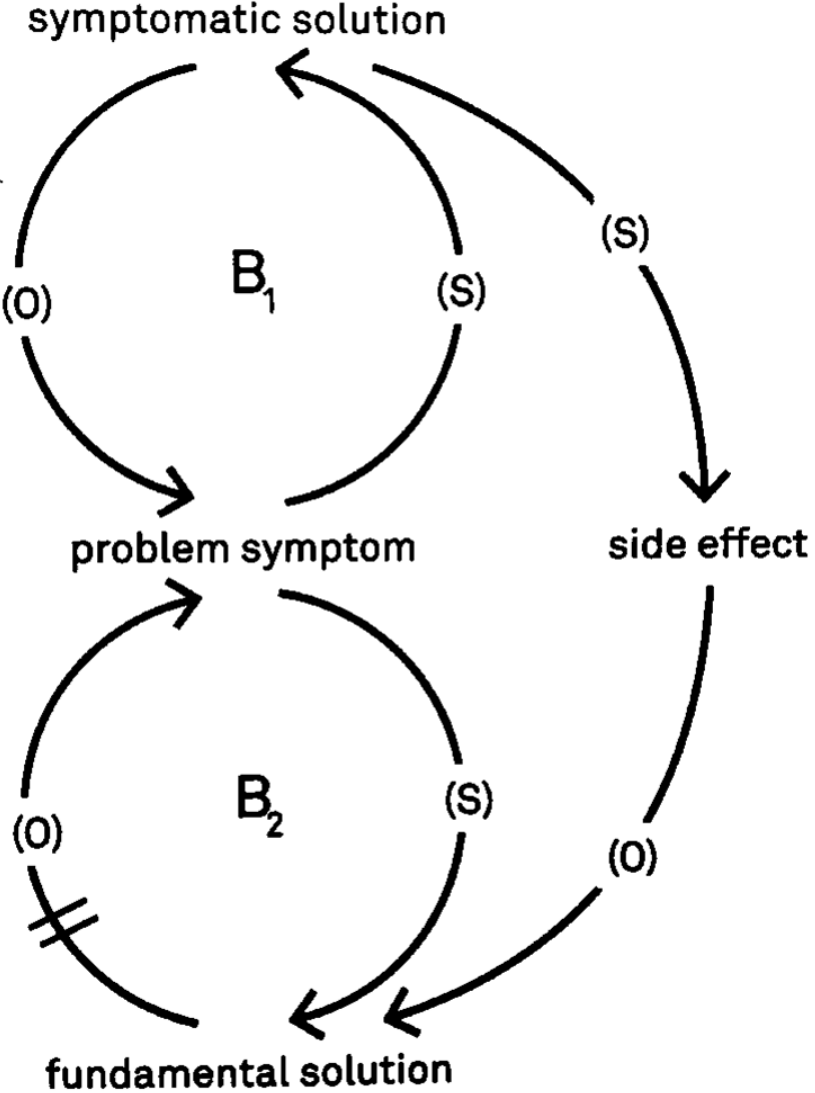
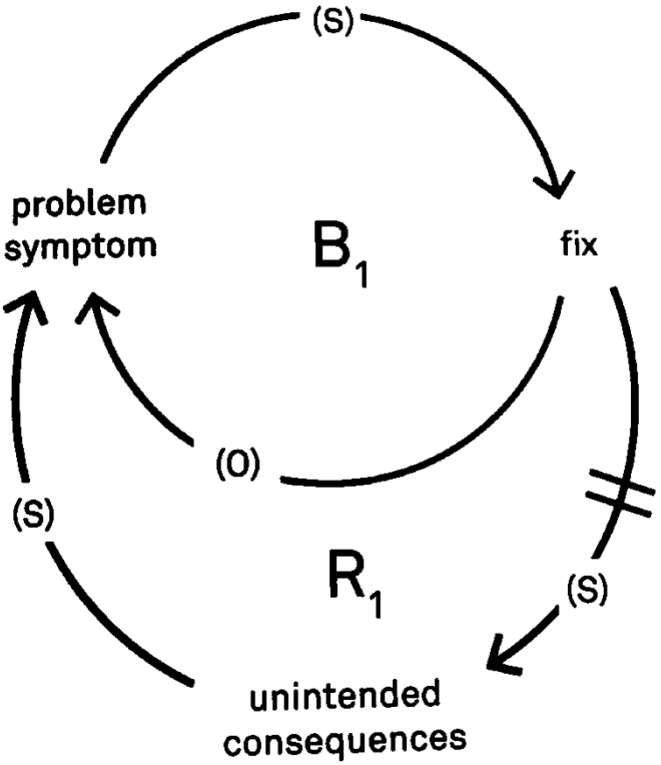


# 1. Social Ecosystem Map

Peter Jones & Kristel Van Ael  
(2022)



# 2. Causal Loops

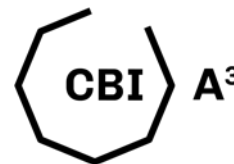


# Social Ecosystem mapping:

Choose 1 x card per person

Use the given template (individual exercise)

- Add as many system parts as you can think of
- Use directional arrows to depict relationships across levels
- Some levels may be more/less populated (ok, shows gaps!)





**Interpersonal:** Individual actors;

**Microsystem:** everyday social context in the geography and society - e.g. workplaces, neighborhoods;

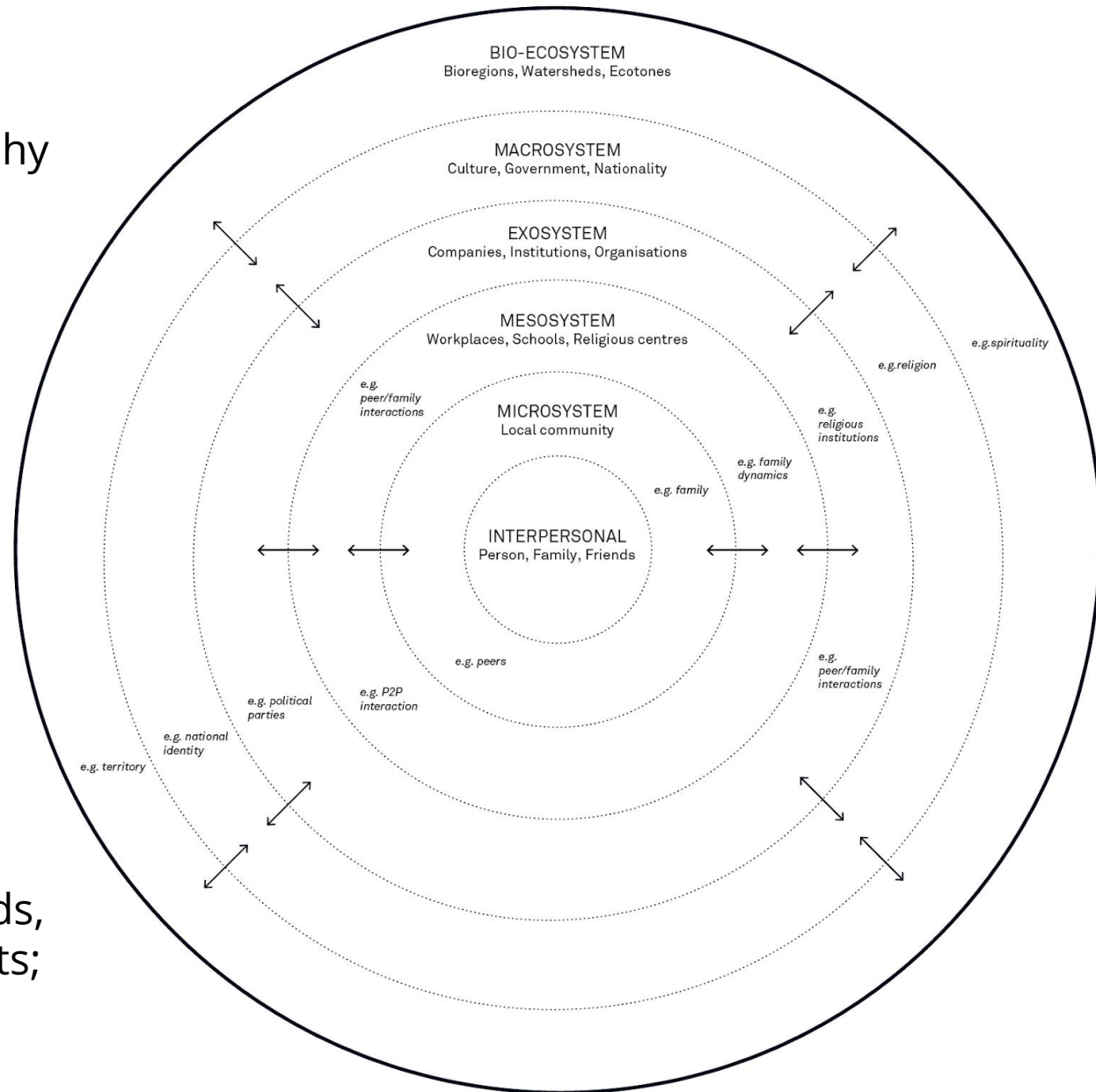
**Mesosystem:** structured community and organizational settings - e.g. company structure, schools, the local community in a city;

**Exosystem:** companies, industry, healthcare institutions, municipal or regional government;

**Macrosystem:** national culture, political context, economy, factors influencing quality of life - e.g. information and media sources, population demographics;

**Bio-ecosystem:** natural environment - e.g. watersheds, health of flora and fauna, biodiversity, pollution effects;

**'force lines'** indicate relational dynamics within and across levels



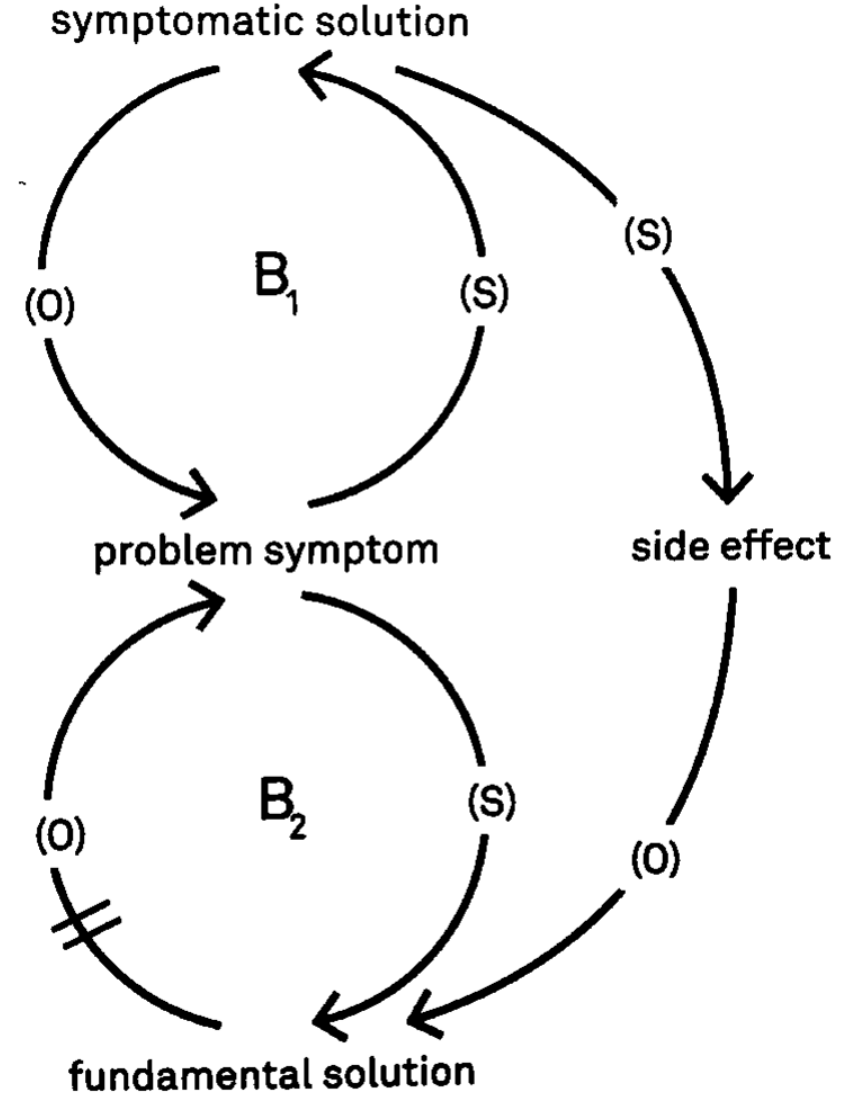
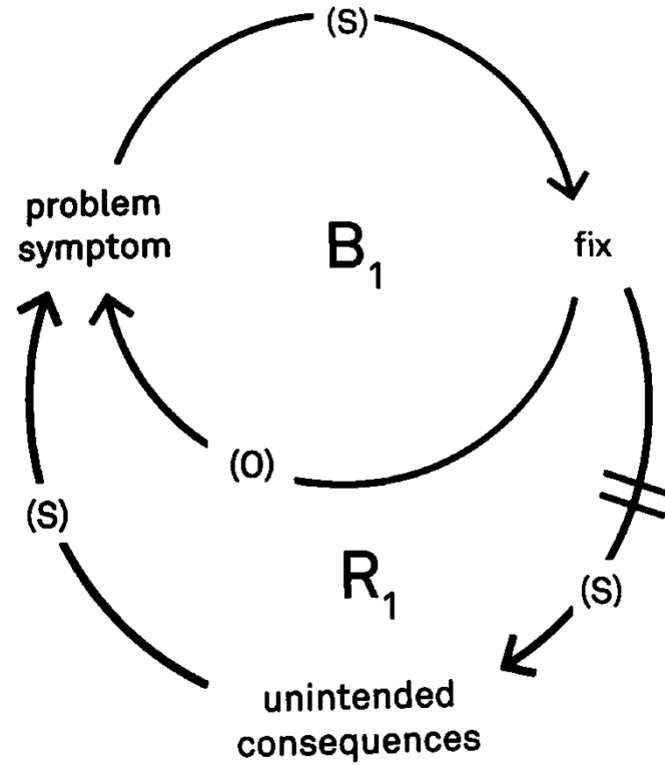
# Inspire identifying more parts by considering:

the ecosystem map levels

the 5 x i2planet (rough) themes

- User journey and ethics (pick one key user from your card)
- Wellbeing & Health
- Power (energy) needs
- Water quality &/or hygiene
- Construction & infrastructure

## 2. Causal Loops





INVESTMENT



DEMAND



PERFORMANCE



# Causal loop mapping:

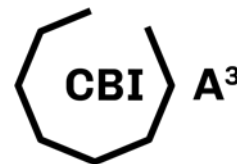
Continue on the same 1 x card per person

Take an “existing solution” you have identified.

**to better understand...**

*What levels & parts of the system does the solution intervene with?*

*Are there any side effects or unintended consequences?*



# Causal loop mapping:

Follow these steps:

- Identify variables (descriptor that can increase or decrease)
- What direction are the interconnecting relationships
- + or – flows.
- Balanced or reinforcing?

