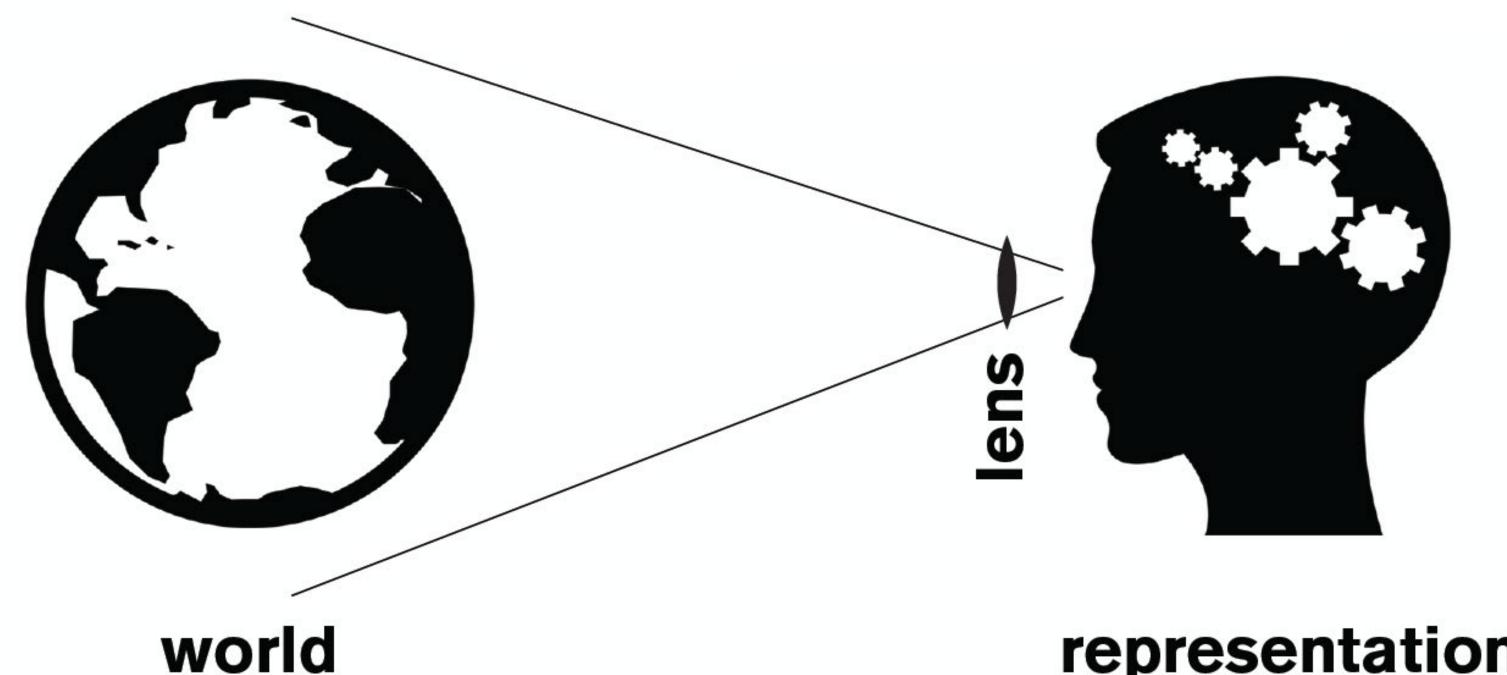
SYSTEMS MAP



OUR INTERPRETATION



representation

"Everything we think we know about the world is a model. Our models do have a strong congruence with the world. Our models fall short of representing the world fully."

- Donella Meadows

The purpose of systems mapping at DfG:

- Understanding
- Sensemaking
- Intervention design
- Communicating, storytelling

A systems map/model can include:

- Elements or entities in the system, including their roles
- Their relations, such as
 - Power relations
 - Contracts
 - other
- Flows, such as
 - Decision flows
 - Communication
 - Knowledge transfer
 - Resource flows
- Feedback loops

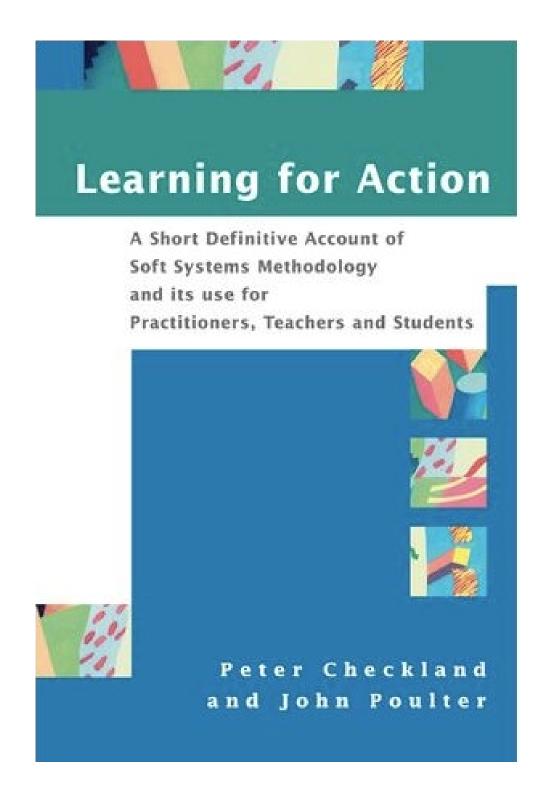
DIFFERENT TYPES OF SYSTEMS MAPS

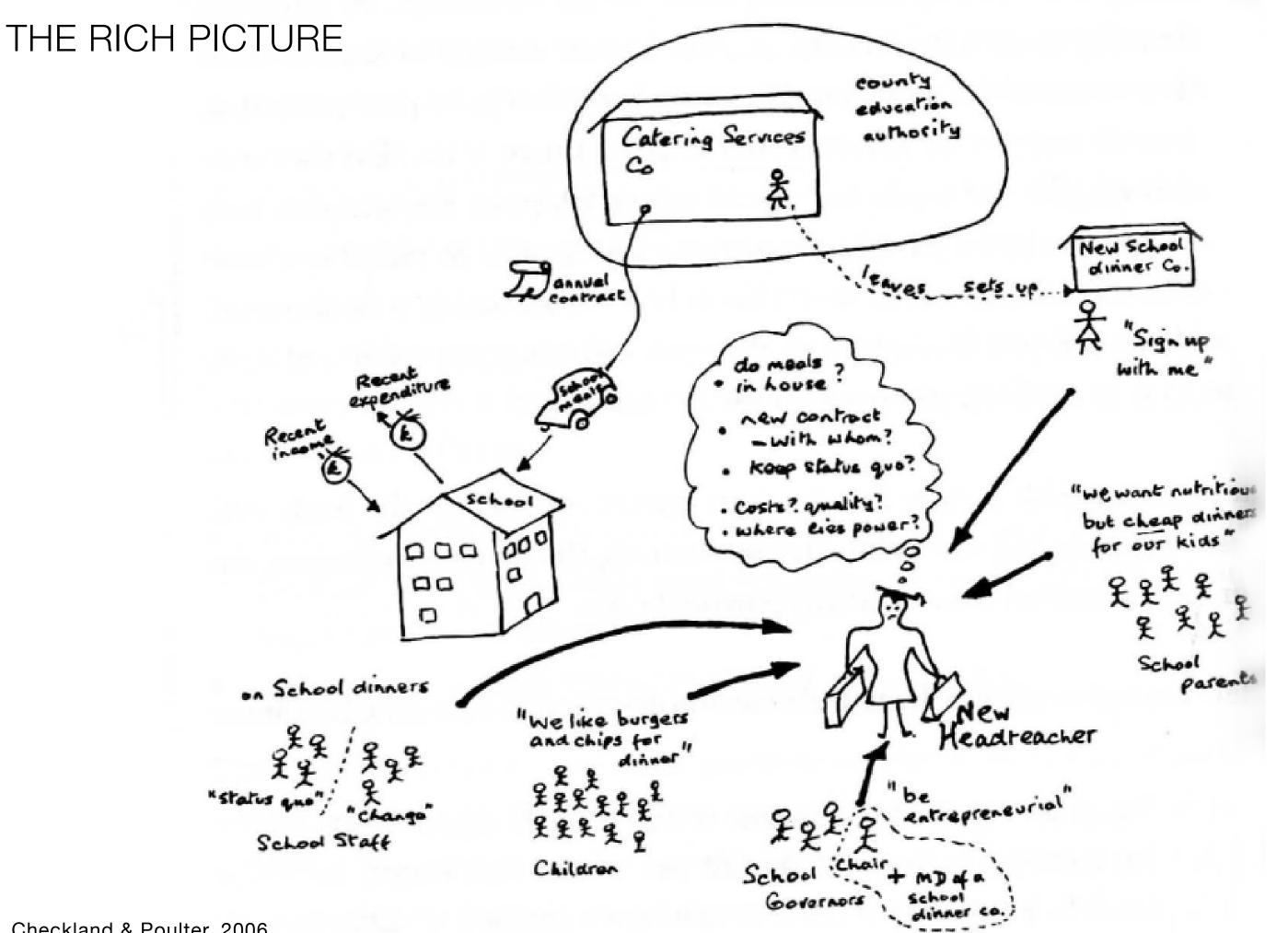
Systems mapping excercise:

Choose a type of map / method that makes sense for your project group:

- (a): The Rich Picture:
 Process oriented, one-human perspective
- (b): CATWOE model:
 Process oriented, birds-eye view
- (c): STEEP model:

A more general mapping of the different elements and relations, birds-eye view.





THE RICH PICTURE

In making a rich picture, the aim is to capture, informally, the main entities, structures and viewpoints in the situation, the processes going on, the current recognized issues and any potential ones.

A rich picture expresses crucial relationships in the situation, not just immediately but through time.

THE RICH PICTURE

Here is a real-world problematical situation described in a paragraph of prose:

The newly appointed headteacher of an 11s-to-18s school, which has overspent its budget in the last year or two, finds herself, in her first term, facing an issue concerning the provision of school meals. Currently these are provided by the county education authority

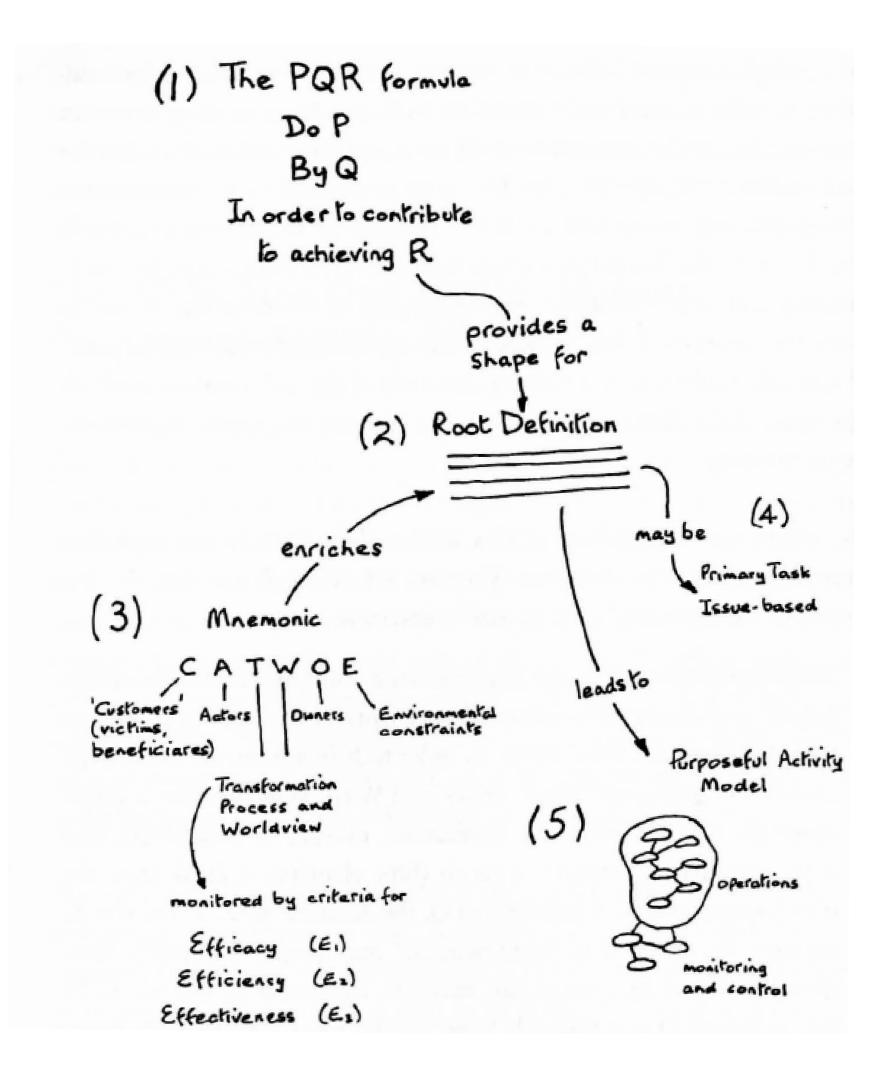
through their catering services company, the contract being renewed annually. A member of that company who is leaving to set up her own catering company urges the headteacher to make a contract with her instead of the county, suggesting the school could save money on this. Some staff members agree with this, others want to stick with the status quo. Some parents, alerted by a national debate about school meals, want more nutritious meals as long as they don't cost more. Pupils say: 'We like burgers and chips.' The school governors are discussing this issue; the Chairman, himself MD of a catering company, is urging the headteacher to be entrepreneurial and to take on responsibility for the provision of school meals, believing this could be profitable for the school.

THE RICH PICTURE

The rich picture can serve as **a basis for discussion** with client / stakeholders: "This is how we are seeing your situation. Could we talk you through it so you can comment on it and draw attention to anything you see as errors or omissions?"

The picture can be an ongoing process, getting richer as inquiry proceeds.

CATWOE ANALYSIS

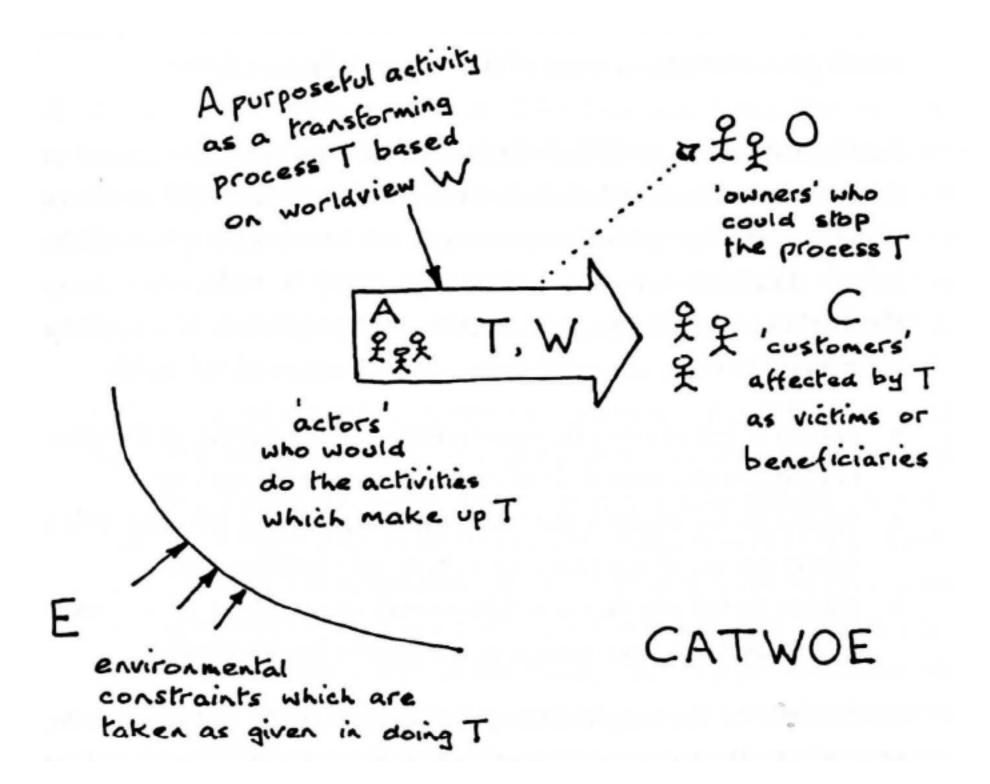


CATWOE ANALYSIS

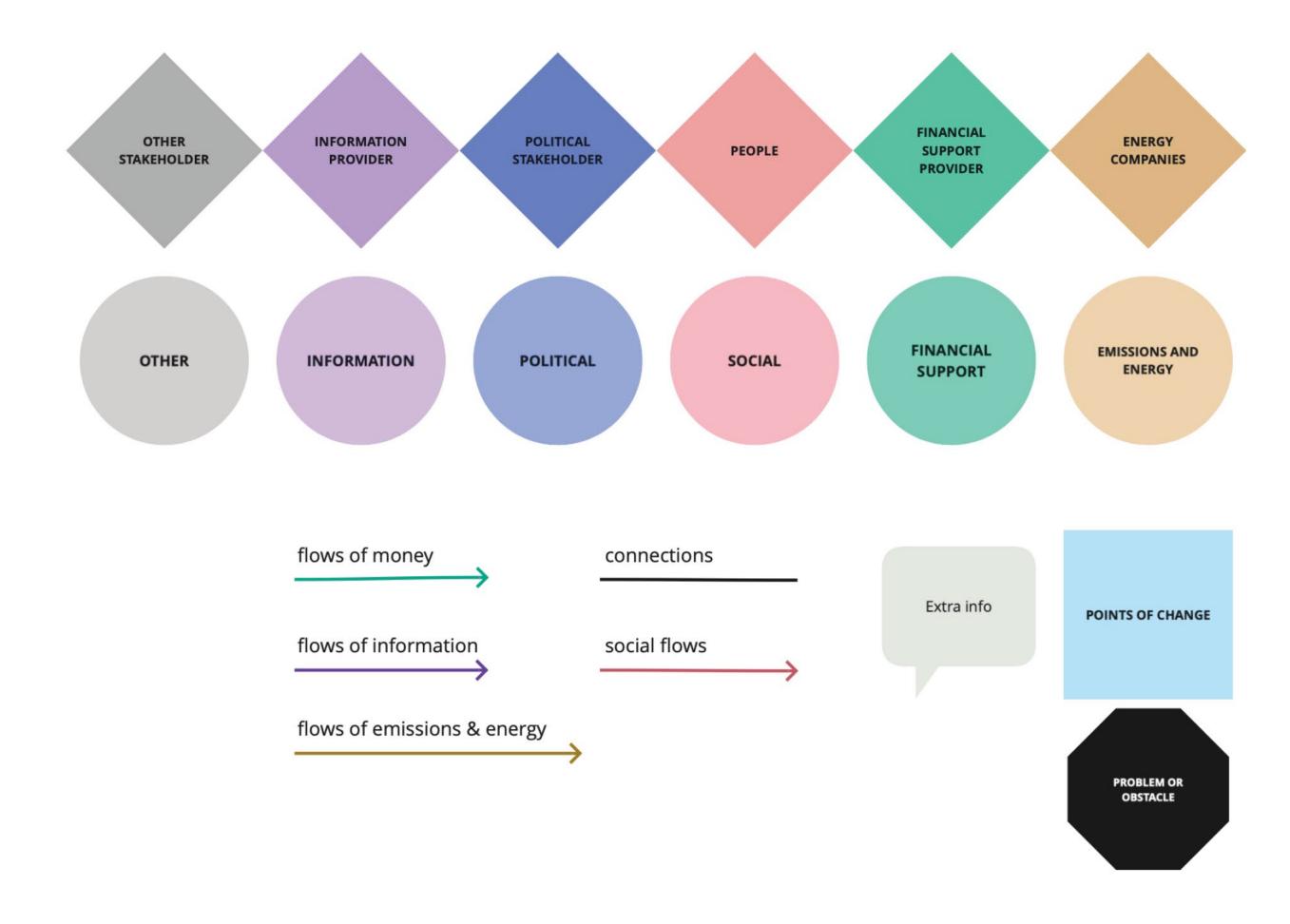
"CATWOE" is part of the Soft Systems Methodology

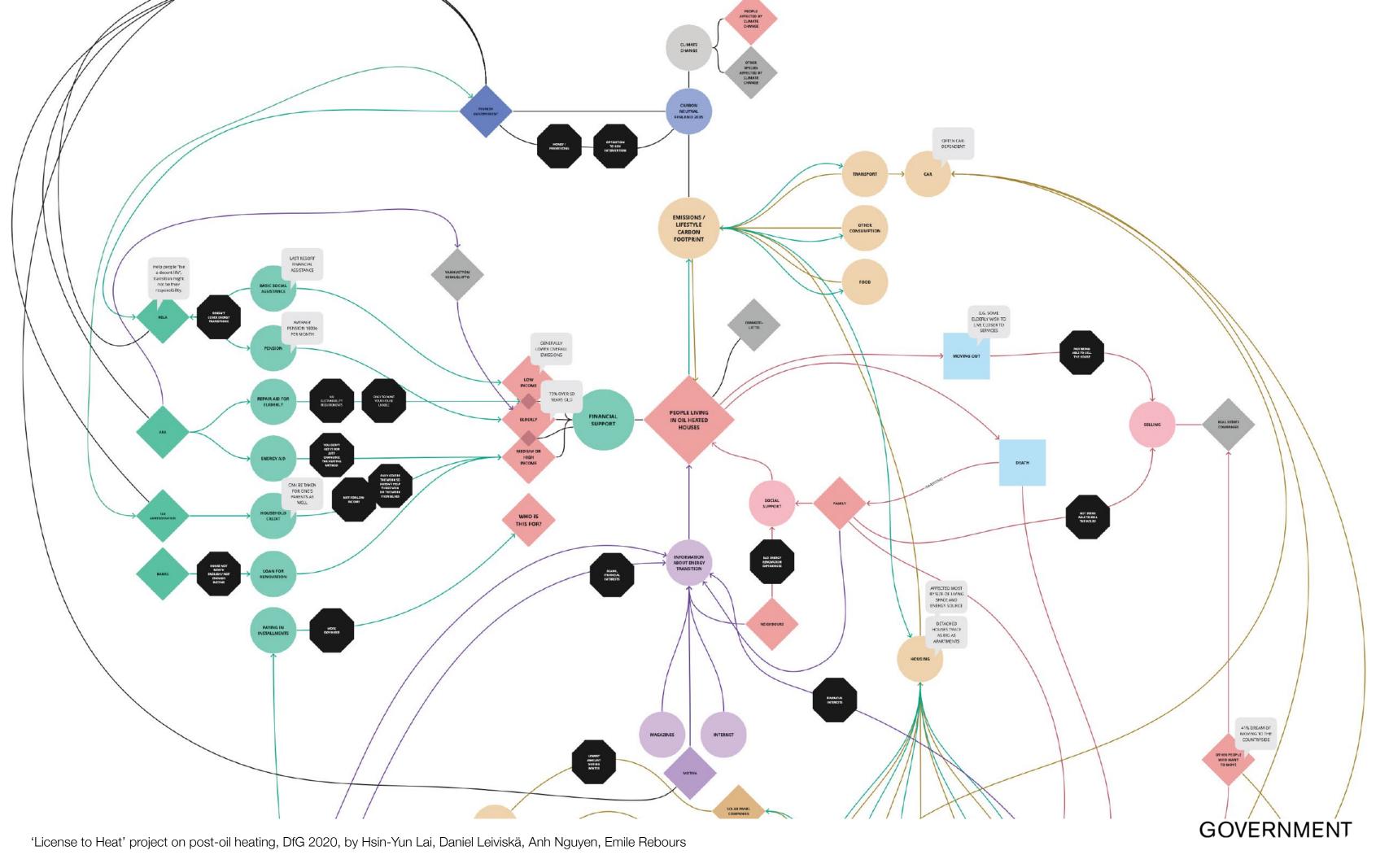
Customers affected by the activity (beneficiaries or victims)
Actors performing the activity
Transformation process = the activity

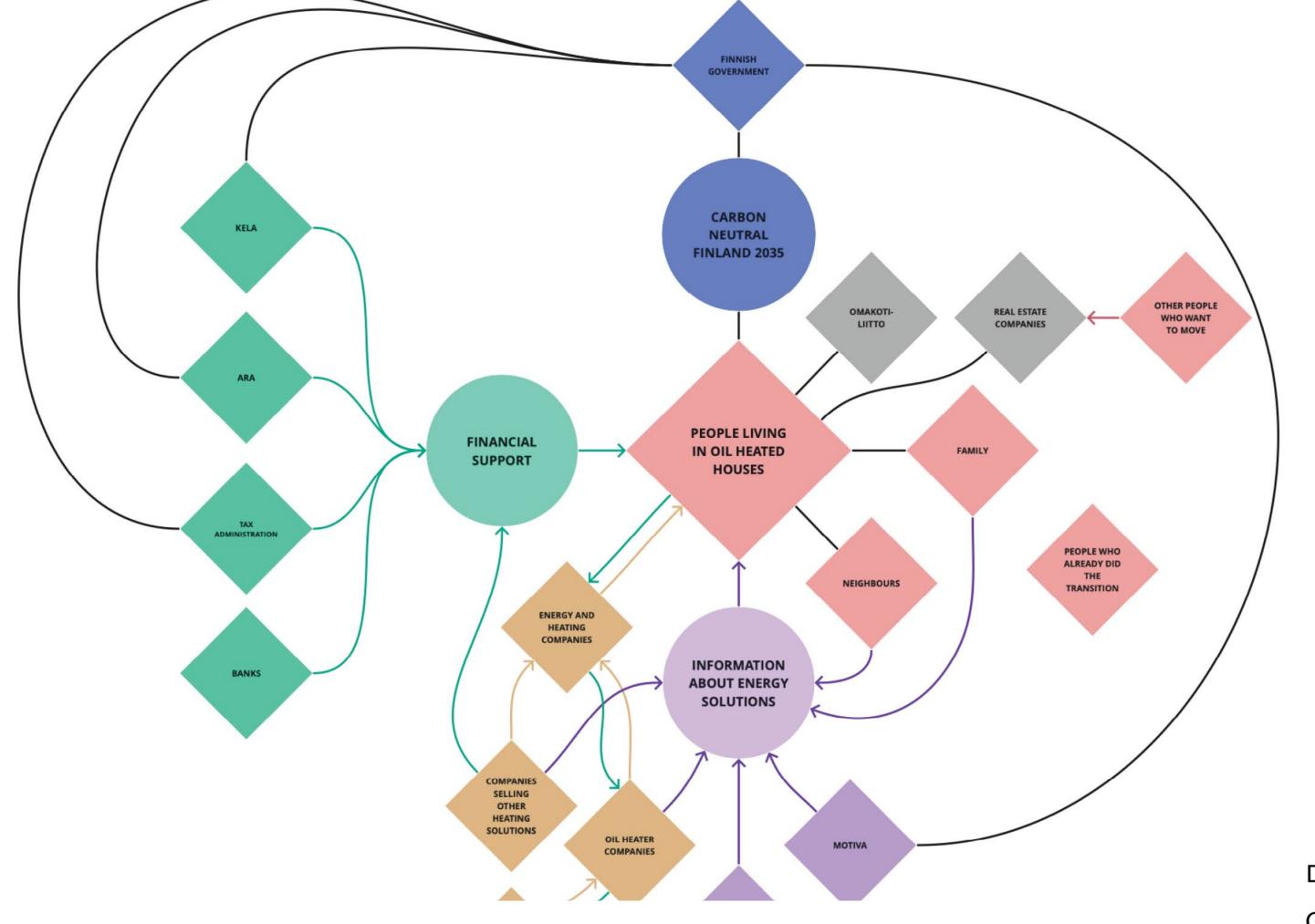
Worldview that defines the activity
Owners, who could stop or
change the process
Environmental constraints outside,
which are taken as a given

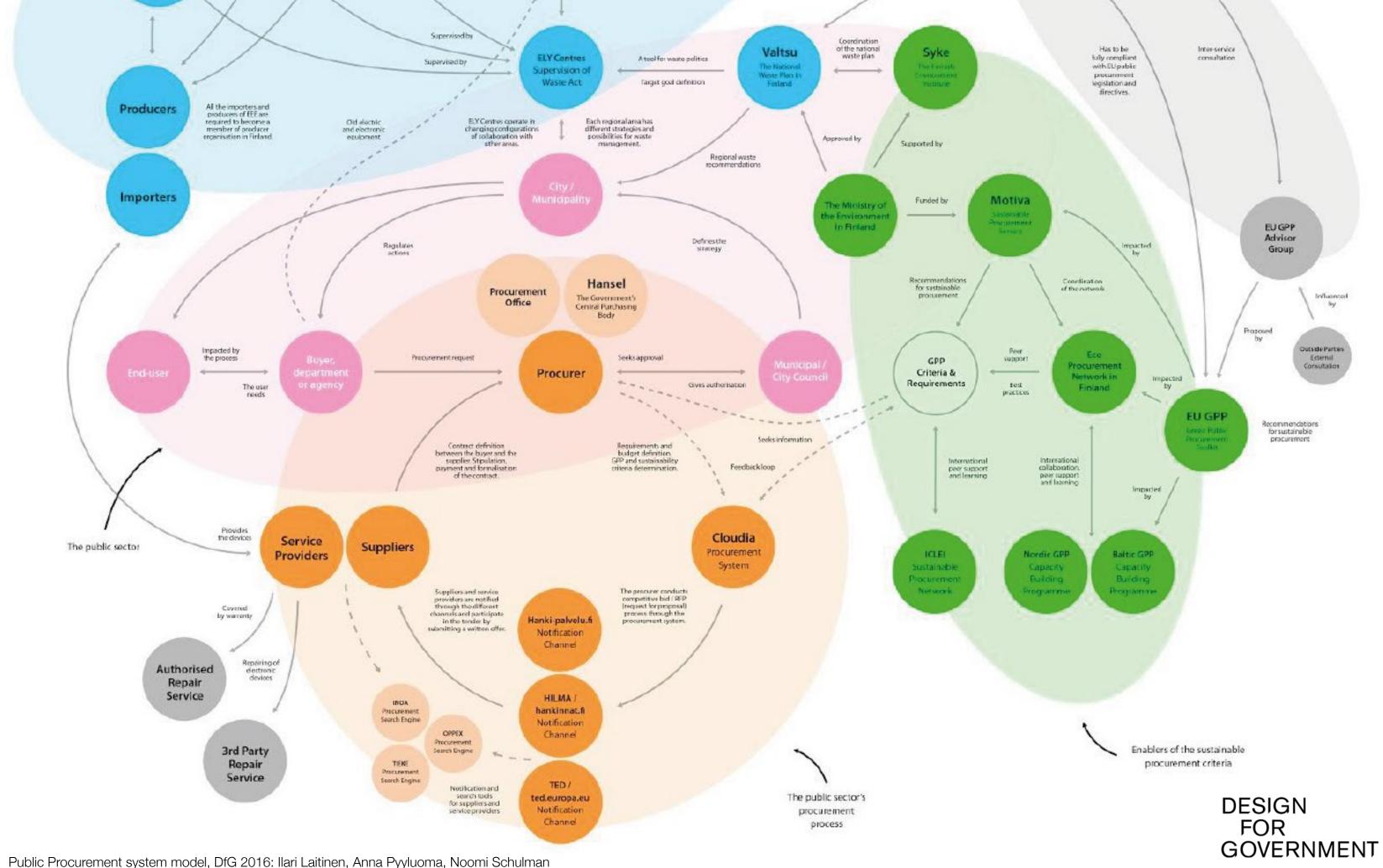


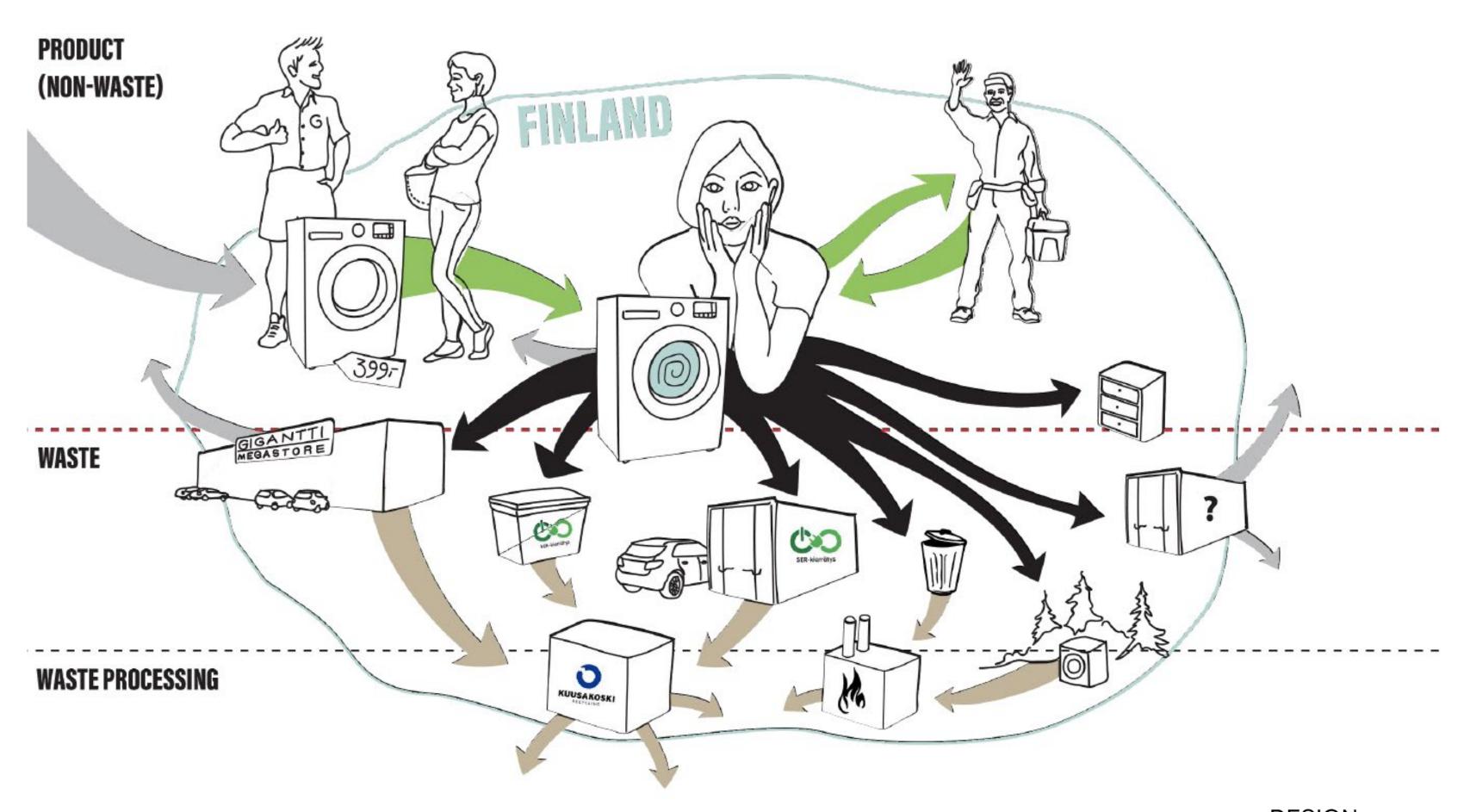
Political
Economical
Environmental
Technological
Social

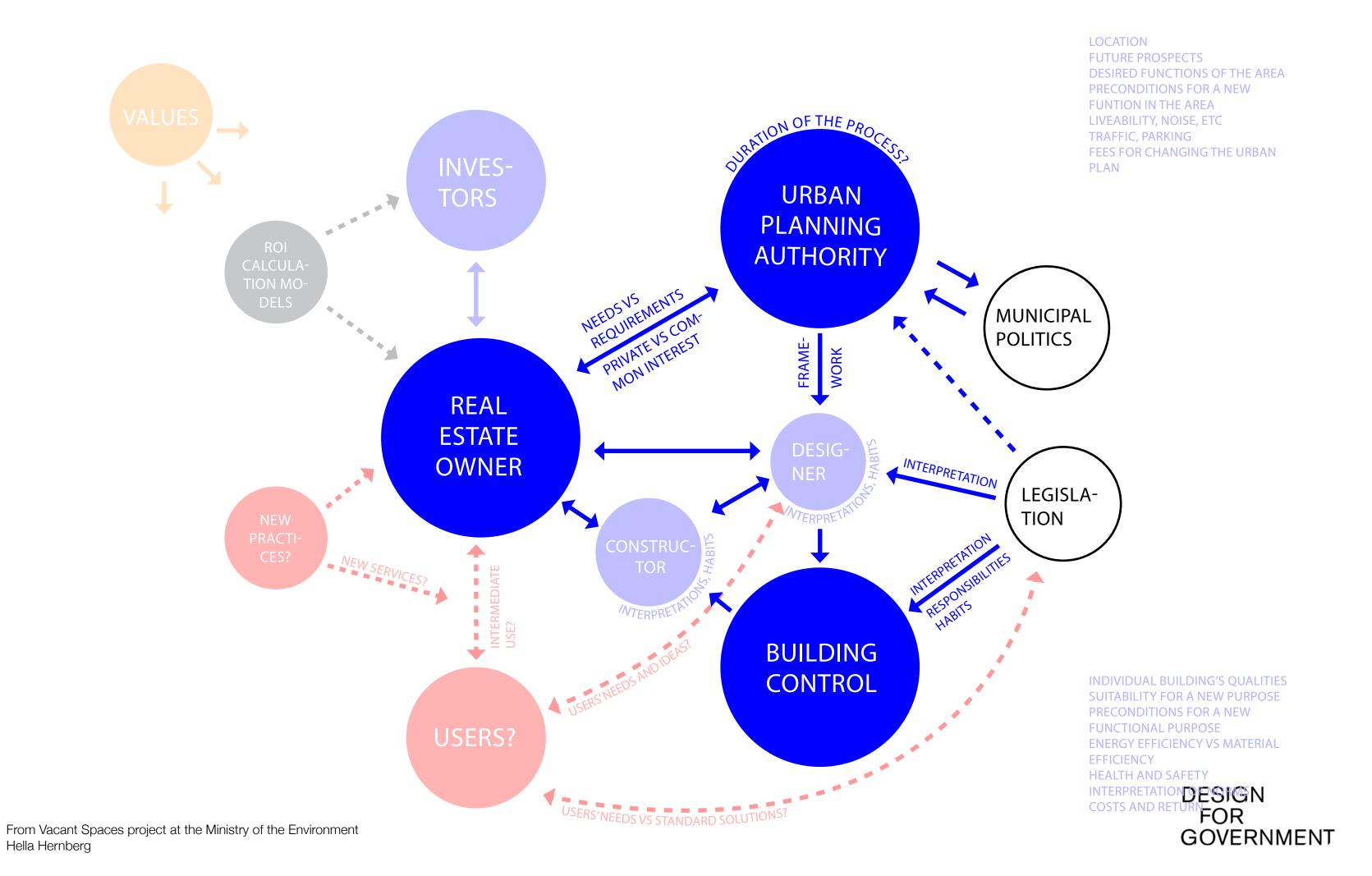


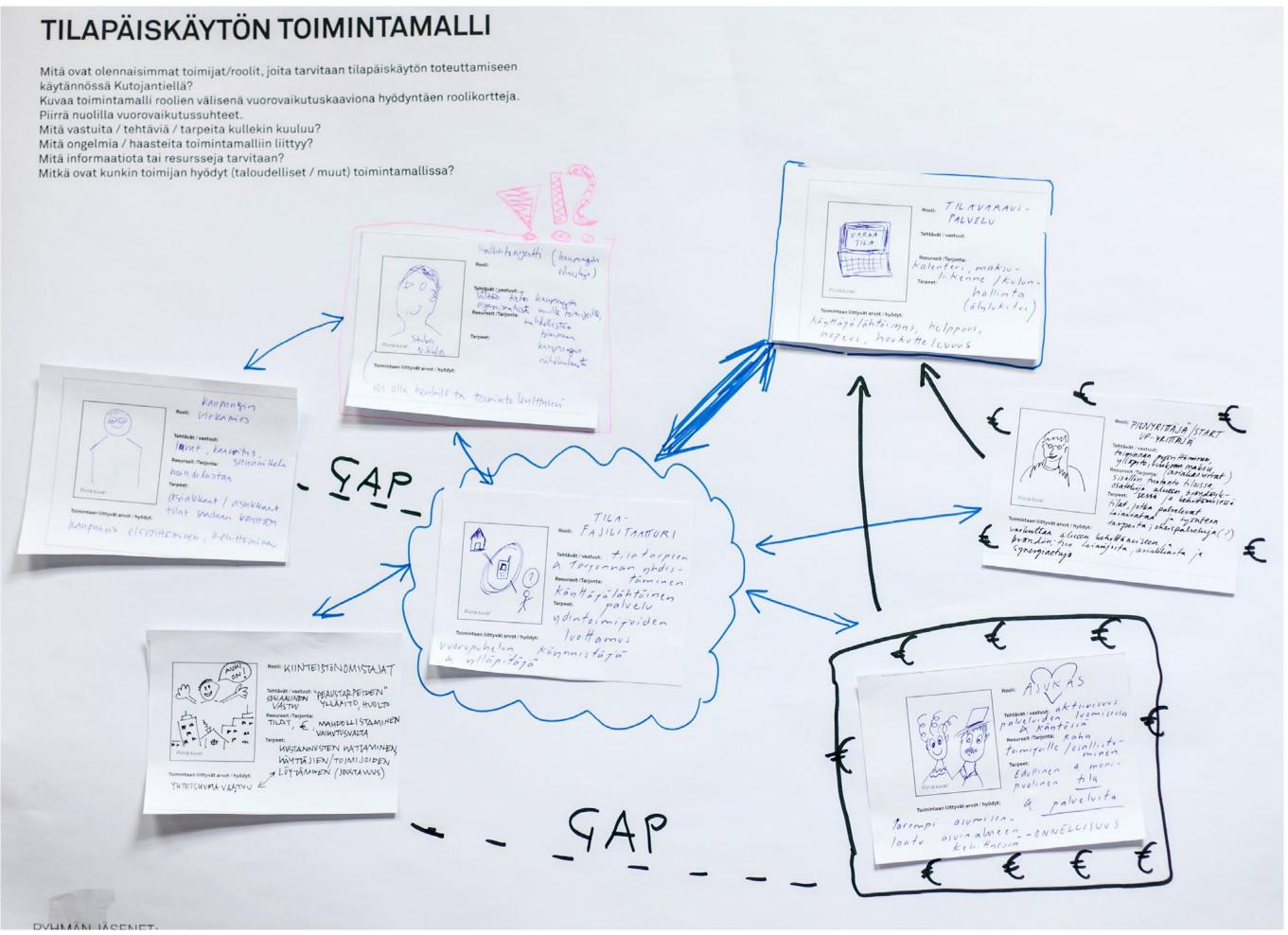


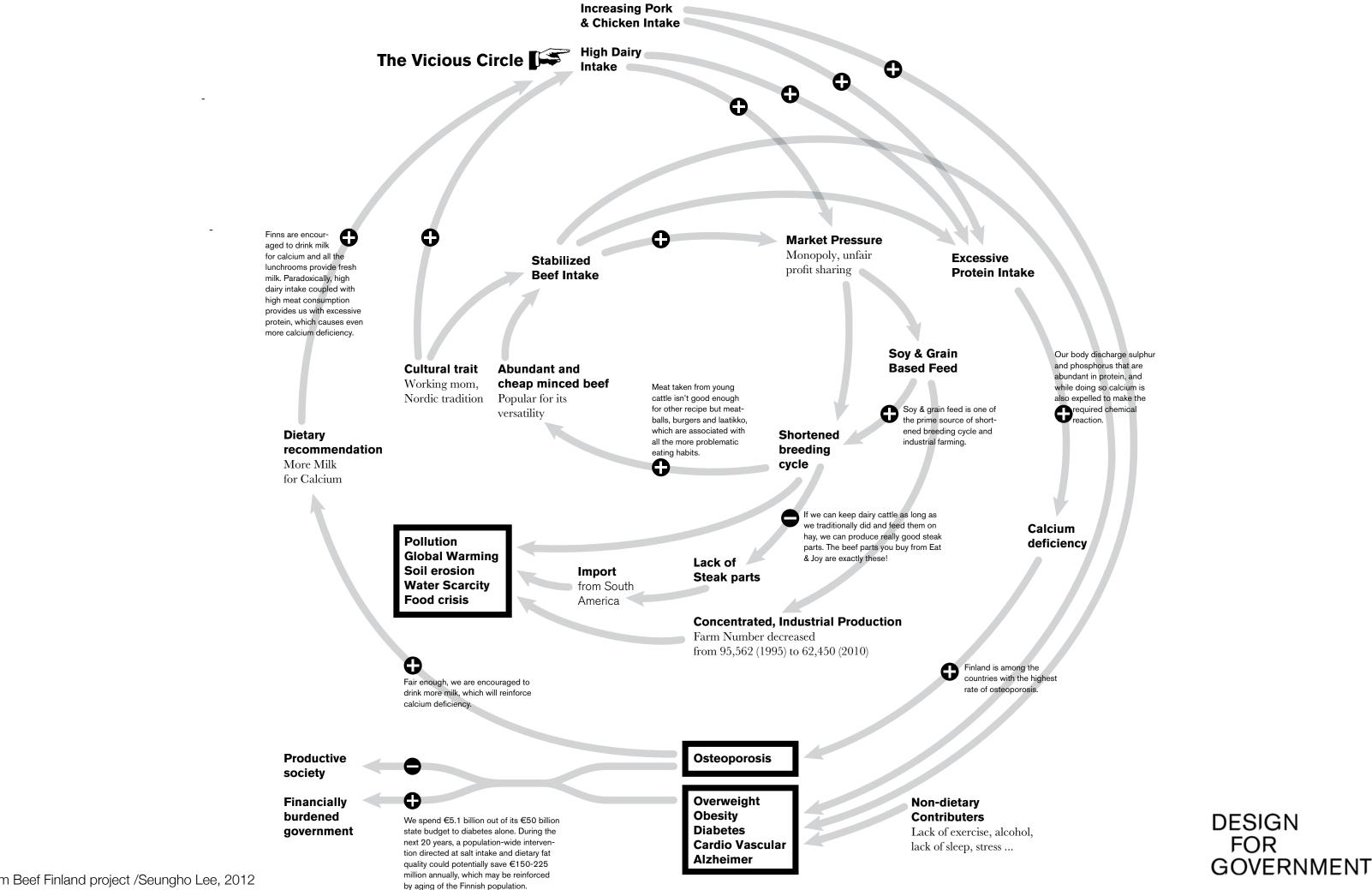












From Beef Finland project /Seungho Lee, 2012



We used a systems thinking tool - the Iceberg model to structure the challenges, their connections, and their underlying reasons. Graphics by Ruta Jumite.

Systems mapping excercise (1 hour) Within your team, choose one of the options a, b, or c:

Exercise, option (a) Rich Picture

Based on your research, choose "a person" representing a stakeholder group. Sketch a rich picture map based on their situation within your bigger system. Keep in mind other key people and entities that are relevant issue or resource owners in the situation. Keep also in mind relevant roles, (power) relations, flows, etc.

I.e. "follow the people" from one human pointof-view

Exercise, option (b) CATWOE analysis

Based on your research, choose "an activity" representing a key issue/problem over time. Develop a map of the activity based on milestones, touchpionts, people and entities. Keep in mind relevant roles, (power) relations, flows, etc. Think also of obstacles, or poits of divergence that are relevant to the situation.

I.e. "follow the process" from a birds-eye pointof-view

Exercise, option (c) STEEP model

Based on your research, map out relevant elements of the system, such as different stakeholder groups, organisations, artefacts, policies, technologies, processes, etc. differentiating Social, Technological, Economical, Environmental and Political aspects.

Develop a map of the entities and their relations. Keep in mind relevant roles, (power) relations, flows, etc.

I.e. "follow the system" from a birds-eye pointof-view "We can't control systems or figure them out but we can dance with them!"

- Donella Meadows