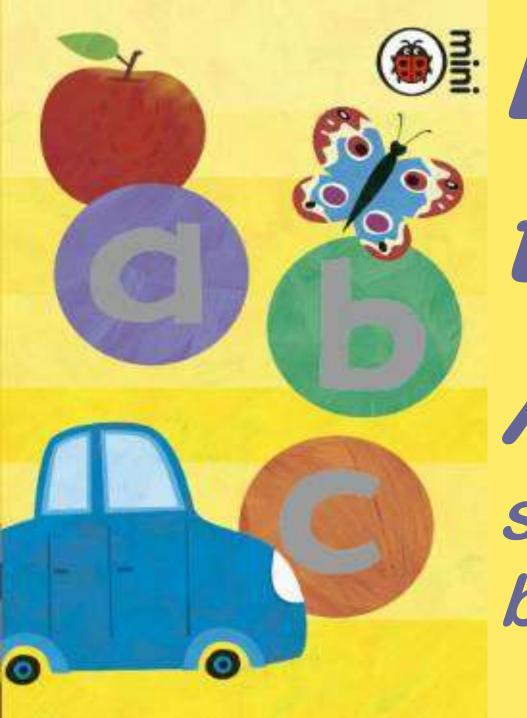
TRANSITIONS IN PRACTICE climate change and everyday life

Elizabeth Shove, ESRC climate change leadership fellowship

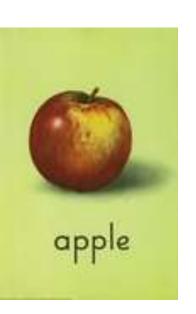




Beyond the ABC of sustainable behaviour



A is for Attitude



Individuals have attitudes.

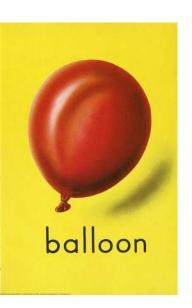
Attitudes towards personal consumption, waste and responsibility need changing

Attitudes are changed by persuasion and information.

Attitudes drive behaviour.



is for Behaviour

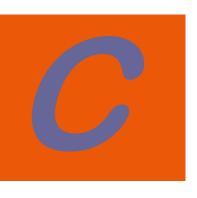


Behaviour is what individuals do.

Behaviours need changing.

Behaviours are driven by attitudes and prices.

People choose how to behave.



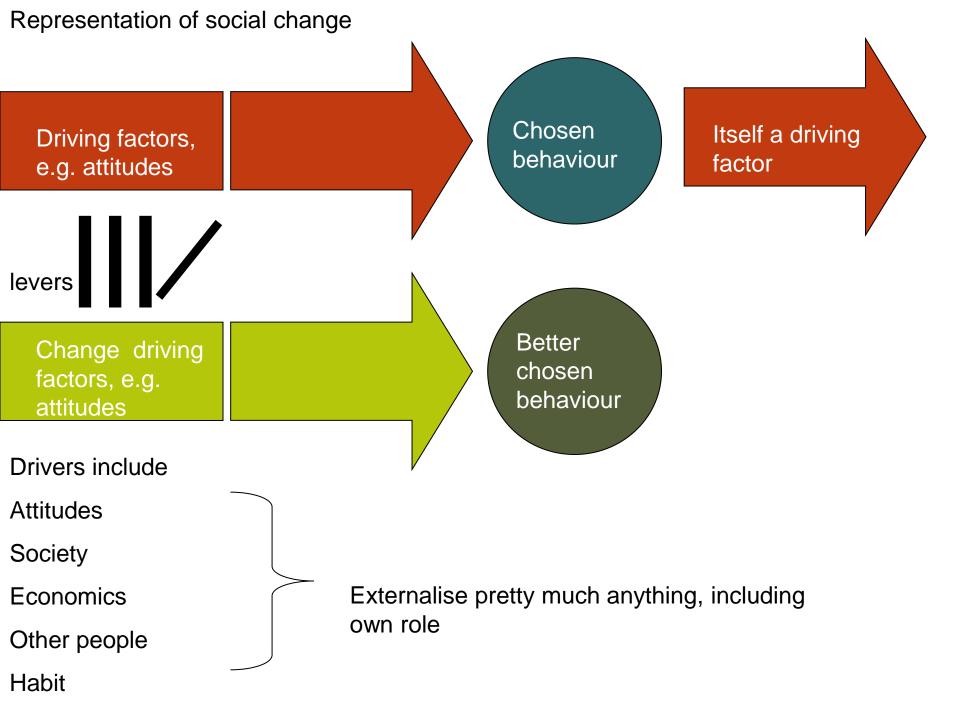
is for Choice

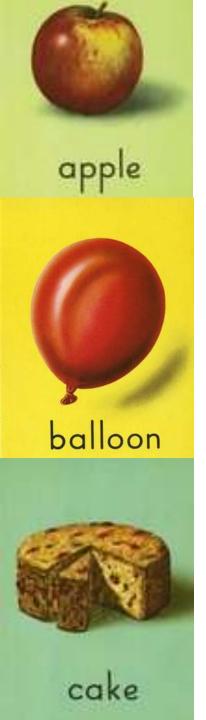


Choices are made by individuals.

If individuals chose not to use so much energy, water and other natural resources we'd not be in the fix we are.

Policy makers need to encourage individuals to make different choices.



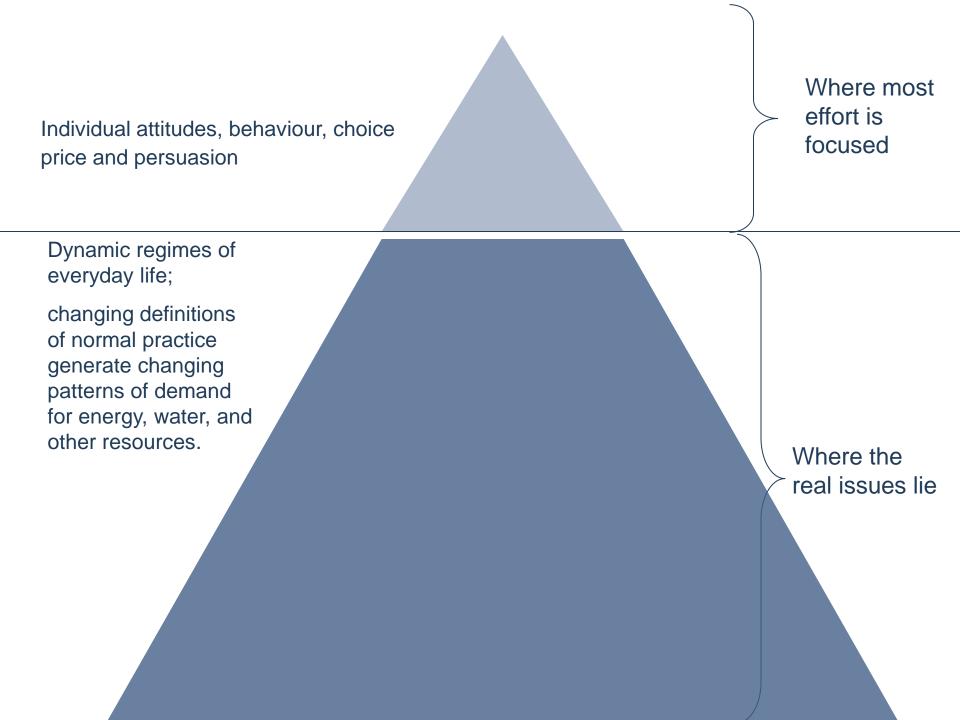


A FRAMEWORK FOR PRO-ENVIRONMENTAL BEHAVIOURS Defra January 2008

This report sets out a framework for Defra's work on pro-environmental **behaviour**. It pulls together evidence on public understanding, **attitudes** and behaviours; identifies behaviour goals; and draws conclusions on the potential for **change** across a range of behaviour groups.

The headline behaviour goals

-Install insulation -Better energy management -Install microgeneration-Increase recycling -Waste less (food)-More responsible water usage-Use more efficient vehicles -Use car less for short trips -Avoid unnecessary flights (short haul)-Buy energy efficient products-Eat more food that is locally in season - Adopt lower impact diet



Relevant resources in social theory

sociotechnical innovation studies....

Ideas adopted in climate change policy (business and government)

Theories of practice Theories of behaviour

Shared, social

Individual choice

Endogenous dynamics

External drivers

Specific cultural and material histories

Common base in belief

Reproductive, generative

Causal

Daily showering

Changing integration of material infrastructures, procedure and image

Watering the garden

Resources-services; diversity

Freezing food

Multiple embedding

Being comfortable

Deliberate intervention to challenge 22 degrees C.

Explaining daily showering

bathing as a social activity

porous skin, fear of plague, need a week to recover.

controlled bathing as *medicinal* intervention

social status, thrill, mineral waters, hydro-therapy sleep, circulation.

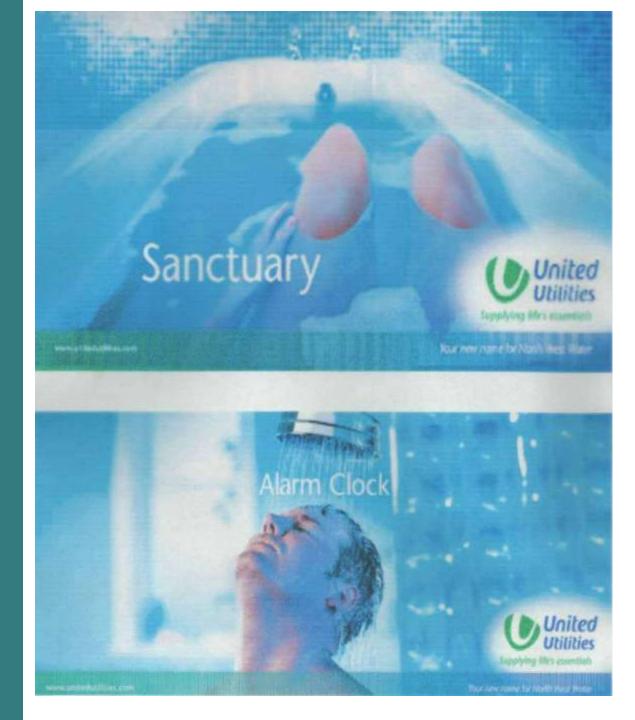
sanitary science; *cleanliness* and godliness, civilisation, discipline, germ theory.

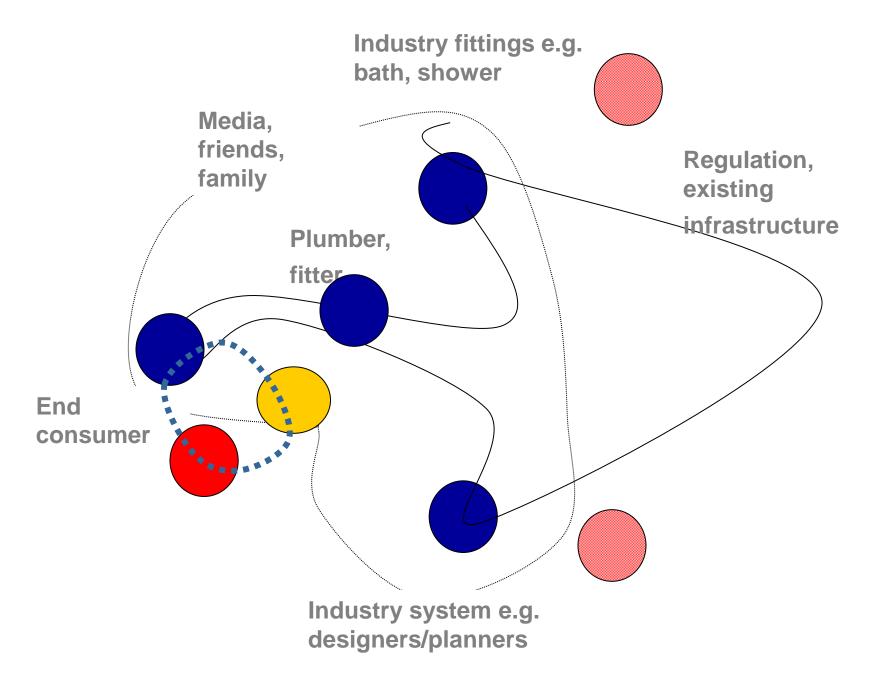
USA, 48 litres of water per capita per day for personal hygiene (91% showering)

UK, 27 litres of water pc pd for personal hygiene (36% showering) – *freshness*.



Contemporary images



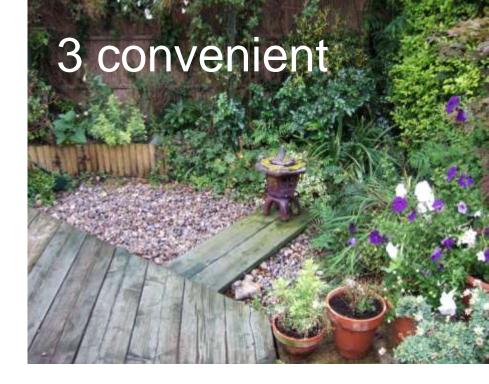


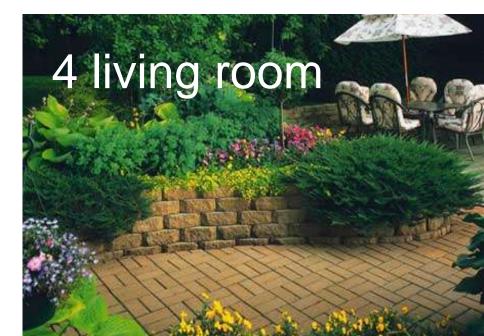
Links between industry structure and innovation in practice



UK, 2006, hosepipe ban and garden life





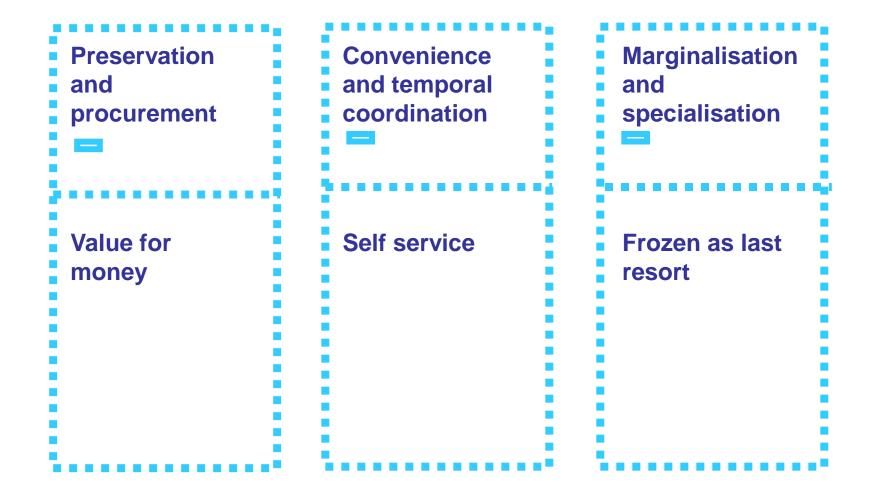


Contemporary diversity

Orientation to garden life	Layout/material organisation	Social role & organisation	Watering obligation
Productive 1	Well established, with zones for plants, lawn, vegetables, etc.	Keen gardeners, hive of activity, hobbies, cultivation, etc.	Intensive watering, but expertise to rig up water butts, etc.
Playground 2	Usually lawn for games	Given over to children for play, not a place to grow roses, etc.	Marginal, the grass is dead anyway
Convenient 3	Simple layout, plants and hardy shrubs that fend for themselves	Garden used only occasionally, low maintenance, a burden	Minimal effort, hosepipe ban excuse not to bother
Living room 4	Zones for eating; lighting, heating	Space for social interaction, sitting, dining	Sufficient to maintain the view

Framing freezers

An established appliance: the 'need' is now for more freezers, larger freezers and more types of frozen space: we discover co-existing, sticky links between **freezing**, **food and family**



How come 22 degrees C?

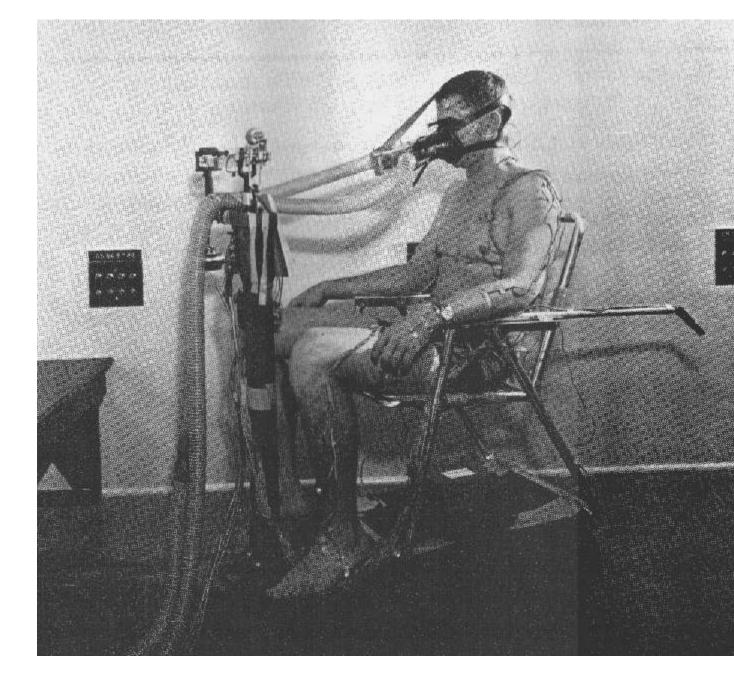
physical parameters and cultural concerns

sea breeze or mountain air

what climate to provide?



Defining comfort





Professor Fanger in his "Doctor-dress" at a reception at DTU, June 14, 2001

Standardising comfort, sweat and smell: the clo and the olf

The standard amount of insulation required to keep a resting person warm in a windless room at 70 °F (21.1°C) is equal to one **Clo.**

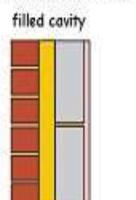
Units were chosen so that 1 clo would be roughly the insulating value afforded by a man's underwear and a lightweight suit, or "a heavy top coat alone."

The **Olf** is a unit used to measure the scent emission of people and objects.

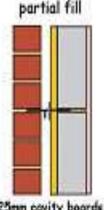
One olf is defined as the scent emission of an "average person", a sitting adult that takes an average of 0.7 baths per day and whose skin has a total area of 1.8 square metres; the scent emission of an object or person is measured by trained personnel comparing it to normed scents.

Standardising science also matters for ventilation rates and energy consumption.

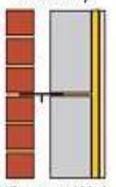




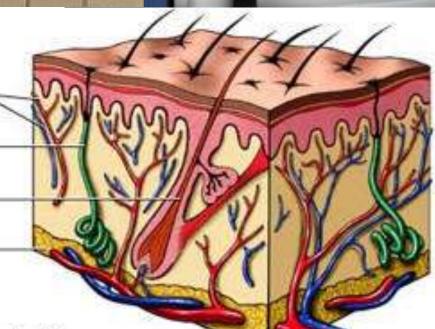
50mm cavity batts 100mm perated block 13mm lightweight plaster



25mm cavity boards 100mm cerated black 13mm lightweight plaster



125mm aerated block 25mm thermal board



The reproduction of comfort involves integrations of:

Clothing

Sweating

Building fabric and technology

Ideas about the human body

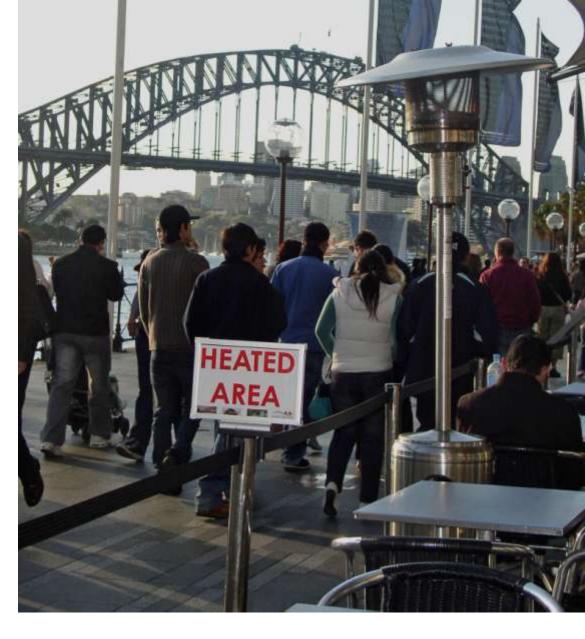
Seasonality

Regulation

Scientific research

Corporate interests

If a building is set, regularly at, say, 22 °C ... [and] ... If enough buildings are controlled at this temperature, it becomes a norm for that society at that period of its history, and anything different is regarded as 'uncomfortable' (Humphreys 1995: 10)



Seasonality and daily life

Changing ideas and conventions of comfort: space, body, building?



6 to 30 degrees C; 20 to 28 degrees C; 22 degrees C.



New commercial opportunities



▲SII company poster

ordinary consumption

Convention, routine, dynamics of practice, sociotechnical structuring of options - services not resources; systems of practice injunctions not choices

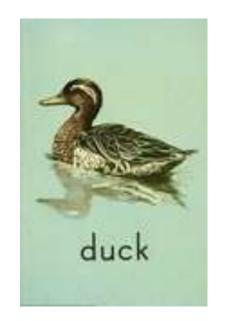
Where the real challenges lie

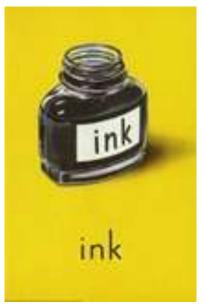
Individual belief, attitude, behaviour, information, economics, persuasion, labelling, reflexive decision-making about resources

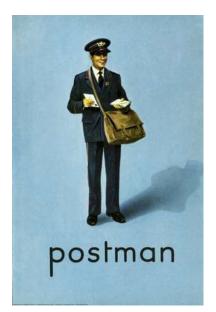
green consumption

Where most effort has focused

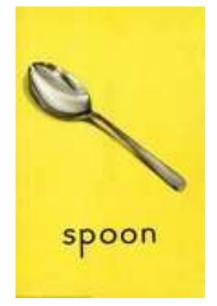
Requires an extended vocabulary

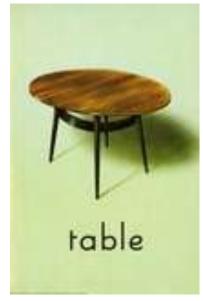






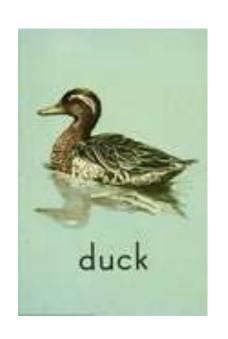






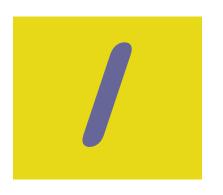


is for dynamics and demand

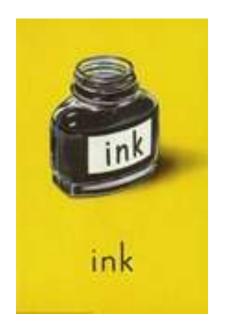


Demand is an outcome of practice.

Practices are dynamic, changing all the time, emergent, systemic.

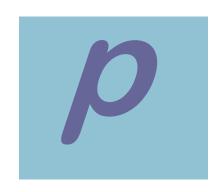


is for infrastructure and institution



Practices are embedded in, and are reproductive of material and cultural infrastructures and institutions.

Though often invisible in policy debate, these are key sites of order and transformation.



is for practice

Practices exist beyond specific performances;

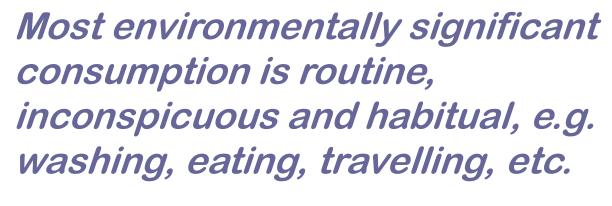
they consist of interconnected sets of norms, conventions, understandings, embodied knowhow, states of emotion, arrays of material things;

postman

they are made and transformed in and through moments of performance – doing, washing, eating, travelling, etc.



is for routine and regime



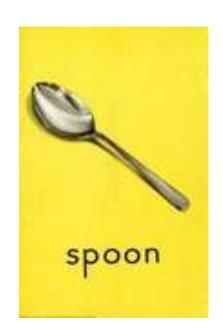
Routines change, but not through price and persuasion.



For regimes of practice, see systems



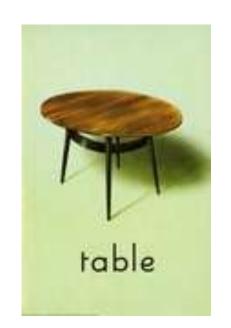
is for systems and services



Practices intersect to form bundles, complexes and regimes. These have different systemic qualities.

Services like comfort, cleanliness and convenience are relevant units of demand (not resources as such). *t*

is for transitions, tipping points and transformations



Practices and systems of practice are not stable.

Transition and transformation is normal.

For policy, the challenge is to understand transitions in practice.