

Many new forms of water metrics



Purpose

From resource to service

How do water-using practices change

How do these changes relate to time and technology?

Beyond 'averages'

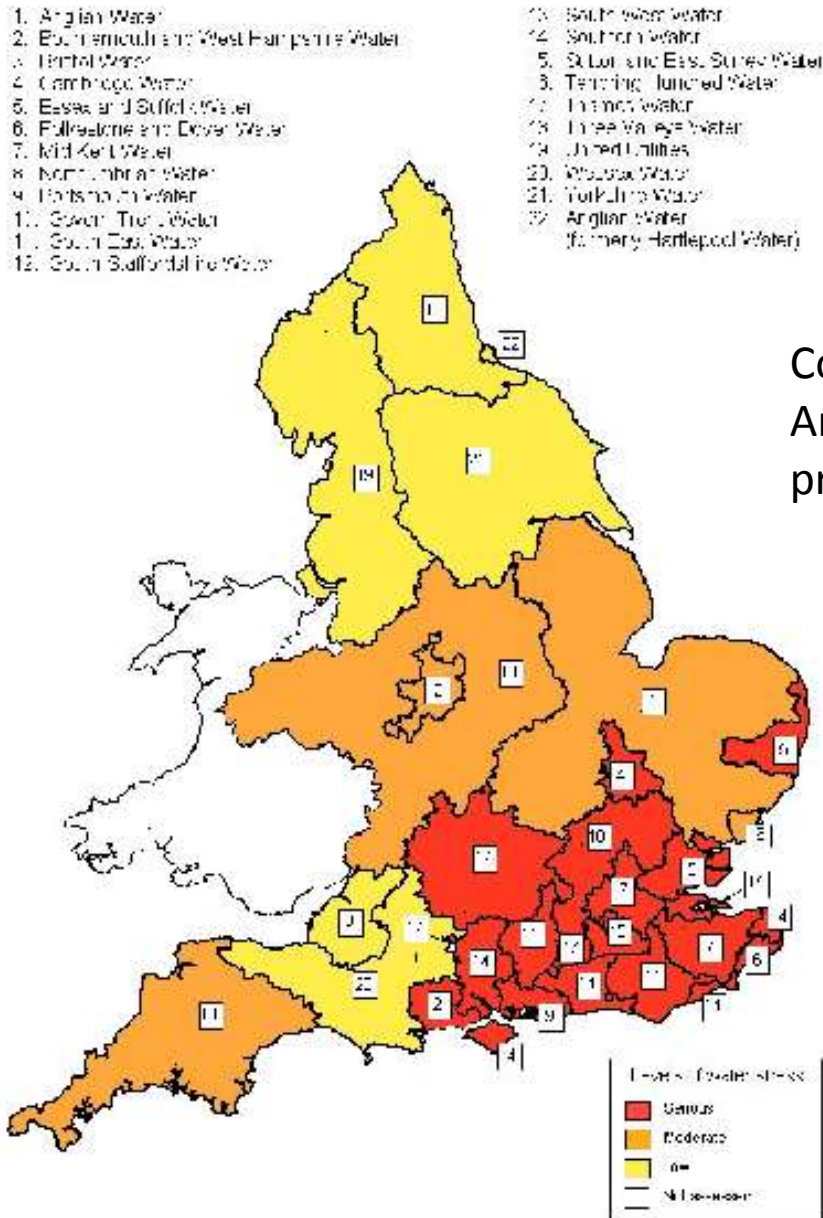
Distributions of practice, maps.

Litres per practice and how this changes and varies

How do conventions – e.g. The green lawn become established, what is 'normal'

What are the questions to ask?

Figure 1 Map of areas of relative water stress

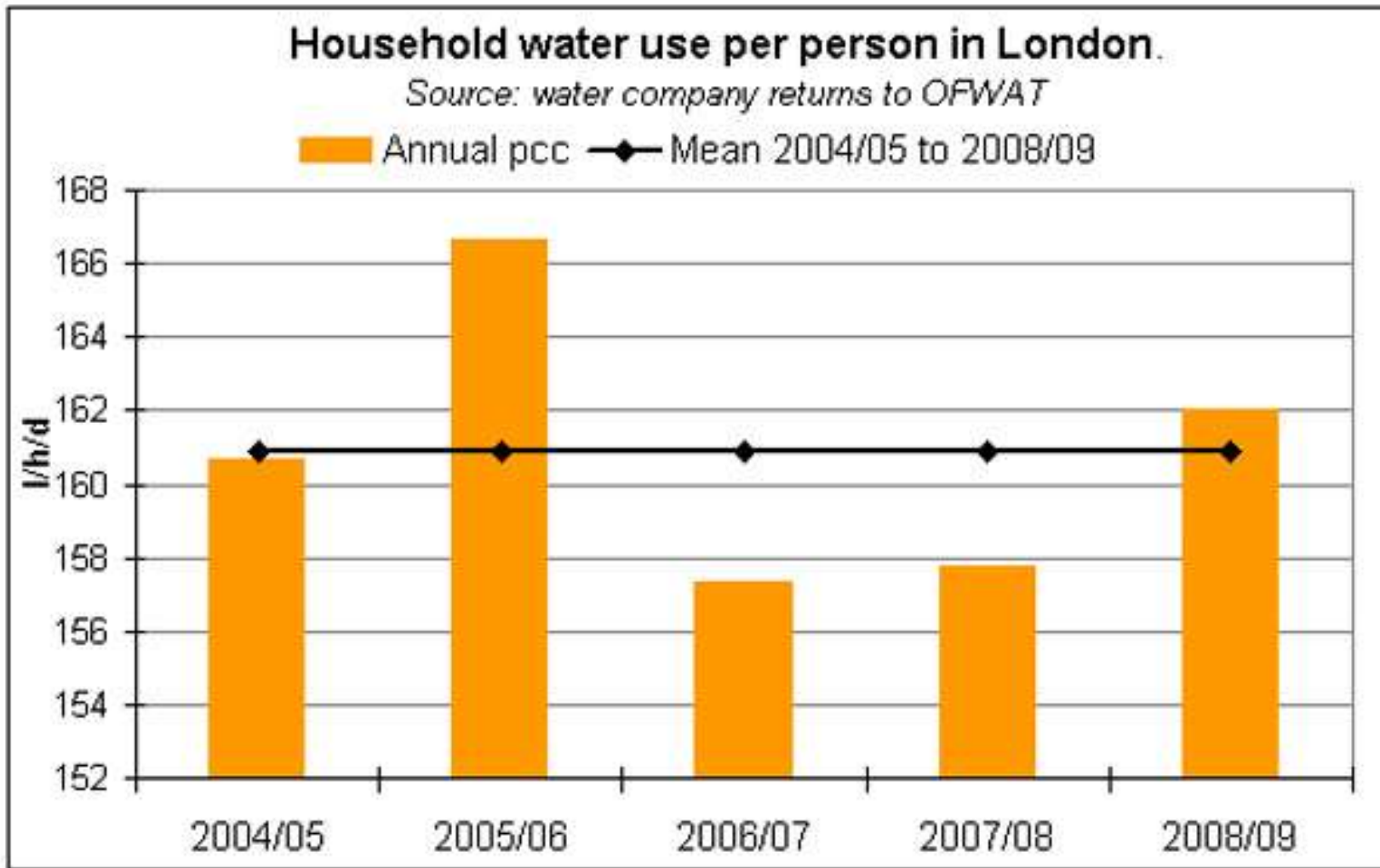


Conventional representations
Are also representations of the
problem

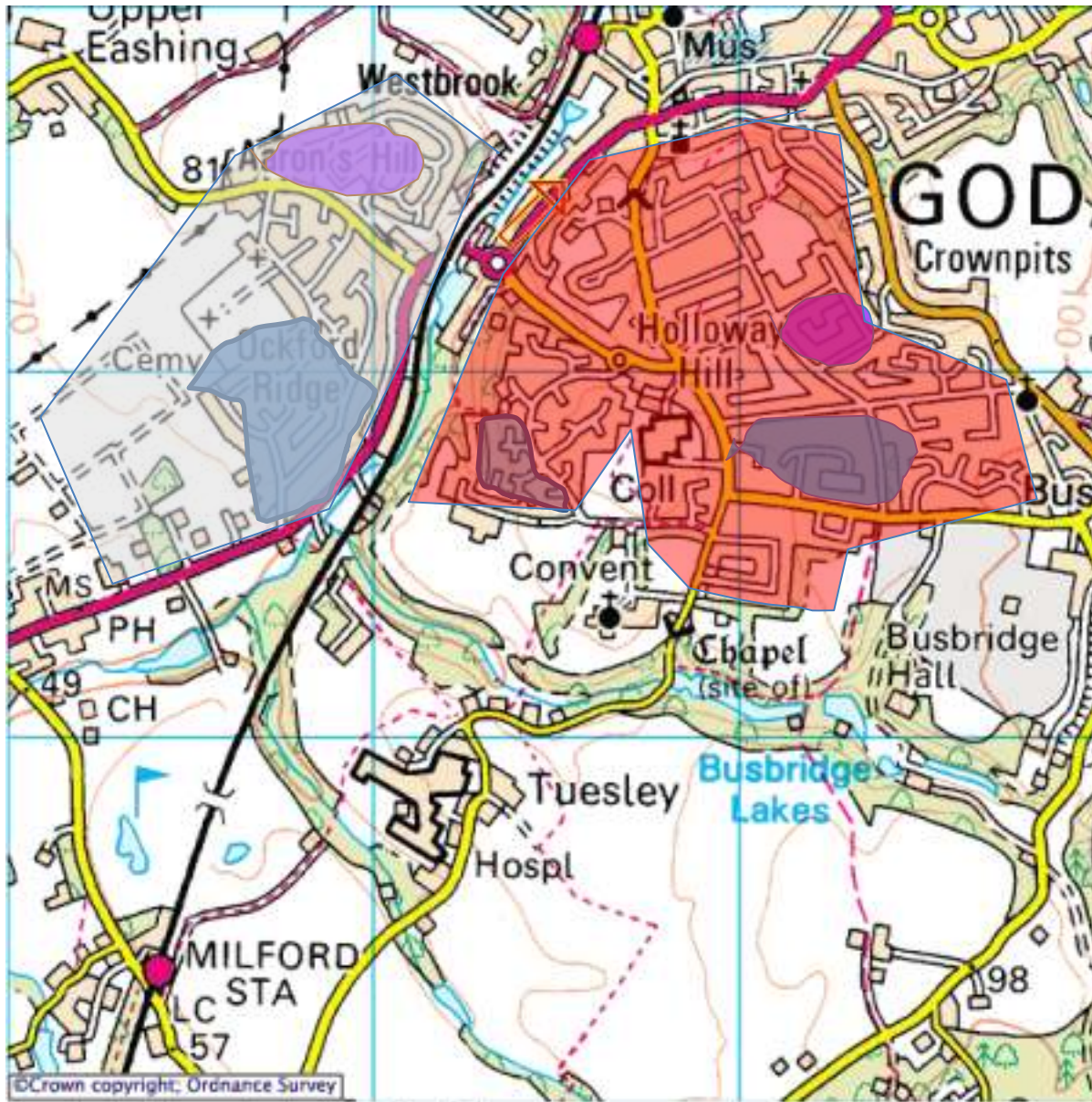
Misses seasonal change
Treats water as 'one'

Conventional representations: and what they disguise

what is this water being used for, and how do water-consuming practices vary



Geographies of practice



-  Daily shower
-  Garden as playground
-  Keen on laundry
-  The unwashed

For the exhibition, we could make/fake maps., like this

Swimming
pool

work

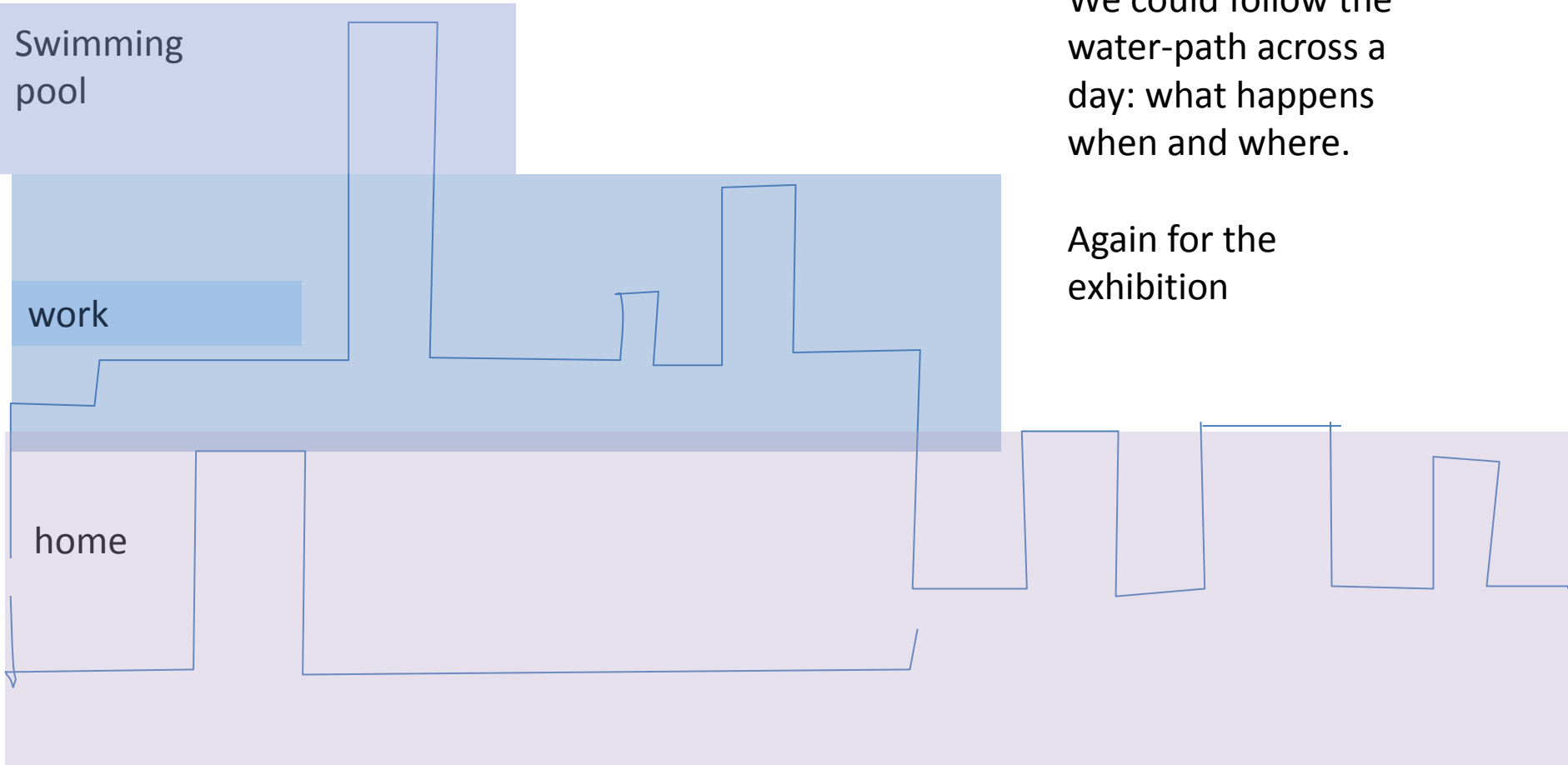
home

We could follow the
water-path across a
day: what happens
when and where.

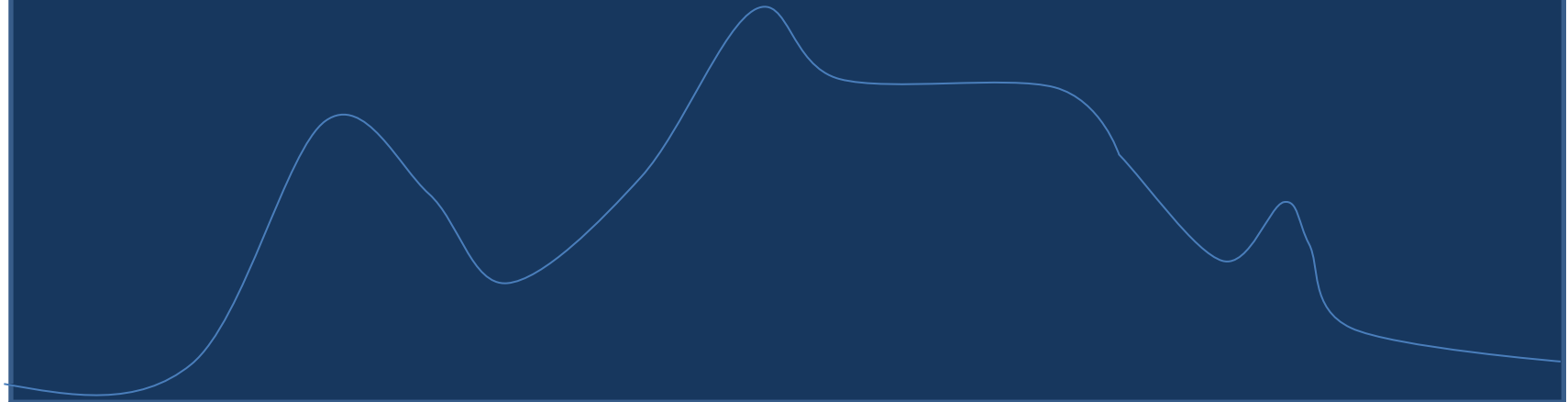
Again for the
exhibition

Start of day

End of day



Which water
consuming
practices go here?



Which water consuming
practices go here?

January

July

December

A guessing game? Does that help? Aim: to show variation in end uses over the year, to show that practices interconnect.. But how



Litres per practice



little

lots

Beyond the average

For the show: participants from the floor?

148 litres
per person
per day

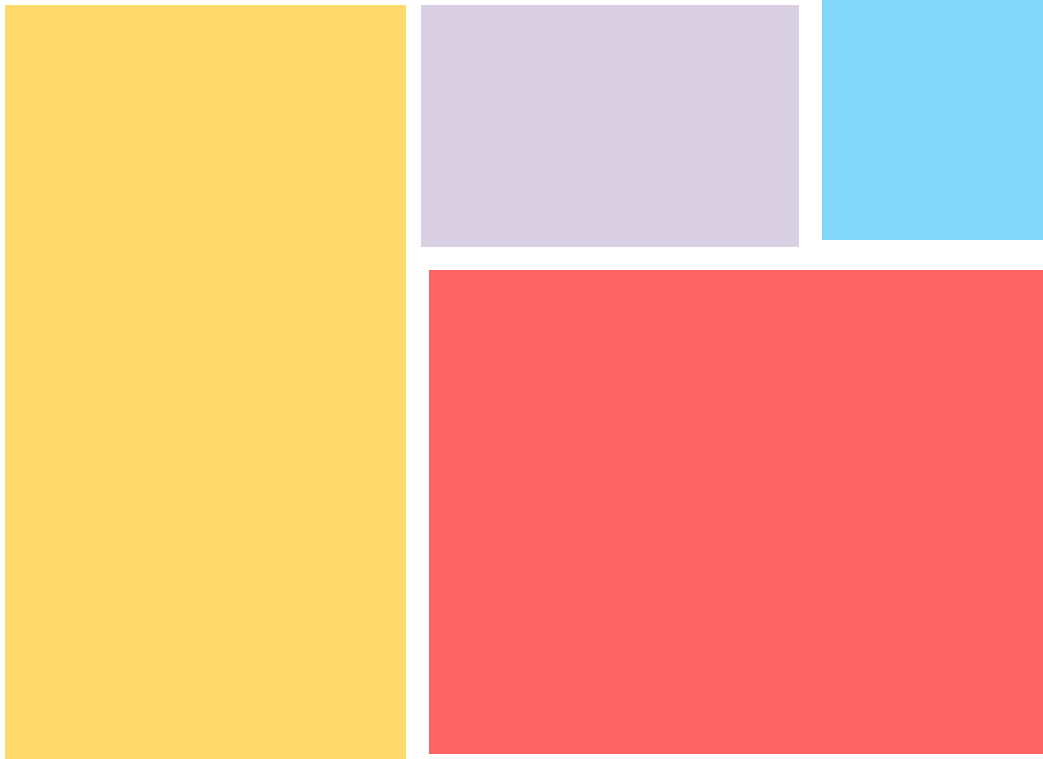
Different
ways in
which this
'average' is
composed

(we have
enough
water jacks
for 75 L.)



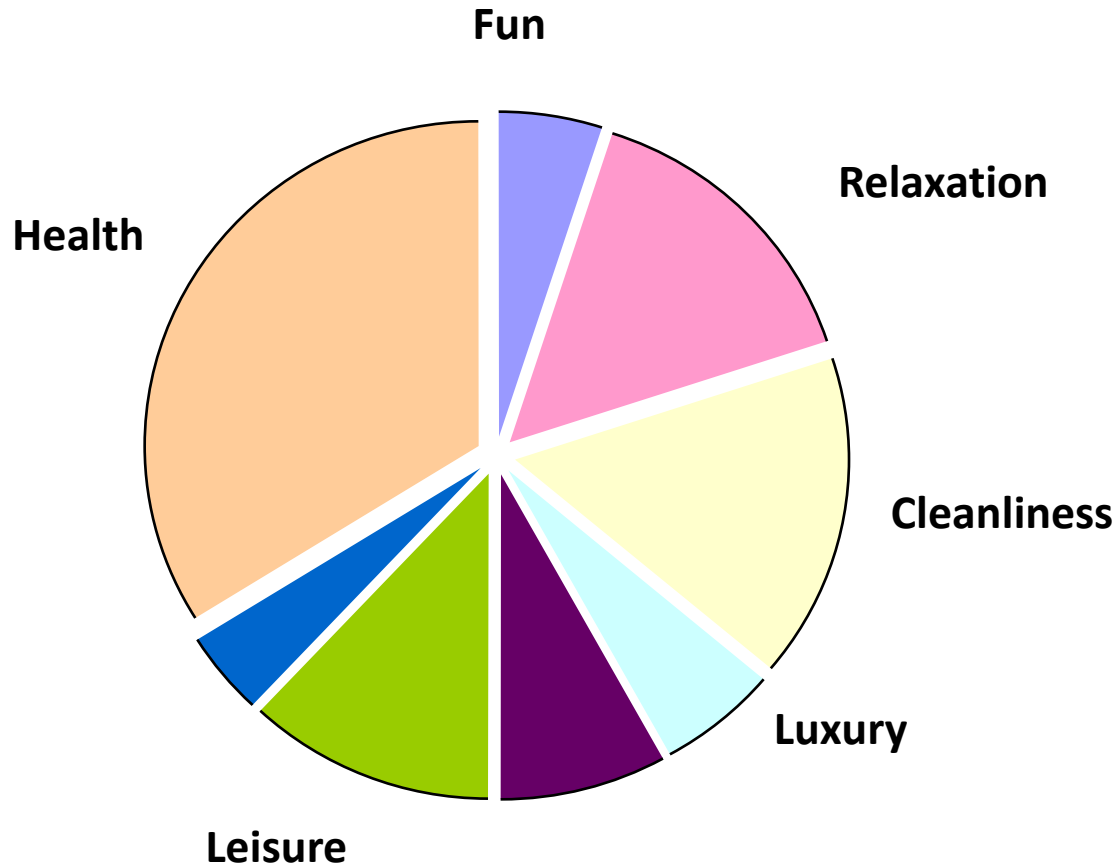


What if there were only 20 litres, how would they be used?



Second round exercise, or is this better for the 'stand'/exhibition?

Household water use by 'service'?



Professor David Butler

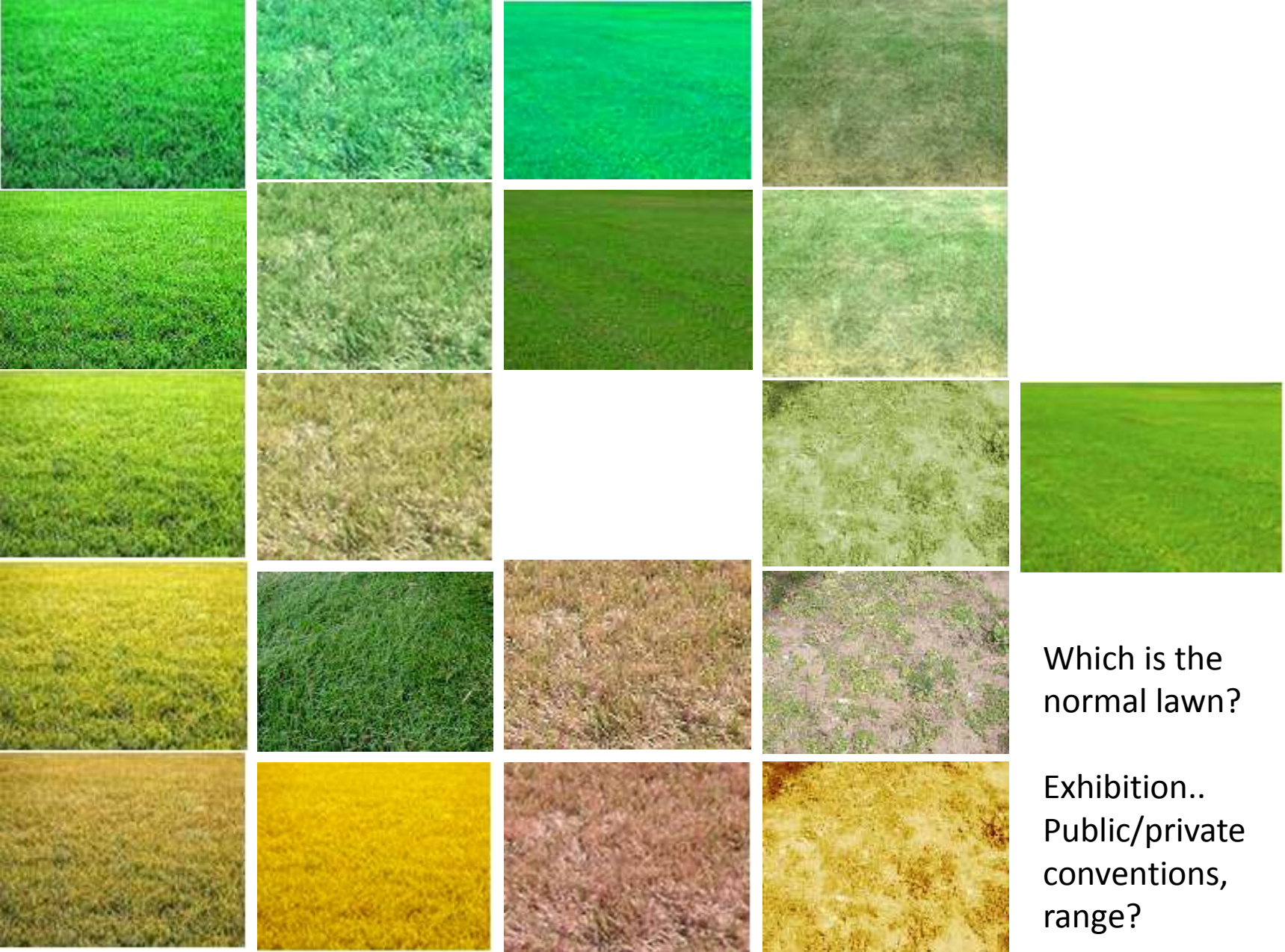
Centre for Water Systems, Exeter
University



Does it make sense to talk of water – this is garden water

A photograph of a playground area. In the foreground, there is a large, flat, greyish-brown surface, possibly a soccer field or a paved area, with some sparse green grass. In the background, there is a swing set with orange seats and a metal frame. To the right, there is a soccer goal and a soccer ball on the ground. The background also shows some greenery and a fence.

Demand as an outcome of practice



Which is the normal lawn?

Exhibition..
Public/private conventions, range?

Relatively new stuff	
Hoselock/fittings	Wash stand
Paddling pools	Basin in bathroom
Sprinklers	Toilet size
Drip irrigation	Bidet? Plumbed in.
Aquaria, hot and cold	
Washing machines	
Shower	
Dishwasher	
Icemaker	
Central heating	
Coffee machines	
Toilets	
Underfloor heating	

Opportunities to
consume
Infrastructures of
flowing and containing

The water history of a house

1800 - 1920? collect water from a pump (there are still a couple left in the town)

1920 - water from a tap in the yard; outside toilet

1930s - indoor water in kitchen lean-to, outside toilet

1960s - indoor bathroom, ground floor (our row of houses was condemned in the 1950s but saved by a local builder whose wife still lives opposite)

1970s - plumbed washing machine, outside tap for garden (so full circle from only source of water, to unnecessary, to "vital" bit of gardening kit)

1970s - central heating

2006 - upstairs bathrooms, dishwasher (whether chosen or imposed - who knows?)

2010 - well, I can't think of anything we want but who knows what we or the next owners will do?

Important point, but how to make it tangible?

Dynamic
routines

Once a
week

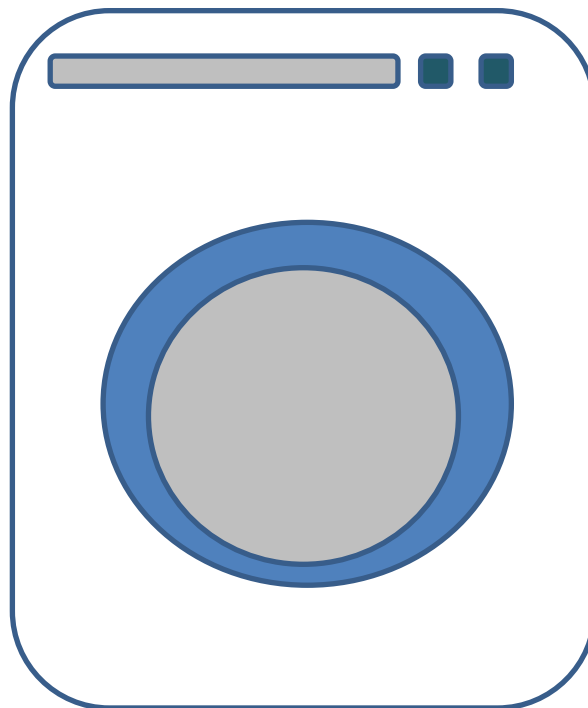
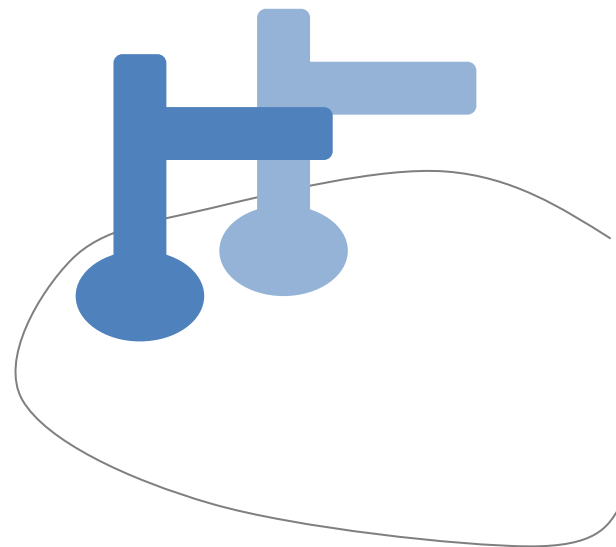
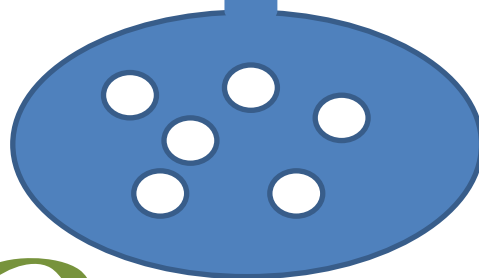
Almost
once a day



Picture by Elaine Nason

How long does it take to use 75 litres of water?

Minutes per litre



Beyond the meter...



Audience: water companies, policy

Academic

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Litres per practice and how this changes and varies

How do conventions – e.g. The green lawn become established, what is 'normal'

How to make an 'act' from these resources and ideas?

What are the questions to ask?

What do measurements and methods obscure?

Conceptualising and representing diversity and change, and possibly explaining it..