# THE MATURING RESEARCH FIELD OF RESOURCE USE IN TOURISM

-THE CONCEPT OF DATA CLOTTING IN RESEARCH

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# TOURISM'S UNSUSTAINABLE RESOURCE USE

OFFICES
OR
HOMES

DESIGN + USERS AS SOLUTION







Consumes 242 MJ energy per night Emits 27 kg CO2-e per night Uses 660 litres of water per night

This study looks at the evolution of experimental research on reducing resource use in hotels





## Methods

Comprehensive search of the literature for

- experimental studies
- in tourist accommodation
- on water savings as PEB
- measuring actual behaviour

### Reported on

- the authors & year,
- location of the study,
- theoretical underpinnings,
- outcome variables

# FRAMEWORK: DATA CLOTTING

Related to the Domestication Theory in technology: where human agents learning to digest and appropriate a technology: 'a taming of the wild and a cultivation of the tame'

Smart tech in hotels need to be domesticated first – how to use it, and why, and what to do with it/about it

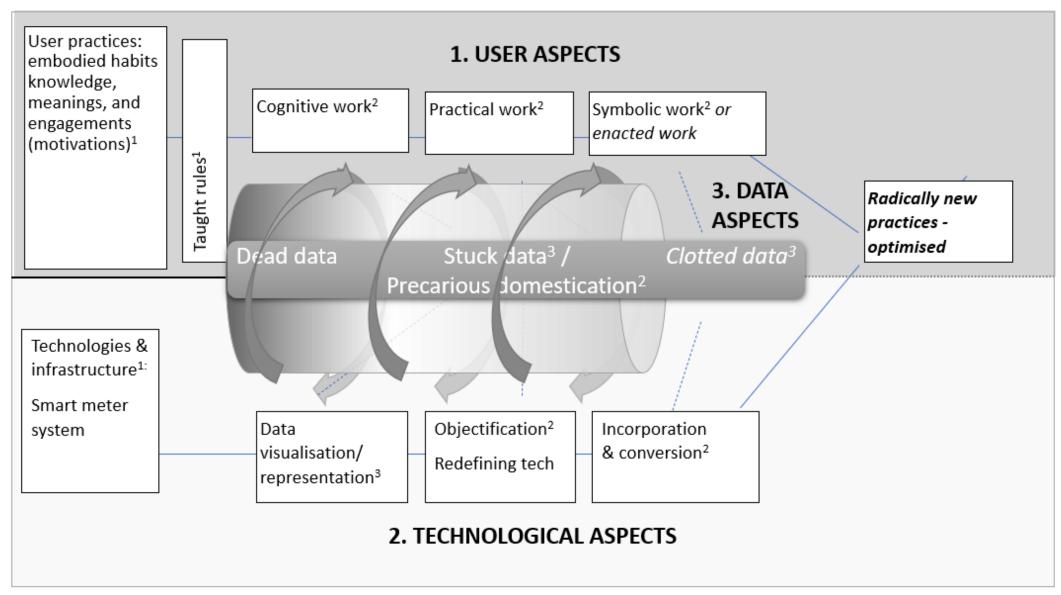
CLOTTING – refers to what happens to the smart tech data

- Does it die because no understands it?
- Does it get stuck because no one knows what to do with it?

### or

 Does it clot as people make connections with infrastructure and/or practices, and can see pathways to change outcomes?





Taken from Coghlan, Becken & Warren (2022): Modelling a smart user tech journey towards decarbonising tourist accommodation. *Journal of Sustainable Tourism*, <a href="https://doi.org/10.1080/09669582.2022.2030344">https://doi.org/10.1080/09669582.2022.2030344</a>

|    | Authors/year                  | Setting               | Theory  | PEB                        |
|----|-------------------------------|-----------------------|---|----------------------------|
| 1  | Goldstein et al., 2007        | USA hotel             | Norms   | Towel reuse                |
| 2  | Goldstein et al., 2008        | USA hotel             | Norms   | Towel reuse                |
| 3  | Shultz et al., 2008           | Resort                | Norms   | Towel reuse                |
| 4  | Mair & Bergin-Seers, 2010     | Aus Motels            | Norms & incentives                              | Towel reuse                |
| 5  | Beca-Motes et al., 2012       | USA hotel             | Commit & signals                                | Towel reuse                |
| 6  | Bohner & Schluter, 2014       | German hotel          | Norms   | Towel reuse                |
| 7  | Terrier & Marfaing, 2015      | Swiss hotel           | Norms & commit.                                 | Towel reuse                |
| 8  | Reese et al., 2015            | Alpine resorts        | Commit. & persuasive comm.                      | Towel reuse                |
| 9  | Morgan & Chompreeda, 2015     | Thai Resort           | Norms & incentives                              | Towel reuse                |
| 10 | Dolnicar et al., 2017         | Slovenian Ecohotel    | Appeals, humour, cognitive dissonance           | Towel reuse & electricity  |
| 11 | Warren et al., 2017           | Aus rural self-cater. | Norms & incentives<br>Pers. comm. &<br>feedback | Cottage water use          |
| 12 | Joo et al., 2018              | Korean hotel          | Norms & incentives                              | Room water use             |
| 13 | Perreira-Doel et al., 2019    | Spanish hotel         | Feedback  | Showertime                 |
| 14 | Tiefenbeck et al, 2019        | Swiss hotels          | Feedback  | Towel reuse & linen change |
| 15 | Gössling et al., 2019         | Spanish hotels        | Norms   | Towel reuse & linen change |
| 16 | Leon & Arana, 2020            | Hol. Apart-ments      | Personal comm.                                  | Towel reuse & linen change |
| 17 | Dolnicar et al., 2019         | Slovenian hotel       | Equity theory & VBN                             | Room cleans                |
| 18 | Kenzevic Cvelbar et al., 2021 | Slovenian hotel       | VBN & default settings                          | Room cleans                |

# RESULTS



# Progression of research & types of work?

**Towel reuse** 2007 -2015

**Towels** (& electricity?) 2017

Whole room/ cottage water use 2017 - 2018

**Towel reuse &** linen change 2019 - 2020

Shower time 2019

simple./single behaviour

Energy/water nexus?

Holistic guest beh.

Guest beh. + supply chain Room cleans 2019 – 2021

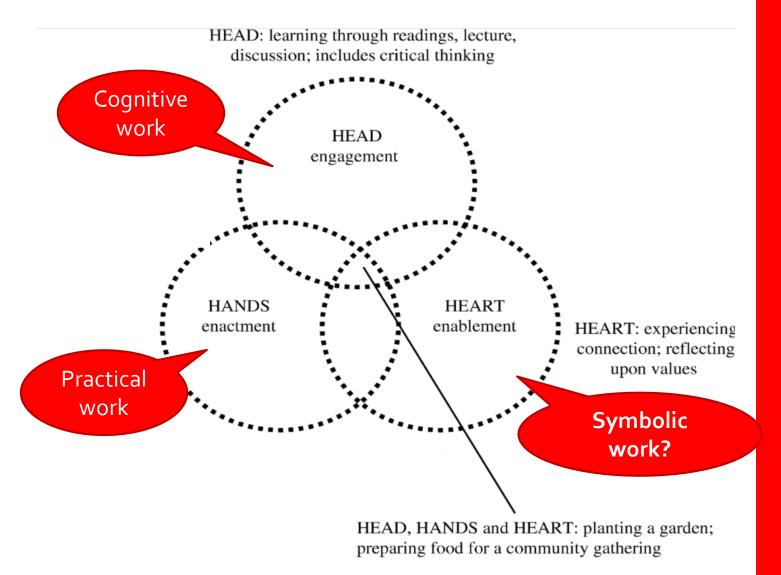


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# Symbolic work:

incorporating the data into the researchers' identities, e.g. moving from a reductionist approach to measurement to one that understands the holistic system of production and consumption.

This highest level of work represents a significant shift and might involve how the researchers approaches the question of data and knowledge and what these can tell us to make necessary changes.



Taken from Sipos et al. (2008)

Why does symbolic work matter?





# TELLUS WHAT YOU THINK SYMBOLIC WORK LOOKS LIKE

