

Clean Technologies and Recycling, 2(4): 199–224. DOI: 10.3934/ctr.2022011 Received: 03 August 2022 Revised: 17 October 2022 Accepted: 21 October 2022 Published: 08 November 2022

http://www.aimspress.com/journal/ctr

**Research** article

## Determinants of the adoption of tiny houses and their role in alleviating housing shortages in Germany

Véronique Vasseur<sup>1,\*</sup>, Jessica Sing<sup>1</sup> and Samuel W. Short<sup>1,2</sup>

- <sup>1</sup> Maastricht Sustainability Institute, School of Business and Economics, Maastricht University, Tapijn 11 Building D, P.O. Box 616, 6200 MD Maastricht, The Netherlands
- <sup>2</sup> IfM Engage, Department of Engineering, University of Cambridge, 17 Charles Babbage Road, Cambridge CB3 0FS, UK
- \* Correspondence: Email: veronique.vasseur@maastrichtuniversity.nl.

## Supplementary

Questionnaire Translation

Q1 Have you heard about tiny houses before?

- Yes
- No
- Not sure

Q2 Where did you hear about tiny houses? (only if Q1 is yes)

- Family or friends
- Media
- I don't remember
- Other:

Q3 Do you already live in a tiny house? (only if Q1 is yes)

- Yes
- No
- I am in the process of planning/building one

Q4 Please indicate to what extent you agree with these statements (1-7 Likert scale: 1 = strongly disagree, 2 = disagree, 3 = somewhat disagree, 4 = neutral, 5 = somewhat agree, 6 = agree, 7 = strongly agree)

- I intend to move into a tiny house in the future
- tiny homes are aligned with my desire to live and consume sustainably
- tiny houses offer freedom that regular housing cannot provide
- I appreciate the minimalism that tiny houses bring in terms of living space and possessions
- A strong sense of community is important for me
- My social environment (family and friends) would support me if I moved into a tiny house
- I follow my dreams no matter what my social environment thinks.
- Moving into a tiny house could help me with my financial situation
- My family situation would allow me to move into a tiny house
- I think it would be easy to find a plot and overcome legal hurdles
- COVID-19 has positively influenced my view of tiny houses
- I see myself as an environmentally-friendly consumer
- I am concerned about climate change

Q5–Q8: only show the questions to people indicating that they live in TH already

Q5 What are the biggest advantages of tiny house living for you? Open answer

Q6 What are the biggest disadvantages of tiny house living for you? Open answer

Q7 How did reality and expectation of living in a tiny house differ? Open answer

Q8 How satisfied are you with living in a tiny house? (1-7 Likert scale: 1 = very satisfied, 2 = satisfied, 3 = rather satisfied, 4 = neutral, 5 = rather dissatisfied, 6 = dissatisfied, 7 = very dissatisfied)

Q9 How old are you? Open answer Q10 What is your gender?

- Female
- Male
- Diverse

Q11 What is your martial status?

- Single
- Married/ in a relationship
- Divorced
- Widowed
- Other:

Q12 How many children under the age of 18 do you have?

- 0
- 1
- 2
- 3
- More than 3

## Q13 What is the approximate size of your current accommodation in m<sup>2</sup>? Open answer

Q14 How many people are currently living in your accommodation?

- 1
- 2
- 3
- 4
- More than 4

Q15 Which of the following categories best describes your occupational status?

- Fulltime employee
- Part time employee
- Retired
- Student
- Disabled, unable to work
- Unemployed
- Self-employed
- Other: \_

Q16 Can you work from home? (display if retired/unable to work/unemployed is not selected)

- Yes
- No
- Sometimes

Q17 What is your highest level of education?

- Basic secondary education
- Secondary education
- Academic secondary education
- Bachelor
- Master
- PhD
- Other:

Q18 What is your average monthly income after taxes?

- <500€

- 500–999€
- 1000–1499€
- 1500–1999€
- 2000–2499€
- 2500–2999€
- 3000–3499€
- 3500–3999€
- 4000–4499€
- 4500–4999€
- >5000€
- No indication

Q19 How would you describe your political orientation?

- Slider from left (0) to right (10)



© 2022 the Author(s), licensee AIMS Press. This is an open access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/4.0)