

Digitalization as a Lever for Sustainability

WG4: Sharing Things

1. Mobility

- a. Car sharing: person to person - reservation is expensive and sometimes inconvenient, because you have to go to a far place to pick a car up, hygiene problems, cleaning services
- b. Share taxis and cars, e.g., uber, lyft
- c. mitfahrgelegenheit, blablacar - sometimes you are forced to talk (comfort zone)
- d. Scooters - the problem is that they don't last very long and end up at the sides of the streets and become a garbage
- e. Bicycles - availability, unlocking codes don't work, technical difficulties, overload of a system when there is a huge simultaneous demand to book a bicycle, scooter or car

2. Knowledge

- a. Practical tips on how to build things without losing energy, material, time.
- b. Exchange of books: bring your books and get other books for yourself
- c. Exchange of journals
- d. Sharing experts
- e. Measures: temperatures, level of pollution , NO2

3. Time and space

- a. offering possibilities for people to spend time together, e.g., people are lonely
- b. public gardening - sharing parts of a public garden to grow own veggies and fruits
- c. Public makerspace
- d. Sharing co-working space
- e. Sharing personal parking spots
- f. Metaverse
- g. Couchsurfing and airbnb - sharing personal things, lower expectation for service compared to airbb, boom for a tourism rather than solving ecological problems? No room service

4. Physical goods

- a. Sharing tools, technical parts, e.g., a drill machine - sharing locally on the level of neighborhoods
- b. Animal sharing
- c. sharing clothes for parties, festivals, weddings.

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- d. Sharing food: TooGoodToGo
- e. Calculation capabilities, e.g., a PC of your neighbor to do a calculation

5. Services

- a. Energy sharing: Sun cloud
- b. Investments
- c. Human service, e.g., babysitter, cleaning service

Problems with above services

1. Time load
2. Costs
3. Hygiene
4. Responsibility
5. Reliability
6. Organisational load
7. Trust
8. Comfort and fear
9. Social expectations
10. Communication load
11. Frustration with bad experiences
12. Visibility of services
13. Business Model is unclear or unknown
14. Anonymity
15. Breaking things
16. Knowledge and transparency about availability
17. Social credit
18. Flexibility of using/sharing things

Possible solutions

1. Increase transparency about the services and processes, possible checkboxes with requirements
2. Changes in processes to reduce load, coordination, organization, e.g., DHL station can be a place for an exchange of used goods
3. Chat bots to automate the exchange of goods on the platform of used goods, e.g., ebay-kleinanzeigen
4. Investment enforcement
5. Peer2peer automated decentralized second hand sharing - automatic delivery of drones
6. Selling things back within a particular time frame, e.g., I can sell back my smartphone within the next 2 years