

# **Co-Design and Shared Waste Collection Systems**







# **WASTEMAN Final Conference**

David Christensen Project Manager, BOFA June 30, 2022



#### An overview...











#### **WASTEMAN**

Transition from 5 to (at the time an unknown number of) waste fractions collected at household level

Transition from door-to-door-systems to ??? in midieval town centers

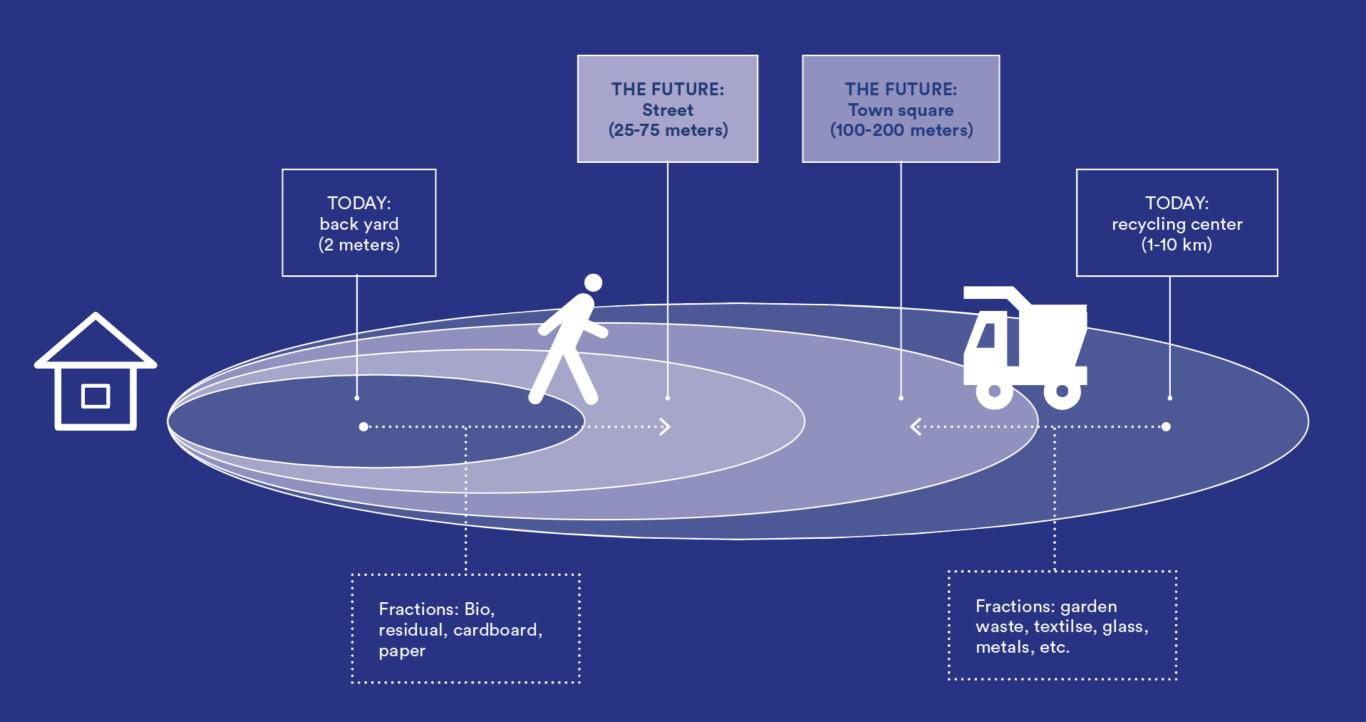








#### 'The Concept Figure' — meeting in the middle

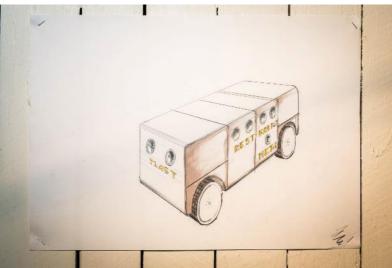




# Design Manual for Circular Change

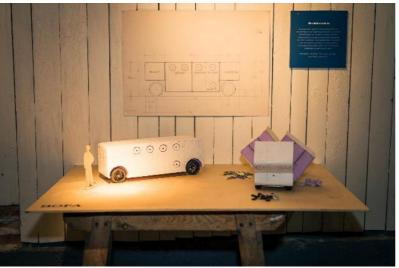
# **Co-Design Process**

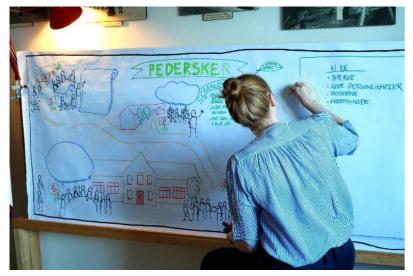




























### **Living Labs**

- Location: Gudhjem og Pedersker
- Duration: Start mid-October 2020 and 10 weeks total
- Different prototypes:
  - . Mobile
  - Stationary

































## **Analyses**

- Waste collection and analysis
- Interviews before and questionnaire afterwards
- Socio-economic assessment



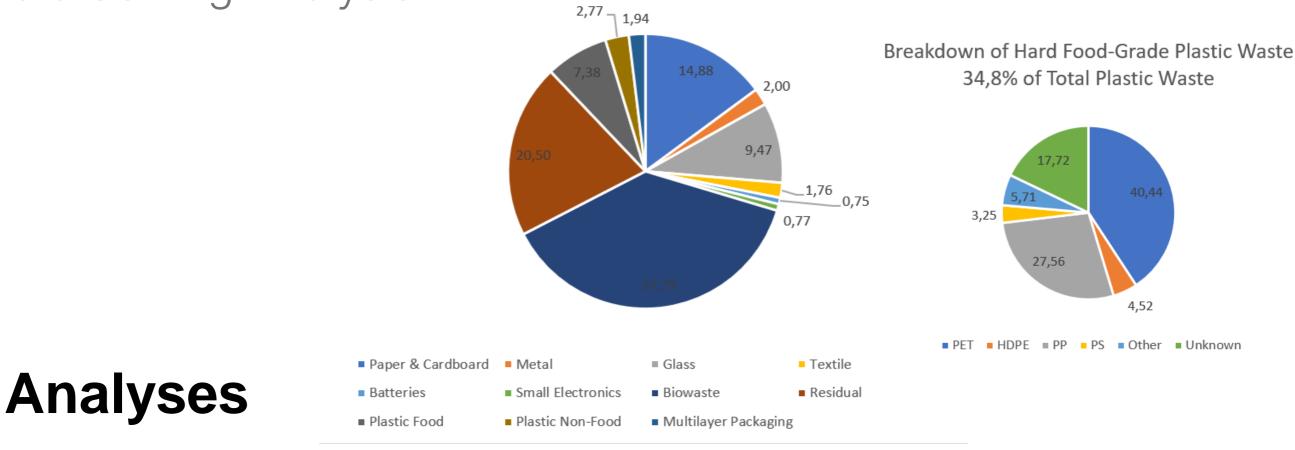








Waste Sorting Analysis: Average Breakdown of Household Waste



#### Socio-Economic Assessment:

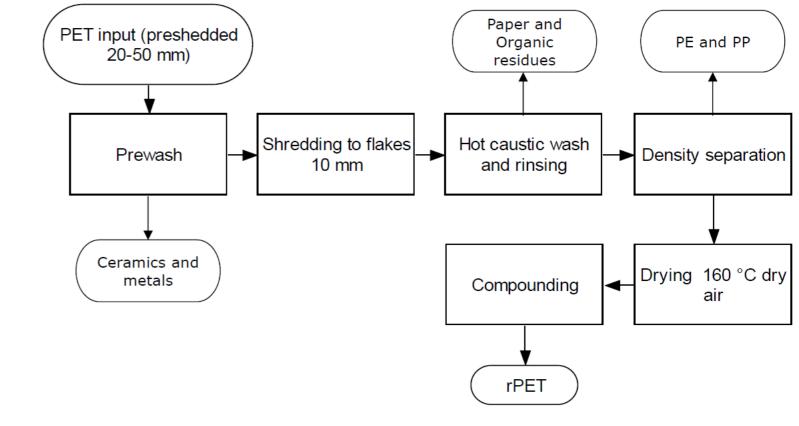
"The result is negative which implies that this solution is not economically feasible. However, it does not take into consideration the soft factors and environmental benefits."



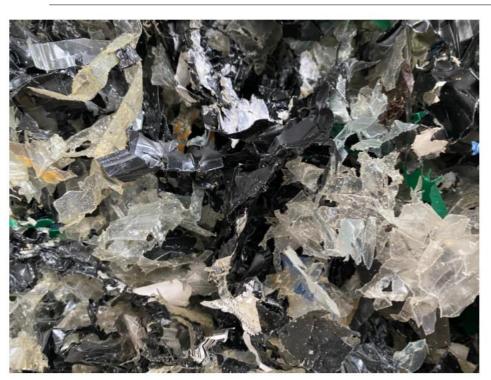








## **Analyses**



















## New Waste Collection Schemes through Innovative Public Procurement



- Tender with negotiation awarded to HCS
- 12 waste fractions (cardboard, paper, food and beverage cartons, plastic, metal, glass, textiles, food waste, residual waste, hazwaste, small-sized electronics, batteries)
- Contract length up to 11 years and 3 months
- Award criteria 50% price(!), 50% quality
- Innovative partnerships as part of the contract(!)









# **Shared Waste Collection Systems** "MiljØere" – 100+ locations on Bornholm













# **Second Life for the Prototypes**















#### People's Democracy Festival 2022 on Bornholm

Panel Debates













Breakfast with the Danish Minister for the Environment









#### Tak!

David Christensen Project Manager

Tlf. 29 13 77 72 Mail <u>dc@bofa.dk</u>







