

Camilla Hedegaard Møller Head of Programme. Associate Professor, PhD, Architect MAA, MDL, The Royal Danish Academy





Circular Economy in the Danish Furniture Industry

PhD fellow: Aroop Ratan Guha Supervisors: Camilla Hedegaard Møller & Nicolai de Gier



SUPPORTED BY







Det Kongelige Akademi

TRÆETS UDDANNELSES-OG UDVIKLINGSFOND

Det Kongelige Akademi

Furniture Seminar 2024

PROJECT SUPERVISORS



Camilla Hedegaard Møller Head of Programme. Associate Professor, PhD, Architect MAA, MDL, The Royal Danish Academy

Professor MSO, Head of Programme, Furniture Design – Products, Materials and Contexts, The Royal Danish Academy





Nicolai de Gier

WHO AM I?



Aroop Ratan Guha PhD Fellow at the Royal Danish Academy, MA Strategic Design & Entrepreneurship

MY JOURNEY SO FAR

2012 **Bachelor of Design in Furniture Design** at the National Institute of Design, Ahmedabad, India 2017 **Projects in Handicraft designs** 2018 Furniture Design practice at a design studio, New Delhi 2020 Ô M.A in Strategic Design & Entrepreneurship at the Royal Danish Academy, Copenhagen 2022 **Research Assistant at the Royal Danish Academy, Copenhagen** 2023, November PhD in Circular Economy in the Danish Furniture Industry

HANDICRAFT WORK





FURNITURE WORK









WHY AM I INTERESTED IN DANISH FURNITURE?



TIME FOR A SHORT; **BUT VERY INTERESTING STORY**

Det Kongelige Akademi



INTERESTING STORY

In the 1970s-1980s



My teacher





My teacher's teacher

Source: Phantom Hands



Source: Paustian

Circular Economy in the Danish Furniture Industry

Why this topic?



Circular Economy in the Danish Furniture Industry

Why this topic?



Circular Economy in the Danish Furniture Industry

Why this topic?

- Upcoming EU legislations listed in 'Ecodesign requirements for sustainable products' and it's repercussions for the industry & designers
- How can the industry prepare for that?
- What kind of knowledge is missing?
- The precise EU legislations for furniture are not public yet, it leaves many uncertainties

IGHAL (DPP)





Source (left to right):

European Union, 2024 (https://www.europarl.europa.eu/thinktank/en/document/EPRS_BRI(2022)733524, European Commission, 2024 (https://commission.europa.eu/energy-climate-change-environment/standards-tools-andlabels/products-labelling-rules-and-requirements/sustainable-products/ecodesign-sustainable-products-regulation_en

Our objectives

- Publish research-based findings on circularity, barriers, and potentials in relation to the Danish Furniture Industry and the future role of the furniture designer.
- Communicate the research to the industry, professional furniture designers and design students through international and Danish publications.
- Bringing together actors from various sectors and professions in value creating activities (such as workshops, design sprints, webinars etc.)

RESEARCH METHODS

- Desktop research
- Qualitative and Empirical research
- Collaborative processes and practices
- Dissemination



THEORETICAL FRAMEWORK



Circular Economy





Actor-Network Theory

WHAT'S PLANNED

Spring

Work Package 1. The Danish Furniture Industry. Data Collection

Booklet 1 -Stakeholders in the industry.



Spring

Design Practices

Booklet 2

Research Paper 2

Fall

Work Package 2. Circular Economy

Project on LCA

Research Paper 1



Fall

for Furniture

Booklet 3

Research Paper 3











- Project on making a guidelines for 'EU Ecolabel for furniture'. Fall 2023.
- Participants: Danish furniture companies & students from SDE.



Royal Danish Academy







Design Principles & Practices



- Industry' in Valencia, Spain.
- partners from the project 'Guidelines to the EU Ecolabel for furniture'.

Det Kongelige Akademi

Paper presentation titled 'Notions of the EU Ecolabel in the Danish Furniture

Paper based on observations from the activities and interactions with industry









- **Circularity : A Cross-Disciplinary Field**
- have in terms of CE.

 Paper titled : Where Architecture & Furniture Design Overlap in Terms of Analysing the codependencies the fields of architecture and fruniture can

WHAT WE ARE WORKING ON NOW











Lifecycle Analysis for Furniture: Environmental Product Declaration (EPD) methodology vs Product Environmental Footprint (PEF) methodology





WHAT WE ARE WORKING ON NOW



WHAT WE ARE WORKING ON NOW

- The 'WHEEL OF FOOTPRINTS', currently in development
- We need your feedback on it

If you're interested, please register by scanning the QR code



PLA

Lifestyle & Des



If you're interested, please register by scanning the QR code



Please feel free to reach out. Email: aguh@kglakademi.dk



QUESTIONS?

Furniture Seminar 2024