

DESIGN FOR SUSTAINABILITY RESEARCH GROUP



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DEPARTMENT OF PLANNING

TECHNICAL FACULTY OF IT AND DESIGN, AALBORG UNIVERSITY

Design for Sustainability (DfS) studies and engages in the creation of sustainable futures by cooperating with citizens, policy makers and other actors. We are particularly interested in advancing knowledge on the design of circular economy, the design of health care, and design of shifting valuations and markets that make sustainability count.

RESEARCH

KEY RESEARCH

Understanding conditions for designs for sustainable transition in a complex sociotechnical world with many stakeholders resisting change.

DfS is interdisciplinary and understands design processes as non-linear, involving multiple actors and subject to contestations that may shift both goals and designs through ongoing social and material interactions.

Main areas:

- › Staging collaborative design processes
- › Designing Circular Economy and responsible production
- › Design and shifting valuations and market arrangements for transitions
- › Designing systemic and sustainable transportation systems

WHAT WE DO

The group uses results to engage and activate stakeholders in more sustainable transitions by fostering dialogue and other forms of interaction amongst different lay people, professionals, and nationalities.

For example, within elderly health care and professionals working with valuations of future energy systems in the Energy Agency.

EDUCATION

STUDY RELATED ACTIVITIES

DfS is responsible for AAU's BSc and MSc engineering programmes in Sustainable Design.

DfS is also involved with other programs, notably Techno-Anthropology and Sustainable Cities.

COLLABORATION

EXTERNAL PARTNERS

Siemens-Gamesa Windpower, Mercedes-Benz, Saint-Gobain, CBS, DTU, TIK Center (Technology, Innovation and Culture) Oslo University, Monash University, Technical and Environmental Administration, City of Copenhagen, Danfoss.

PUBLICATIONS

SELECTED PUBLICATIONS

- › [From the Social Shaping of Technology \(...\) A Case of Participatory Innovation](#)
- › [Is life cycle assessment enough to address unintended side effects from Circular Economy initiatives?](#)
- › [Coupling material circularity indicators and life cycle based indicators...](#)
- › [Structural Optimization through Biomimetic-Inspired Material-Specific Application...](#)
- › [Staging negotiation spaces: A co-design framework](#)
- › [Engineering Readiness: How the TRL Figure of Merit Coordinates Technology Development](#)
- › [Staging Collaborative Design and Innovation](#)
- › [Building markets for clean technologies: Controversies, environmental concerns and economic worth](#)
- › [Governing system transitions in the context of scattered agency...](#)



AALBORG UNIVERSITY
DENMARK

KEY PROJECTS

PACE - PRO-ACTIVE CARE FOR ELDERLY WITH DEMENTIA

Project PACE brings elderly care homes into the digital age by applying sensors to improve the quality of life for senior citizens with dementia while also maintaining their privacy.

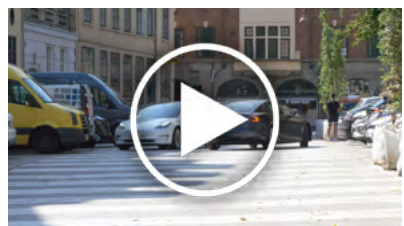
SUSTAINABLE PRODUCTION 3.0

Project that focuses on developing sustainable business strategies in 20 companies: <https://www.industriensfond.dk/Forretningsstrategier>

DYNPROB

Green transition through dynamics of problematizations: How forms of expertise influence the financial and social valuation of energy resources in Denmark. DFF project 2021-2024, funding 10,8 mill kr., collaboration between AAU, CBS and DTU.

VIDEO PRESENTATION



CONTACT

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