



Research Through Design as a Catalyst for Sustainable Development

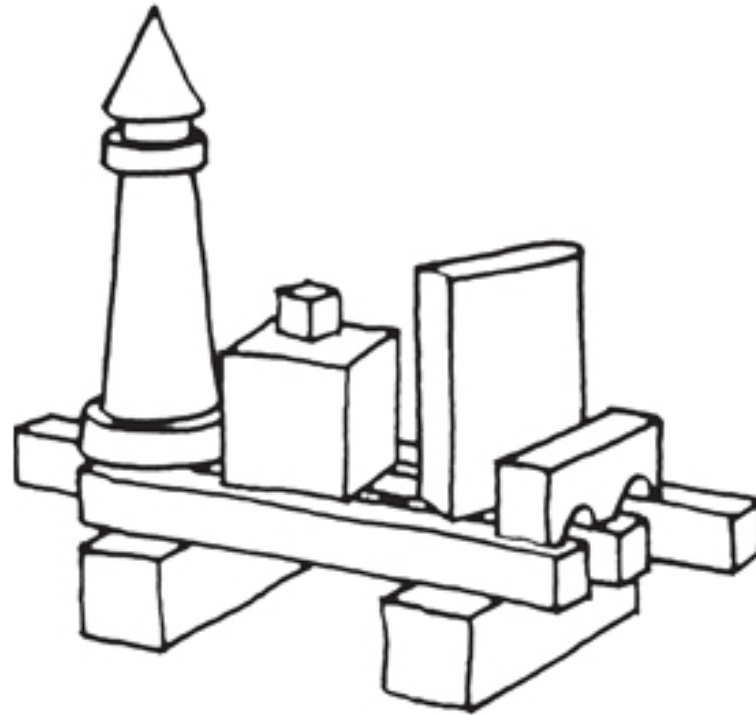
Mia Hesselgren and Loove Broms, Green Leap,
KTH Royal Institute of Technology

GREEN LEAP

KTH ROYAL INSTITUTE OF TECHNOLOGY



about green leap



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Design Research – Research Through Design

”Taking design as a particular way of thinking, and a particular approach to knowledge, which helps you to understand certain things that are outside design.”

– Christopher Frayling

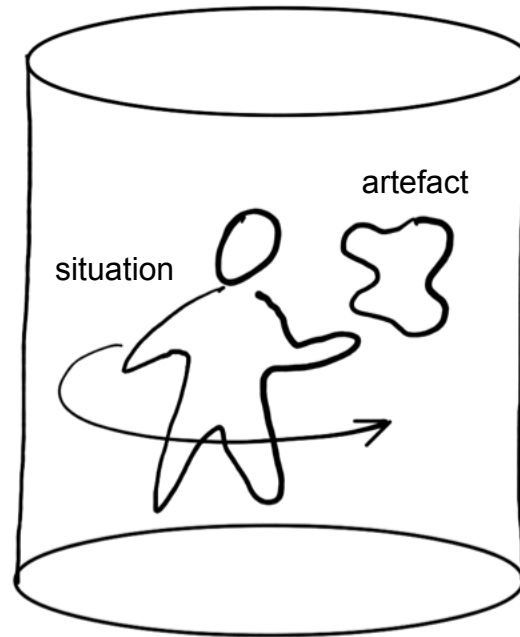






Acceptera (1931), Ilistedt (2002)

social
political
environmental
economic
cultural
technological

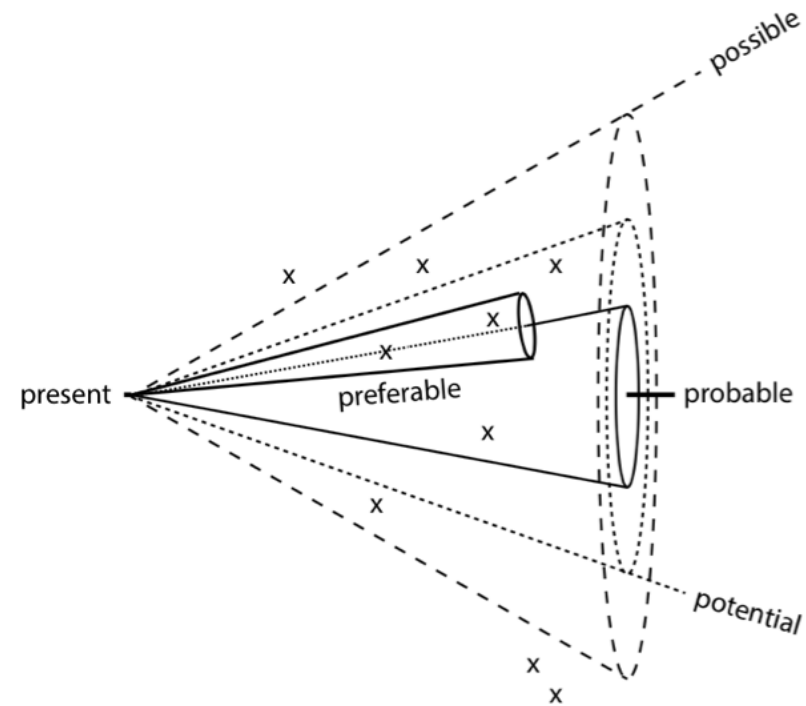


site



You'll buy more prepackaged foods. Some will have built-in chemical heating-cooling units. Just twist a knob and cook or chill foods right in the package! In restaurants, individual precooked dinners, preserved by irradiation, will be heated electronically in a few seconds.

the design space of futures



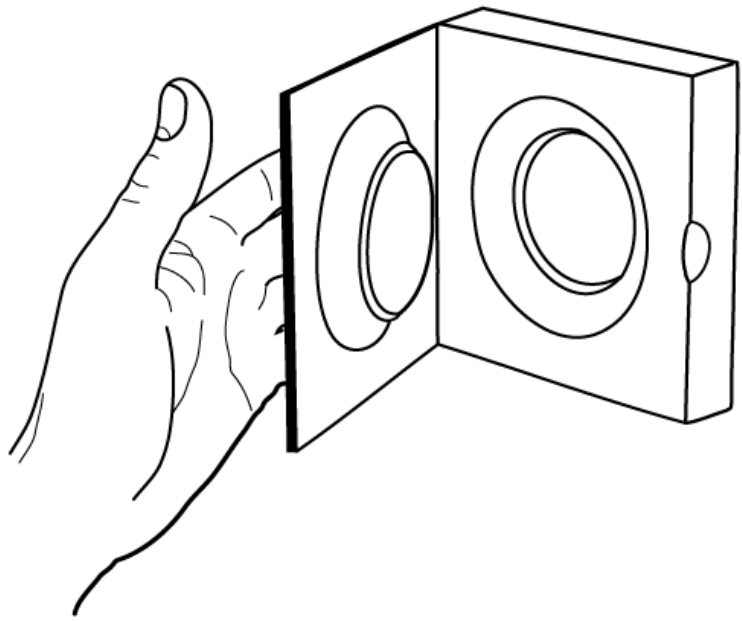
The design space of futures. Adapted from Charles W. Taylor (1990)
via Stuart Candy (2012) and Anthony Dunne (2013)

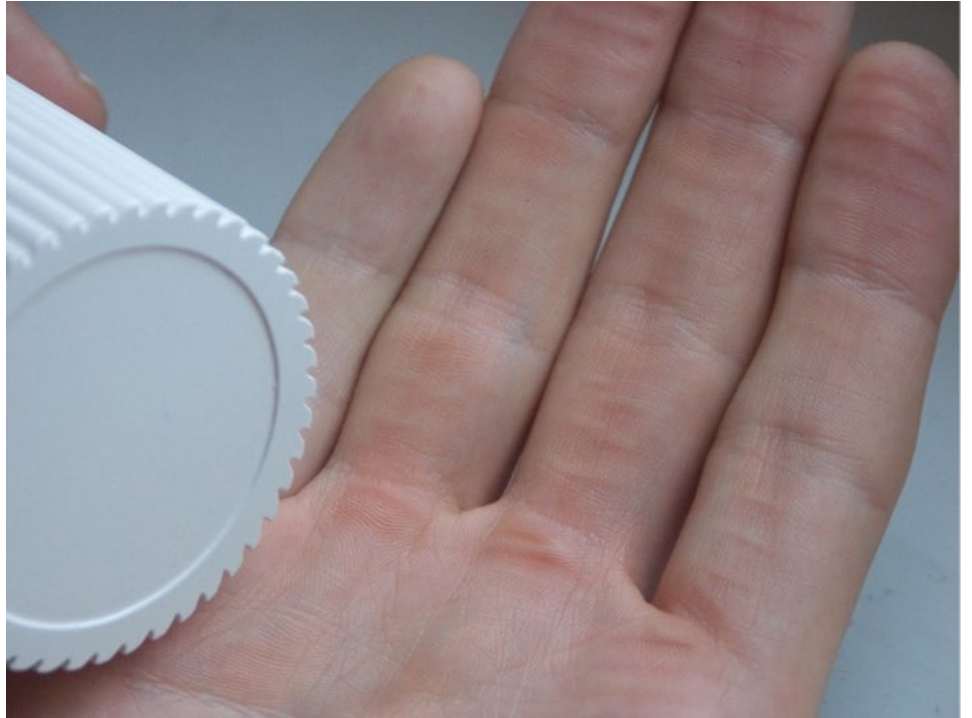


Broms, L. et.al. (2010). Coffee maker patterns and the design of energy feedback artefacts (pp. 93–102). Presented at the the 8th ACM Conference. (INTERACTIVE INSTITUTE)









exploring possible futures



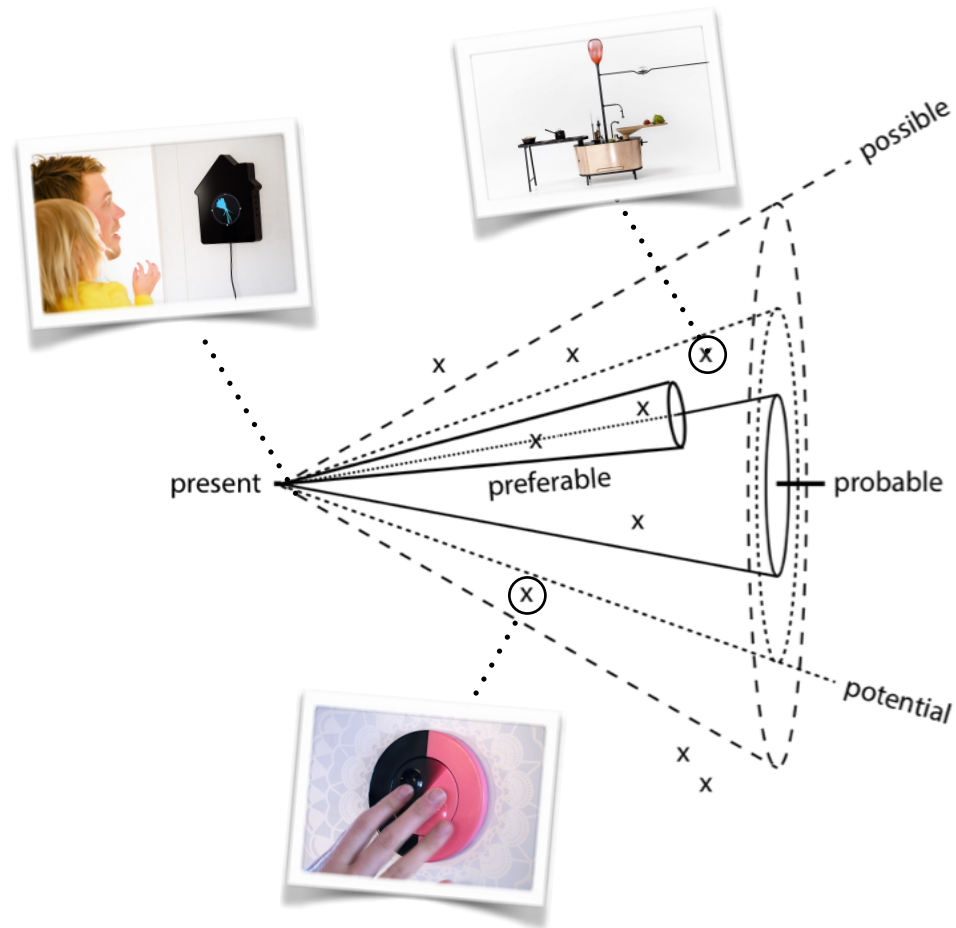
The BMW GINA Light Visionary Model, 2008

exploring possible futures



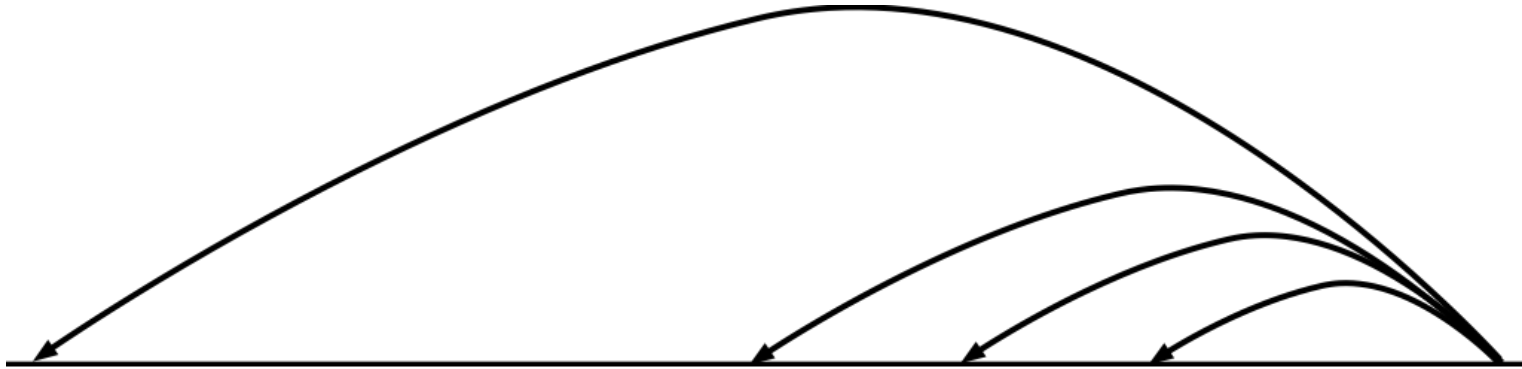
The Microbial Home, Philips' Design Probes program, 2011

the design space of futures

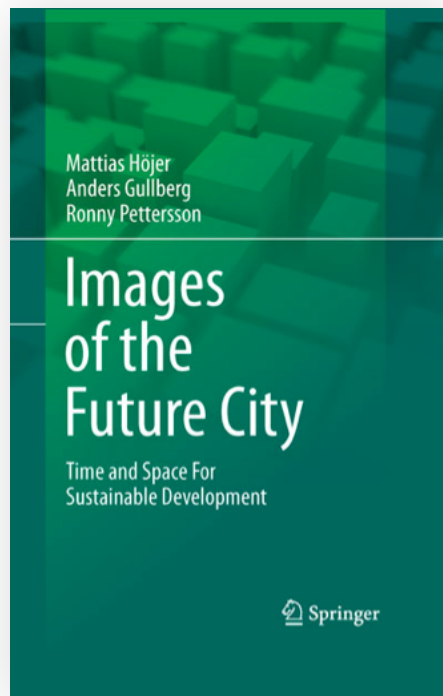


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backcasting



prototyping the future



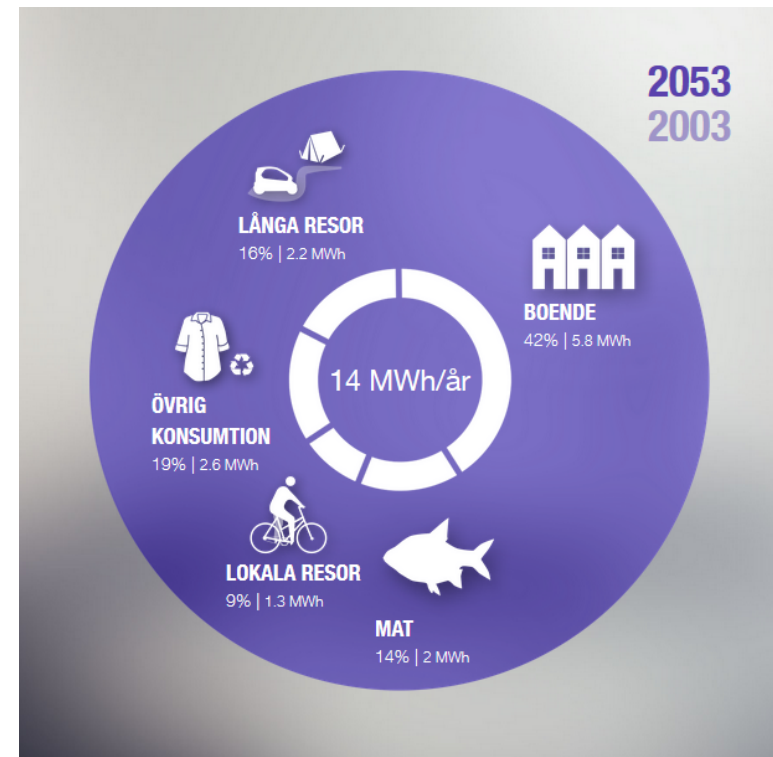
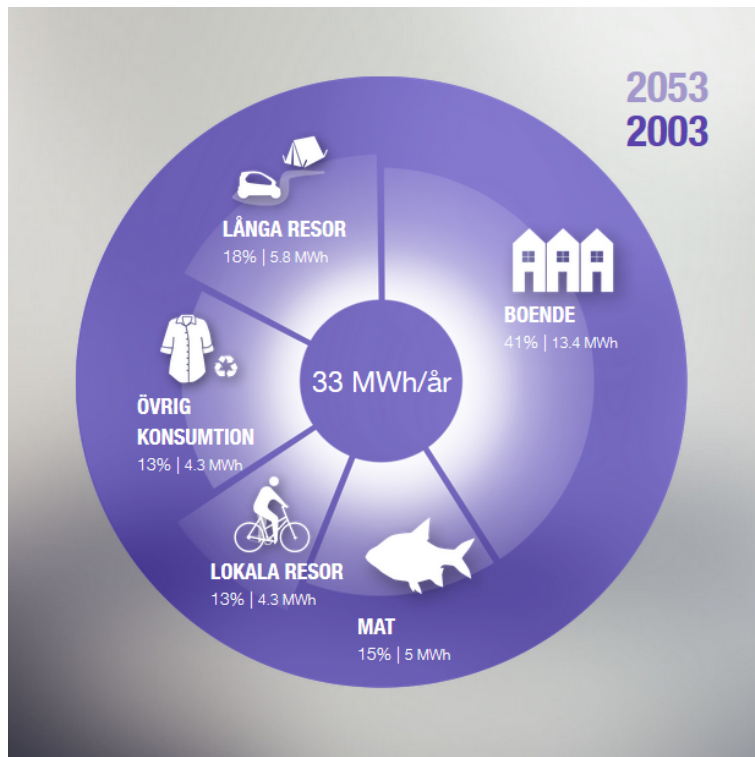
life2053.se

Utforska livet i en hållbar framtid
i en svensk storstad år 2053

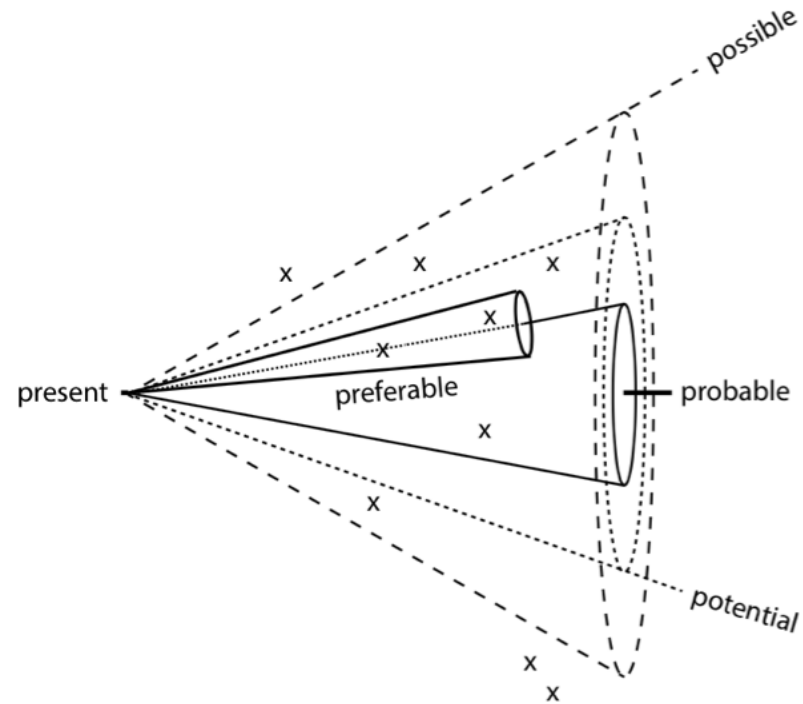
Projektet är genomfört på Green Leap, KTH med stöd från Energimyndigheten. Green Leaps mål är att verka som en katalysator för förändring genom att engagera design i hållbar utveckling.

 **GREEN LEAP**  Energimyndigheten  Veryday  StickyBeat

prototyping the future



the design space of futures

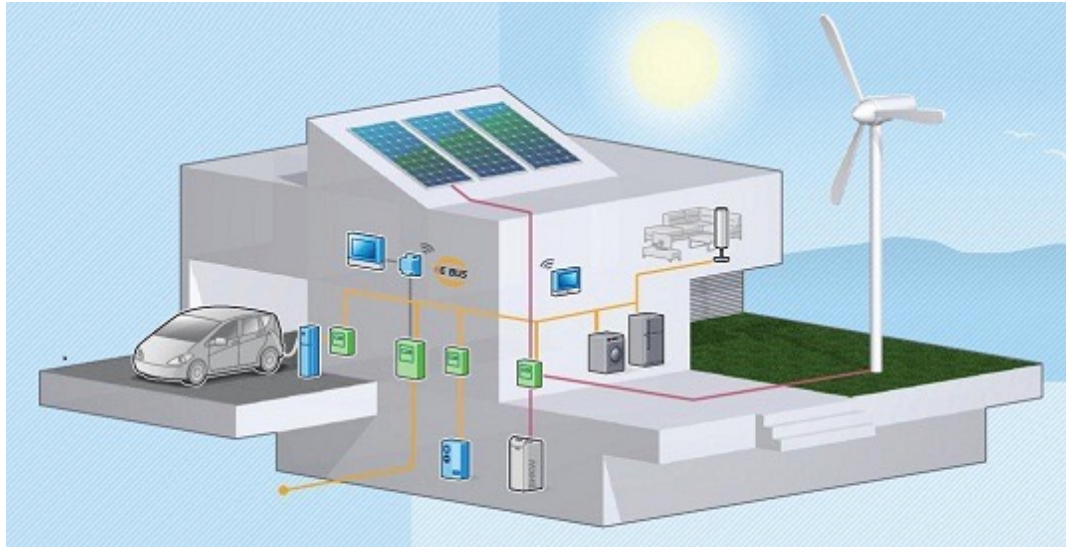


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via Stuart Candy (2012) and Anthony Dunne (2013)

Albano Sustainable Campus



technology and form





One Tonne Life



< Vision for Bromma airport



Royal Seaport

design themes



focal things



focal things

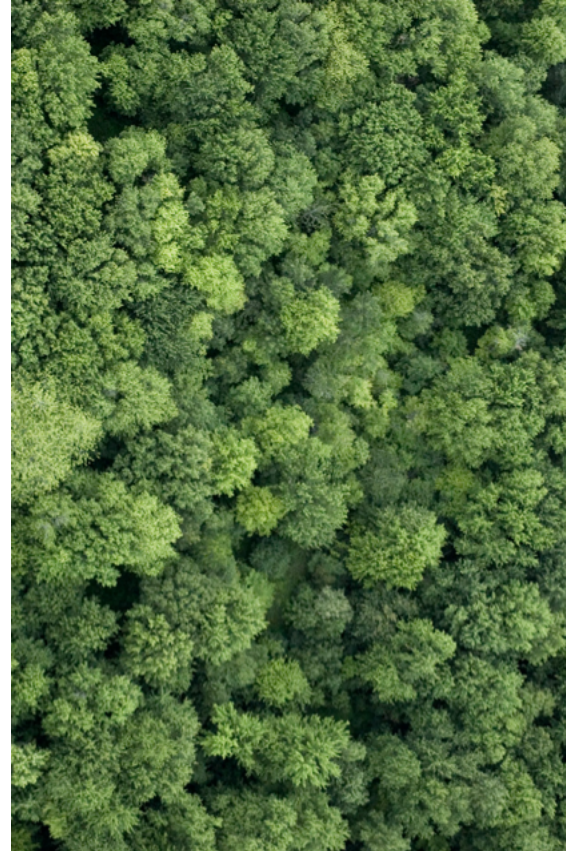


Borgmann, A. (1987). Technology and the character of contemporary life: a philosophical inquiry. *University of Chicago Press*, 310.

micro-sizing modernity



natureculture



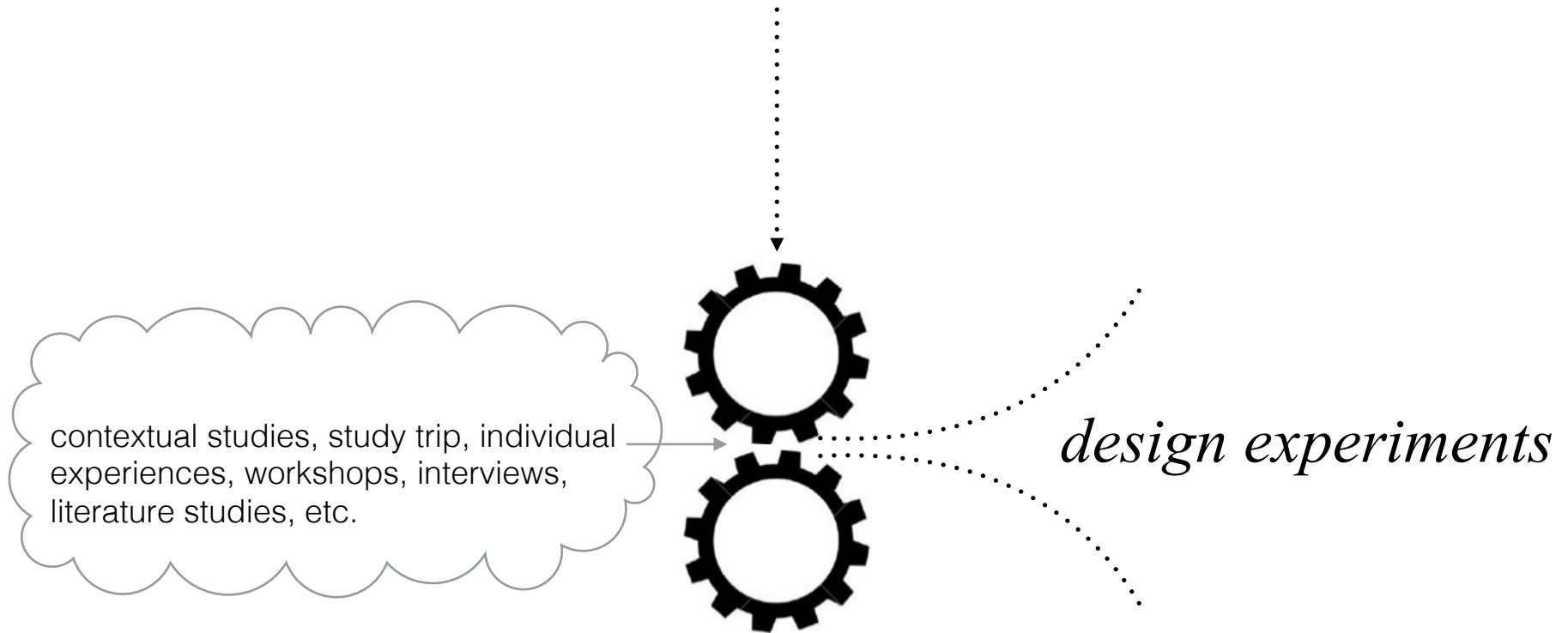
(Haraway 1991)

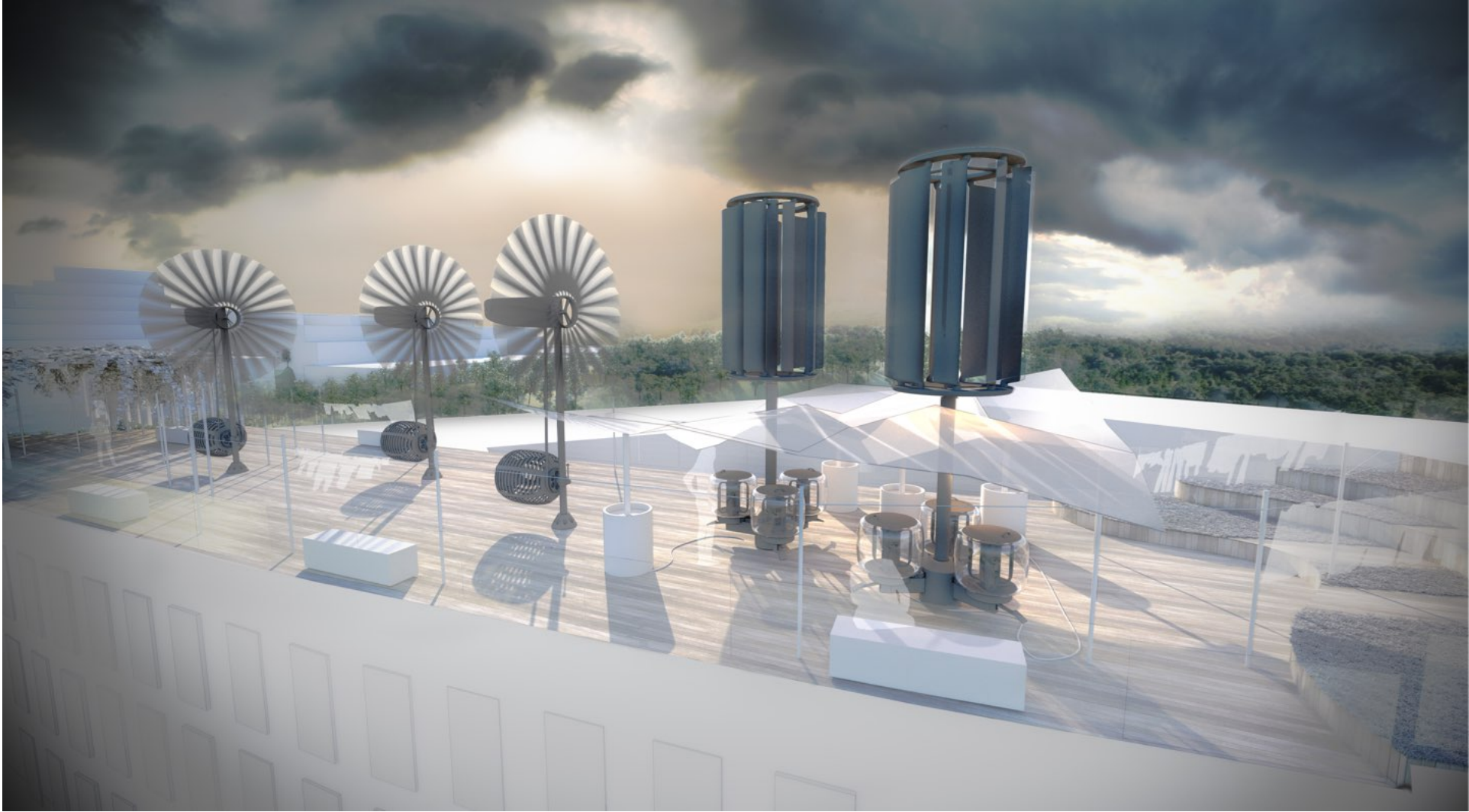
design programme



alternative narratives

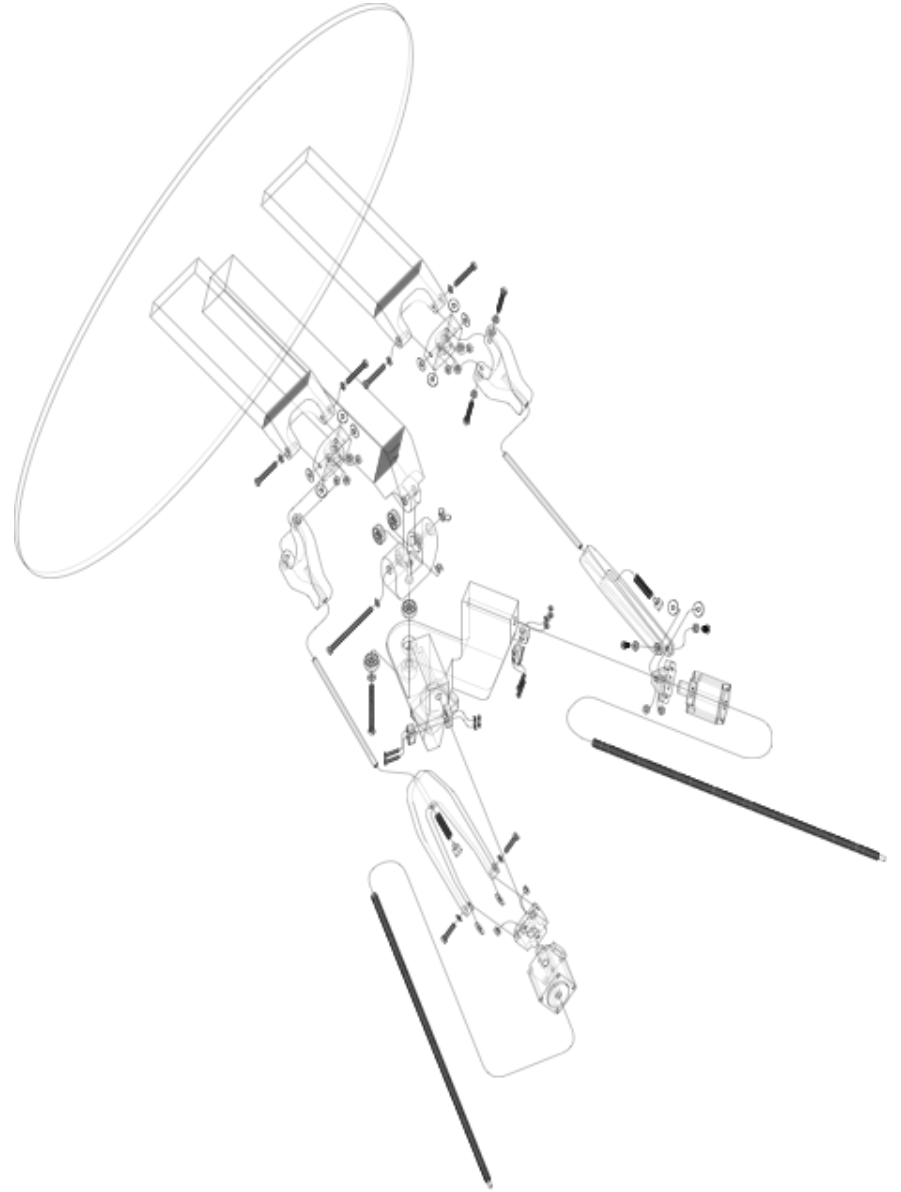
design programme





Heliostat

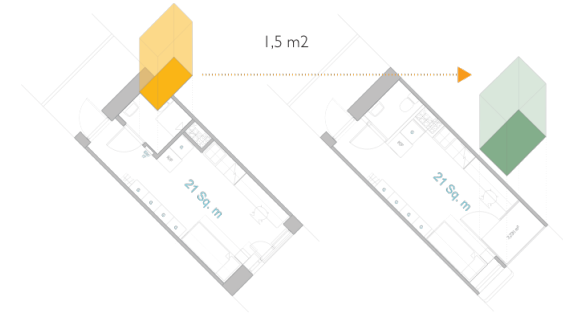
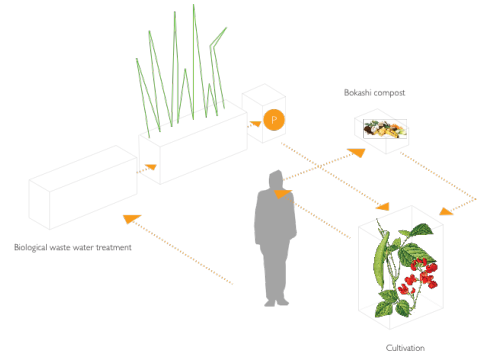




Biophilia 1

- Urban Farming





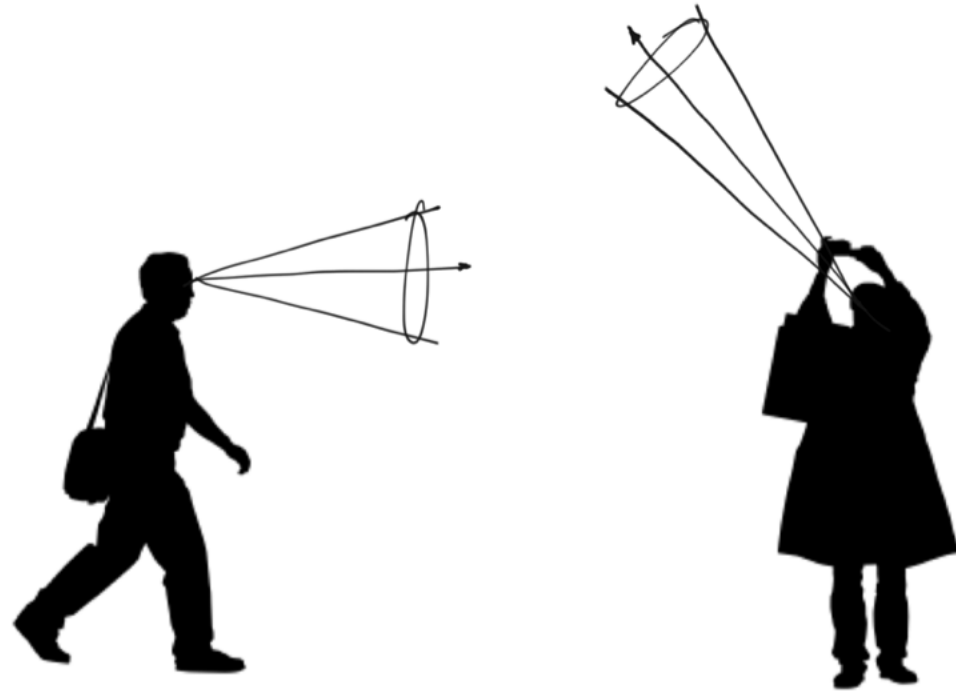
workshops with stakeholders



exhibition, seminars, press etc.



the design space of futures



thank you!