

A SUSTAINABLE HOME?

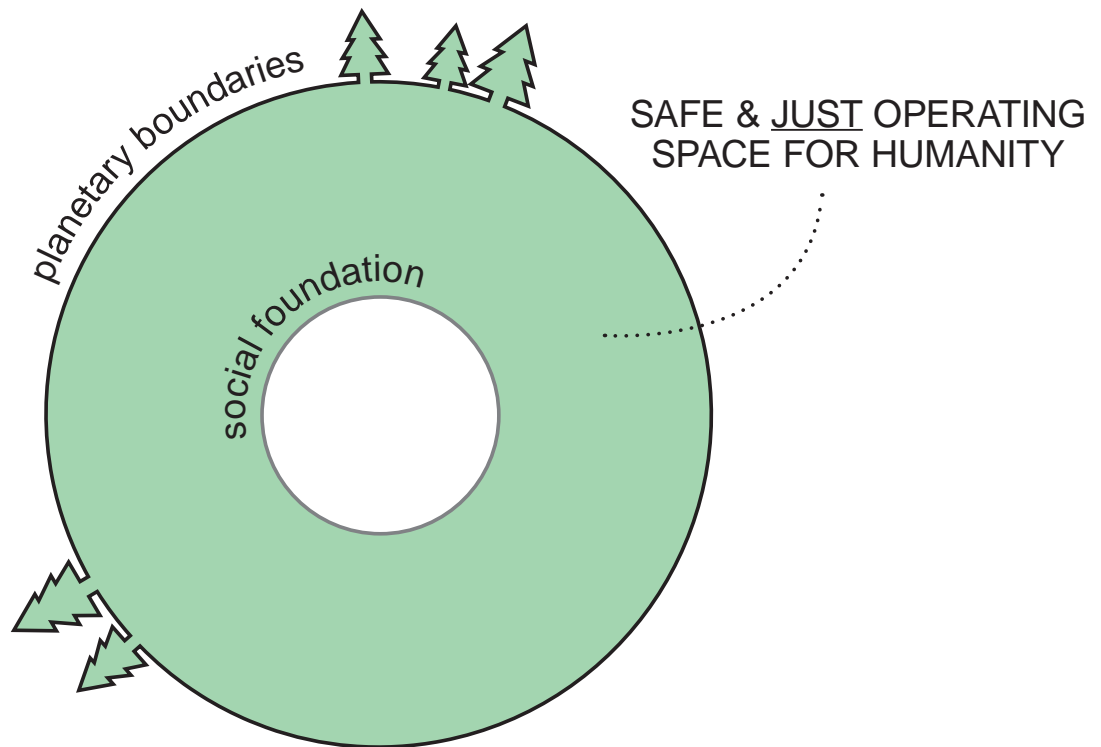
PERNILLA HAGBERT / URBAN & REGIONAL STUDIES, KTH







A SUSTAINABLE [GLOBAL] DEVELOPMENT?



(RAWORTH, 2012)



‘A SUSTAINABLE BUILT ENVIRONMENT’

RESOURCE USE IN HOUSING

- About **40%** of the total Swedish energy use is attributed the sector 'housing & services'
- Households are ascribed **24%** of total final energy use in Sweden
- Heating of housing is approx. **15%** of total energy use

SWEDISH ENERGY AGENCY, 2014

- But... does low energy & 'green' housing development also mean a less energy and resource intense way of living? Is there such a thing as ***a sustainable home***?



*integration of holistic
perspectives on home?*



‘LACUNA’



*integration of
sustainability aspects?*



CHANGING CONDITIONS

- *Growing individualism; more single-person households*
- *Larger living space per capita*
- *Increased segregation & inequality*
- *Notion of comfort & behavior*
- *Rebound effects*

A need to reconsider - for whom and what is being built? How are more sustainable practices enabled?

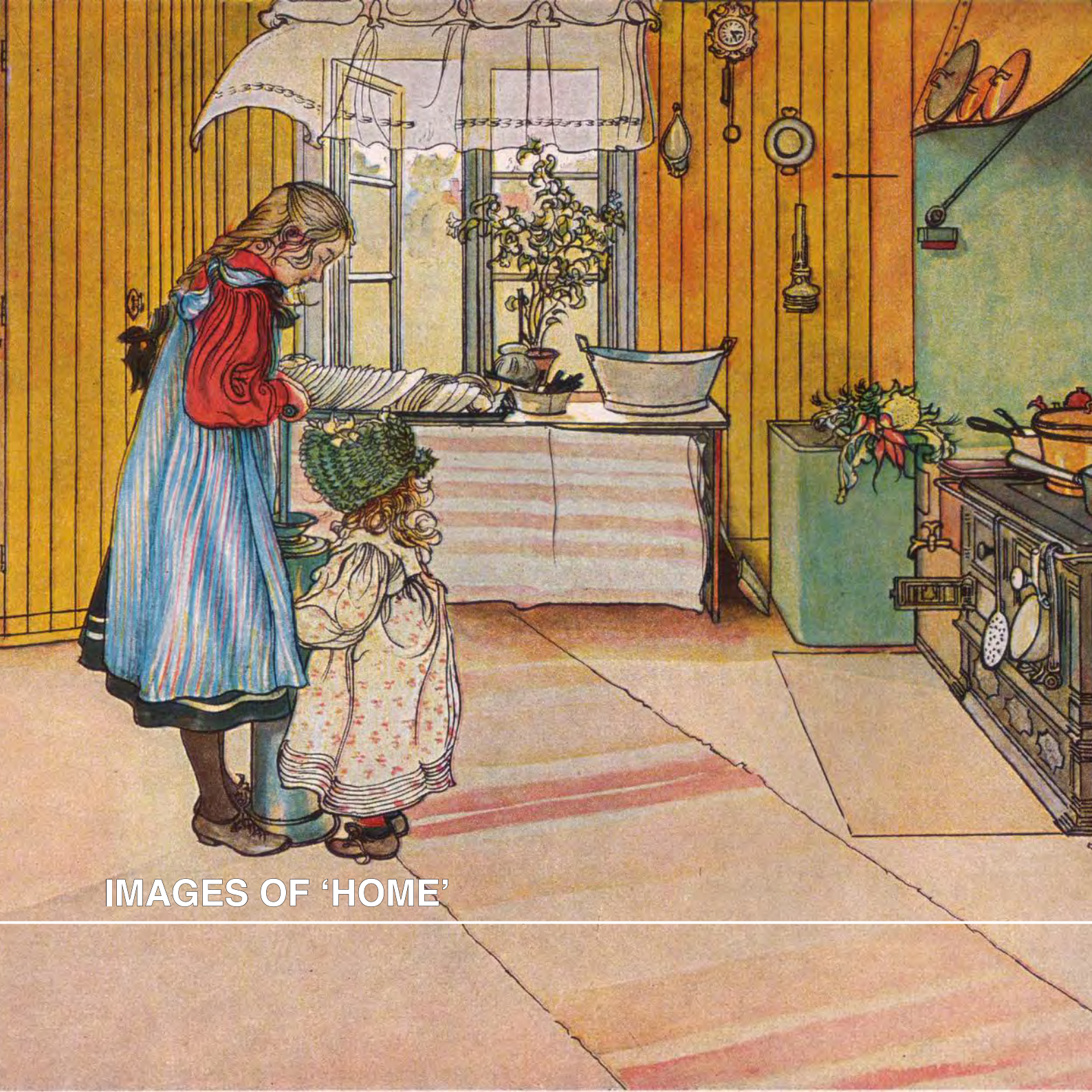


A NORMATIVE DEVELOPMENT

“Homes are tangible reflections of cultural adaptations, practices & beliefs”

IRWIN ALTMAN (1981)





IMAGES OF 'HOME'



Bo trivsamt

KATALOG No. 19

A.B. MYRESJÖ-HUS

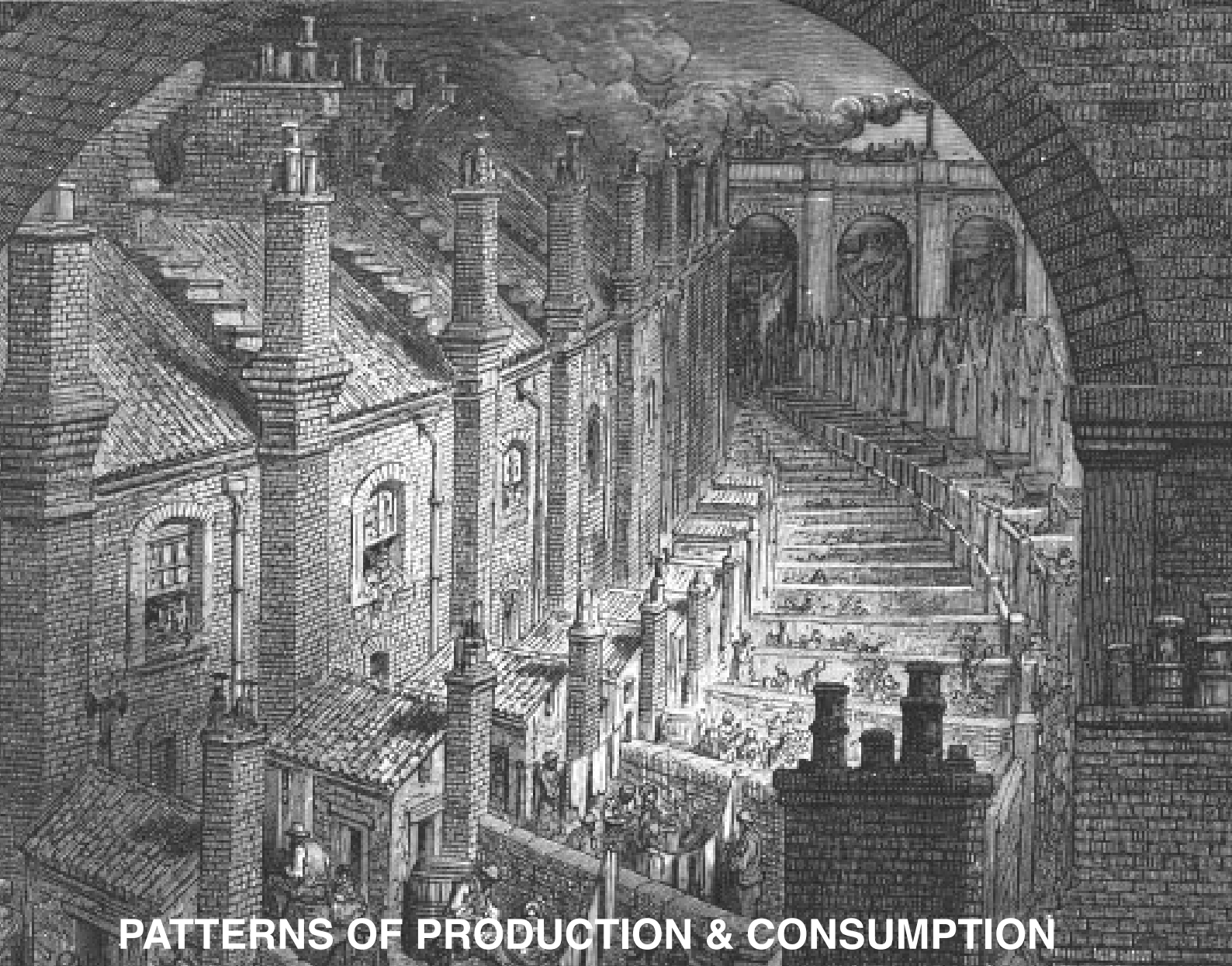


HEM SOM HÅLLER



KÄRLSTAD soffa
\$599

HOME
IS THE MOST IMPORTANT
PLACE IN THE WORLD



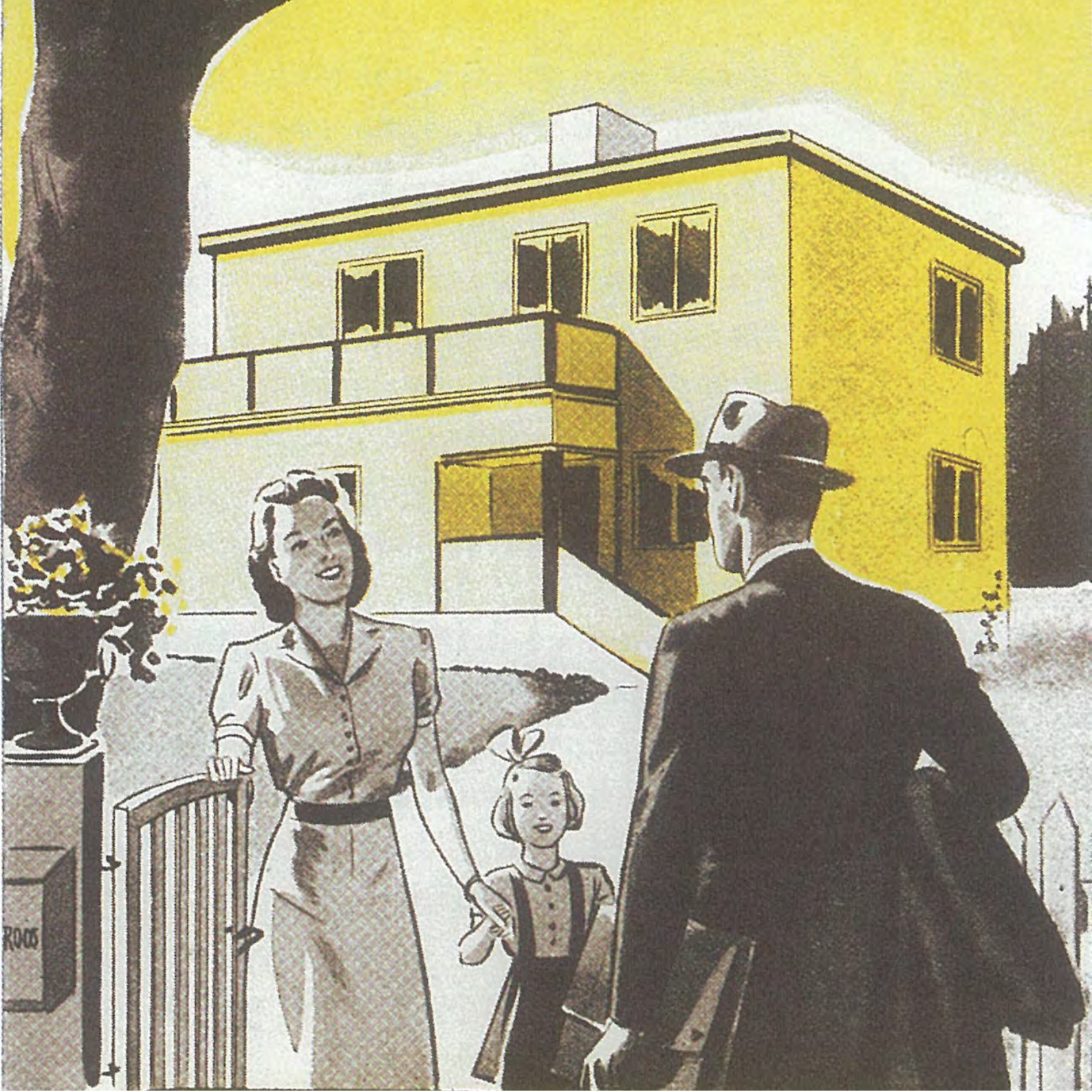
PATTERNS OF PRODUCTION & CONSUMPTION

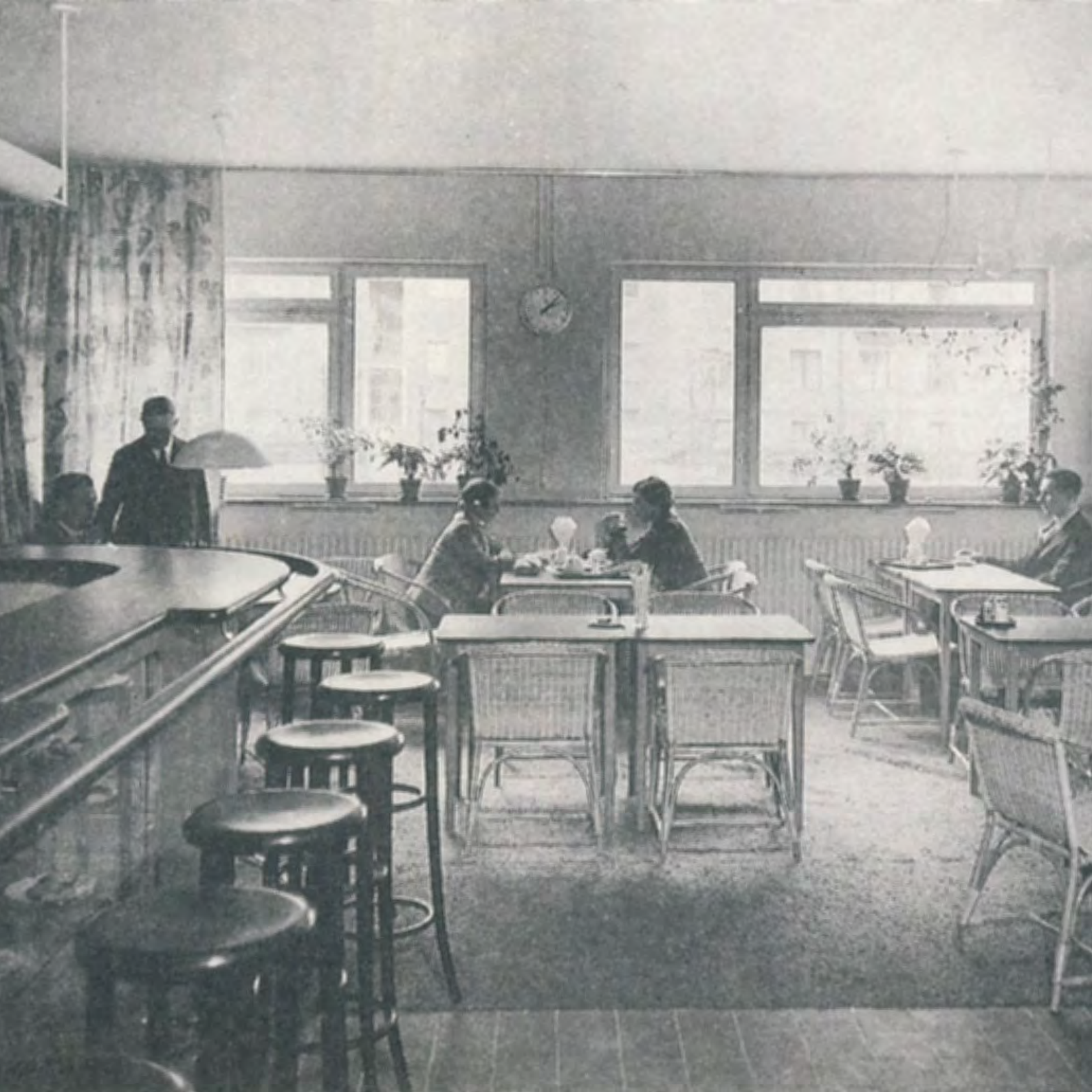


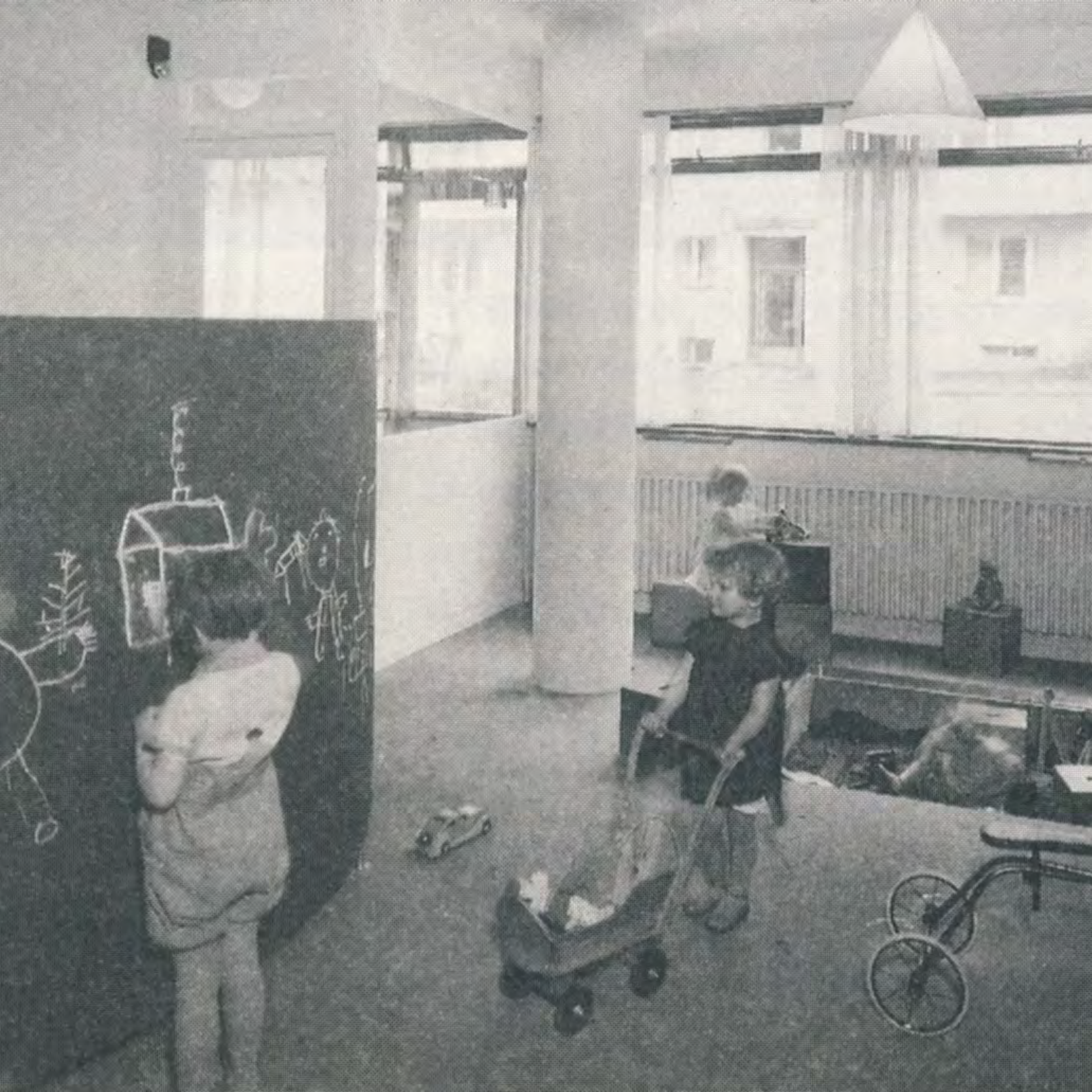




SOCIAL POLICY









TAYLORISM & 'OBJECTIVITY'



SOCIO-TECHNICAL DEVELOPMENT



SOCIO-CULTURAL DEVELOPMENT



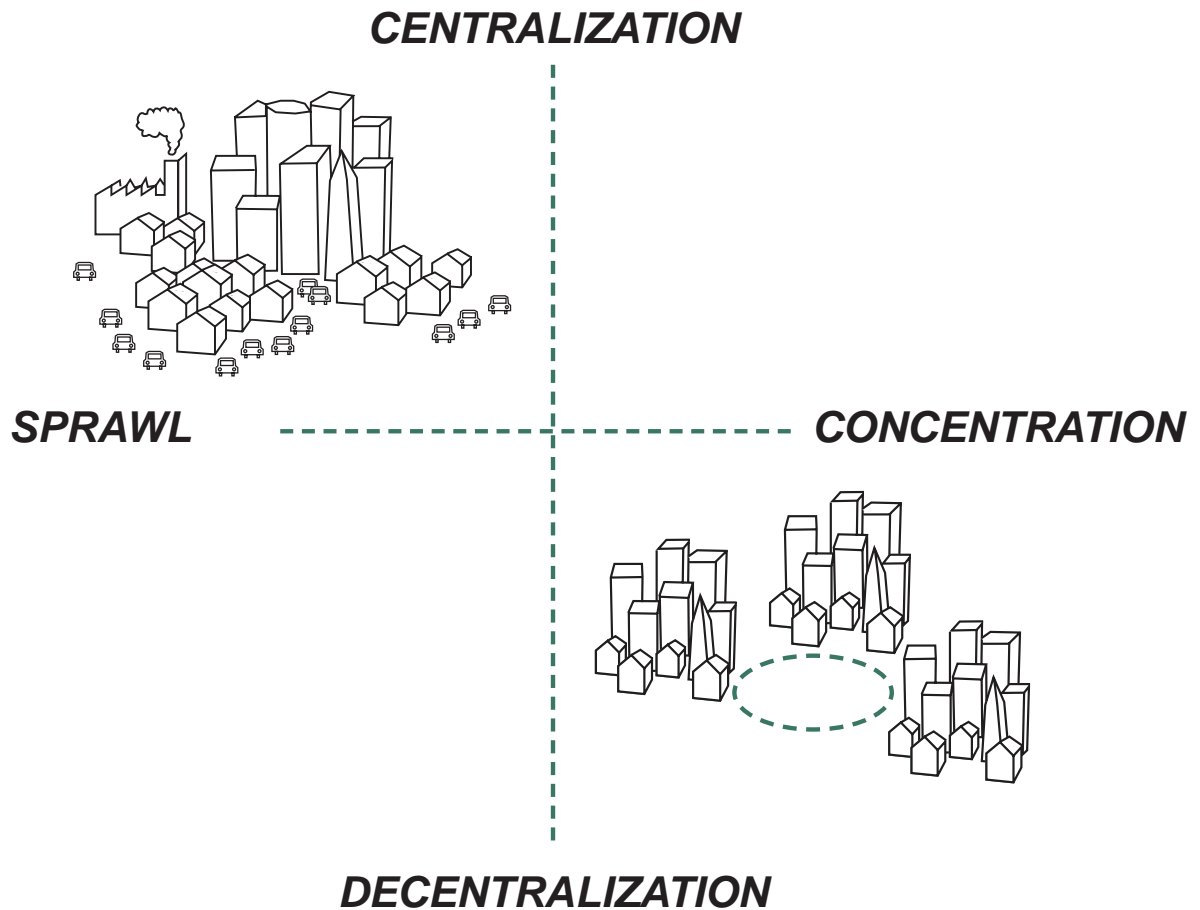
PARADOX OF THE 'GREEN' HOUSING SECTOR





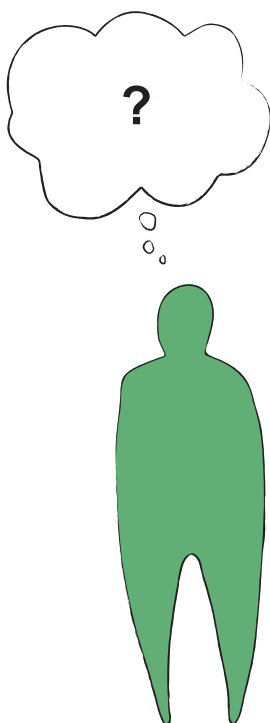


SUSTAINABLE URBAN FORM?



ERLING HOLDEN (2004)





NEED FOR ALTERNATIVES

key empirical findings

STRUCTURAL LOCK-
INS IN MAINSTREAM
REPRESENTATIONS

GAP IN INTEREST VS
WHAT IS CURRENTLY
OFFERED

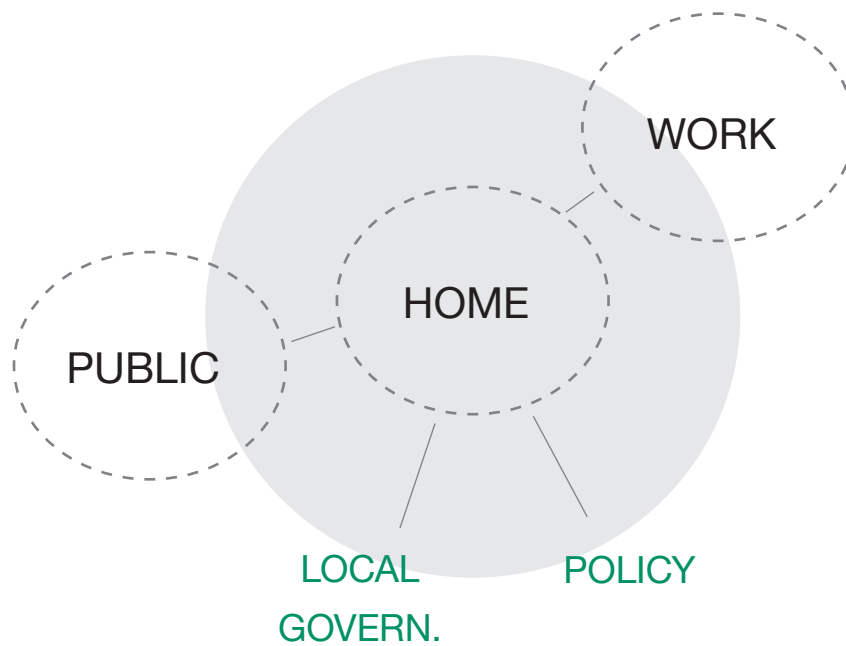
*need to
diversify the
image &
alternatives
of low-impact
ways of living*

transitions *in & of* the home

SHAPING NEW
CONCEPTS, SEEING
HOME AS A NODE

SEEING RESIDENTS
AS AGENTS RATHER
THAN “END-USERS”

THE HOME AS A NODE



*“People need new tools to work with
rather than new tools that work for them”*

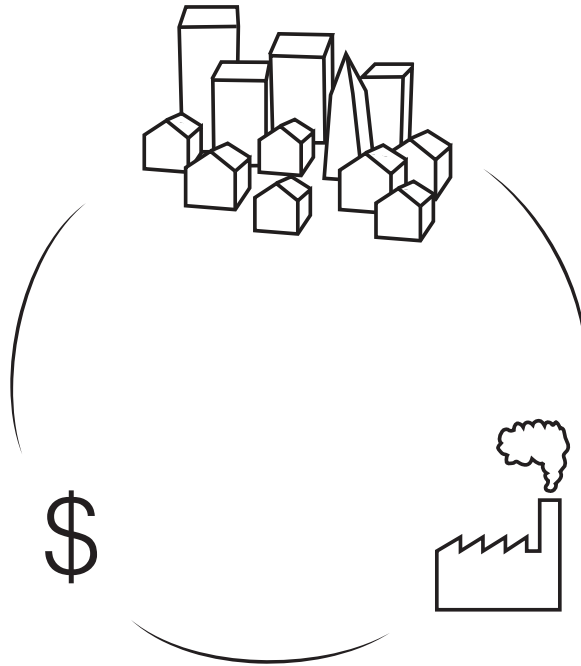
IVAN ILLICH (1973)



AN IMAGE OF MORE RESILIENT HOMES?



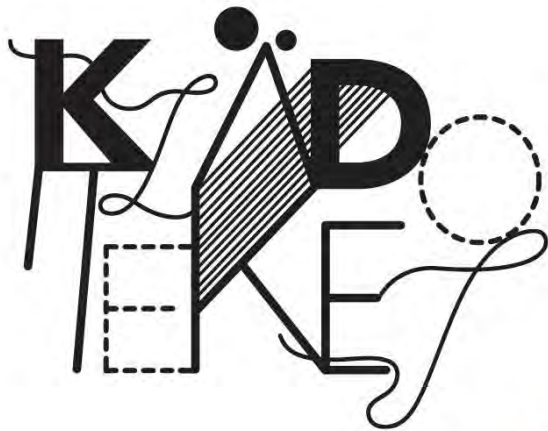
“NEW” PRACTICES



THE FLOWS OF THE INDUSTRIAL CITY

“NEW” PRODUCTION &
CONSUMPTION FORMS





EatWith

streetbank

share things with your neighbours



pallafrukt.se

**Fritids
banken**

AN OPEN COMMUNITY CONSTRUCTION SET



WikiHouse

www.wikihouse.cc

WikiHouse is a mass-collaborative design project. Its aim is to make it possible for almost anyone, regardless of their formal skills, to freely download and build structures which are affordable and suited to their needs. There is no single design, or single designer. Houses and components are designed by an open community of designers and users for everyone's benefit.

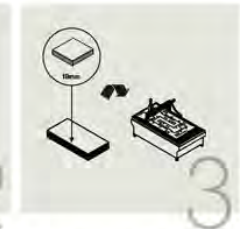
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Download houses and components which are created and shared by an open community of users around the world. Individual components can be combined or adapted to form a structure which responds to an individual site or set of needs.



Click 'Make this house'. From the model, WikiHouse generates a complete set of milling drawings which can be used by a CNC cutter to fabricate the house parts.



The parts are cut by a CNC mill using locally-bought material. This is 18mm plywood, in the standard sheet size of 2440mm x 1220mm (8' x 4').



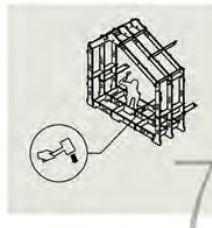
Set out the parts for each section onto the ground, assembling it like a jigsaw.



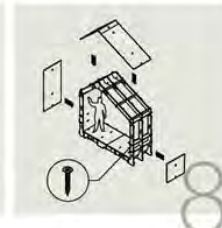
Wedge together the two layers to form a single section.



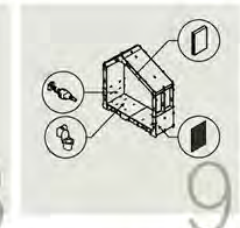
Stand the sections up vertically, positioning them approximately at 600mm intervals.



Fit the connector pieces into the slots in the section. These should be staggered alternately. Use the mallet provided on the milling sheets to hammer these tightly into place.



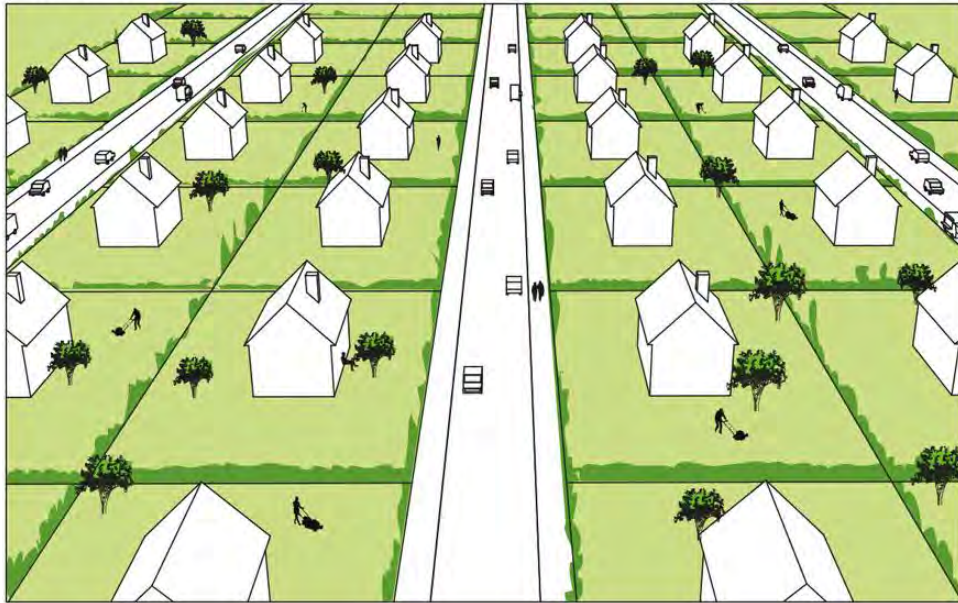
Fit the internal and external cladding panels onto the structure. Internally these usually need to be screwed into place.



The structure is ready for insulation, cladding and services.

WIKIHOUSE

FÖRE 500K



EFTER 500K



ÅTER

NR 3/15

SKOP: INKL. MOSS

FORUM FÖR
SJÄLVFÖRSÖRJNING OCH
ALTERNATIVT BOENDE PÅ
LANDSBYGDEN

UTFLYTTARBREV: HÄGLAJS I GÖTHEM
GUNILLAS ÖRTER: EN & ÅKERFRÅKEN
MIES & ERIKAS NYBÖRJARBREV
JAKT 19: BYGGA EN MINKFÄLLA
REPARATION AV TIMRAT BÄTHUS
GETTER 2: MJÖLKA DIN GET
STARTA EGEN VERKSAMHET
TORKNING -TIPS & TRICK
VILDA VÄXTER 12: SÄV
ODLA EGEN VITLÖK
SOLTTÄRBIN



HOMeward BOUND

Why Women Are Embracing the New Domesticity
by EMILY MATCHAR

‘DOMESTIC KNOWLEDGE’







“NEW” FORMS

KANOZI ARKITEKTER

HOFFICE Reimersholme

1:a april 2014



ONE CONCEPT?



eco-efficient
buildings & areas



urban
co-housing



'tiny
houses'



eco-villages

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