One Tiny Step
Rotterdam CLIMA

Despite legal hurdles Tiny Homes have stubbornly taken a foothold in western societies and this is not without reason. They are no longer the niche group of solo housers on wheels. But a typology that has to be considered to urban planning, especially considering its impact on reducing the carbon footprint of the building industry.

The largest share of Tiny Homes is purchased by middle class young adults with higher education degrees. Thus finance is not the only reason Tiny Homers are so popular, the second most common motive in lifestyle change. A change towards...

HEALTHY HOMES

ENVIRONMENT

UNHOME_SHI & PROS: ... Sadly, there are plenty of examples were industry has polluted the environment with disastrous entrainment. So, the people living inside. Two effects are often encountered. Like, when the damage has been done. This if seems pertinent, not to introduce family housing in areas close to industry as, in history are usually disproportionally affected.
Is it justified to create a site without family housing? About half of the population in western European countries lives alone or in a 2 person household. This means the target group for Tiny Homes is about 30% of the population, yet 60% of homes being build are aimed at families, this means it is not only justified but a necessity.

CLIMATE CHANGE PREPAREDNESS

The site in Hillesland or vulnerable to flooding. First rain result in enormous damages. Tiny Homes provide a simple solution as they can be towed away easily when an emergency event occurs.

CLIMATE CHANGE MITIGATION

A Tiny Home has a much lower carbon footprint, about 1/10th of the average home.

HEALTHY MATERIALS

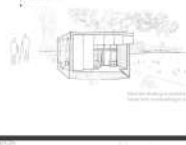
Baby rooms are facial to be the most toxic rooms in homes - this is due to all the new furniture, toys and paint present. All of these emit toxins and this has been linked to asthma and other health problems. Thus the home was designed using mass Tiny materials, it doesn't emit anything more it just has used a lot of research.

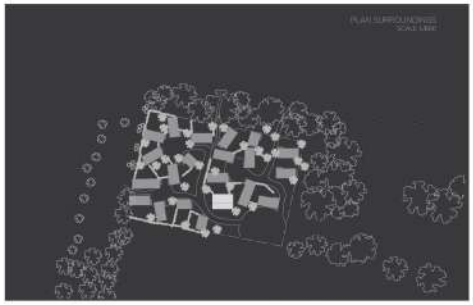
ARCHITECTURAL DESIGN & MENTAL HEALTH

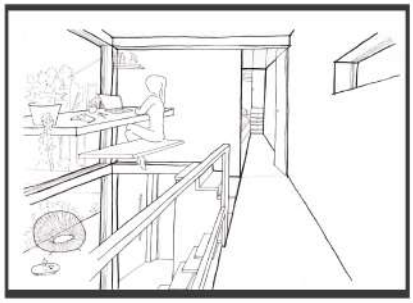
Flexibility is key to any home design, a determinate here was you can make it your own home, and now hard it can change to be your fitness, workspace and school too.

OPTIMIZED INDOOR CLIMATE

The smart solution of a Tiny Home creates several interesting challenges and opportunities where it comes to engineering of a home. This is why a detailed scenario model of the indoor climate was made in DELCS.







TINY STEP CONCEPT DESIGN - ARCHITECTURE & INDOOR COMFORT

SPATIAL DESIGN

SUMMER

WINTER

ENERGY

LIGHT

WATER

STRUCTURE

PASSIVE CIRCULATION INDOOR CLIMATE

ARCHITECTURAL PLANS AND SECTIONS

HORIZONTAL & VERTICAL SECTIONS
IN THE MIDDLE OF THE HOME
SCALE 1/100

ALTERNATIVE DESIGNS
SCALE 1/50

FACADES
SCALE 1/100

SCRF-FOCUS ON CLIMATE CHANGE ADAPTION & MITIGATION