



DIE MACHT DER MEGATRENDS

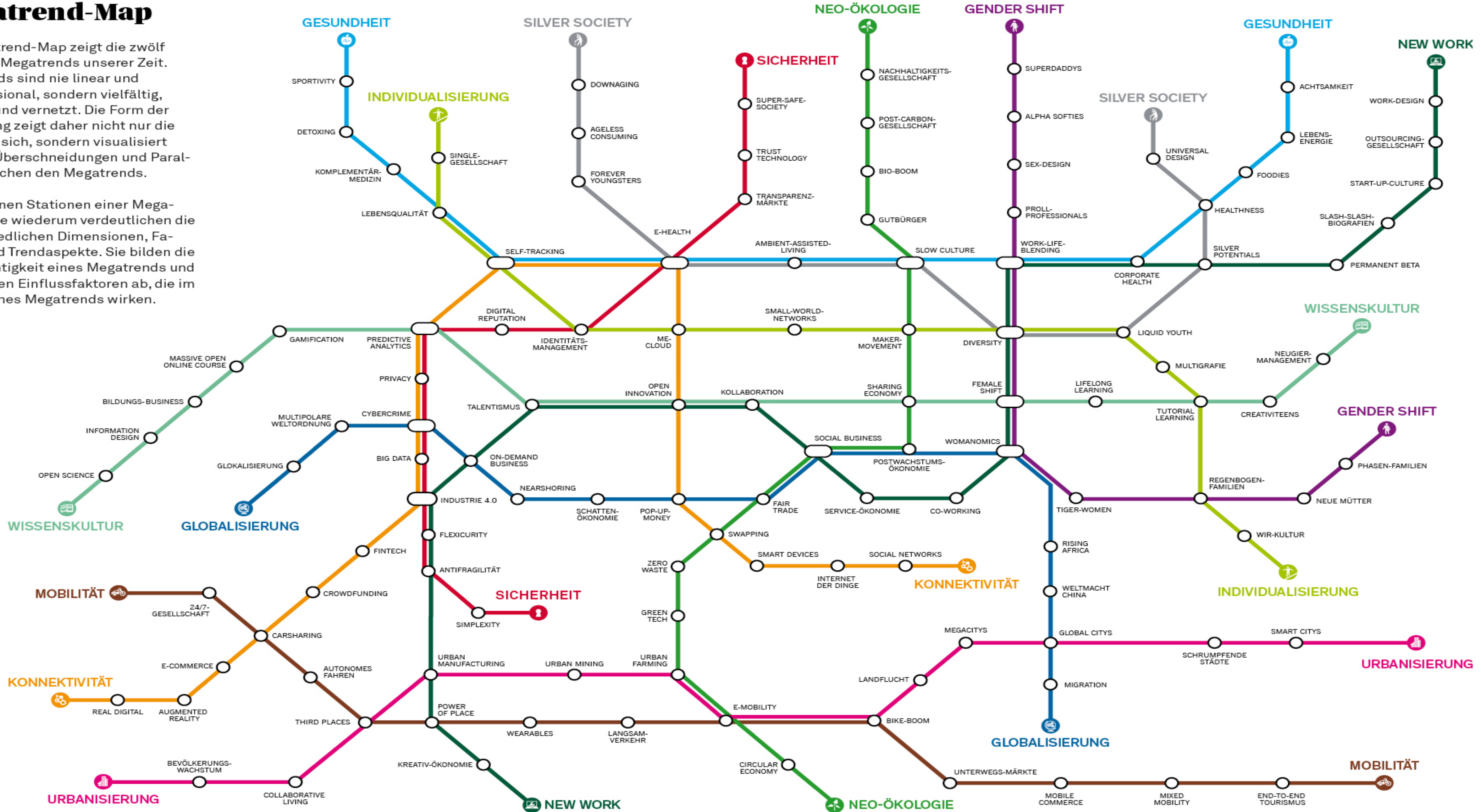
The background features a series of concentric, curved lines in various shades of blue, creating a sense of depth and movement. The lines are most prominent in the center and fade towards the edges.

DIE MACHT DER MEGATRENDS

Megatrend-Map

Die Megatrend-Map zeigt die zwölf zentralen Megatrends unserer Zeit. Megatrends sind nie linear und eindimensional, sondern vielfältig, komplex und vernetzt. Die Form der Darstellung zeigt daher nicht nur die Trends an sich, sondern visualisiert auch die Überschneidungen und Parallelen zwischen den Megatrends.

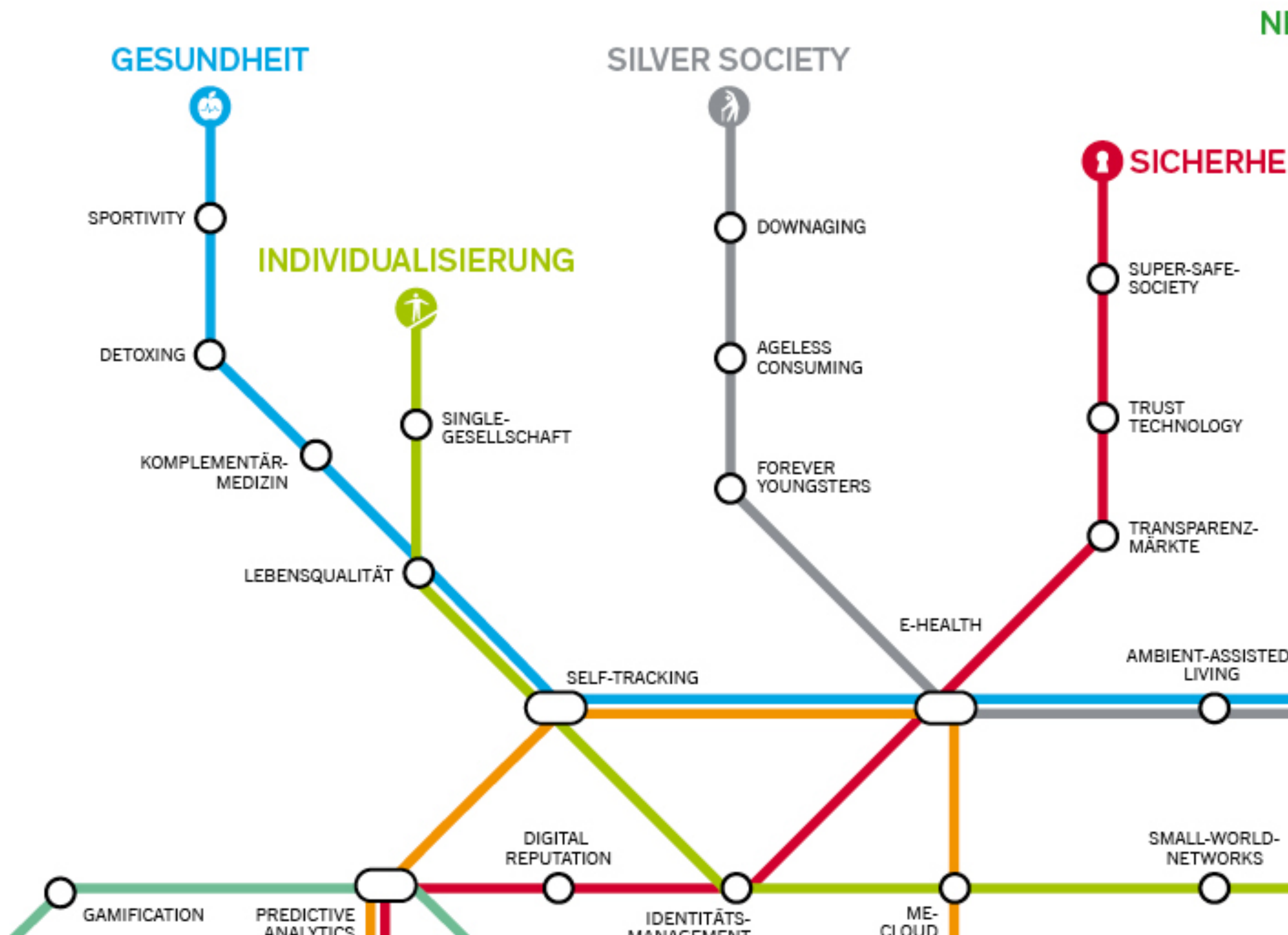
Die einzelnen Stationen einer Megatrend-Linie wiederum verdeutlichen die unterschiedlichen Dimensionen, Facetten und Trendaspekte. Sie bilden die Vielschichtigkeit eines Megatrends und die diversen Einflussfaktoren ab, die im Umfeld eines Megatrends wirken.

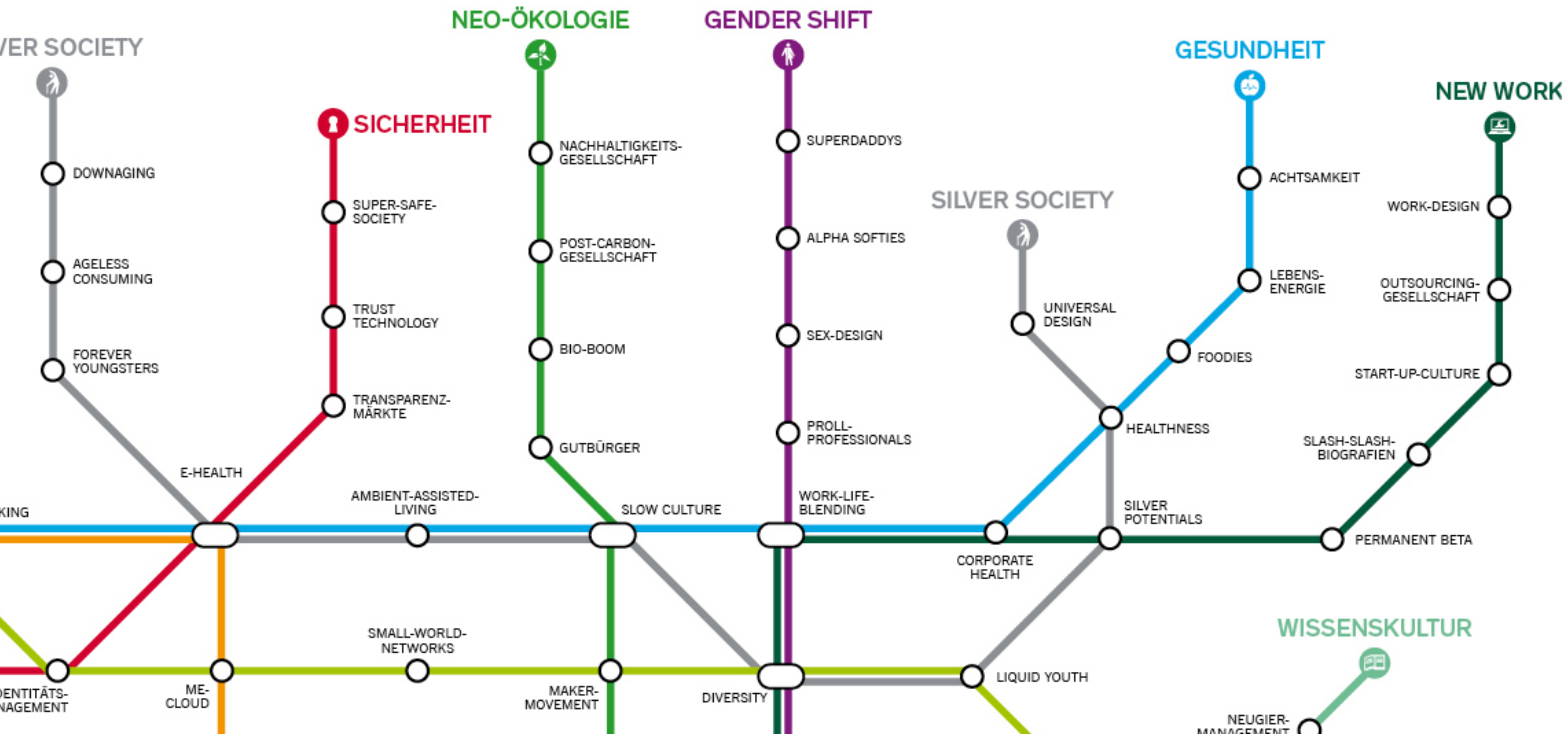


Megatrend-Map

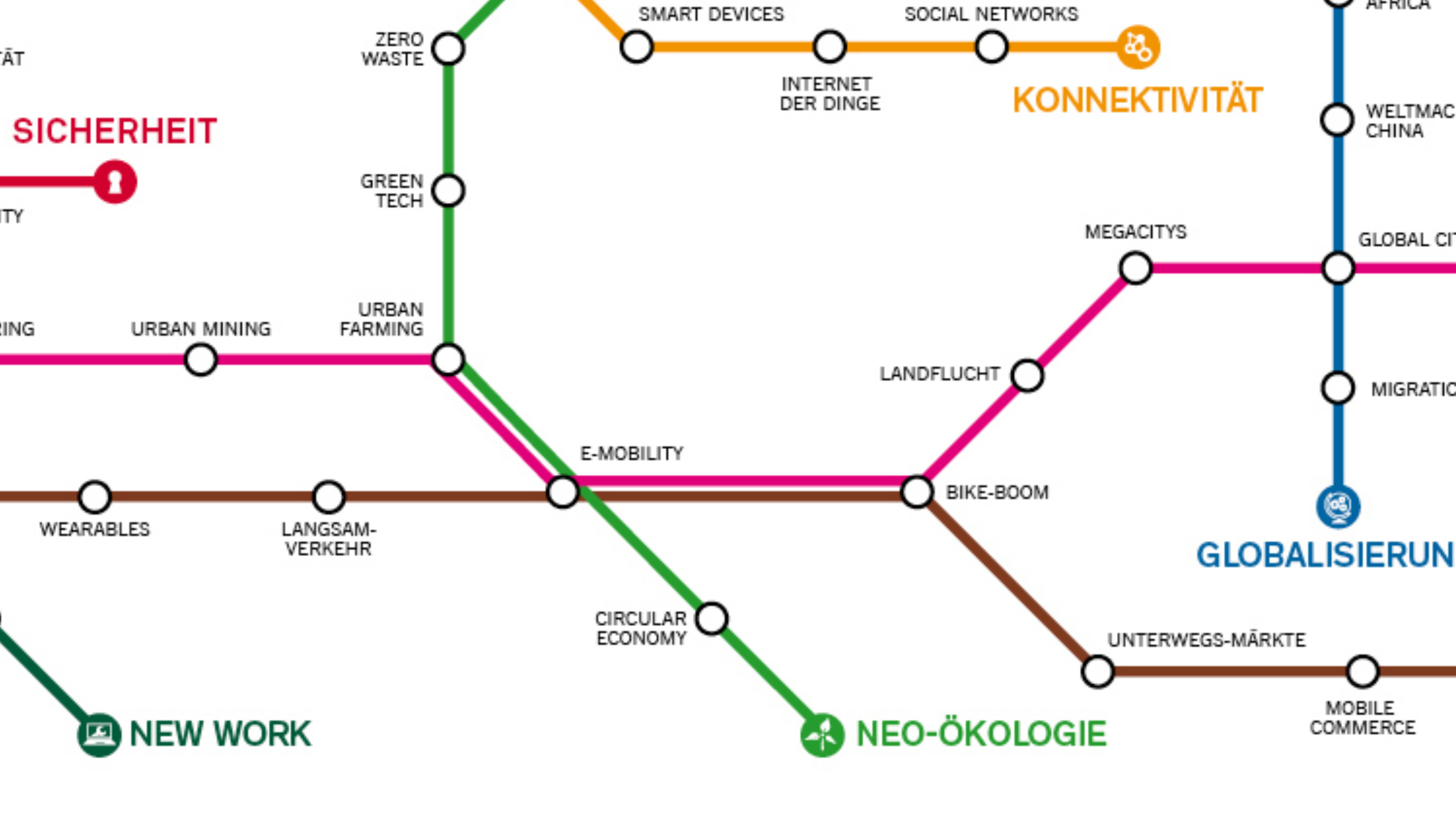
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SICHERHEIT

KONNEKTIVITÄT

GLOBALISIERUNG

NEW WORK

NEO-ÖKOLOGIE

ZERO WASTE

GREEN TECH

URBAN FARMING

URBAN MINING

WEARABLES

LANGSAM-VERKEHR

E-MOBILITY

BIKE-BOOM

CIRCULAR ECONOMY

UNTERWEGS-MÄRKTE

MOBILE COMMERCE

LANDFLUCHT

MEGACITYS

SMART DEVICES

INTERNET DER DINGE

SOCIAL NETWORKS

AFRICA

WELTMACHT CHINA

GLOBAL CITY

MIGRATION

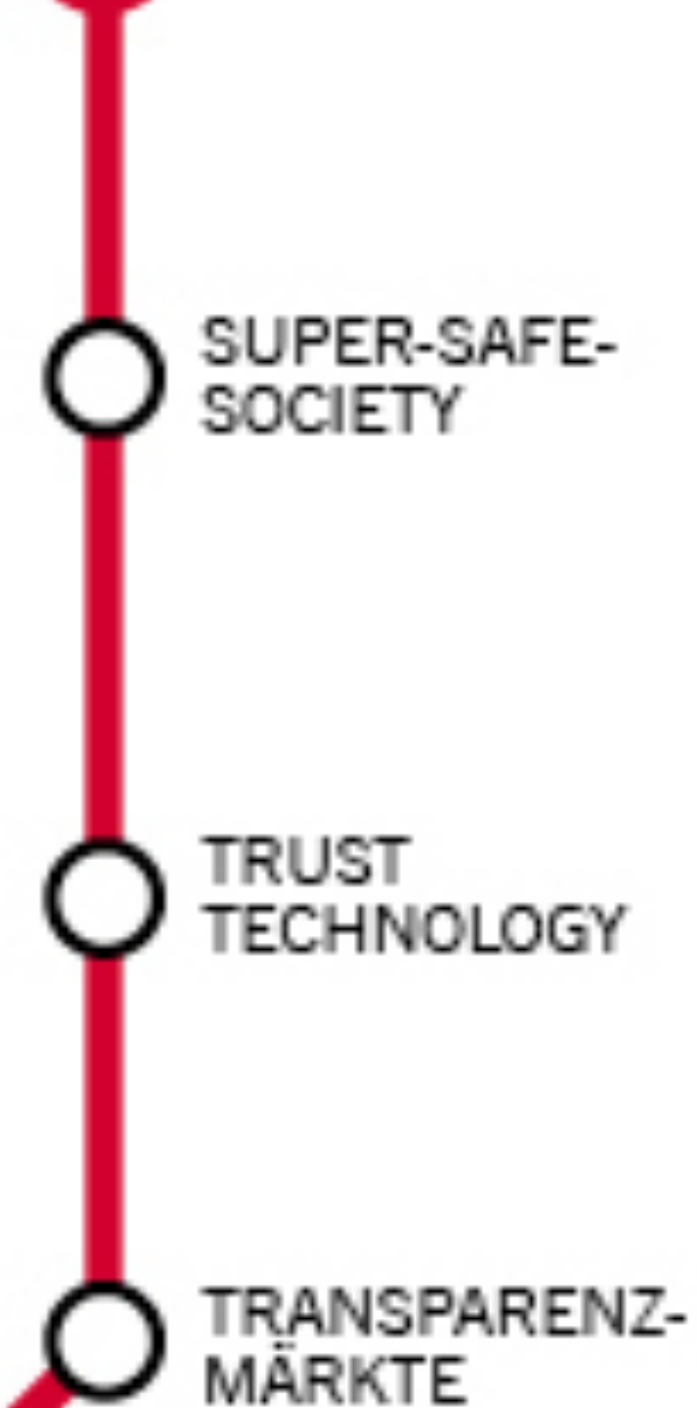
SILVER SOCIETY



TRACKING

E-HEALTH

SICHERHEIT



AMBIENT-ASSISTED-LIVING

NEO-ÖKOLOGIE



SLOW CULTURE

GENDER SHIFT



WORK-LIFE-BLENDING

SILVER

Modernität

**Neo-
Ökologie**

Technologie

Ökologie



GRÜNE ÖKOLOGIE

MÜHE VERZICHT
VERLUST
MANGEL
ASKESE
ANGST SCHULD

DESIGN

TECHNIK

NETZWERKE

FÜLLE

VERBINDUNG

ELEGANZ

KREATIVITÄT

KRAFT

BLAUE ÖKOLOGIE

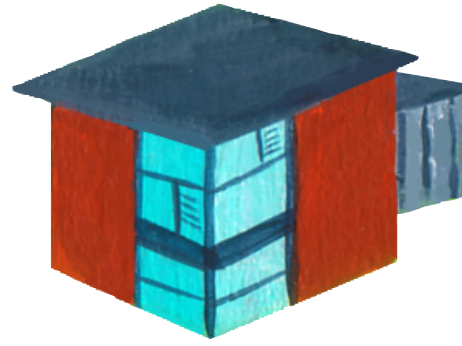
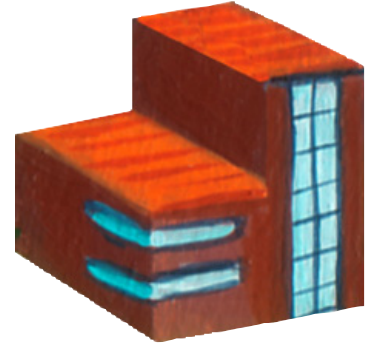


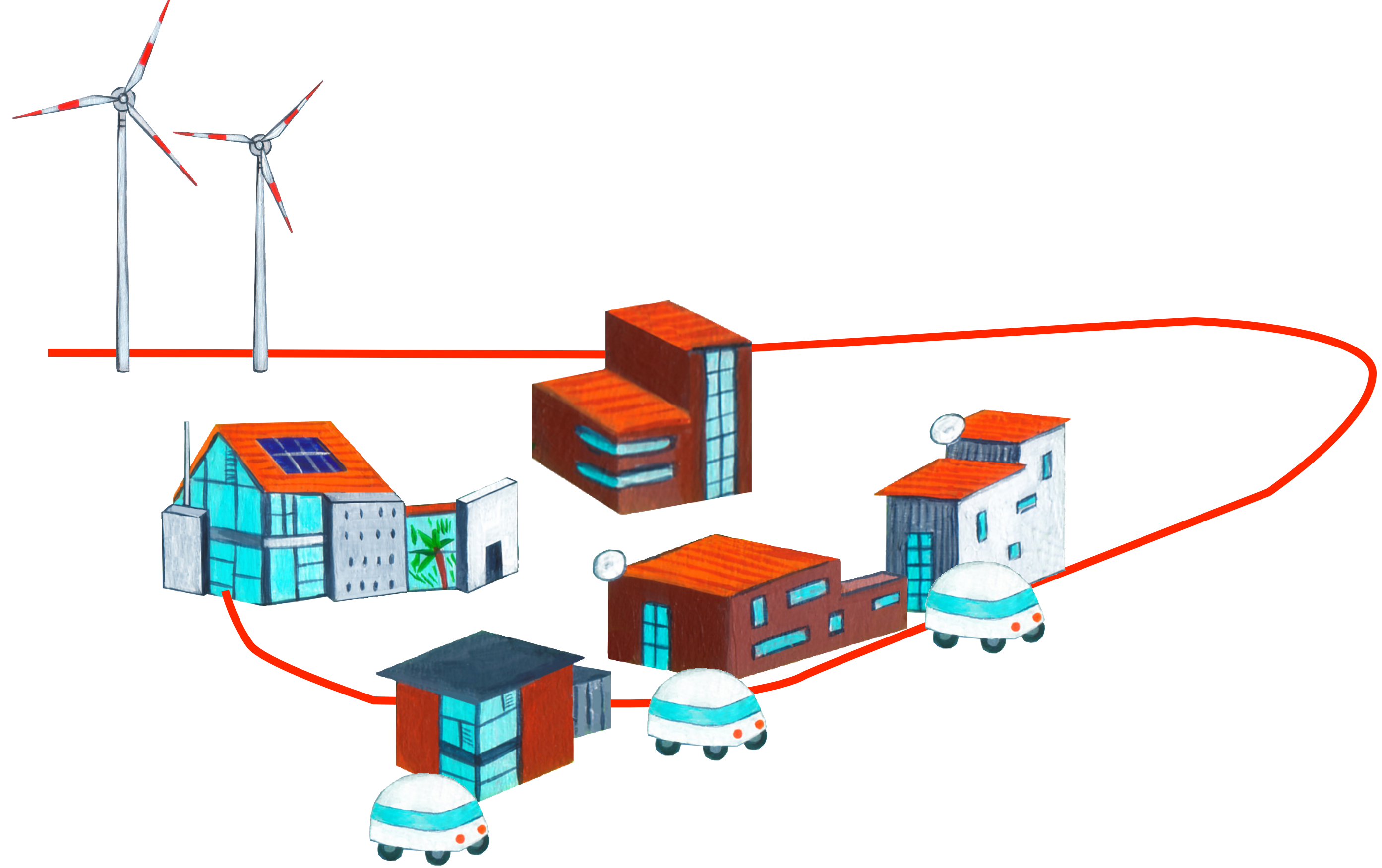


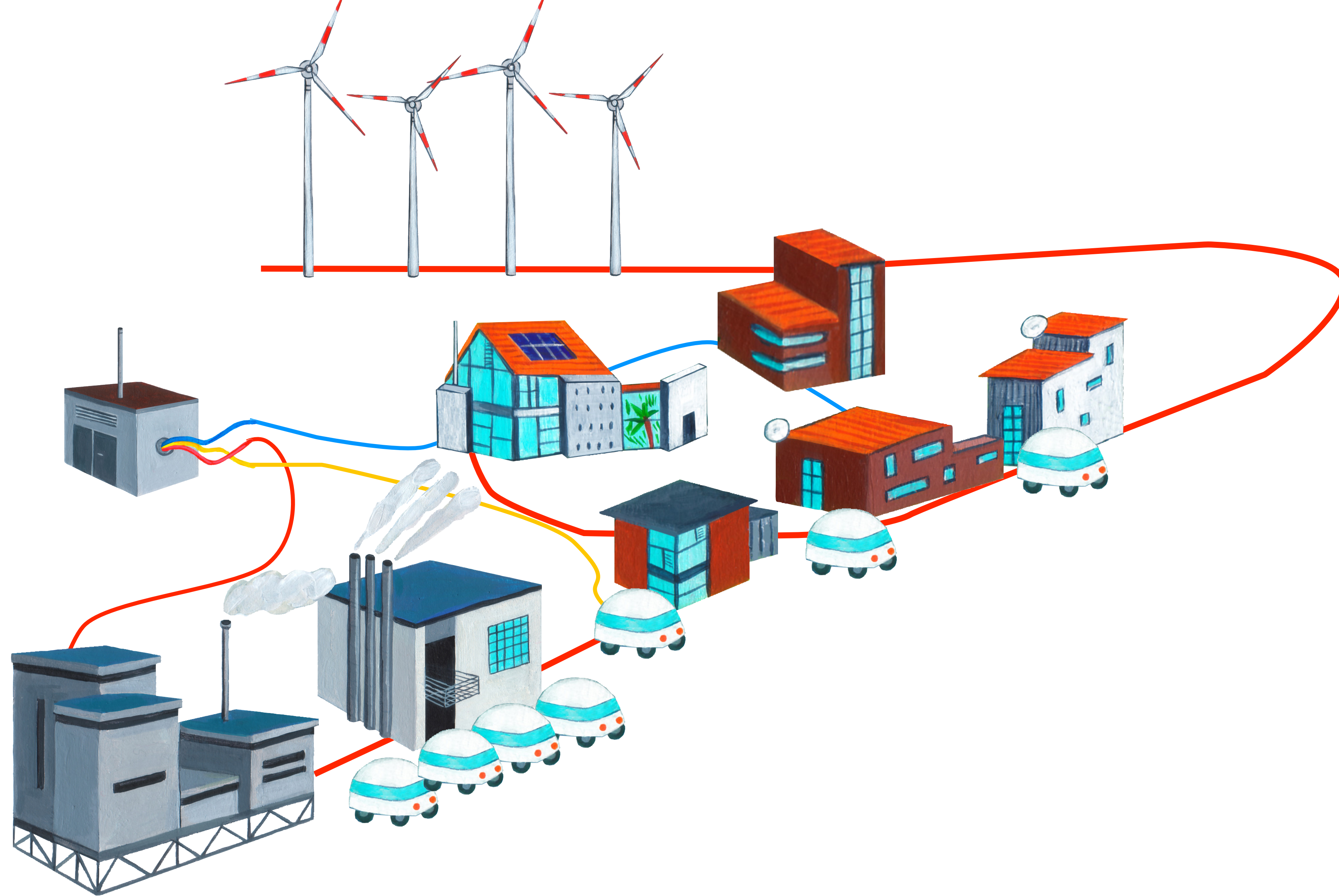


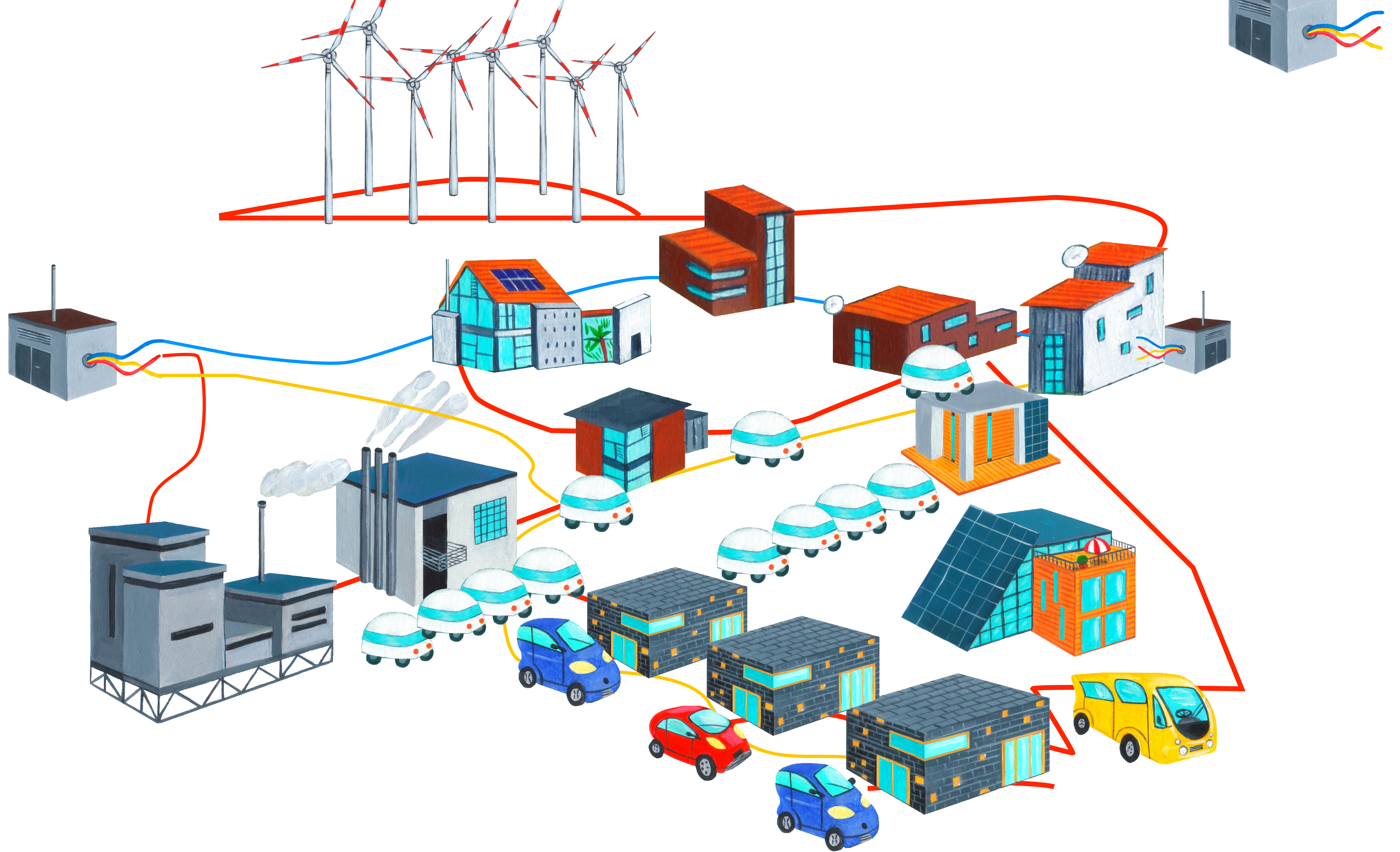


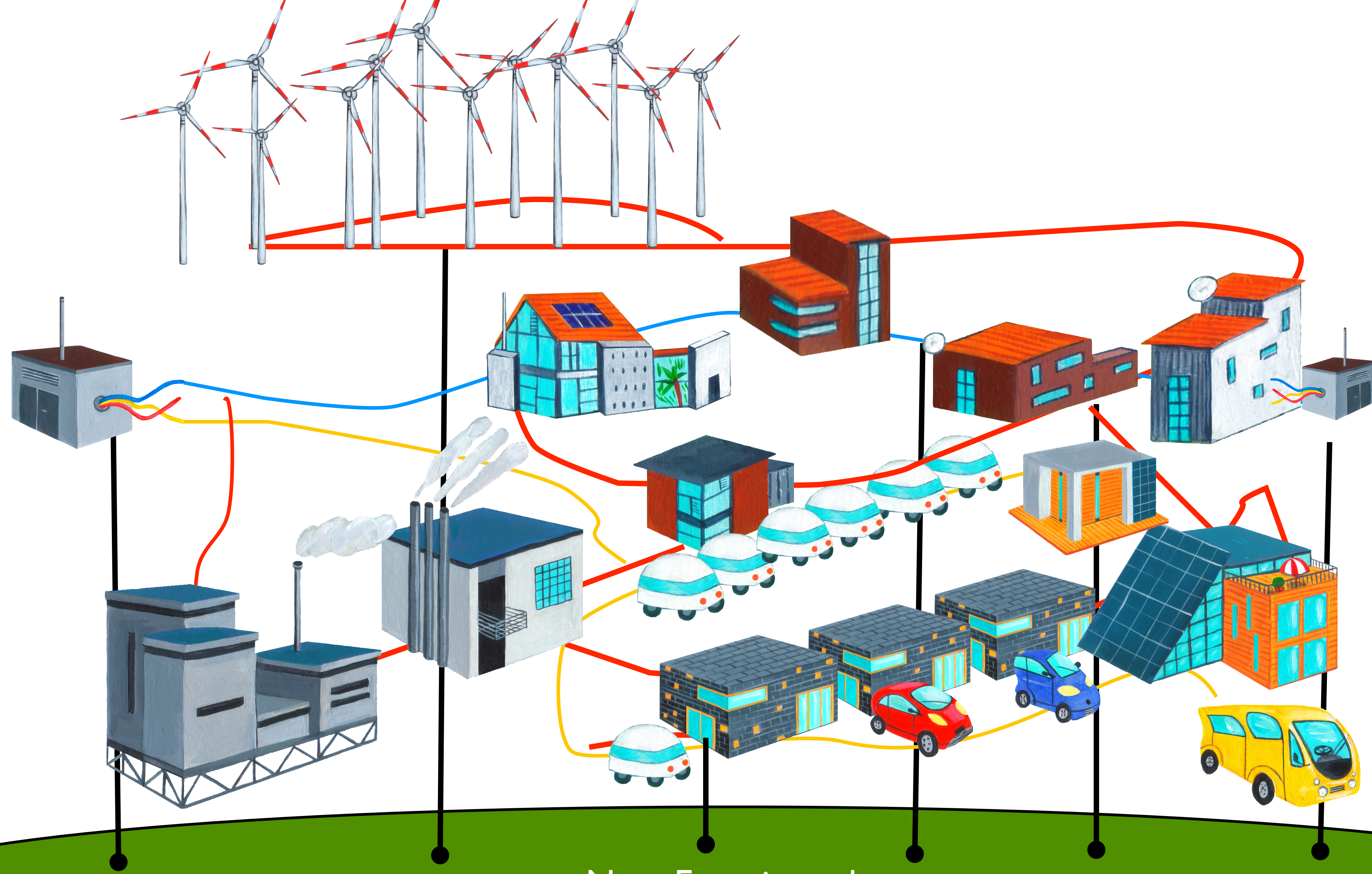




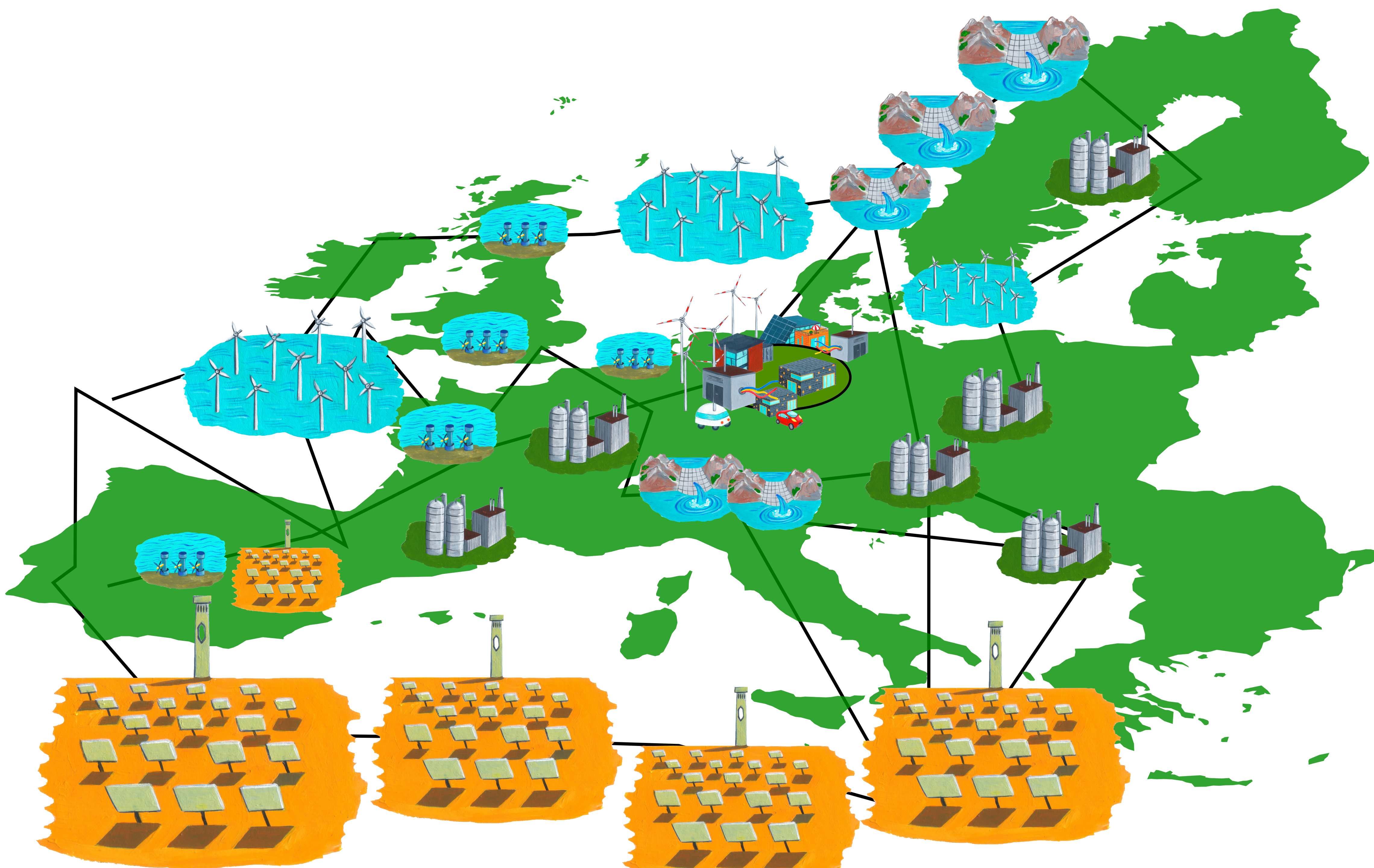








Netz-Energiemarkt





DIE BLAUE REVOLUTION

DIE ÄRA DER POSTFOSSILEN HOCHTECHNOLOGIEN

[HTTP://WWW.FASTCOEXIST.COM/3046175/THIS-SILENT-STRAW-LIKE-WIND-TURBINE-CAN-FIT-IN-YOUR-BACKYARD#4](http://www.fastcoexist.com/3046175/this-silent-straw-like-wind-turbine-can-fit-in-your-backyard#4)

DER NEUE WIND: VORTEXTURBINEN



ENERGIEDRACHEN

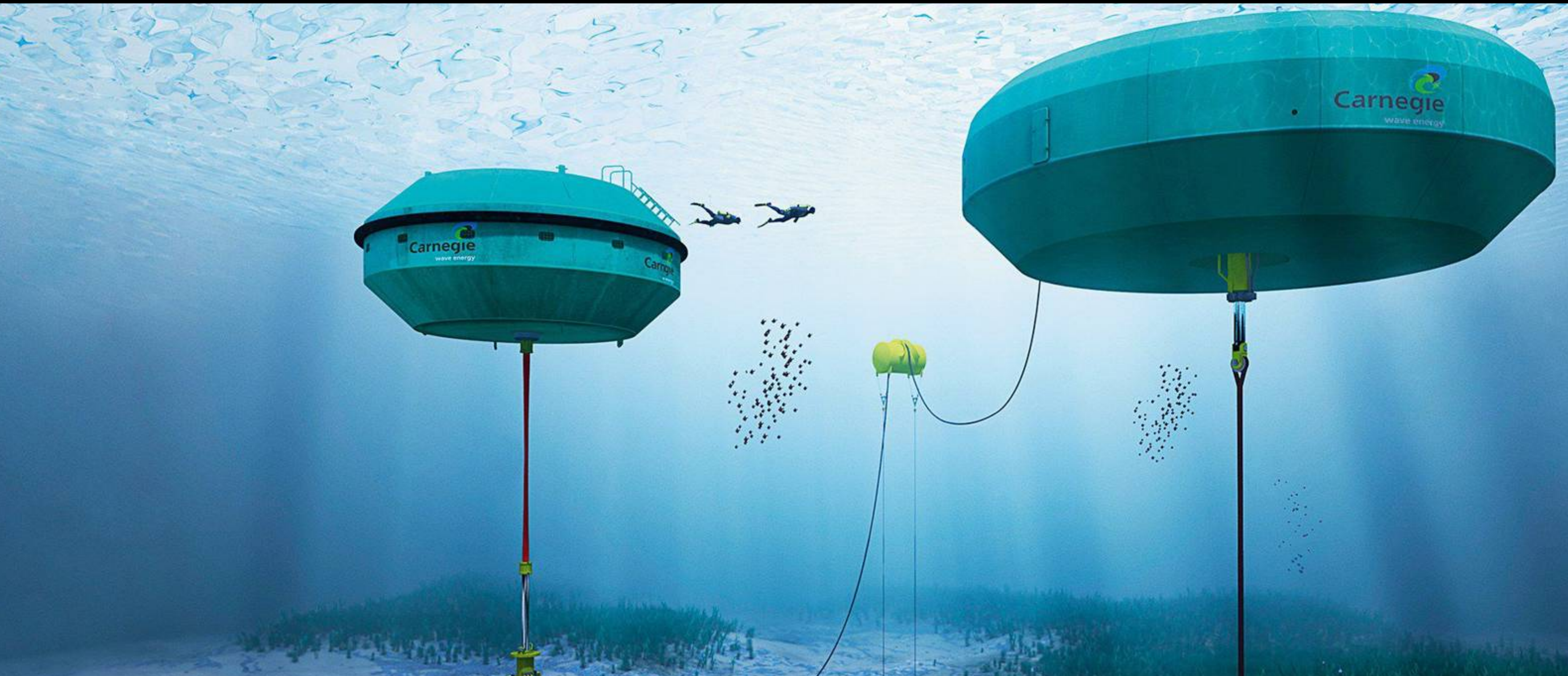


DIE ENERGIE DES MEEERES

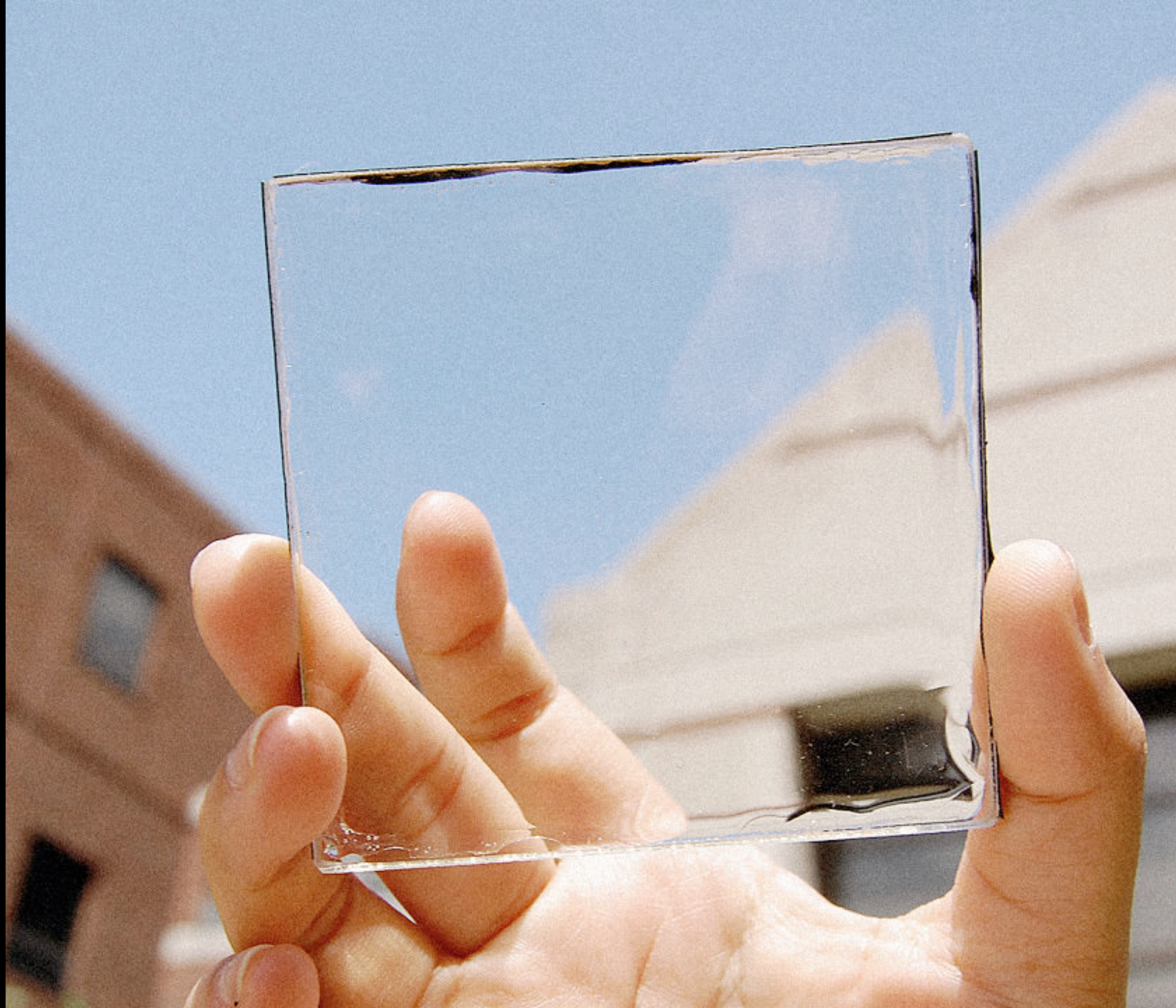


<https://www.wired.co.uk/article/submarine-towers>

WELLEN-GENERATOREN



Totally Transparent
Solar Cells Could Turn
Our Windows Into
Solar Panels | Co.Exist |
ideas + impact



SOLARFASSADEN

<https://www.fastcompany.com/3030123/an-old-skyscraper-is-going-green-with-a-massive-new-solar-facade#1>



HELIASOL





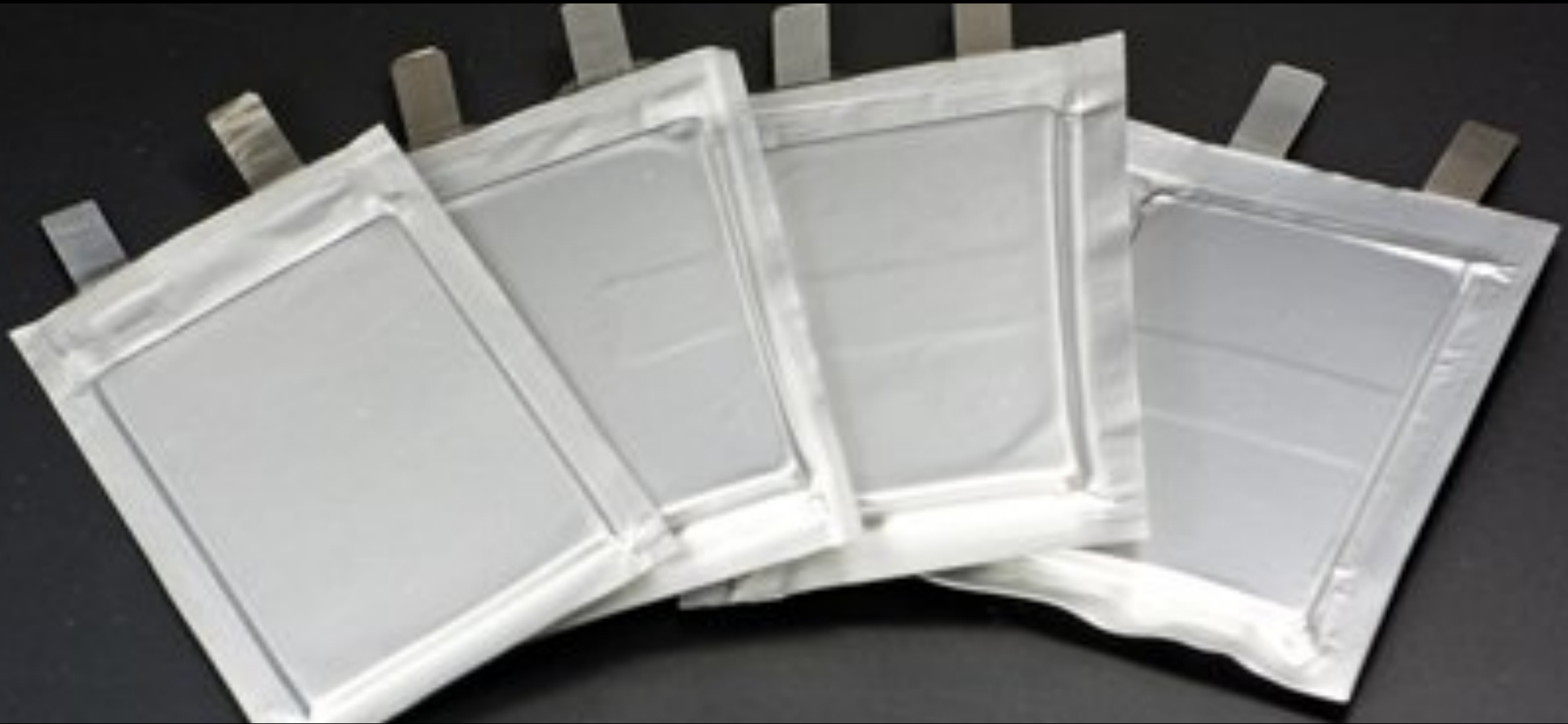
CMBLU Lignin Flow Batteries

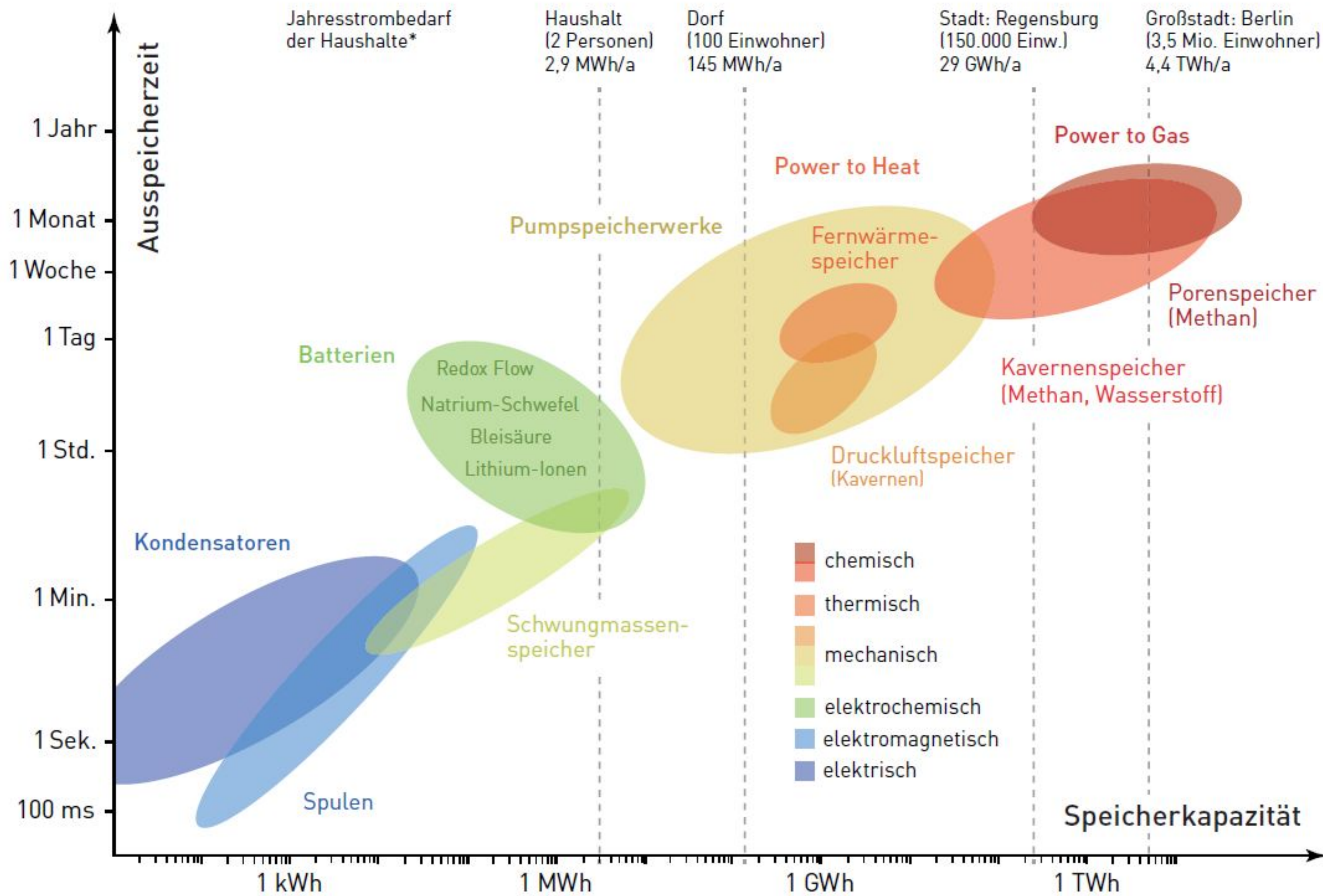
REDUX FLOW BATTERY



DIE NEUE ENERGIEDICHTE

LITHIUM-SCHWEFEL-AKKUS





- **Kondensatoren** speichern elektrische Energie kurzfristig zwischen elektrostatisch geladenen Platten.

- Bei **Schwungmassenspeichern** ist die Energie in einer rotierenden Masse gespeichert. Ein Rotor wird auf hohe Umdrehungszahlen gebracht.

- **Batterien** machen sich die Wanderung unterschiedlich geladener Teilchen zunutze.

- **Pumpspeicherwerke** nutzen die Lageenergie von Wasser. Einspeichern über Pumpen, Ausspeichern über Turbinen.

- Ein **Druckluftkraftwerk** nutzt einen mit Druckluft gefüllten Hohlraum über den Einsatz von Kompressor (Laden) und Turbine (Entladen).

- **Kavernen- und Porenspeicher** nehmen chemische Energieträger in künstlichen oder natürlichen Hohlräumen unter der Erdoberfläche auf.

- **Power to Heat** speichert Strom in Form von Wärme.

- **Power to Gas** wandelt Strom in Gas um.

Die Datenwolken geben Bereiche an, in denen sich einzelne heute bereits realisierte Anlagen in Deutschland bewegen.

*ohne Industrie und GHD; Strombedarf pro Person: 1,45 MWh/a

STELLEN WIR UNS VOR, DIE ERNEUERBAREN
ENERGIESYSTEME HÄTTEN EINE
INNOVATIONSRATE WIE DIE DIGITALE TECHNIK

STELLEN WIR UNS VOR, ENERGIE WÄRE IN
ZUKUNFT NICHT KNAPP, SONDERN IM
ÜBERFLUSS VORHANDEN



100 W



10 W



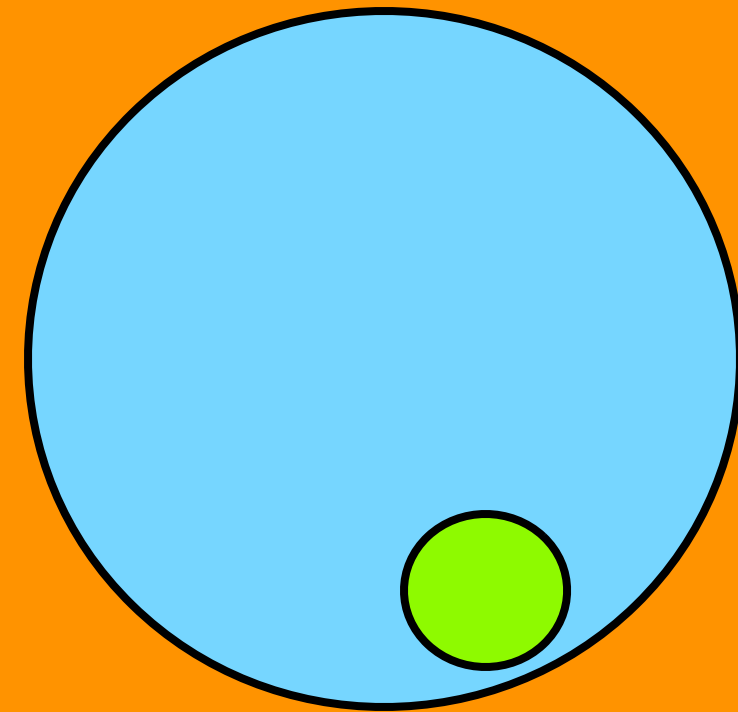
3 W

So viel Fläche braucht man, um die ganze Menschheit mit Sonnenstrom zu versorgen



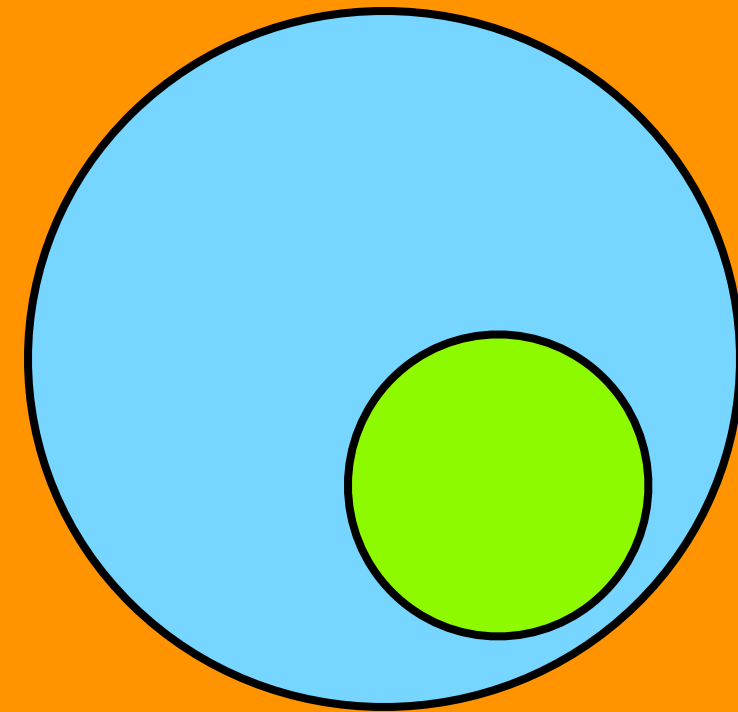


Worldwide electric
energy produced:
19.800 TWh



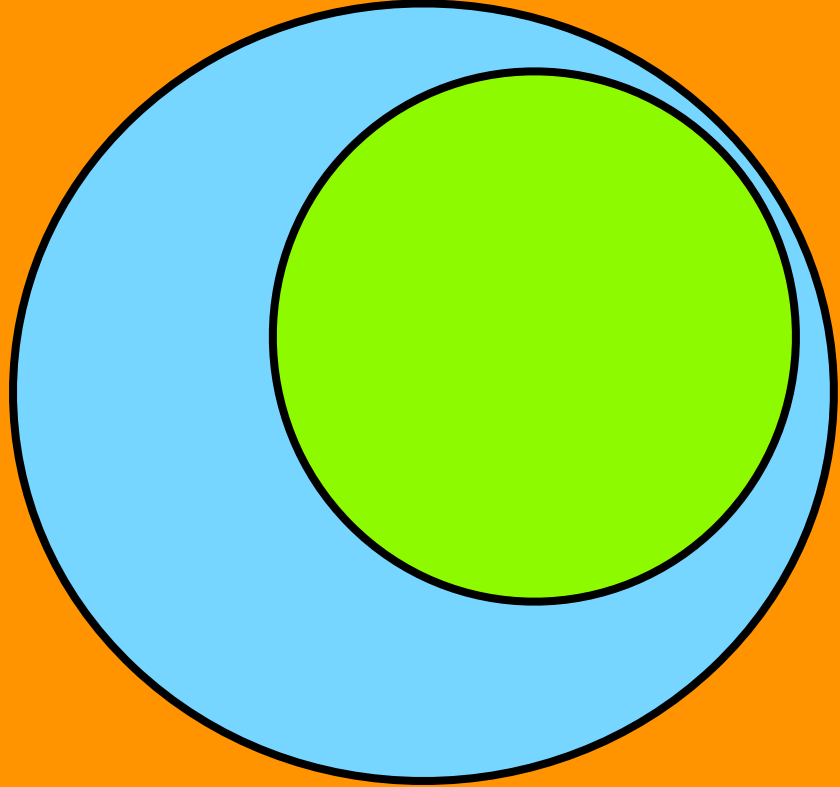
**Renewable Electric
Energy 2015: 722
TWh**

Worldwide electric
energy produced:
19.800 TWh



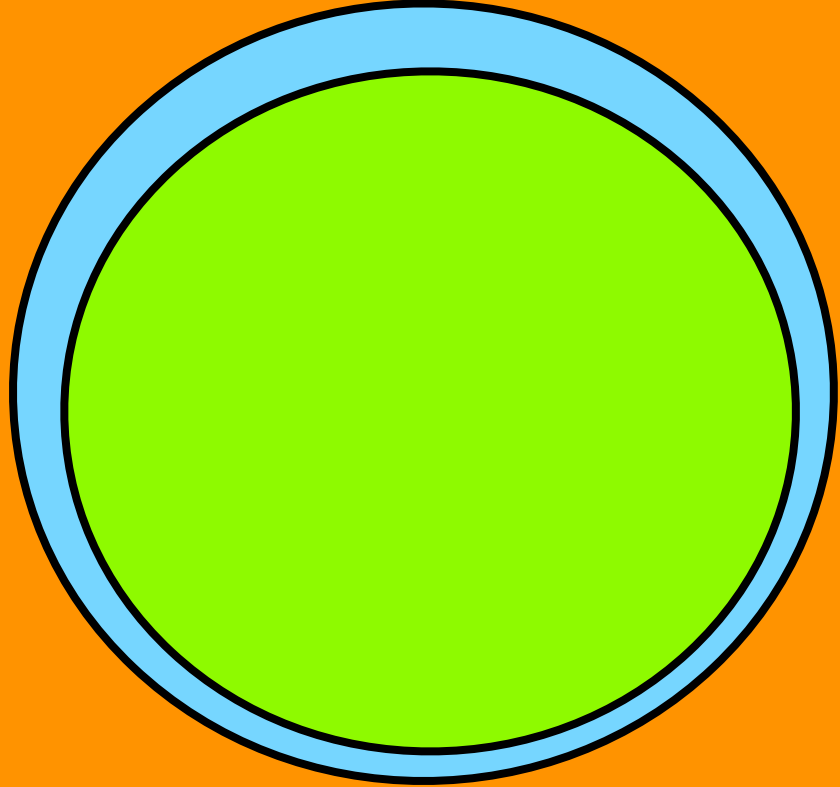
**Renewable Electric
Energy 2020: 4200
TWh**

Worldwide electric
energy produced:
23.000 TWh

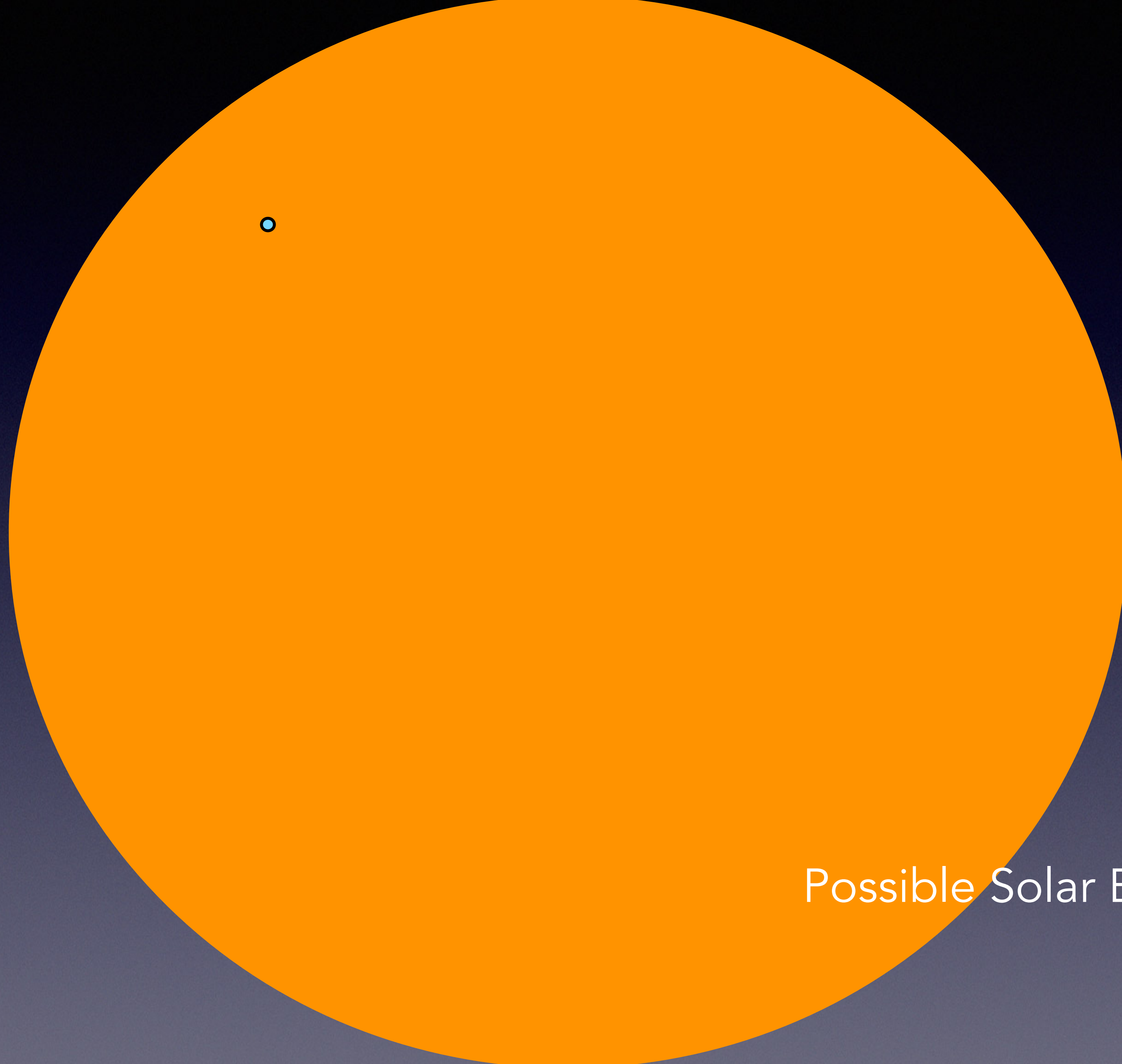


**Renewable Electric
Energy 2030: 12000
TWh**

Worldwide electric
energy produced:
23.000 TWh



**Renewable Electric
Energy 2050: 21000
TWh**



Possible Solar Energy per year:
3.500.000 TWh



DIE STEINZEIT IST AUCH NICHT AM MANGEL
AN STEINEN ZU ENDE GEGANGEN...

[HTTPS://WWW.FASTCOMPANY.COM/90207375/THE-WORLDS-FIRST-HIGH-TECH-ECO-VILLAGE-WILL-REINVENT-SUBURBS](https://www.fastcompany.com/90207375/the-worlds-first-high-tech-eco-village-will-reinvent-suburbs)

The world's first "high-tech eco village" will reinvent suburbs





USING AQUAPONIC FARMING WE CAN DECREASE LAND USE WITH

98%



...AND GROW 100% ORGANIC PRODUCE, AND PROTEIN FROM FISH, WHILEST HAVING THE CAPACITY TO GROW

10 TIMES MORE PRODUCE IN THE SAME FOOTPRINT AS TERRESTRIAL FARMING

AND DECREASING WATER CONSUMPTION WITH

90%







SOCIAL SPACES

SOCIAL SPACES ARE CREATED BETWEEN THE BUILDINGS, TO ENSURE A COMPLETE INTEGRATION BETWEEN FOOD PRODUCTION AND THE HOUSING UNITS.

SUSTAINABLE CITY DUBAI





An aerial photograph of a residential development. The central feature is a large green space with a prominent white dome structure. The surrounding area is filled with modern, multi-story residential buildings with balconies. A tennis court is visible in the bottom right corner.

**3 Bedroom
Courtyard Villa**

Built up Area
3,382 - 3,423 sq ft

FLOOR PLANS

A series of floor plan diagrams for the 3 Bedroom Courtyard Villa. The plans show the layout of the ground floor, first floor, and roof terrace. The diagrams are color-coded and include labels for various rooms and areas. A large teal banner is overlaid on the top right of the floor plan section.



SHANGHAI'S ART DISTRICT

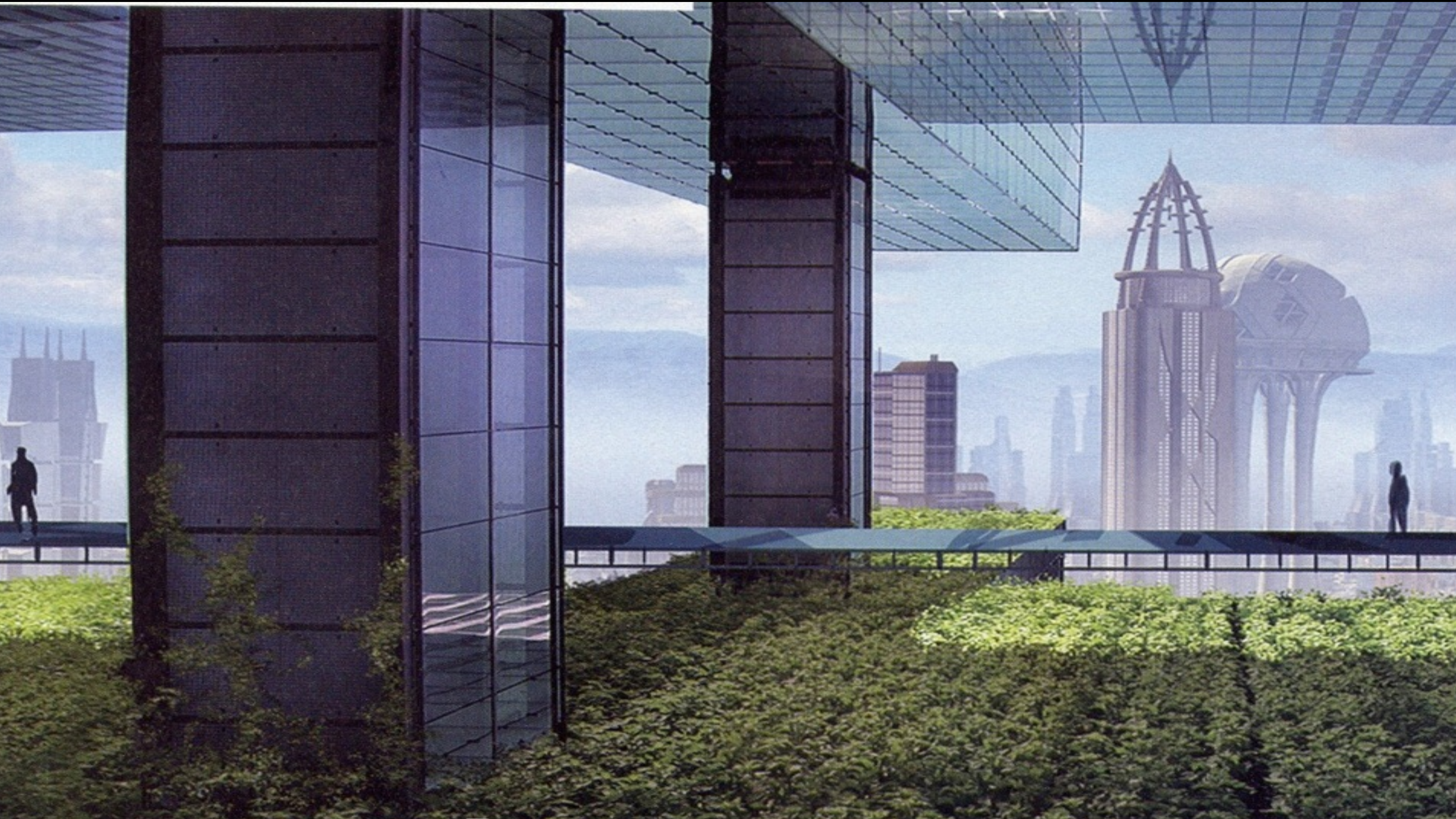


CHINA:

LIUZHOU FOREST CITY (STEFAN BOERI ARCHITETTI)









BIG/Bjarke Ingels Group Dortheavej Residence Copenhagen, Denmark, 2018

A modern residential courtyard at dusk. The scene features a central cobblestone path flanked by low hedges and two wooden benches. In the background, several modern houses with dark facades and large, irregularly placed windows are visible. Some windows are illuminated from within, casting a warm glow. A woman in a light-colored coat and a man in a dark suit are walking away from the viewer on the path, with a small child between them. The sky is a deep blue, and the overall atmosphere is serene and contemporary.

Social Connectivity
(meandering pathways)



Landscaping to encourage Biodiversity

A modern architectural scene at dusk. The central focus is a large, triangular building with a green-tinted, vertically-slatted facade. A square window is set high on the facade, reflecting the sky and trees. Below it, a horizontal window is partially obscured by a row of dark, dense bushes. To the left, a red building with a similar slatted texture is visible, partially hidden by trees. The sky is a mix of soft pinks and blues, with a few birds flying in the distance. In the foreground, there's a paved area with a dark wooden bench, and large, flat rocks. The word "Modularity" is written in a clean, white, sans-serif font across the middle of the image.

Modularity





PENDA DESIGN, TORONTO







Henning Larsen reveals visuals for Copenhagen's "first all timber neighbourhood"



Henning Larsen reveals visuals for Copenhagen's "first all timber neighbourhood"



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Architecture studio Feld72 have completed the Maierhof housing estate in the Alpine town of Bludenz, Austria, comprising eight timber buildings in a mountain landscape.



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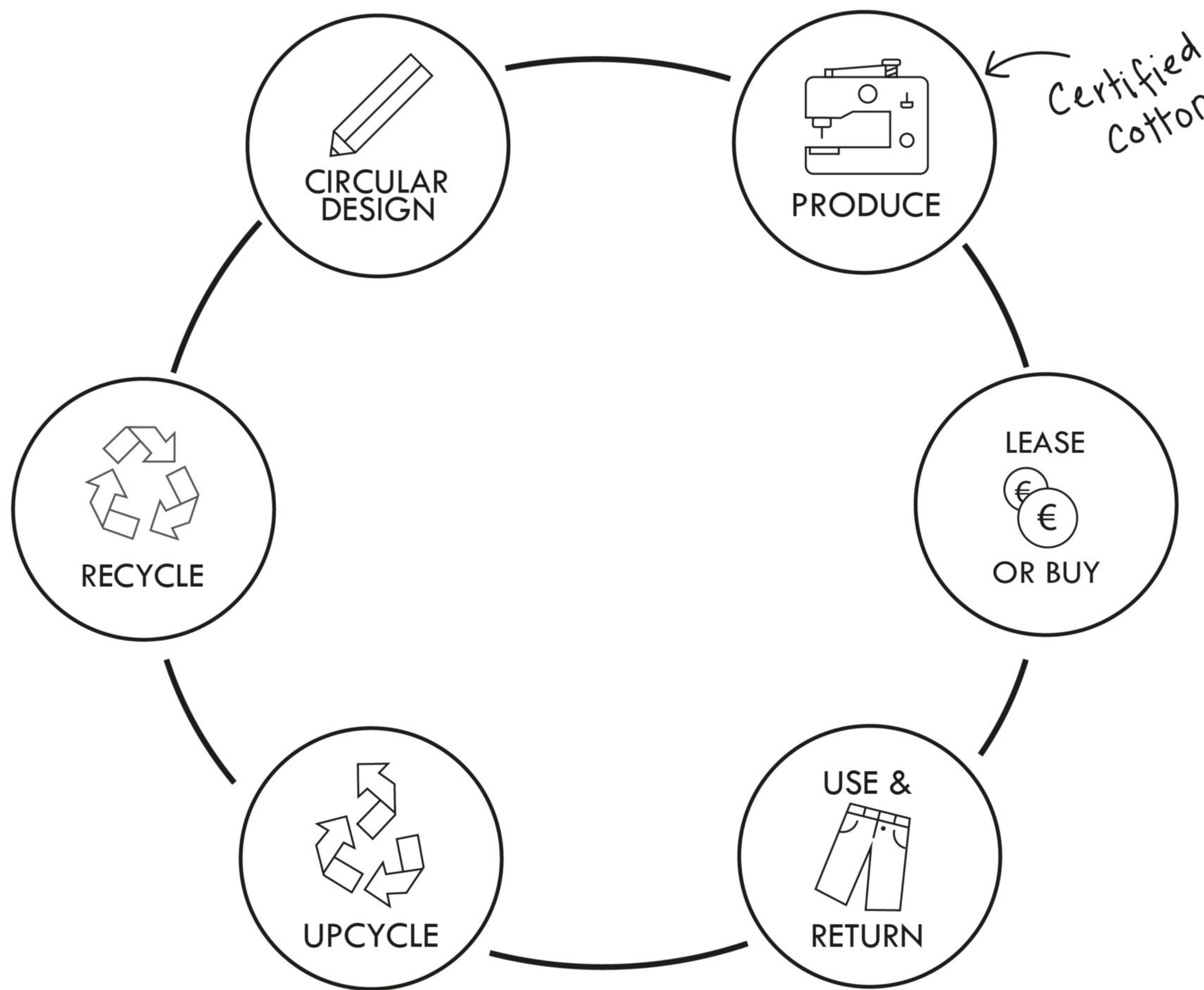




Zirkuläre
Ökonomie







CIRCULAR DESIGN

PRODUCE

LEASE

OR BUY

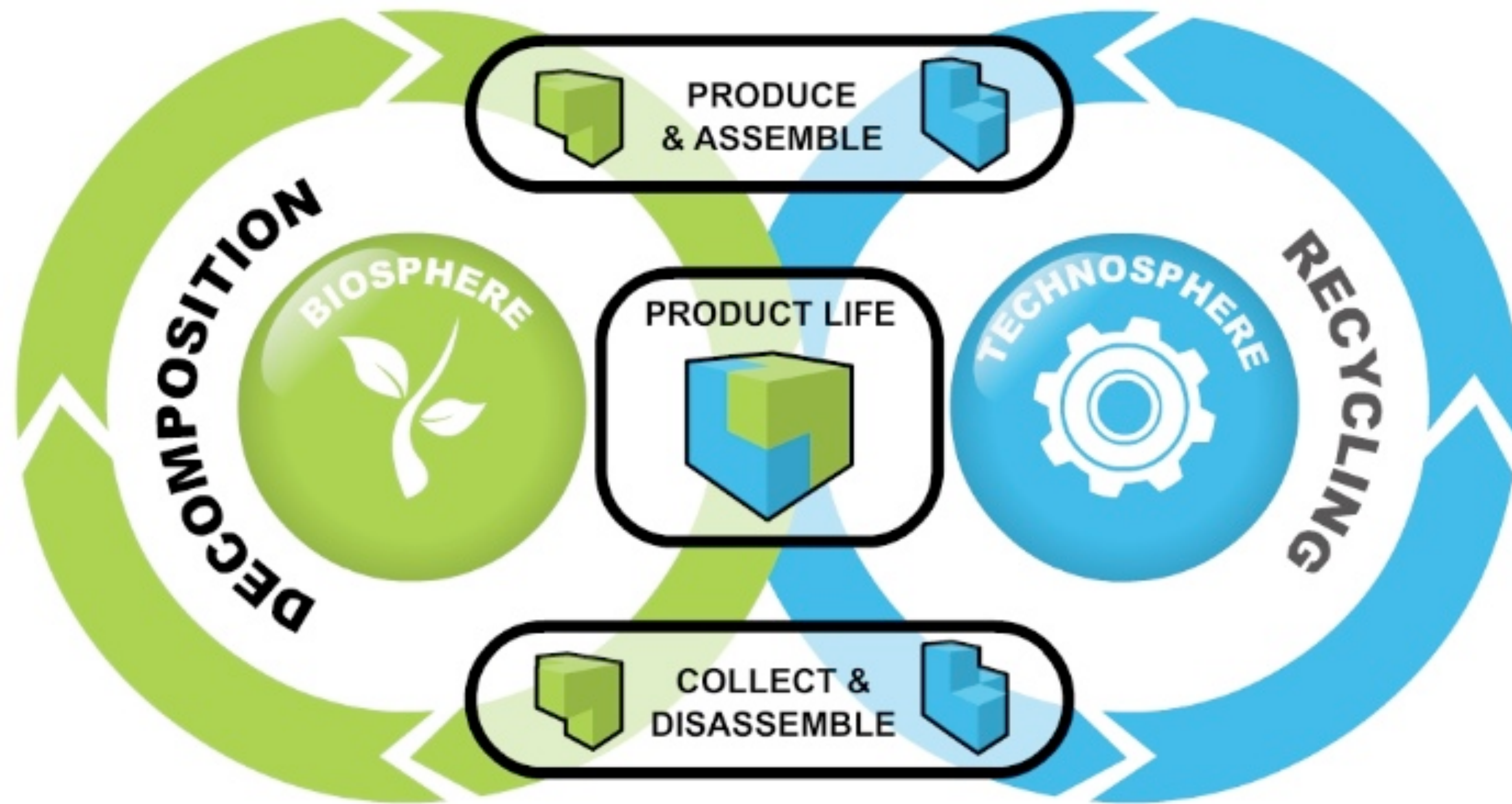
USE &

RETURN

UPCYCLE

RECYCLE

Certified Cotton







Michael Braungart



WAS BEDEUTET DAS FÜR DEN HAUSBAU?

ENERGIESPAREN IST UNCOOL

VOM PASSIVHAUS ZUM AKTIVHAUS



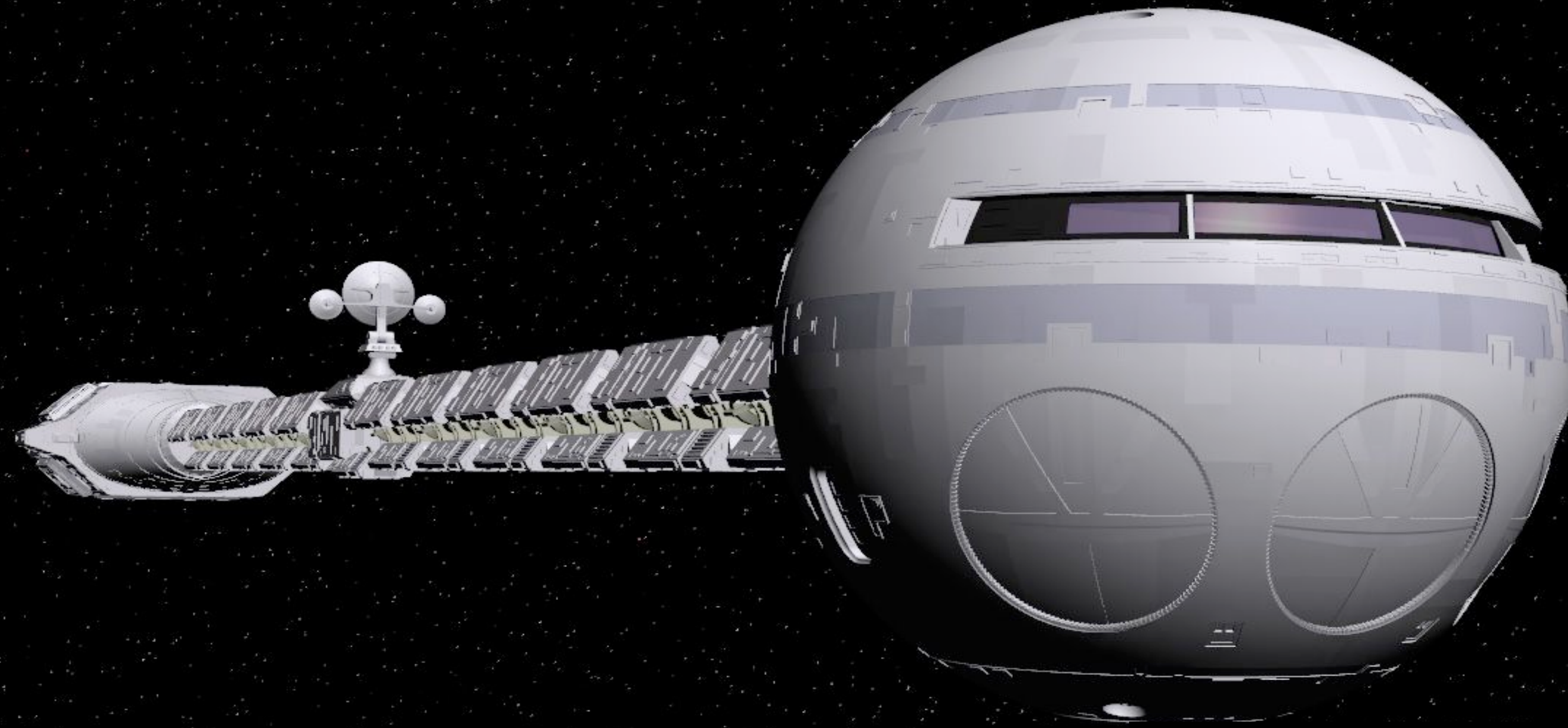
EIN WOHNEXPERIMENT FÜR MORGEN

FUTURE EVOLUTION HOUSE

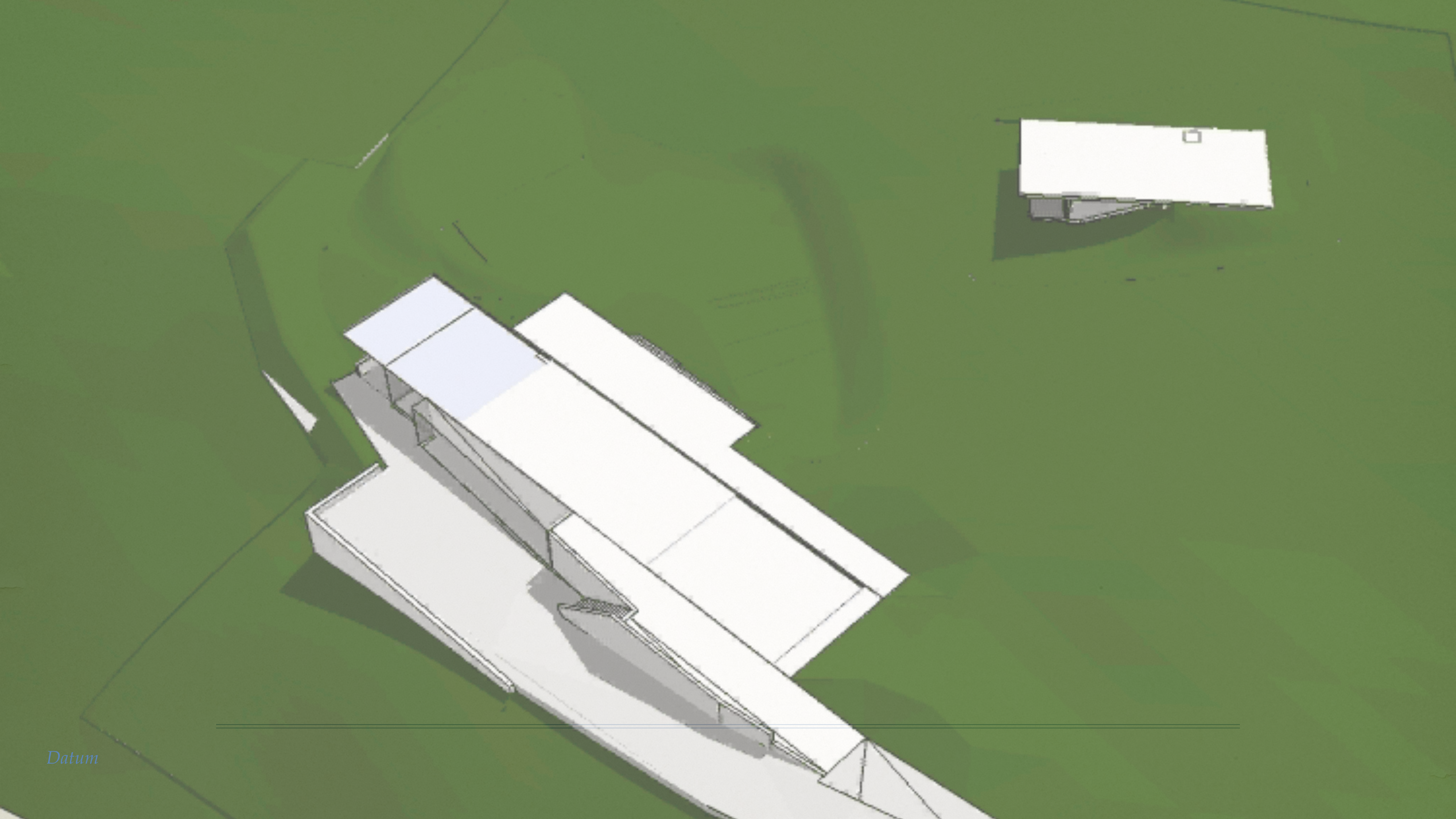
Oonas Idee



Meine Idee







Der Grundriss der Industrie-Gesellschaft

Schlafzimmer
(zum Schlafen)

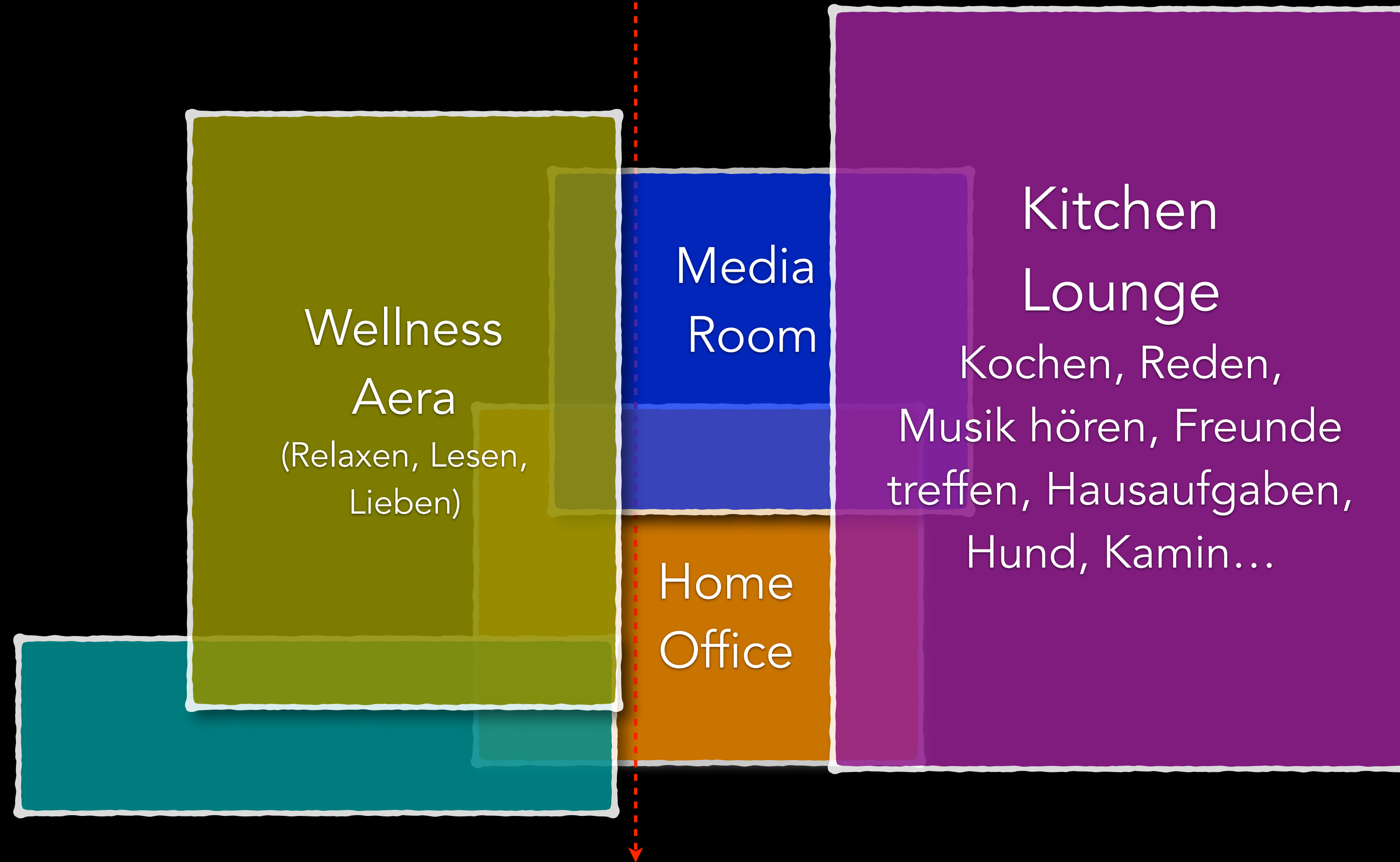
Wohnzimmer
(Repräsentanz)

Bad/Sanitär
(Nasszelle)

Küche
(Arbeitsplatz der Frau)

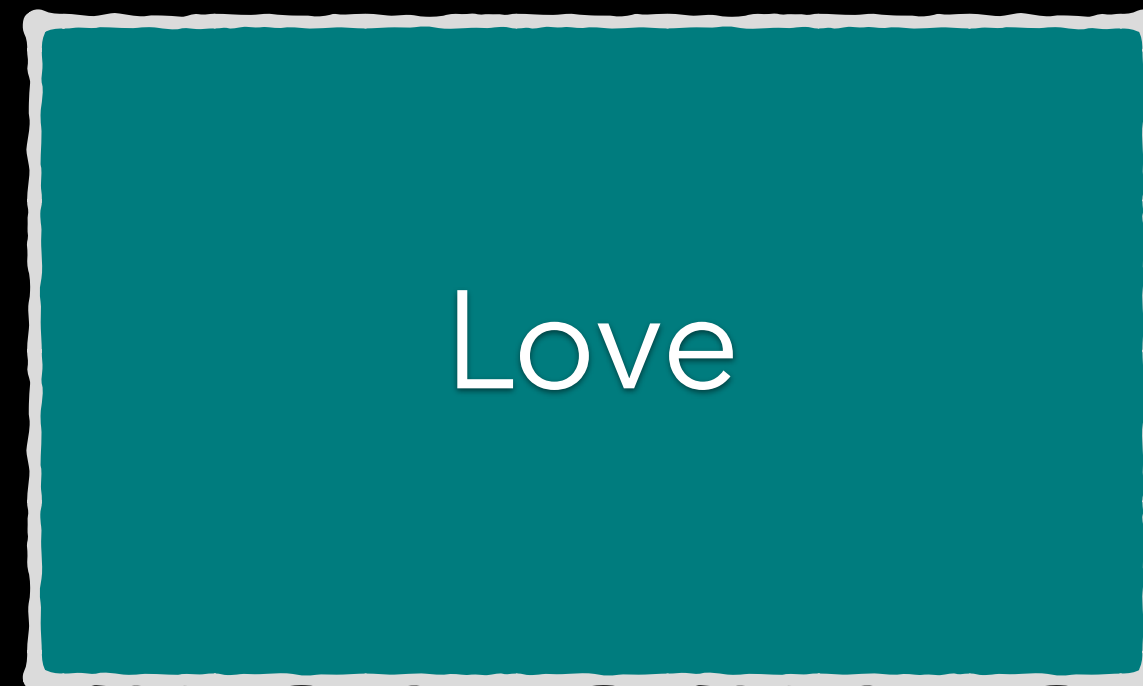
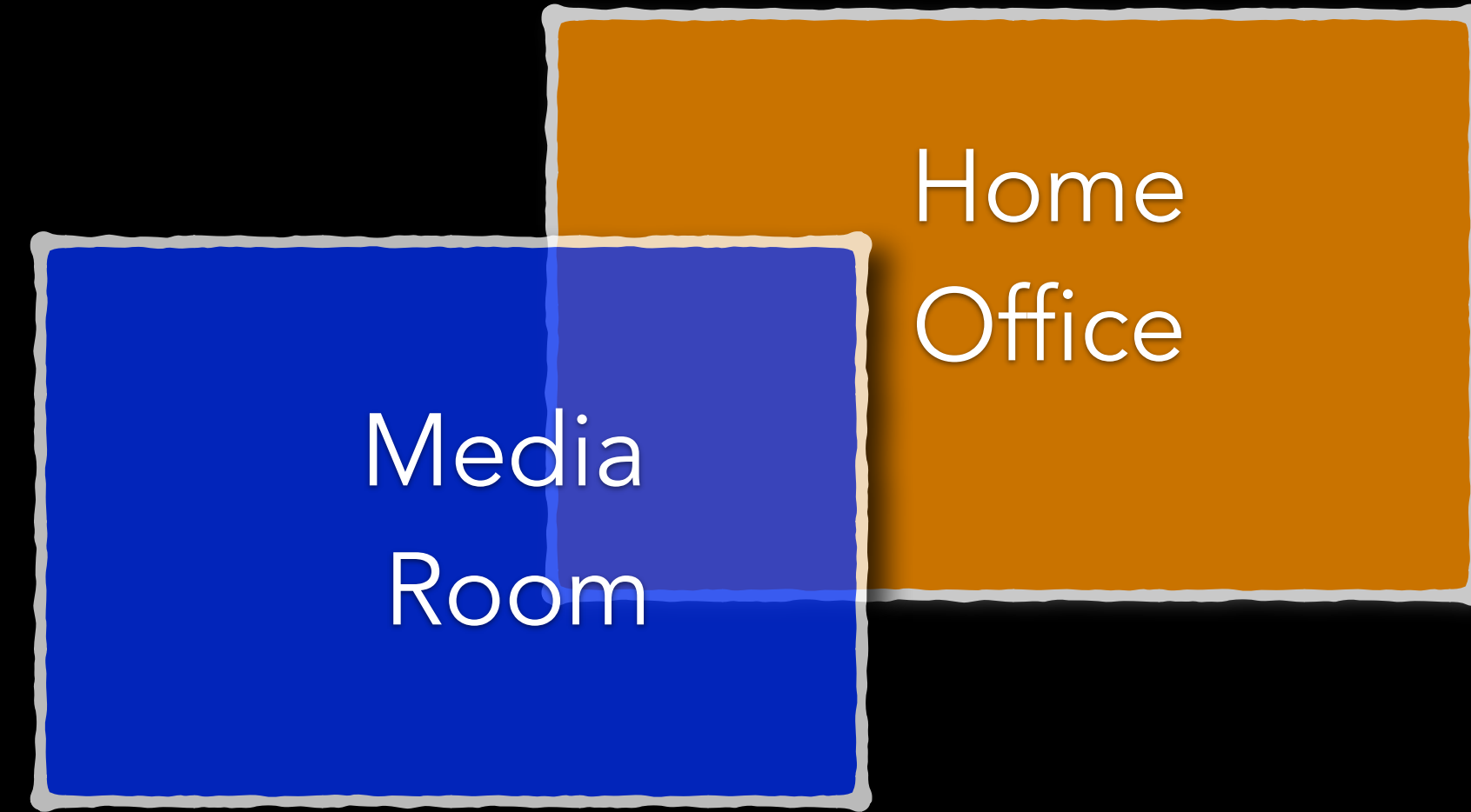
Intimitätsgrenze

Der Grundriss der Zukunft (Wissensgesellschaft)



Intimitätsgrenze

Individualisierte
Familie:
Das Future
Evolution House



Intimitätsgrenze

Fassadenintegrierte Solarpaneele

Besucher-Leitsystem

Anstrengender
Nutzgarten

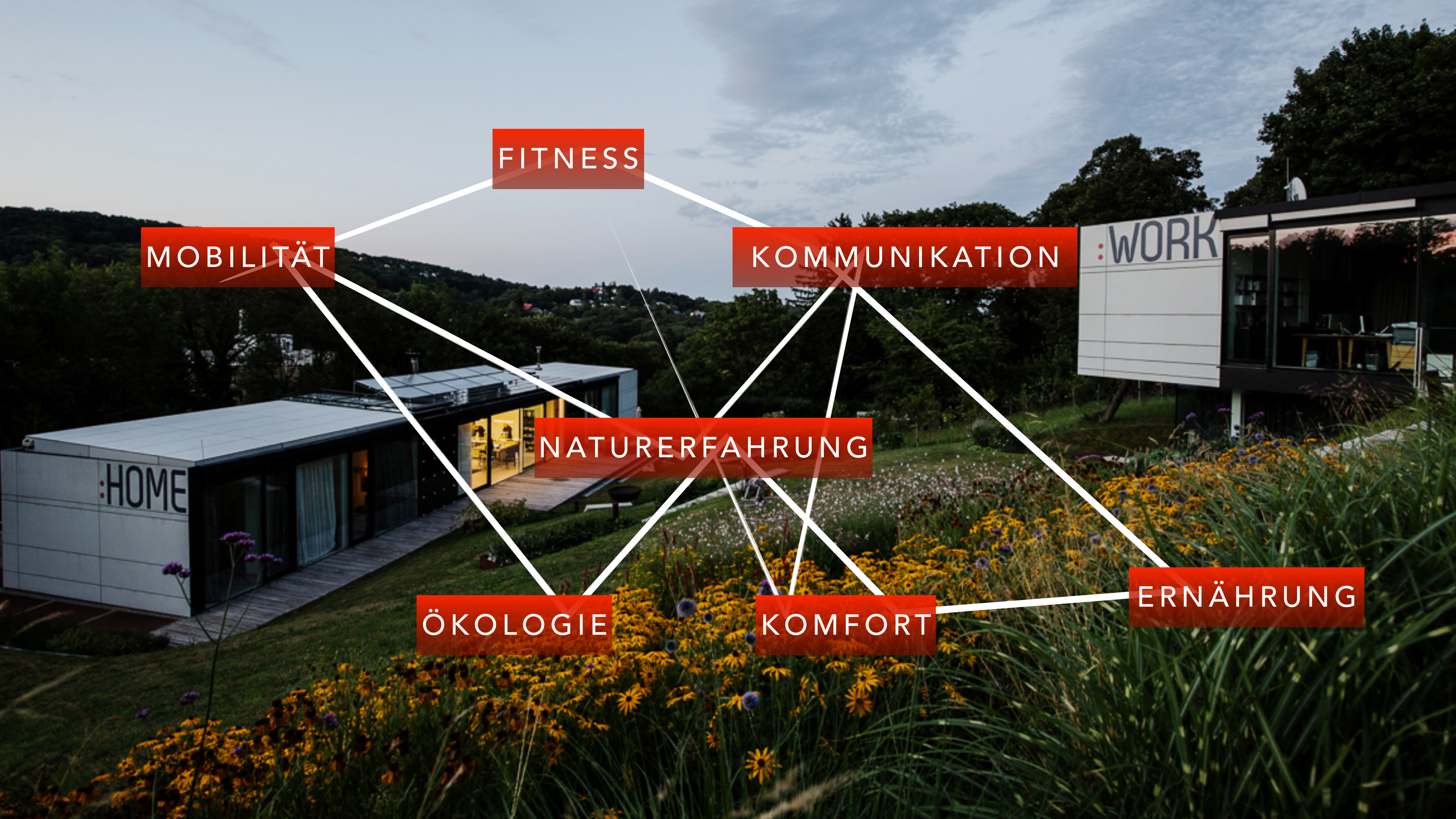


KEIN Fernseher
KEIN Computer
Nondigital Zone

Offenes
Feuer

Bade-Salon





MOBILITÄT

FITNESS

KOMMUNIKATION

NATURERFAHRUNG

ÖKOLOGIE

KOMFORT

ERNÄHRUNG

:WORK

:HOME



FITNESS

MOBILITÄT

HAUSTECHNOLOGIE

INTEGRIERTE
SERVICES

WASSER

WARTUNG/
ADAPTION

LICHT

ENERGIE

GARTENGESTALTUNG

:HOME

:WORK

WeBuild

SUSTAINABILITY'S GOAL IS TO
CREATE POSSIBILITIES,
NOT TO
LIMIT OPTIONS.

„This is where I would like to go with sustainability. Make it cool. Make it nice. Make it useful. And improve quality of life in the process.“

–BJARKE INGELS









BJARKE INGELS GROUP

FLOATING CITIES







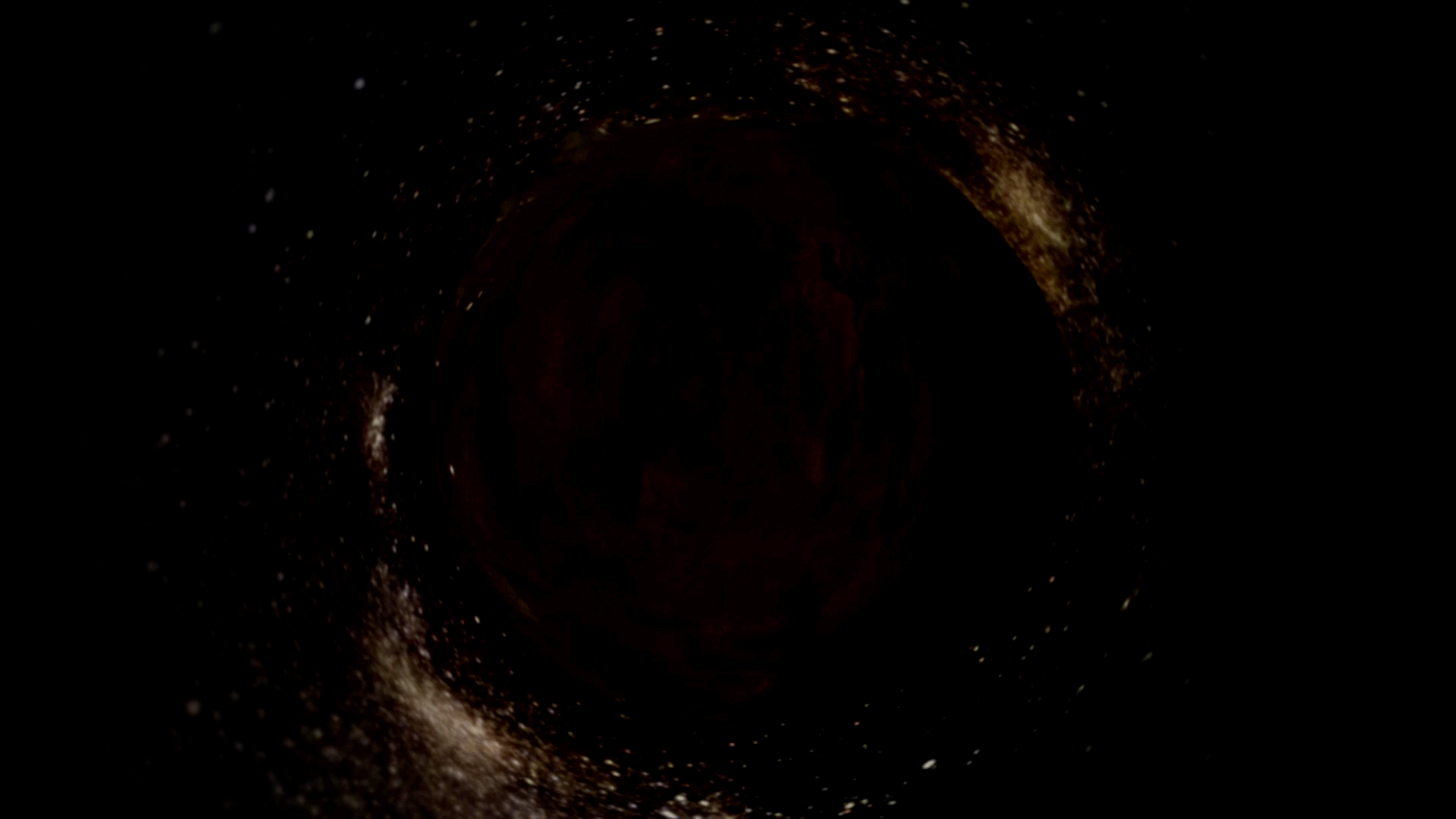






WIR SIND GERADE ERST
ANGEKOMMEN...





ZUKUNFTSINSTITUT.DE/AT

Das Morgen besser denken