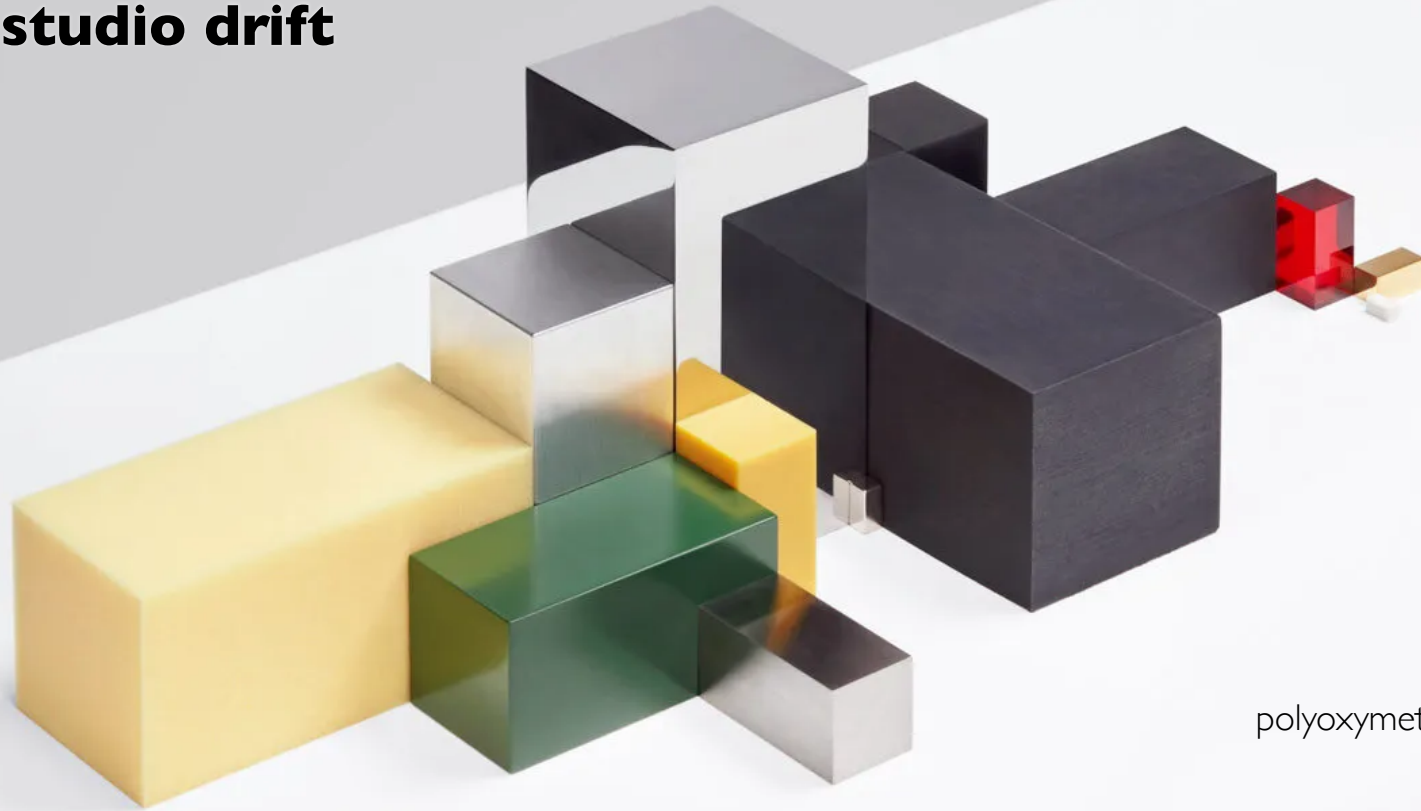


CreativeLAB rethink*rotor

Ina-Marie Orawiec, OX2architekten GmbH
“becoming circular” by rethink*rotor - background and objectives

studio drift



glass fiber,
gel, rubber, leather,
steel, stainless steel,
aluminum, brass,
nickel, cobalt,
polyurethane foam,
lacquer,
thermoplastics ABS,
polyoxymethylene, polycarbonate,

~~BICYCLE~~



WASEDA
University

h_da

darmstadt university
of applied sciences
faculty architecture

member of
-eur+
UNIVERSAL UNIVERSITY
OF TECHNOLOGY

OX2architekten®

rethink **rotor**

TOKOROLABS
RESEARCHERS

BICYCLE



technical innovation
mechanics
mobility easy
moved by muscle power
independ from fuels
transportation
status symbol
confidence

REVOLUTION



PRIMARY RAW MATERIALS



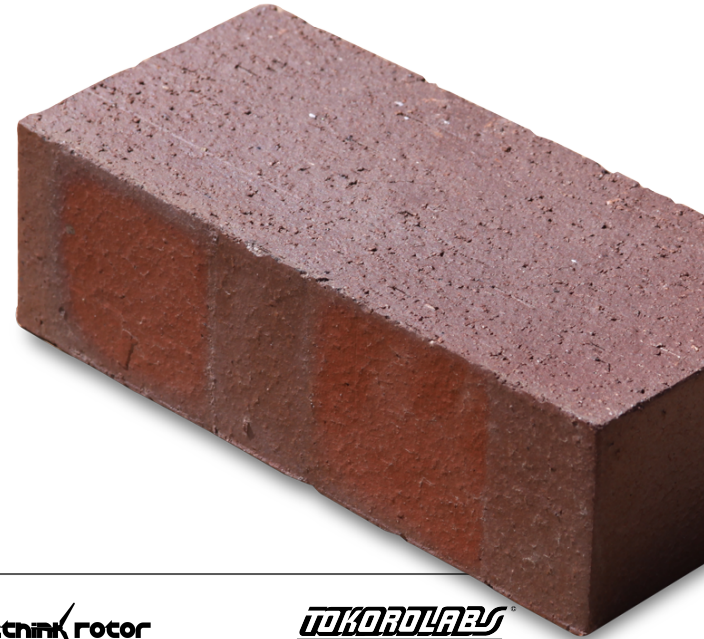
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of applied sciences
faculty architecture



OX2architekten®





LINEAR ECONOMY

- 1. Extraction of raw materials and consumption of energy;**
- 2. Conversion of these resources into products;**
- 3. Distribution of these products for consumption;**
- 4. Disposal of these products**





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TOKORO LABS
RESEARCHERS

CIRCULAR ECONOMY



- 1. Sustainable procurement**
- 2. Ecological product design**
- 3. Functionality economy;**
- 4. Extension of useful life;**

SECONDARY RAW MATERIALS

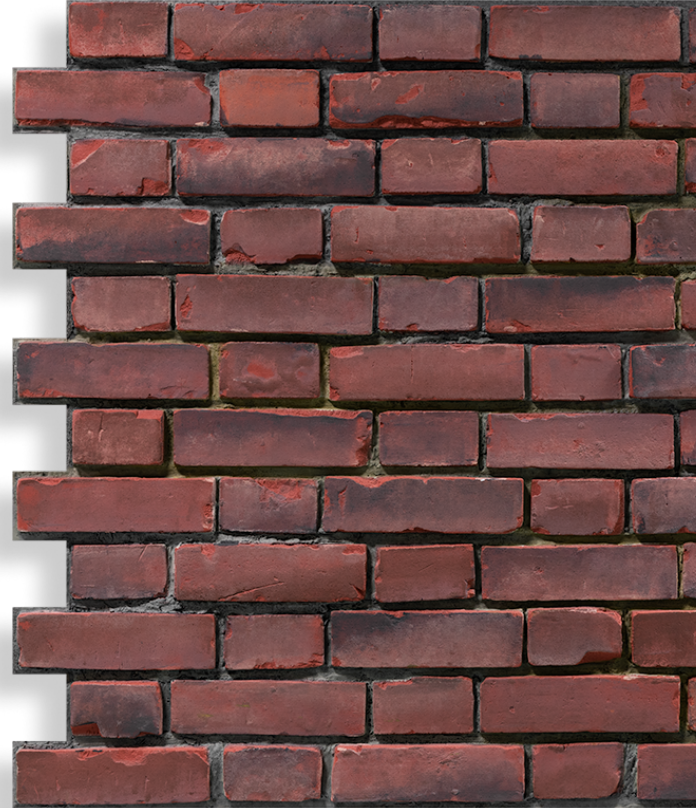


22

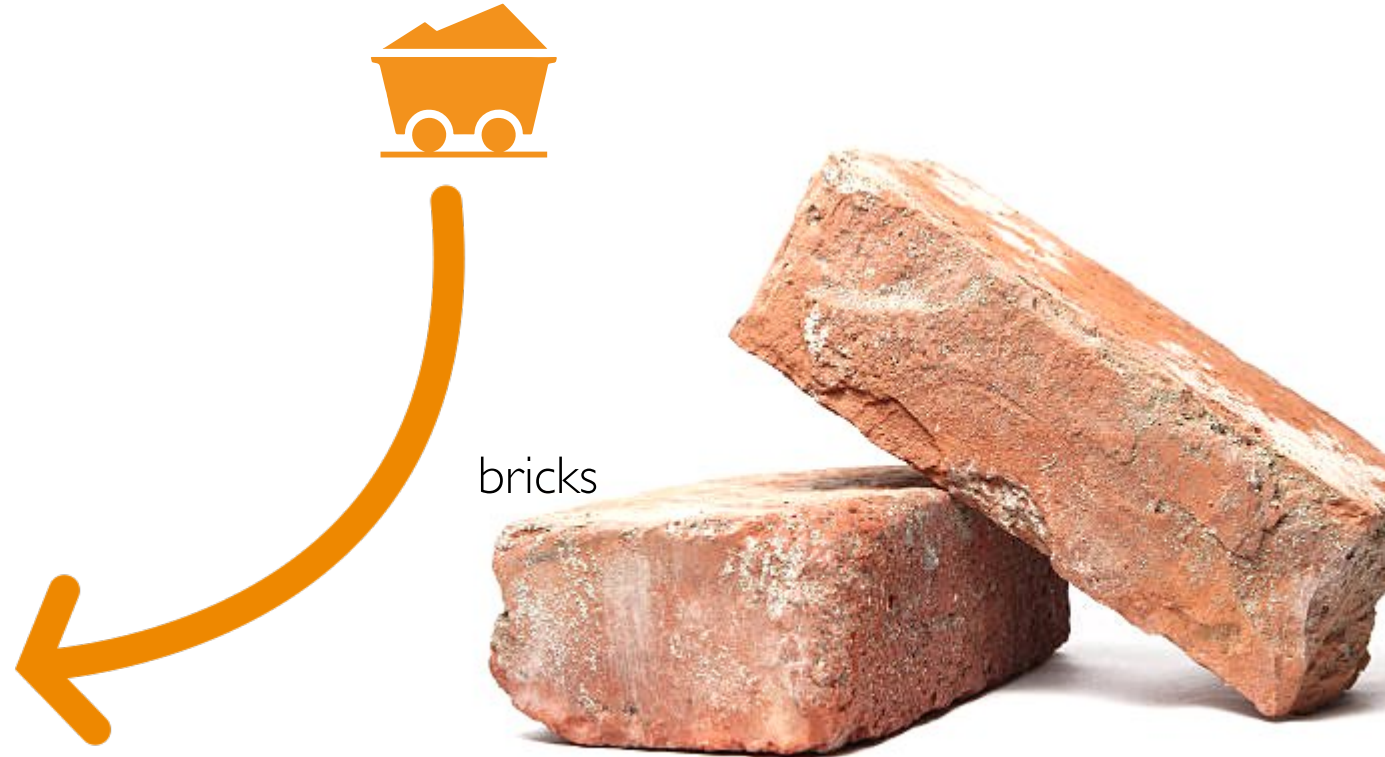
RETHINK • REFUSE •
REDUCE
reuse • repair • refurbish



brick wall



remanufacture





recycle

brick chippings





repurpose • reincarnated



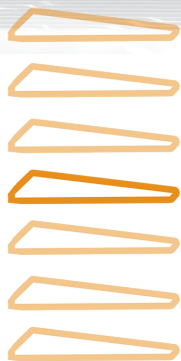
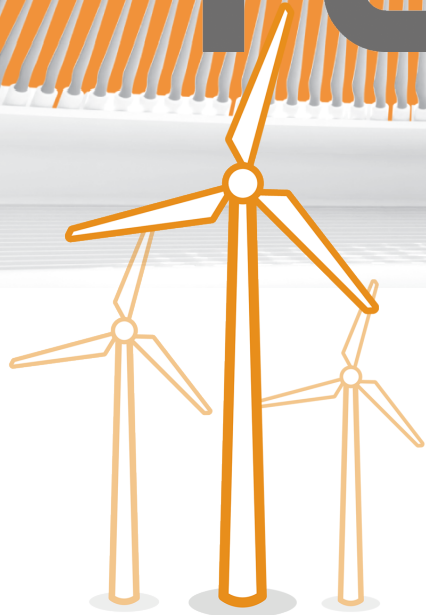
TERTIARY RAW MATERIALS





rethink rotor

rethinking rotor



RECOVERY

reuse of rotor blades and components

**chemical separation of the glass fiber
from the plastic matrix**

**crushing and recycling as
concrete aggregate**

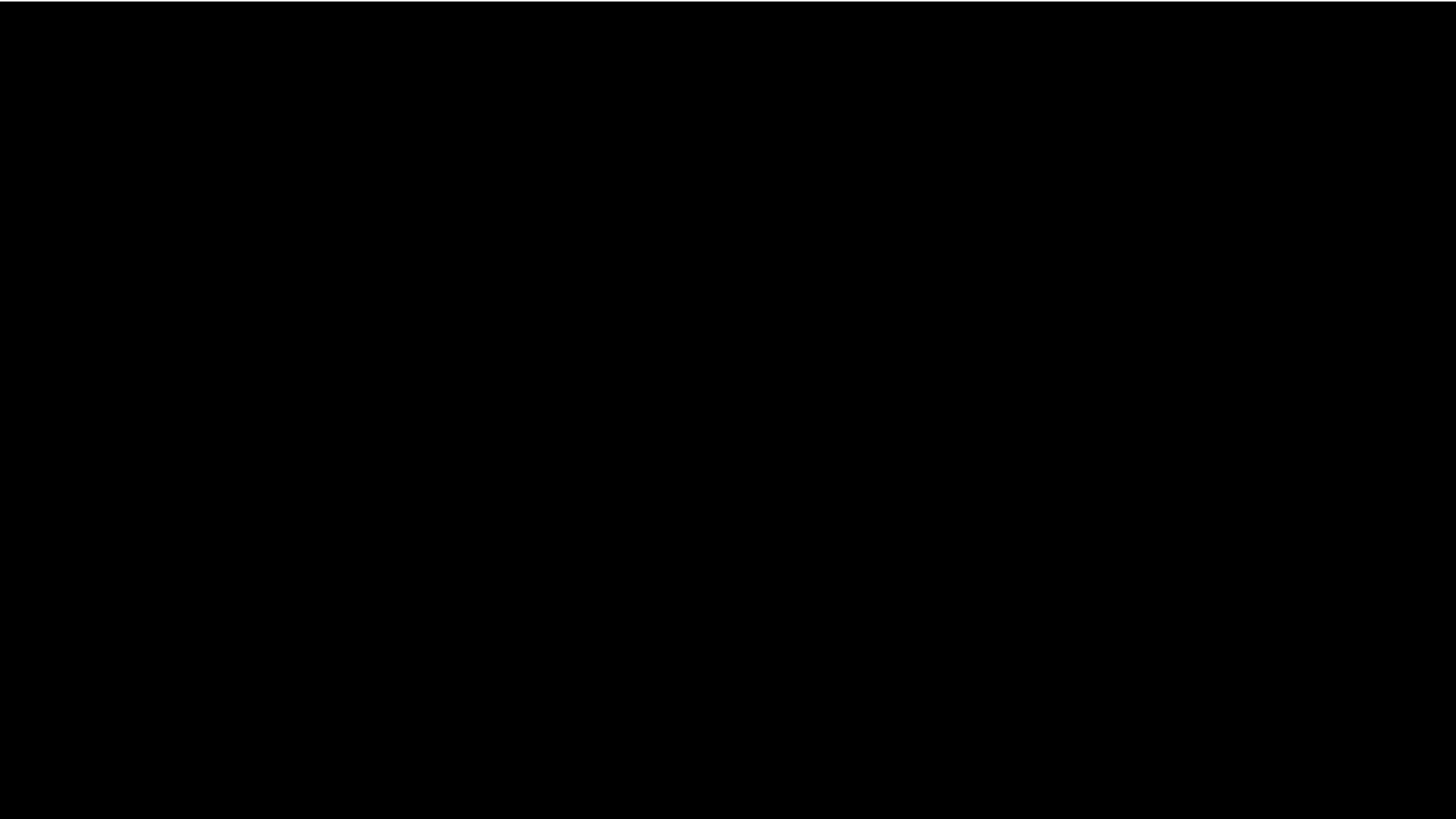
**crushing and recycling in
cement factories (partial substitution of raw material)**







rethink  **rotor**





KULTUR- UND
KREATIVPILOT*INNEN
DEUTSCHLAND

Ausgezeichnet von der
Bundesregierung 2024



Finalistin im Creative
Business Cup Global



Deutsche Siegerin Creative
Business Cup National



Ausgezeichnet vom
Ministerium für Wirtschaft,
Industrie, Klimaschutz
und Energie NRW

CreativeLab

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Partner*innen des Forschungsprojekt power*stage



Konsortialführung:

OX2architekten



ox2.de

Konsortialpartner*innen:



fba.h-da.de

KIMIKO



kimiko-festival.de

Voltfang



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assoziierter Partner*in:



Das Forschungsprojekt power*stage wird durch die Europäische Union und das Land Nordrhein-Westfalen im Rahmen des EFRE/JTF-Programms NRW 2021-2027 gefördert:



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Investition in unsere Zukunft
Europäischer Fonds
für regionale Entwicklung

Ministerium für Wirtschaft,
Industrie, Klimaschutz und Energie
des Landes Nordrhein-Westfalen



「ご静聴いただき、誠にありがとうございました。」