

circular - chaos team

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circular - chaos principle

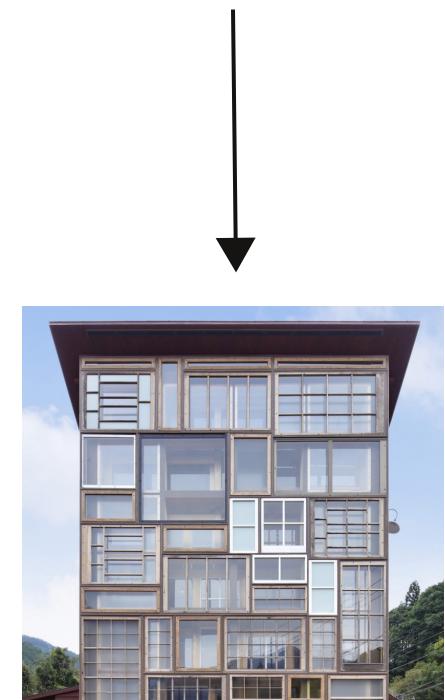
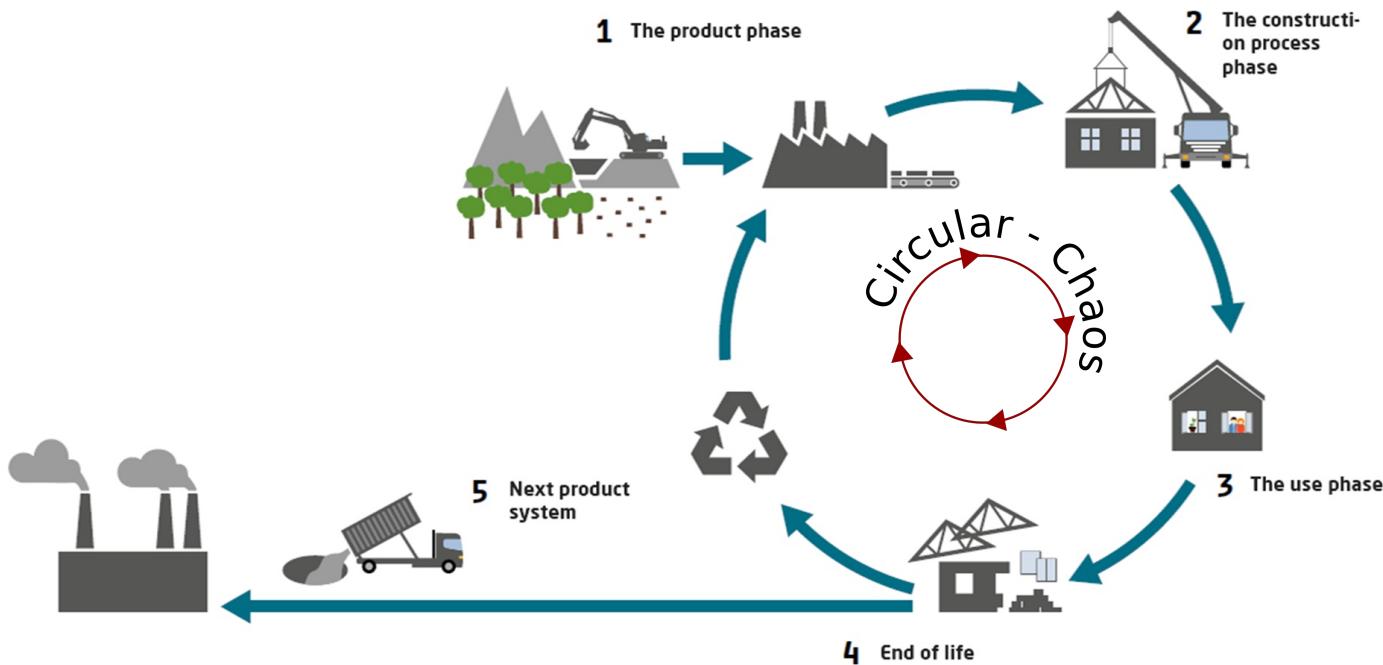


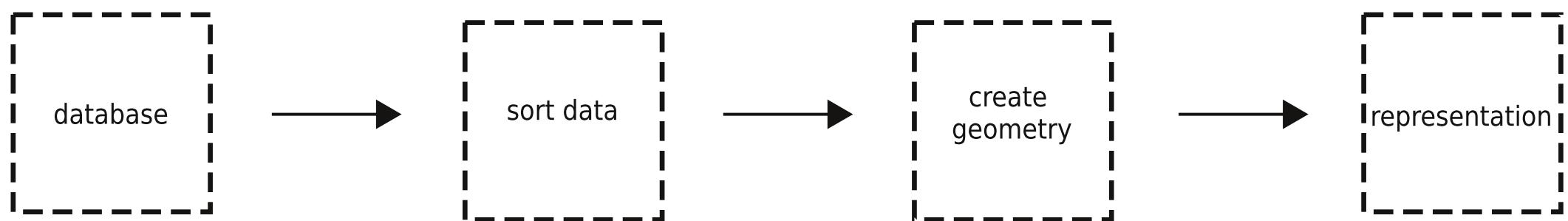
Image Sources:

Image 1: The Danish Transport and Construction Authority, <https://baeredygtighed.dtu.dk/en/teknologi/cirkulaert-byggeri>, 240203

Image 2 : iStockWiederverwertbare Abfälle Von Alten Häusern Und Gebäuden Stockfoto und mehr Bilder von Baugewerbe, 240203

Image 3: Hiroshi Nakamura & NAP, <https://inhabitat.com/zero-waste-japanese-town-builds-a-unique-building-from-abandoned-materials/>, 240203

circular - chaos process



circular - chaos user inputs



IFC -modell

```
type,name,height,width,depth,material,number,used,unused
window,fenster1,1.1,0.63,0.06,wood,1,0,1
window,fenster2,0.82,0.53,0.06,wood,4,0,4
window,fenster3,0.8,0.54,0.075,wood,1,0,1
window,fenster3,1.09,0.63,0.06,wood,1,0,1
window,fenster4,0.65,0.54,0.06,wood,1,0,1
window,fenster5,1.2,0.55,0.05,wood,13,0,13
window,fenster6,1.2,0.58,0.08,wood,4,0,4
window,fenster7,0.6,0.55,0.045,wood,4,0,4
window,fenster8,0.6,0.55,0.06,wood,2,0,2
window,fenster9,0.6,0.55,0.045,wood,4,0,4
window,fenster10,0.54,0.64,0.06,wood,15,0,15
window,fenster11,0.67,0.66,0.06,wood,3,0,3
window,fenster12,1.32,0.69,0.06,wood,5,0,5
window,fenster13,0.63,0.52,0.032,wood,1,0,1
window,fenster14,0.71,0.5,0.03,wood,1,0,1
window,fenster15,1.01,0.66,0.03,wood,1,0,1
window,fenster16,1,0.8,0.03,wood,1,0,1
window,fenster17,1,0.95,0.03,wood,1,0,1
window,fenster18,0.85,0.9,0.028,wood,1,0,1
window,fenster19,0.82,1.06,0.028,wood,1,0,1
window,fenster20,1.29,0.21,0.032,wood,1,0,1
window,fenster21,0.71,0.5,0.03,wood,1,0,1
window,fenster22,0.81,0.56,0.032,wood,1,0,1
window,fenster23,0.95,0.44,0.03,wood,2,0,2
window,fenster24,0.9,1.1,0.03,wood,1,0,1
window,fenster25,0.9,1.1,0.03,wood,1,0,1
window,fenster26,1.21,0.69,0.06,wood,2,0,2
panel,fensterladen1,1.23,0.62,0.03,wood,1,0,1
panel,fensterladen2,1.29,0.57,0.04,wood,60,0,60
door,ture1,1.97,0.92,0.03,wood,1,0,1
door,ture2,2.02,0.69,0.03,wood,1,0,1
door,ture3,2.03,0.87,0.03,wood,1,0,1
door1,ture4,2.03,0.71,0.06,wood,2,0,2
door2,ture5,2.03,0.72,0.06,wood,2,0,2
door,ture6,1.82,0.61,0.05,wood,2,0,2
```

list of reusable components



Circubi

id: 1006
Element: truss
Lifecycle: 2
Description: truss ramp east (upper)
Material: wood
Volume: 0.0285 m³
Materials in EPIC DB: Softwood kiln-dried
Density: 510 kg/m³
Embodied Energy: 998 kJ
Embodied Water: 1356 L
Embodied Emission: 60 kgCO₂
Manufacture Place: Zurich
Installation Date: 2023
Owner: ETH Zurich
Connected to: 1015
Remarks: Two trusses are nailed together as a ramp.

Previous Lifecycle Updated 21.06.2023

Creation of Database Group

example of
material passport
wit CSV download
option

Image Sources:

Image 1: https://superbloov.life/product_details/46084744.html, 240204

Image 2: Screen shot list, non-plan GmbH, 240204

Image 3: MaterialPassport-DTCC2023 CEA@ETTH, Araceli Rodriguez Vallejo, Emma Zeindl Cronin, Hanshuo Wu, Lukas Zink, Maxime Lanter, Yannik Reich,
<https://dtcc2023.pythonanywhere.com/?db=2&id=1009,240203>



Image Sources:

Image 1: Baubüro in situ, <https://www.immo-invest.ch/en/k118-ein-gebaeude-aus-bauabfaellen>, 240204