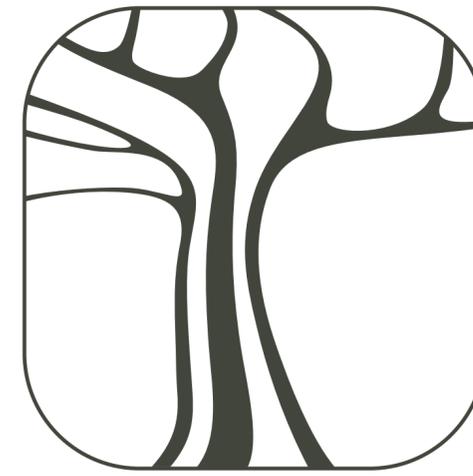
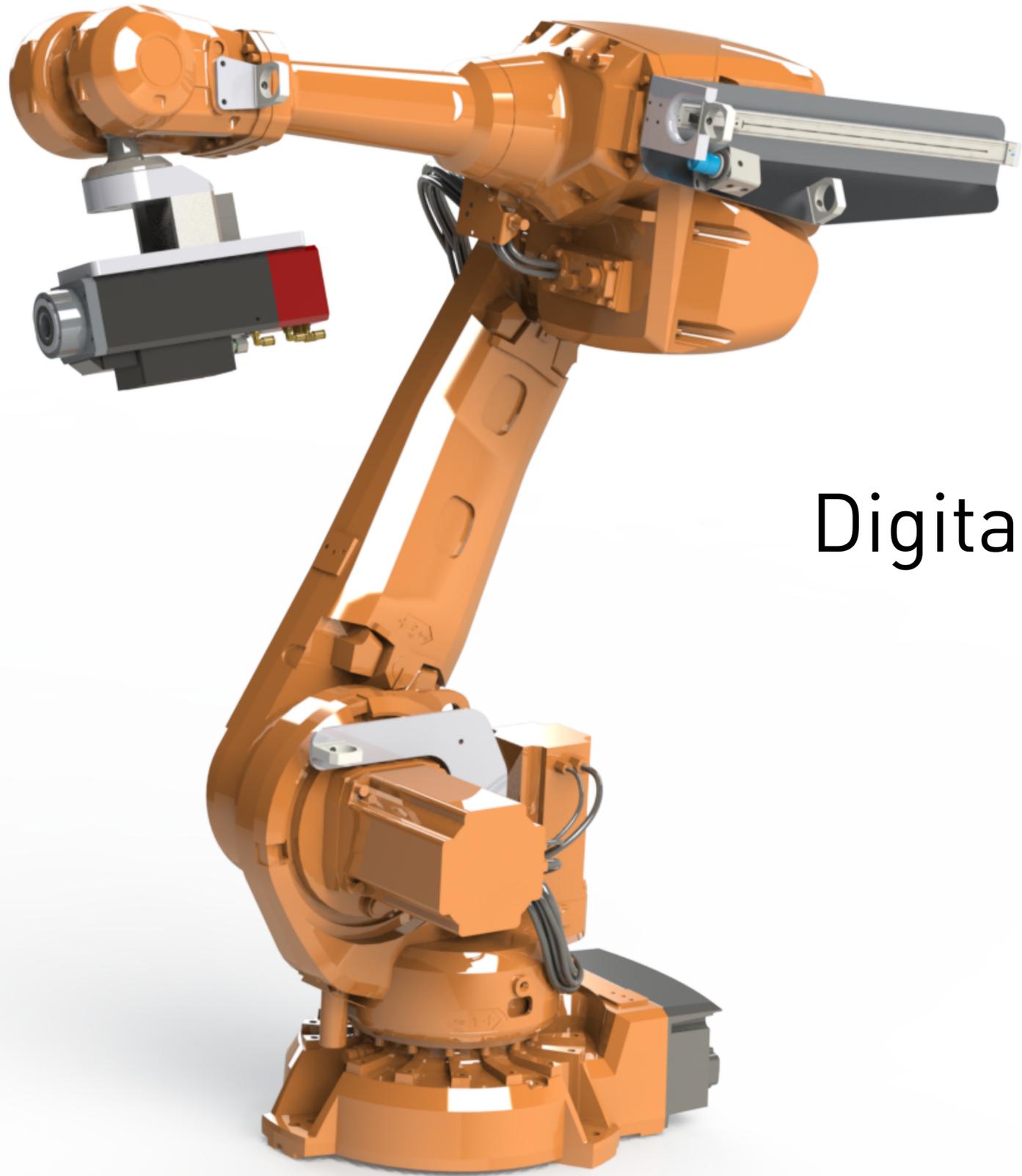


NTNU



NTNU  
Wood

PASI AALTO  
Centre Director  
+47 98025519  
[pasi.aalto@ntnu.no](mailto:pasi.aalto@ntnu.no)



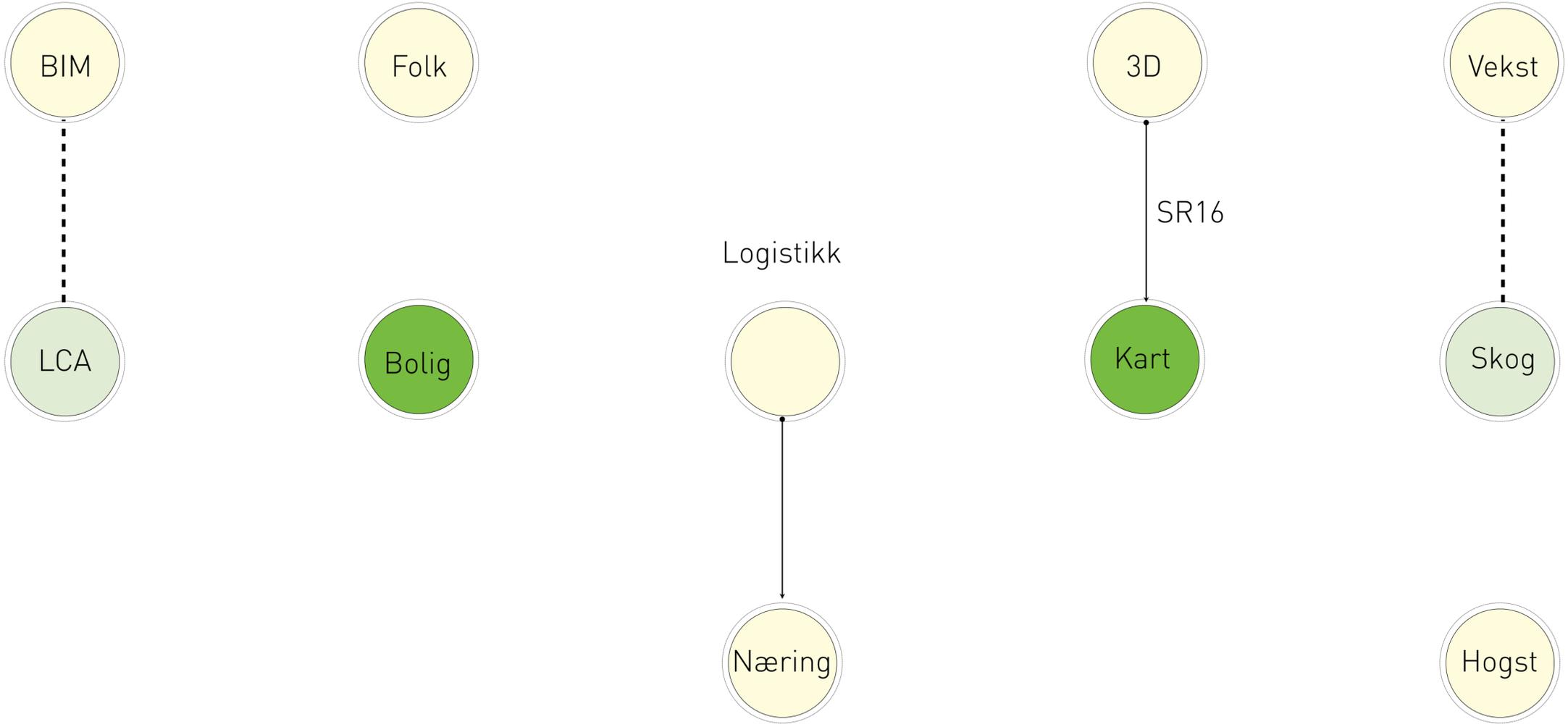
# Digitalisert konstruksjon og produksjon

PASI AALTO  
Centre Director  
+47 98025519  
[pasi.aalto@ntnu.no](mailto:pasi.aalto@ntnu.no)

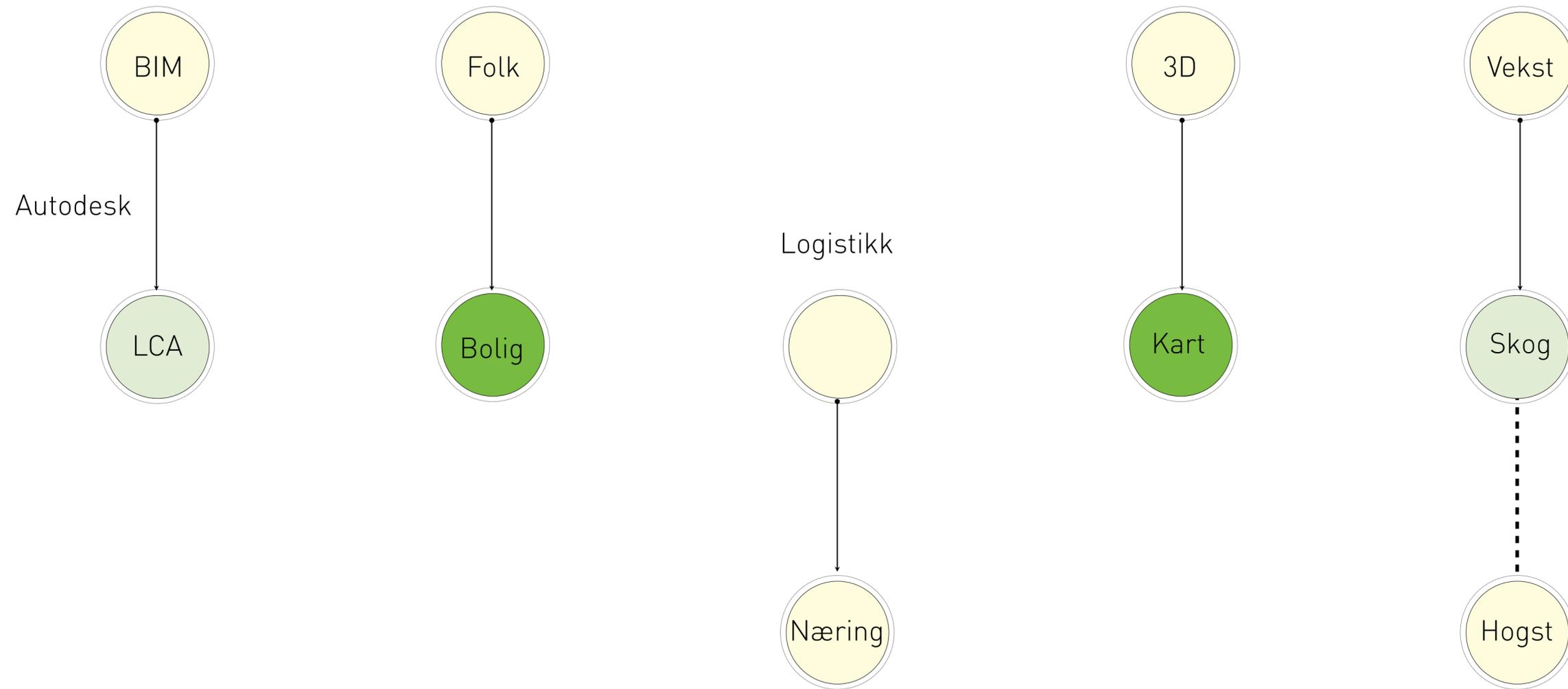


...ikke BIM

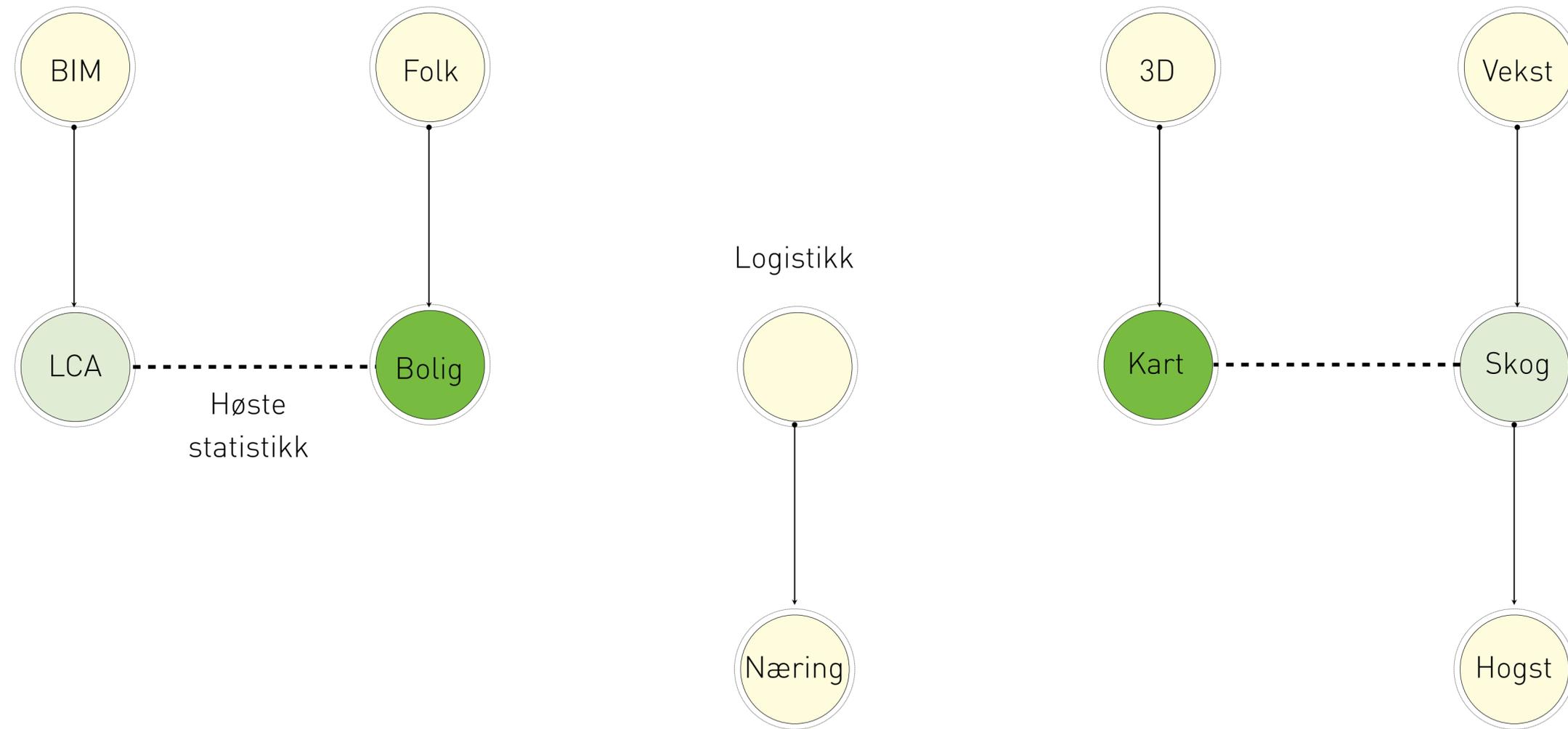
# Sporadiske koblinger



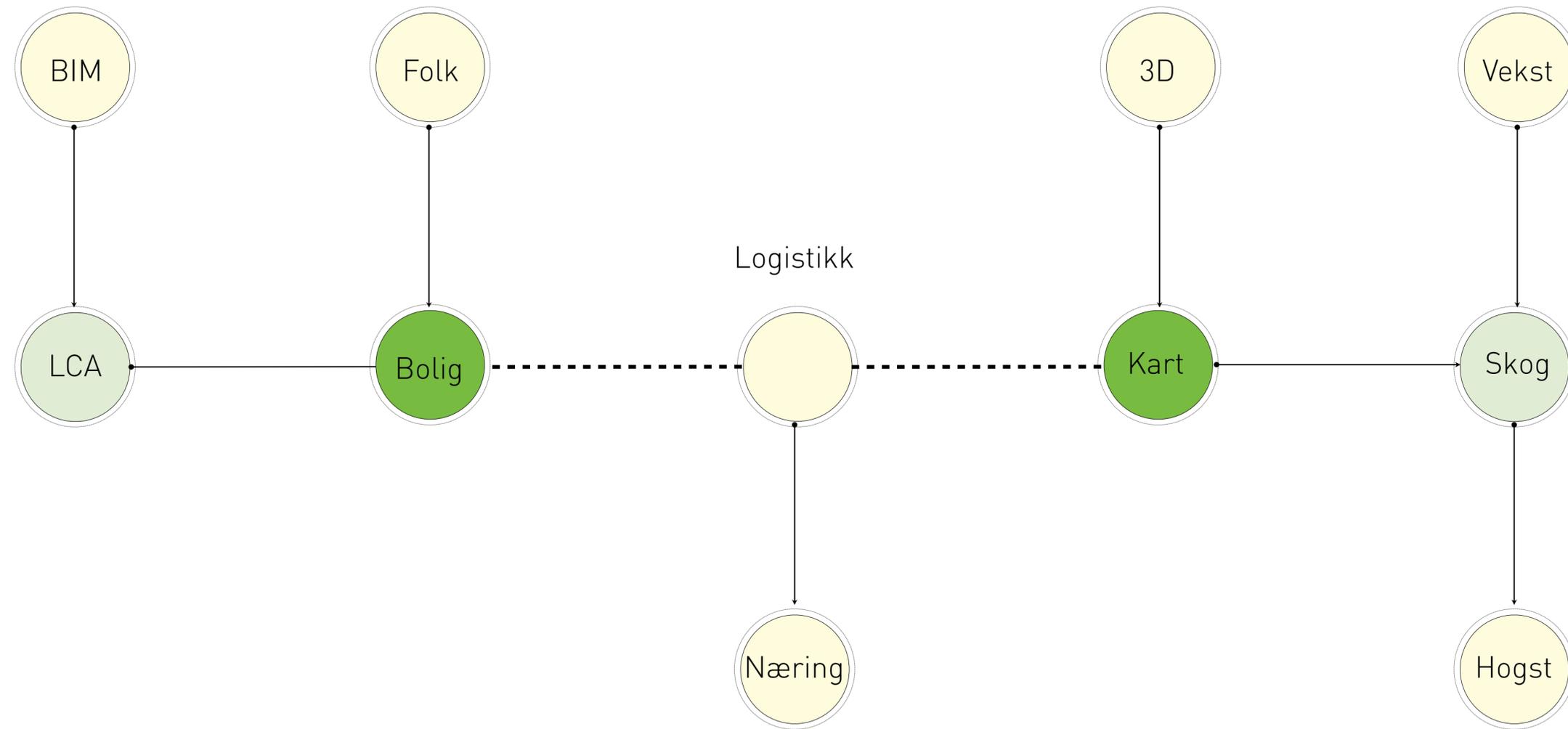
# Stabile koblinger



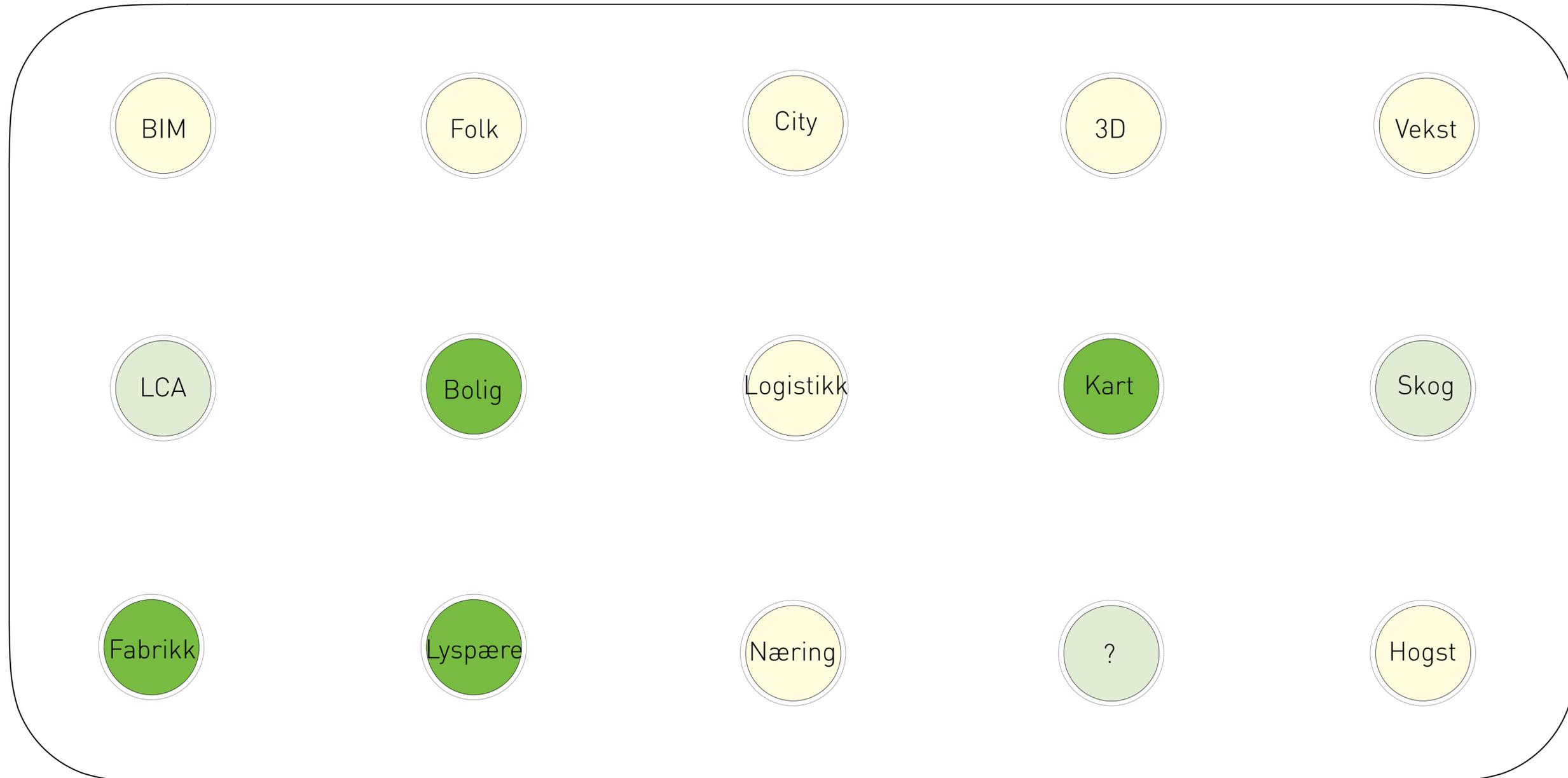
# Internet of Related Things



# Feltkoblinger - generiske linker



# Internet Everywhere



TreNetverket  
NTNU wood Admin, NTNU Wood bidrag

2:34 - 1,638kr

Prosjekter 2017  
AD admin, NTNU

3:03

NovoNordic-Illustration

0:27

Reise

0:42 - 447kr

Fakturering

11:00

10:28 Balder allé

Balder allé

11:36 Gardermoen

12:00

11:53 Mail

13:00

13:07 Bernt Balchens veg

14:00

NovoNordic-Illustration

Lufthavnveien

Mail

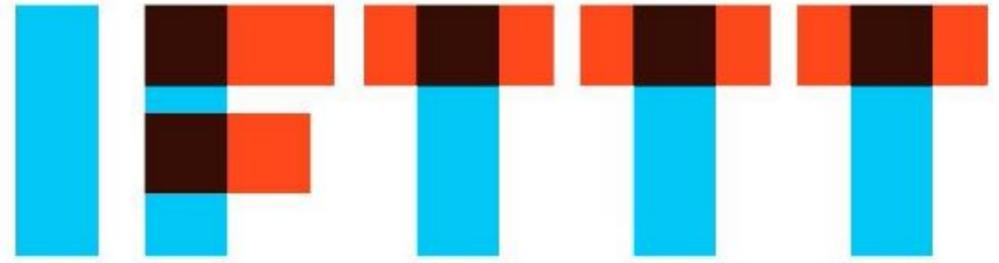
Prosjekter 2017

socnetv

Mobil GPS

Åpne filer

Kalender?



# ifthisthenthat

**dash**

**Log your fuel consumption to a Google spreadsheet at the end of every car trip**

by Dash ✓

1.2k works with 



**If it's going to rain tomorrow, delay watering your garden with Rachio**

by Rachio ✓

1.1k works with 

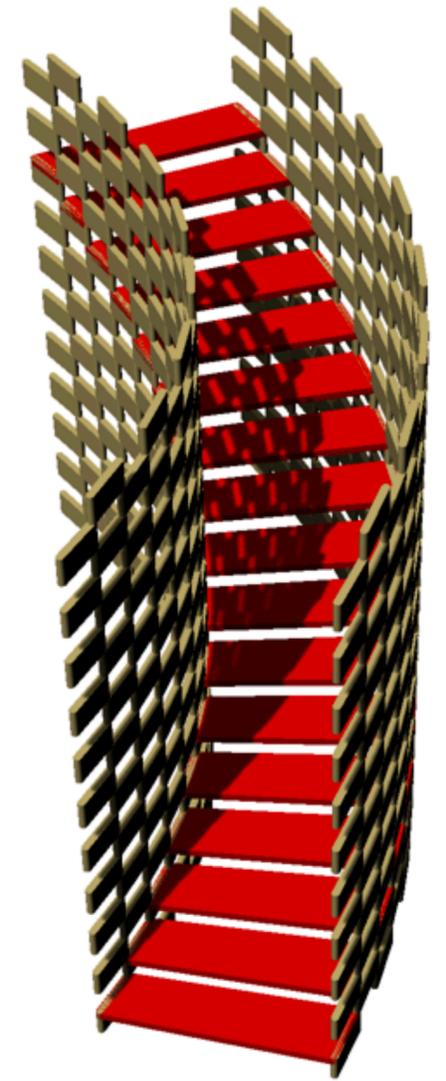


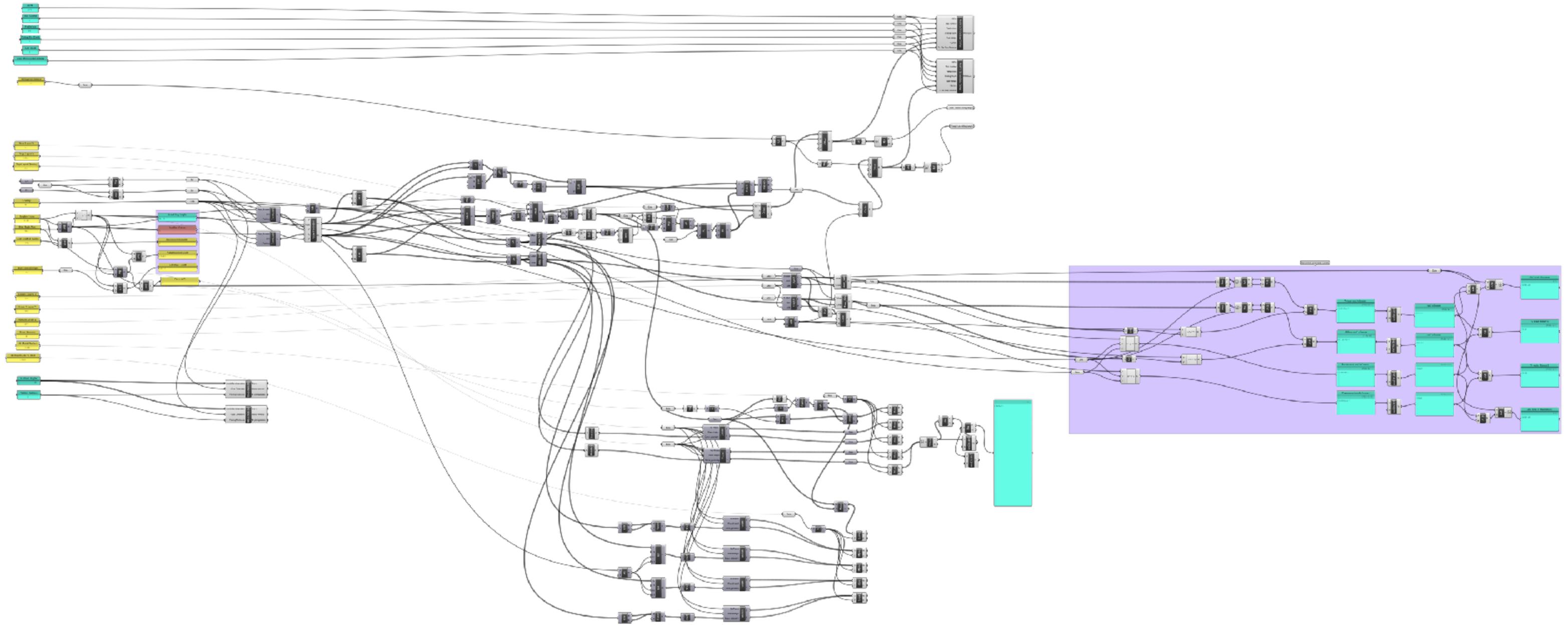
**Turn your lights off when you leave home**

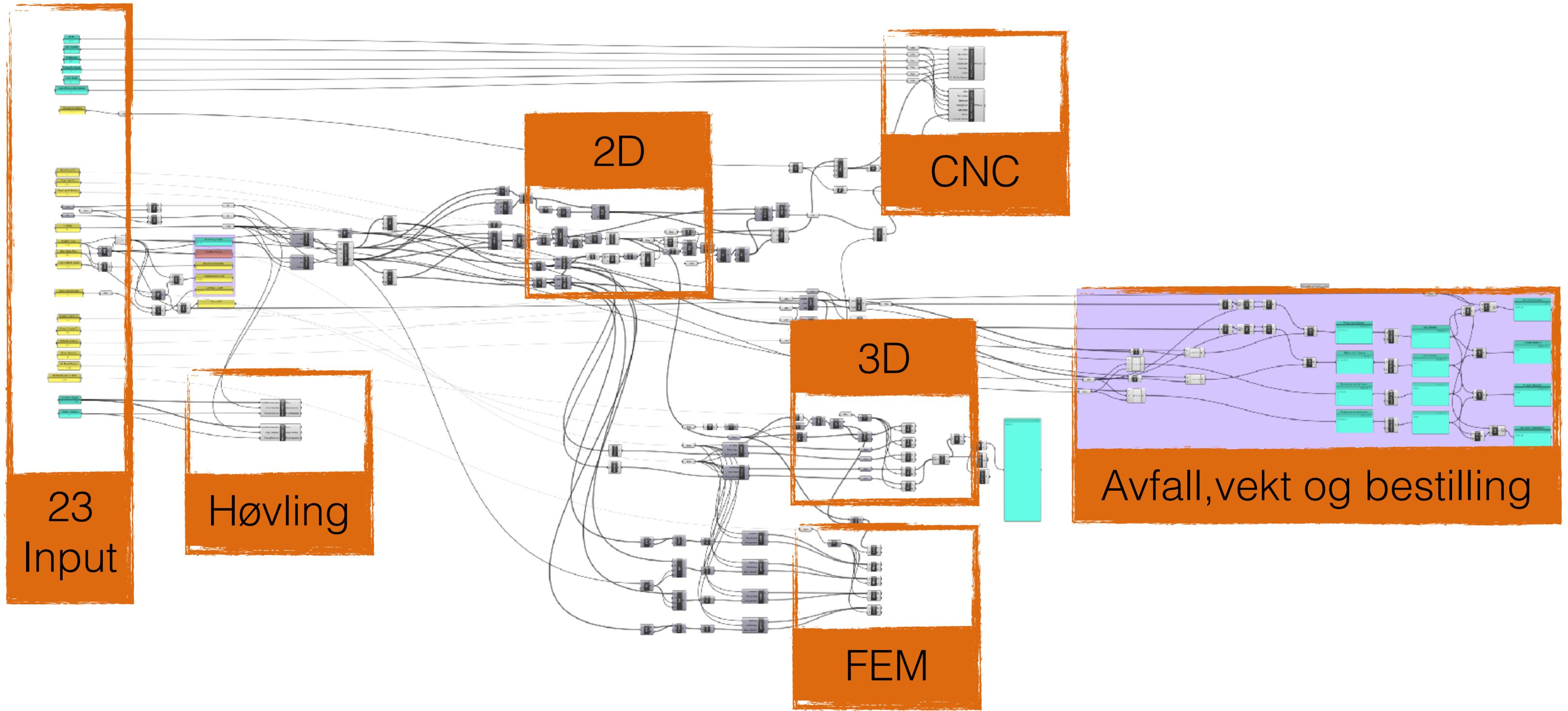
by D-Link Smart Plug ✓

660 works with 

En digital trapp.







23  
Input

Høvling

2D

3D

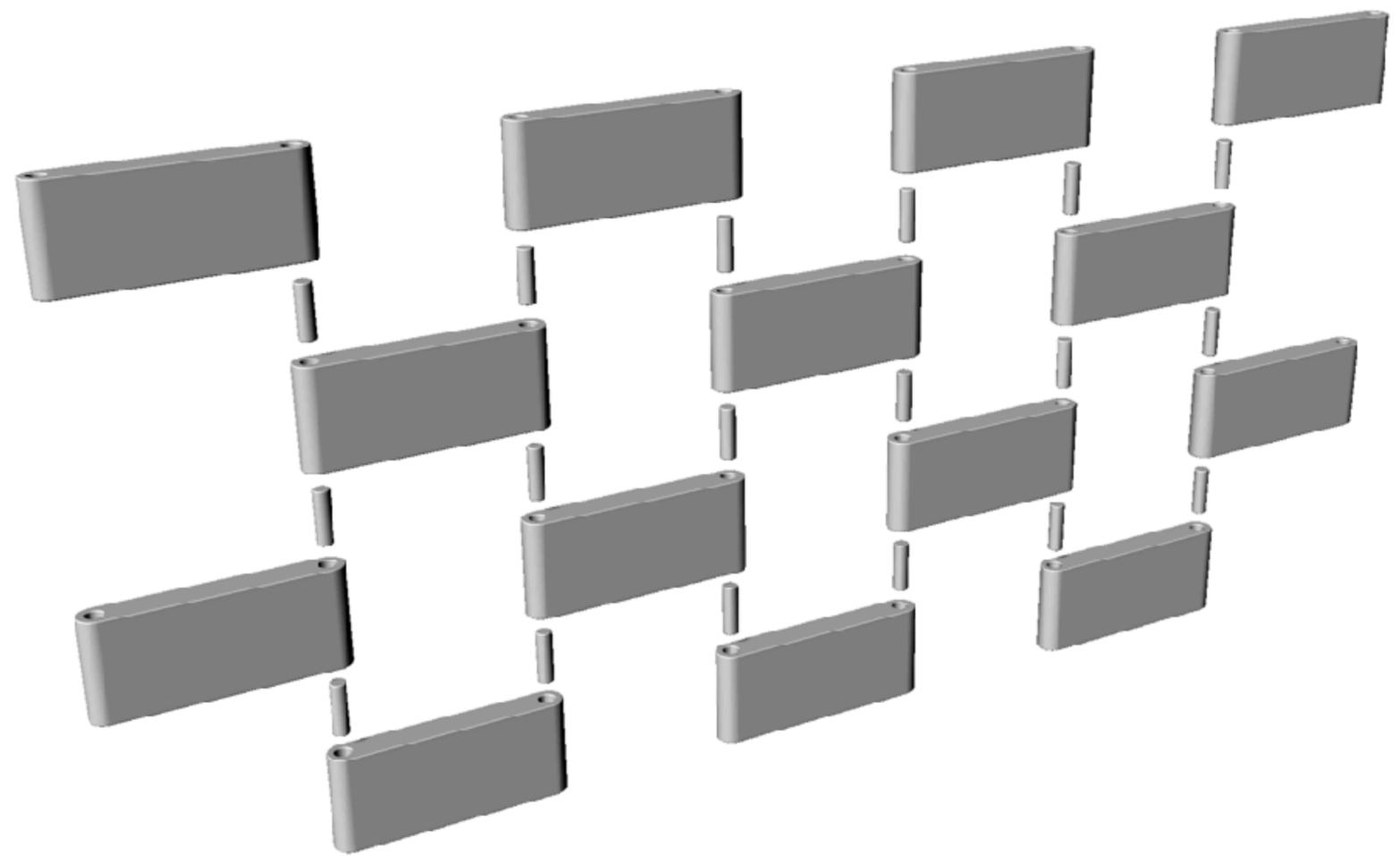
FEM

CNC

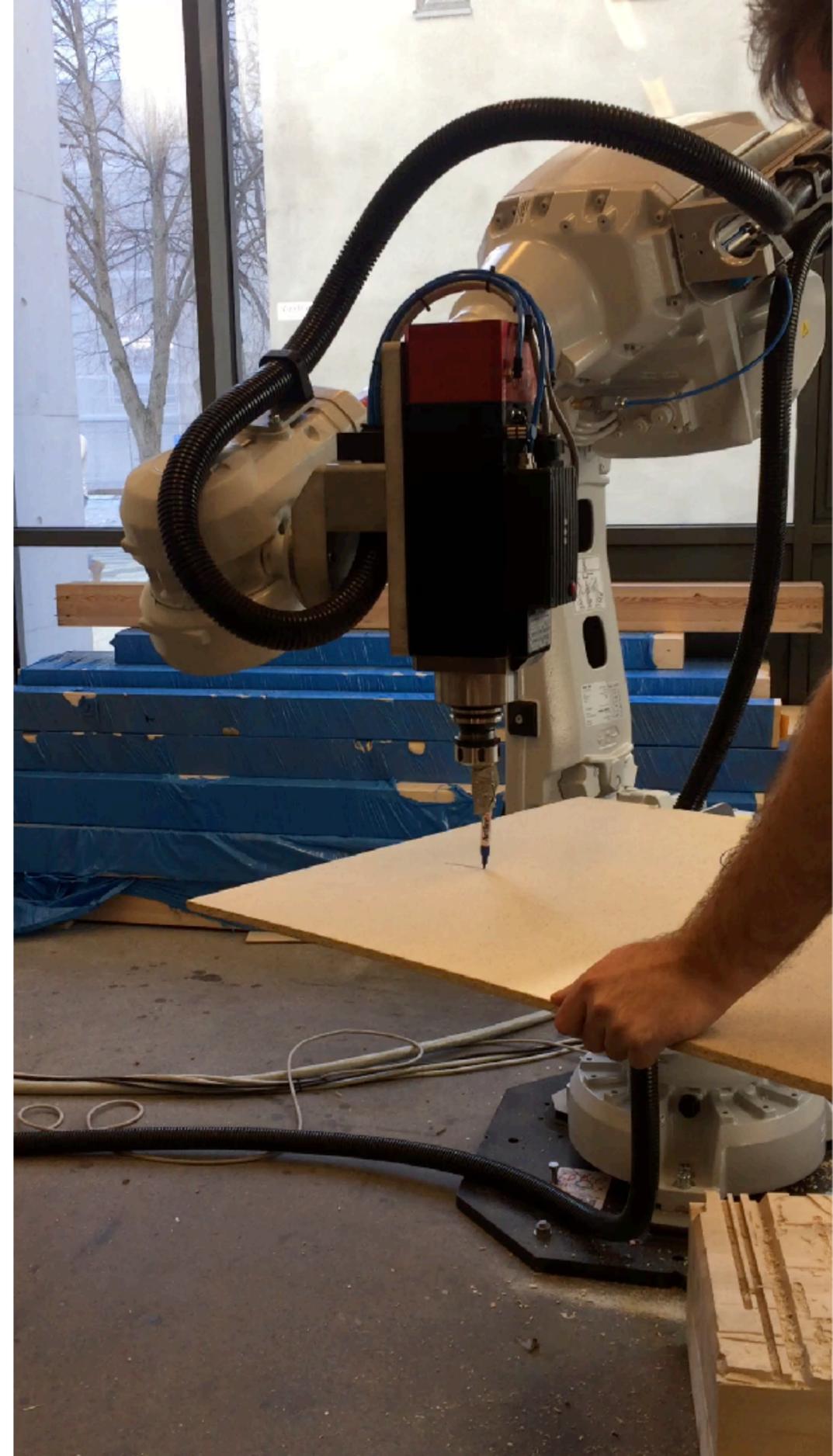
Avfall, vekt og bestilling

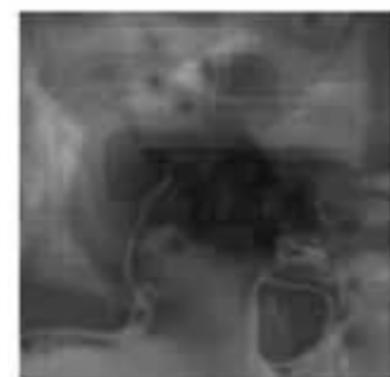
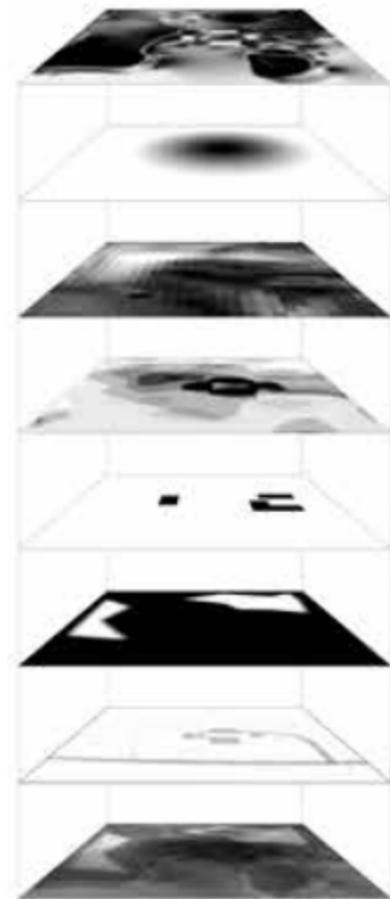
Live Demo

3D er ikke det samme som tre.

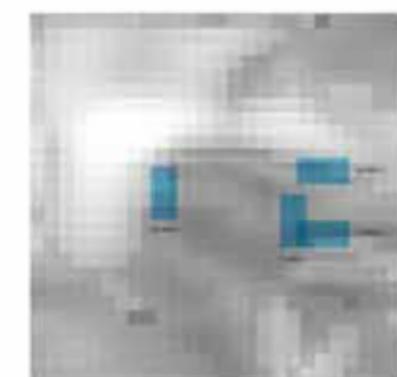
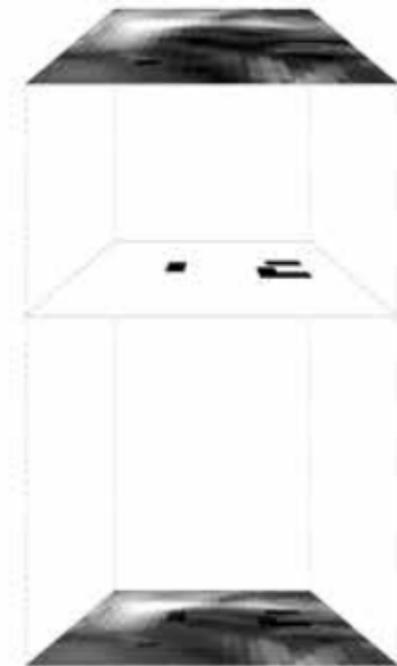


Jammen, funker det da?

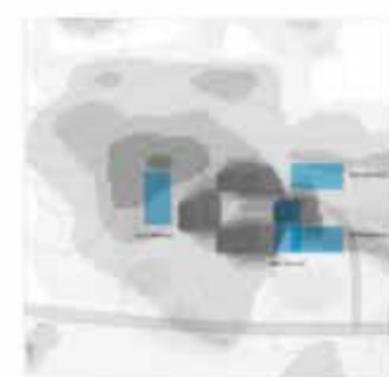




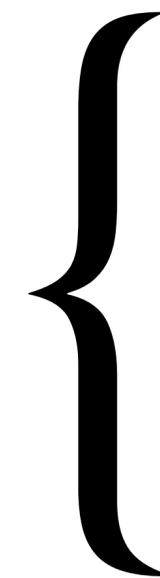
*Summen av alle kartene med lik vektning*



*Forslag til plassering lagt over priskartet*



*Forslag til plassering lagt over solkartet*



Taus kunnskap

Lingvistisk kunnskap

Numerisk kunnskap



Kompetansebehov



# Organisasjon



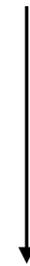
Hva selger du?

Hva selger

Hva er commodities?

PLANK

EPD



*Fancy plank*



Miljøvennlig bygg

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Data for hele verdikjeden

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## Transaksjonskostnader

Søkekostnader: Hvor mye tid tar det å finne det du leiter etter?

Informasjonskostnader: Mer informasjon om det?

Forhandlingskostnader: Hva skal du betale?

Beslutningskostnader: Valgets kvaler koster.

Evalueringskostnader: Har du fått det du ville ha?

Tvangskostnader: Argh, det ble feil.

*Det her blir veldig annerledes*

## **Transaksjonskostnader**

Søkekostnader: Hvor mye tid tar det å finne det du leiter etter?

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Evalueringskostnader: Har du fått det du ville ha?

Tvangskostnader: Argh, det ble feil.

Takk for oppmerksomheten.