



NORDIC CIRCLES

We transform ships and oil rigs into environmentally friendly building products.



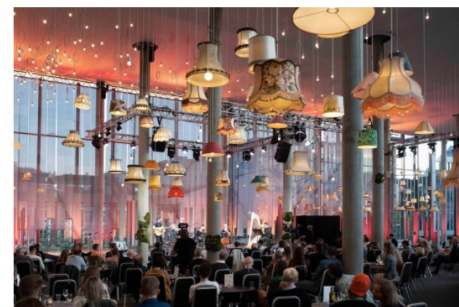
KAN VERDENS BESTE
STÅLINDUSTRI HJELPE
BYGGINDUSTRIEN MED Å
BLI MER MILJØVENNLIG?



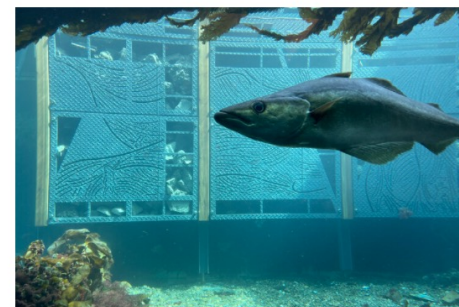
VILL



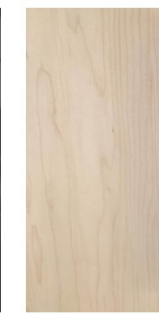
Nordiske Mediedager Scenografi



Festsjellene i Bergen 2021



Superdock





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Vill Arkitektur



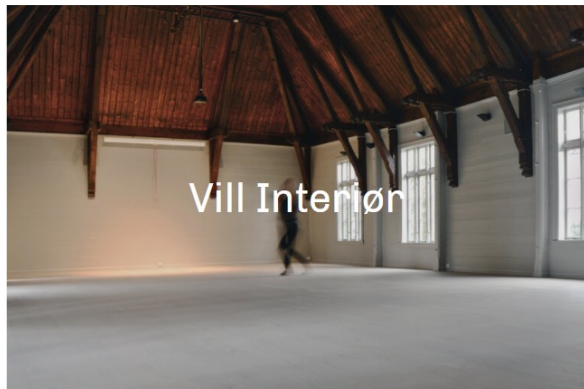
Vill Mer



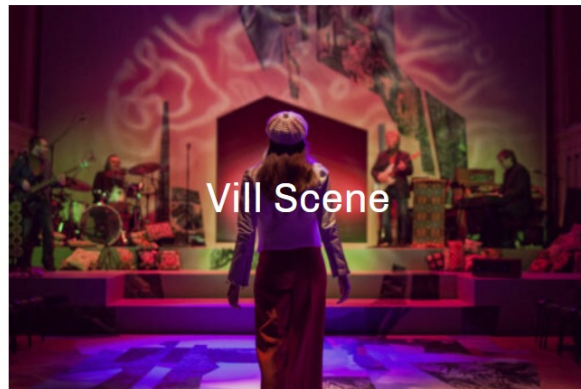
Nordic Circles



Bergen Vill



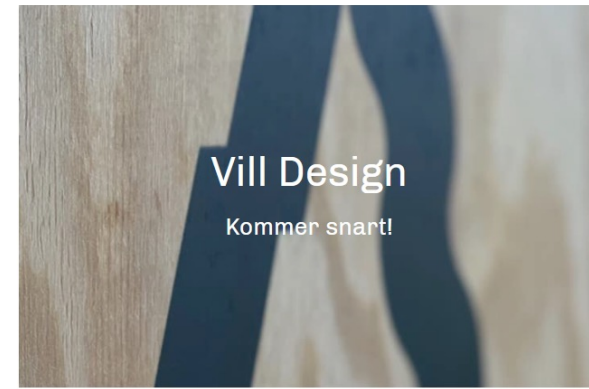
Vill Interiør



Vill Scene



Vill Opp

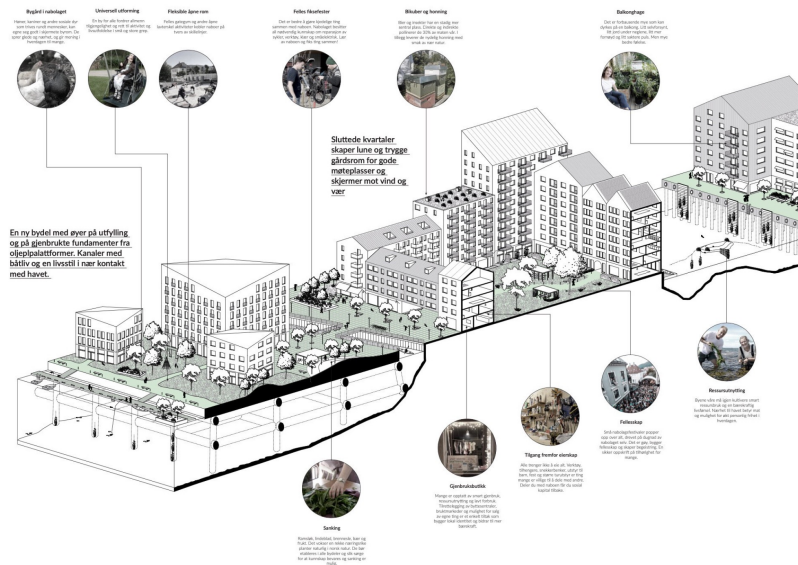


Vill Design
Kommer snart!

VILL løse de store samfunnsoppdragene

LaX

BEVAR, GJENBRUK, REVITALISER, FORSTERK



VILL ta vare på

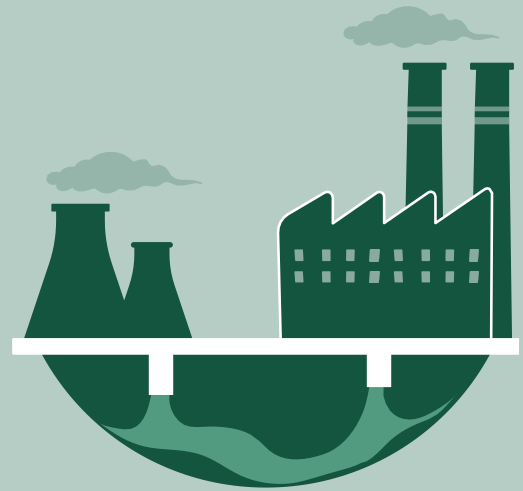


VILL løse klimakrisen

40%



23%



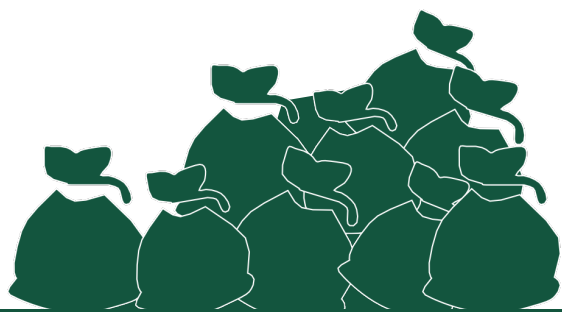
I Byggebransjen representerer materialer 23% av av de samlede utslippene.

40%

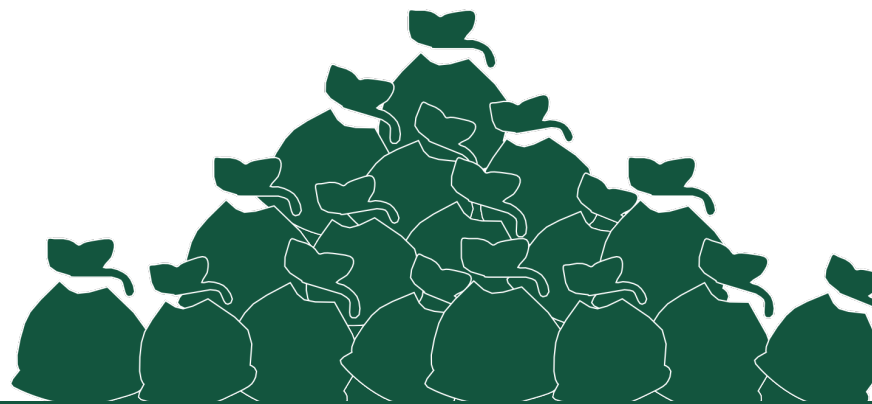


Kun 40% av avfallet blir resirkulert til nye materialer.

1.8 Mtonn



3.2 Mtonn



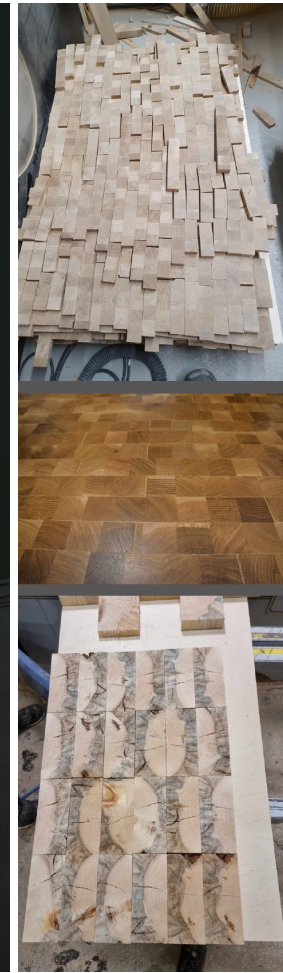
Mengden avfall fra byggenæringen vokste fra 1,8 millioner tonn i 2013
til

3,2 millioner tonn i 2019

Et standard byggeprosjekt genererer 50-60kg avfall/m³

Riving av bygg i stål og betong genererer 1000-1500kg


avfall/m²











villopp

*Dette gulvet er laget av
avfall fra byggebransjen*

4 moduler
50cm x 70cm
1m²
vilopp.no



NORDIC CIRCLES

Vi oppsirkulerer stål fra skip og oljerigger
til miljøvennlige byggeprodukter

Skal fungere som et positivt alternativ til beaching
Skal utvikle industriarbeidsplasser i omstillingssamfunnet
Skal lage miljøvennlige byggematerialer til byggeindustrien



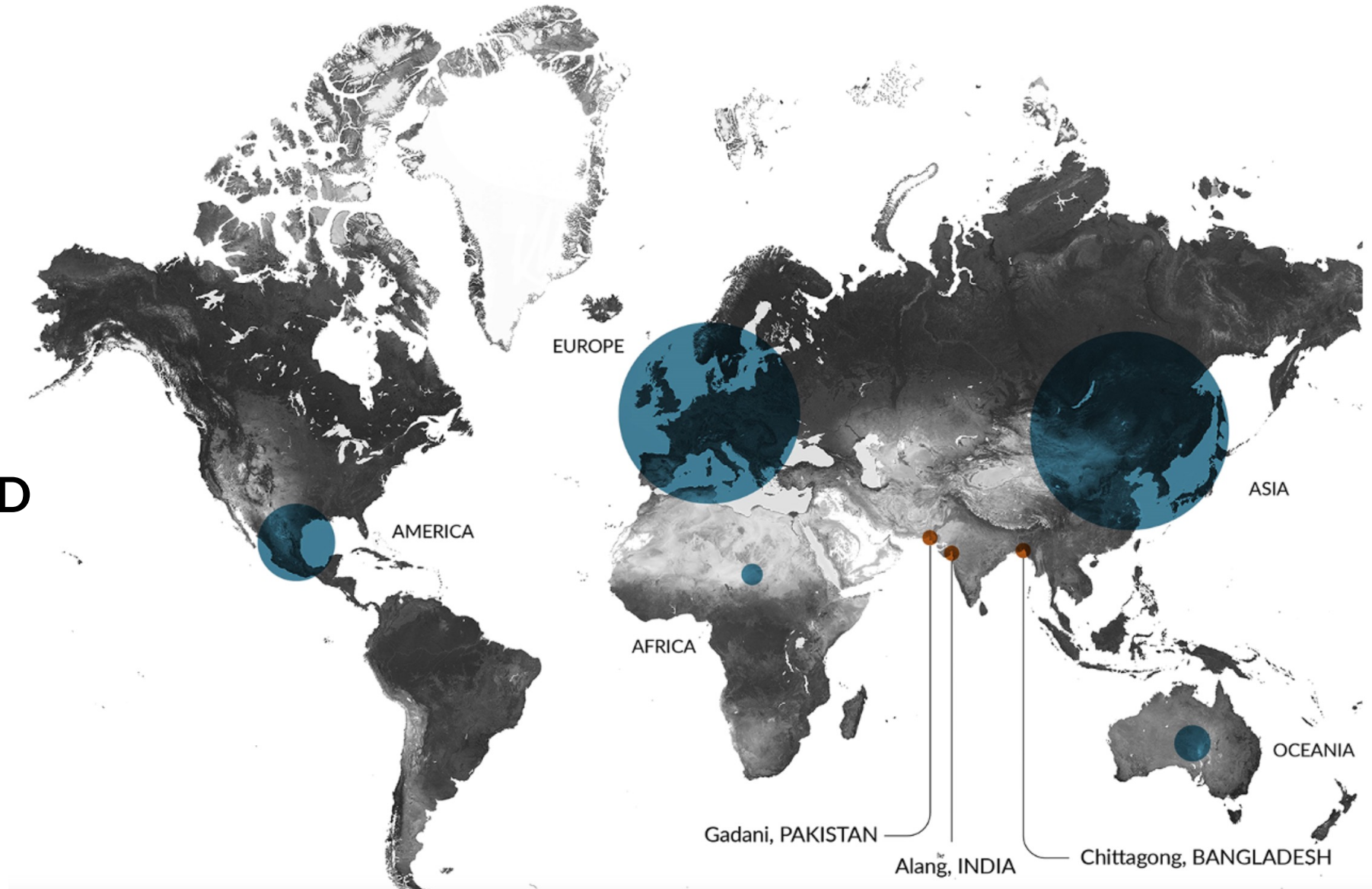
WHAT IS THE PROBLEM?

SINCE 2009:

7073 - SHIPS BEACHED

430 - DEATHS

354 - INJURIES



70%



987 vessels were sold to South Asian beaching yards



MAIN SHIPBREAKING DESTINATIONS

BANGLADESH

419 ships

15,785,755 GT

INDIA

453 ships

8,584,610 GT

PAKISTAN

115 ships

4,500,306 GT

CHINA

51 ships

728,352 GT

TURKEY

220 ships

2,132,149 GT

REST OF THE WORLD

160 ships

671,929 GT

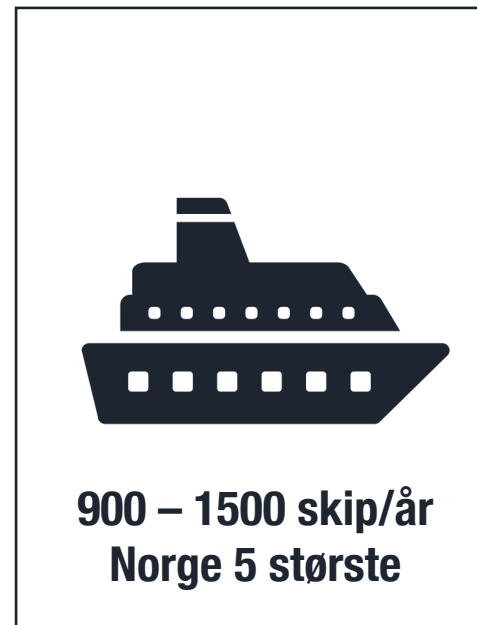
2%

of maritime ship metal (in tons) is decommissioned in «rest of the world»

Nordsjøen



Skip



<https://shipbreakingplatform.org>

Å SKAPE ET ALTERNATIV

Det er flere **hundre milliarder** i norske dekomkontrakter i Nordsjøen.

Anslag viser at dette kan gi akkumulerte ringvirkninger i størrelsesorden **40 000-400 000 årsverk**, hvorav 10 000-100 000 av disse kan oppstå direkte i dekommissjoneringsnæringen.

Kostnadene knyttet til dekommissjonering av olje- og gassinstallasjoner globalt i perioden 2020-2030 vil bli omtrent 420 milliarder NOK etter dagens kurs. Nærmere halvparten av behovet ligger i Nordsjøen, der prosjekter på britisk sokkel utgjør 80 prosent.

Anslag er at dette gir ringvirkninger på omtrent **170 000 årsverk** bare i perioden 2020-2030

På lengre sikt kan man forvente at markedet vil vokse med flere hundre prosent og utgjøre flere ti-gangere av det norske, og potensielt kunne gi **flere millioner årsverk globalt** hvert år.

Kilde: Vista Analyse

IDEEN

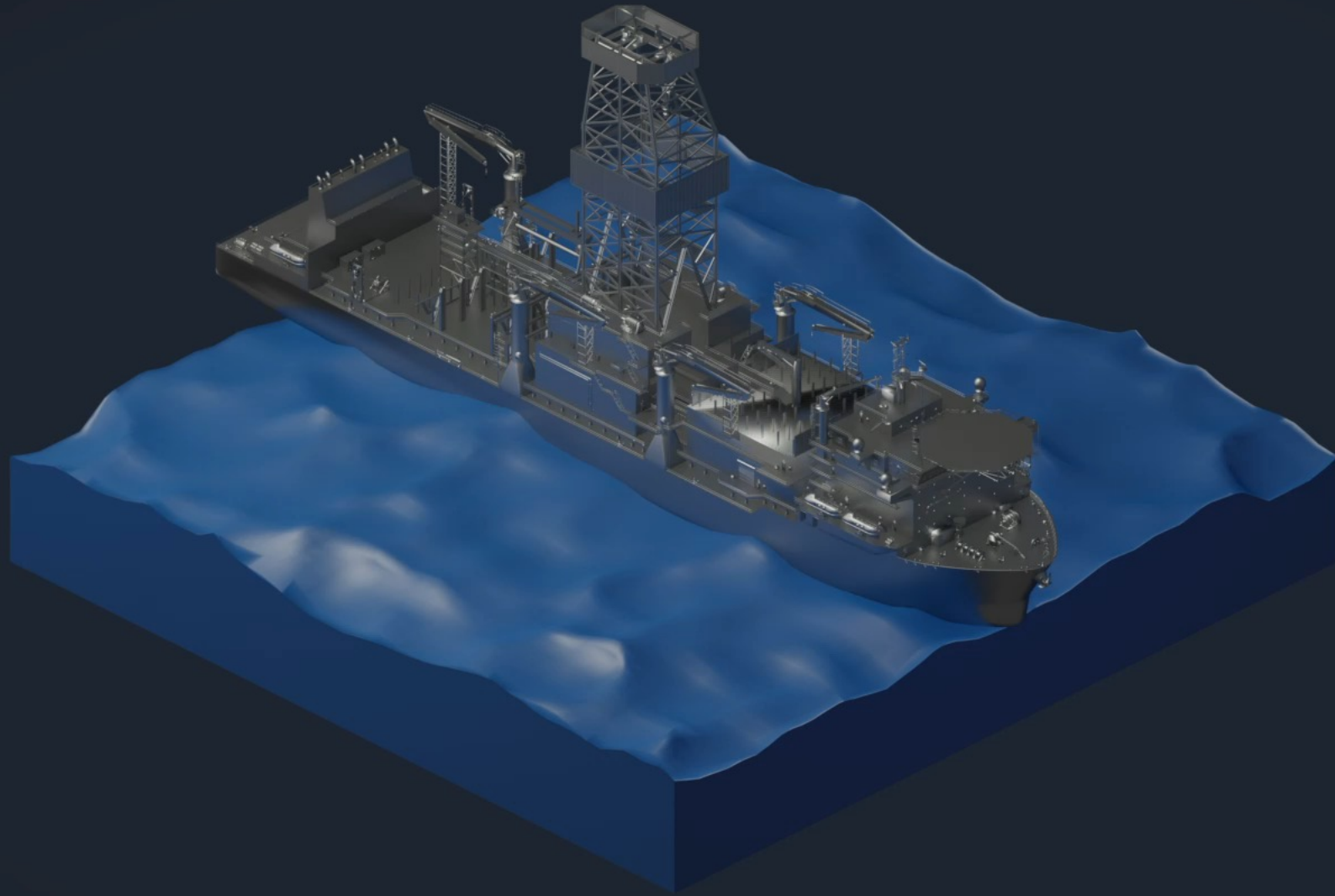
Oppsirkulere maritimt metal fra skip og plattformer til byggematerialer uten klimagassfotavtrykk i byggebransjen

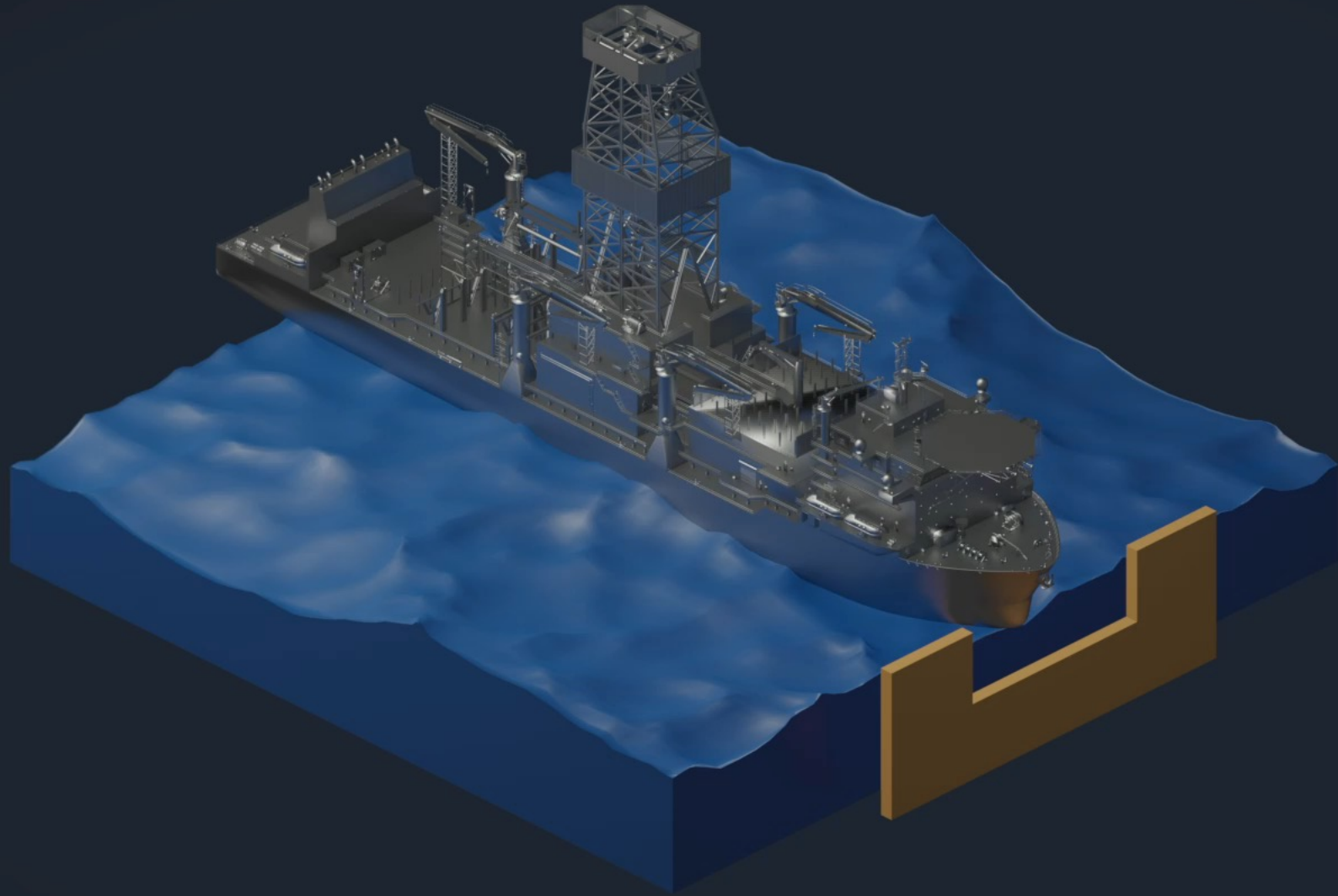


Oppsirkulering?











Så hva gjør vi med dette? Vi måtte forandre
businessmodellen for dekkommisjon.



 **FleetMon**
Tracking the Seven Seas







Equinor advances Veslefrikk ...
ogj.com



Equinor to shut down Veslefrikk field ...
offshore-energy.biz



The Veslefrikk Oil and Gas Field ...
offshore-technology.com



Veslefrikk Field Decommissioning ...
nenergybusiness.com



The Veslefrikk Oil and Gas Field ...
offshore-technology.com



Veslefrikk B Platform Arrives to M.A.R ...
oedigital.com



The Veslefrikk Oil and Gas Fi...
offshore-technology.com



Veslefrikk B – AFFF upgrade and ...
parat.no



Temporary drilling stoppage on ...
equinor.com



Halvt nedsenkbar plattform – Wikipedia
no.wikipedia.org



Leviathan and German Naval Yards to be the powerhouse
of European green ship recycling.



Og så må vi lage produkter




SuperDock

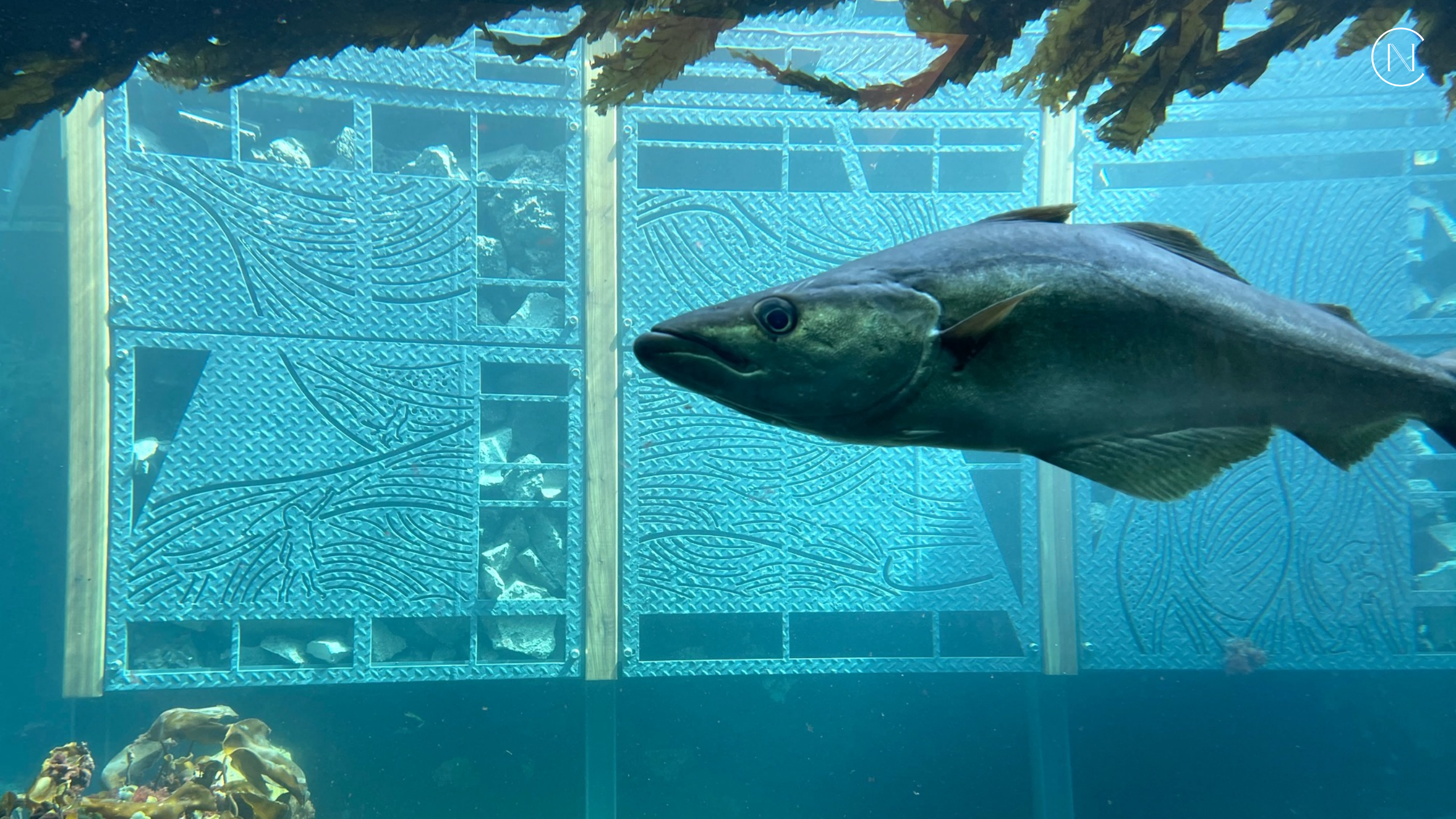
«The fish hotel»





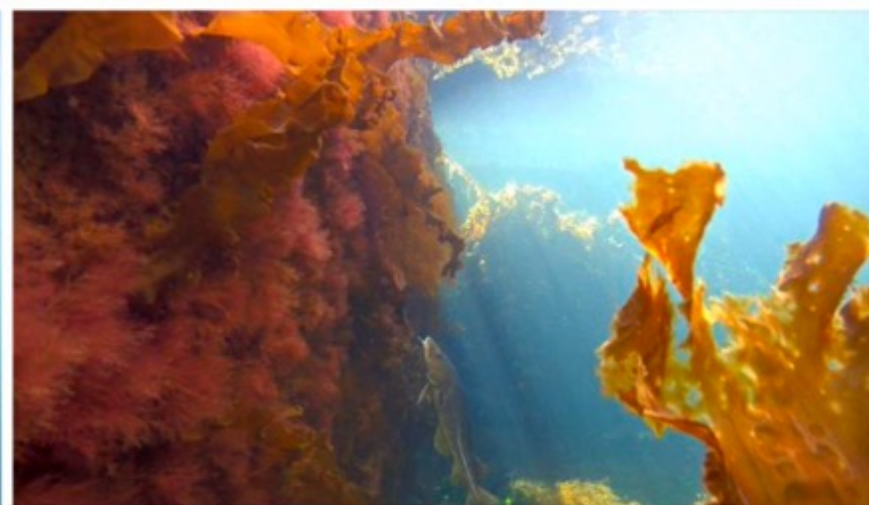
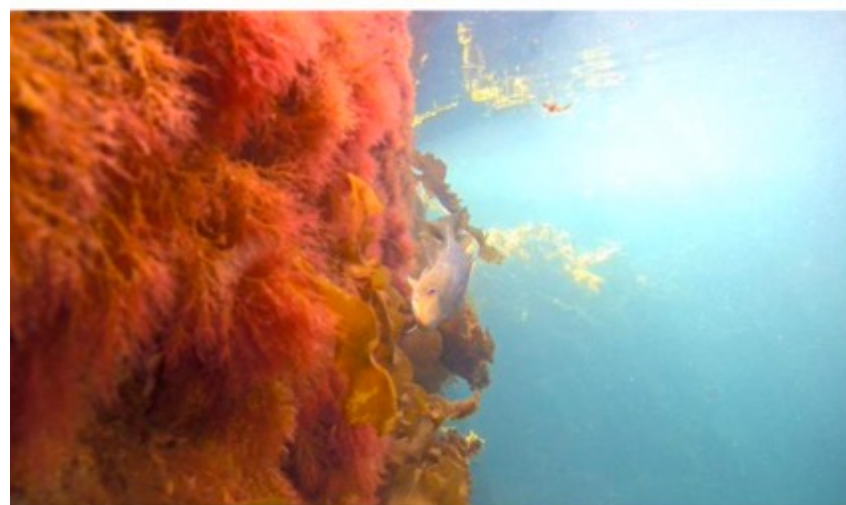
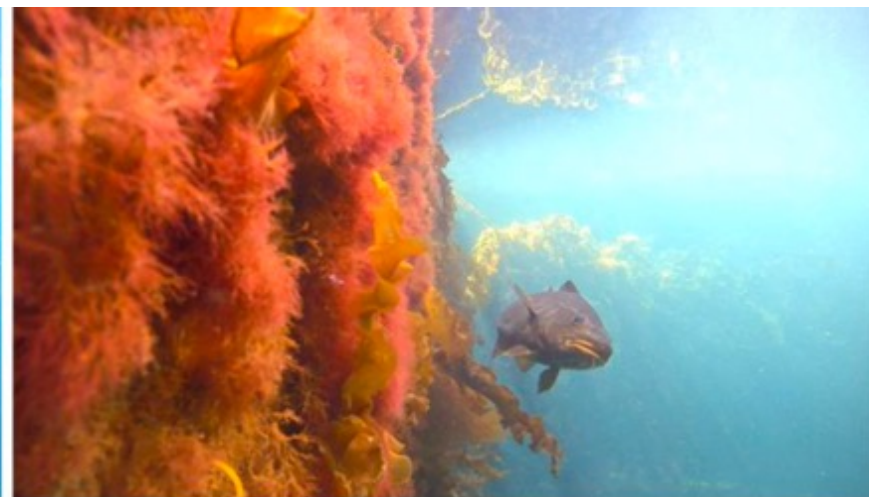
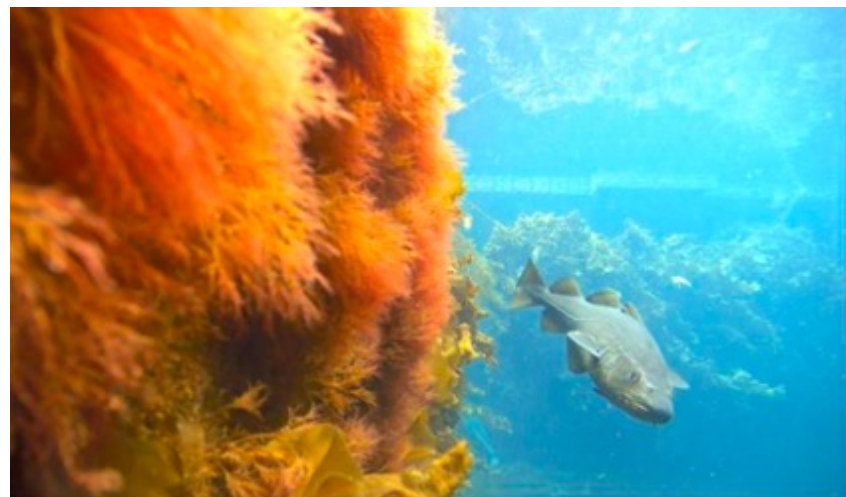
An underwater photograph showing a large, weathered log floating in the upper left. Below it, a vibrant coral reef is visible, with various colorful corals and small fish swimming around. The water is clear and blue, with some light rays filtering through.

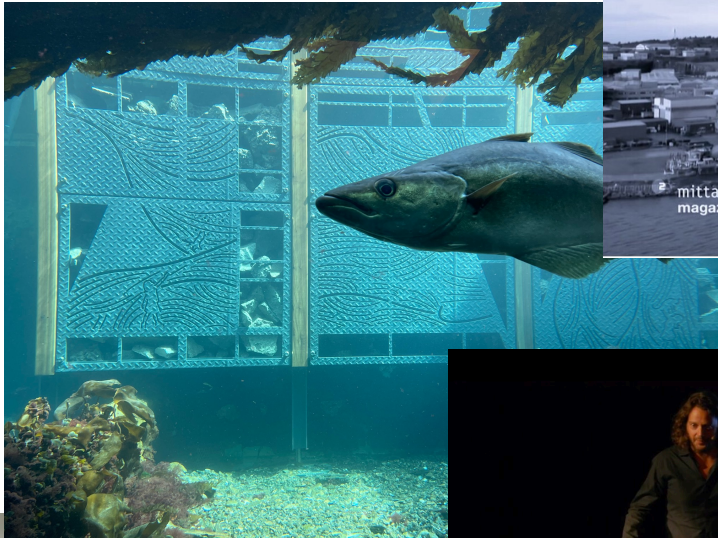
**SUPERDOCK ASSEMBLY
APRIL-MAY 2021
BERGEN AQUARIUM**





SuperDock etter seks måneder





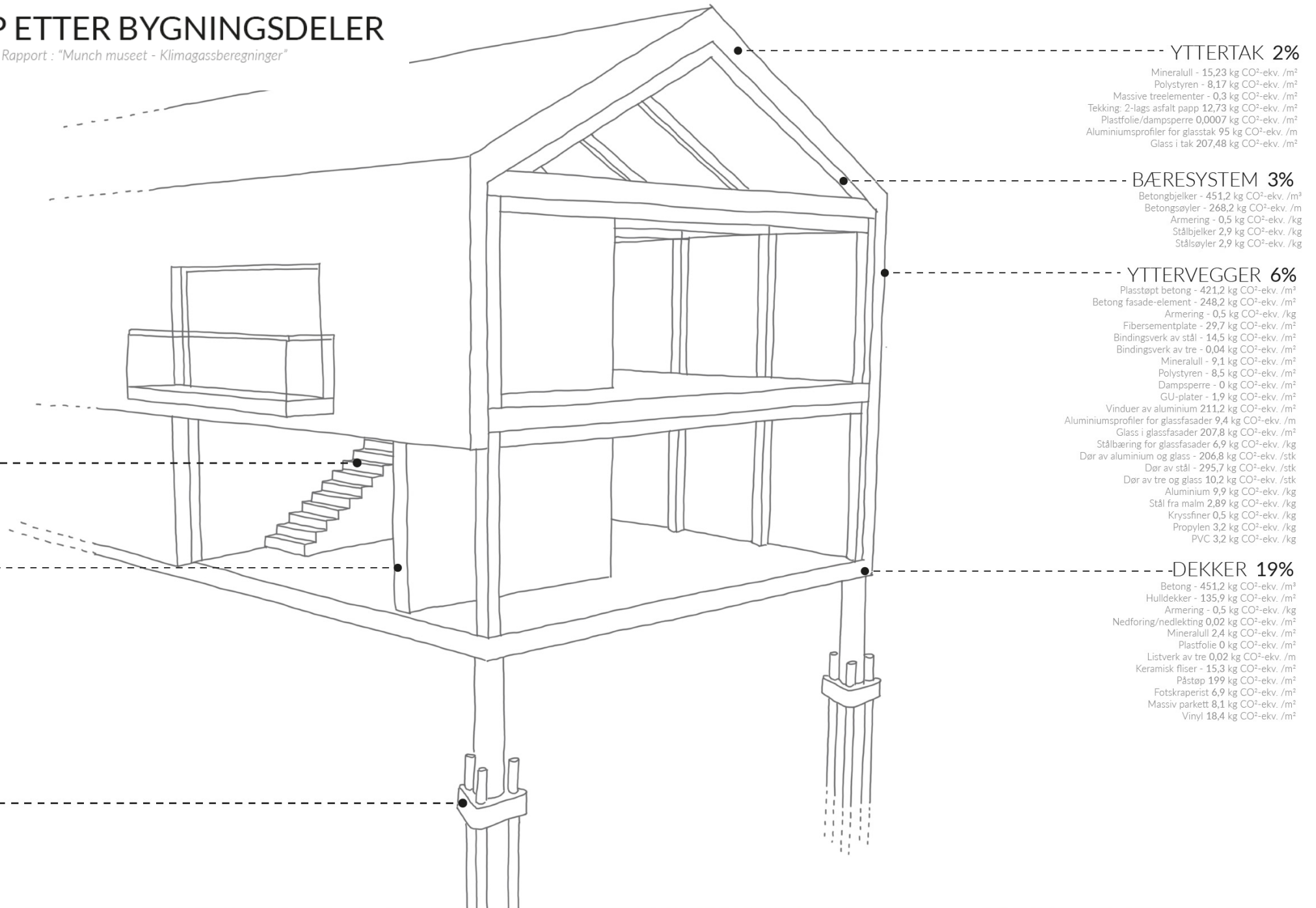
Og så må vi lage mye av produkter der det monner



KLIMAGASSUTSLIP ETTER BYGNINGSDELER

Kilde : Oslo Kommune, Kulturbbyggene i Bjørvika - Rapport : "Munch museet - Klimagassberegninger"

Asplan Viak



Spunt



nordiCrane

RTG RIGBY
Kyrrengjerud

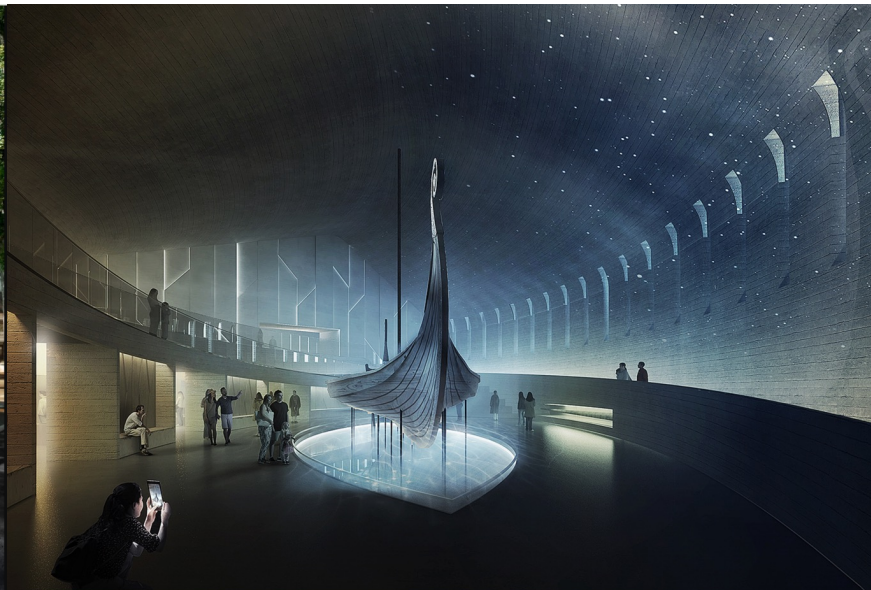
3

27

28

19

9%





1 tonn nytt stål
2,8 tonn of Co2e



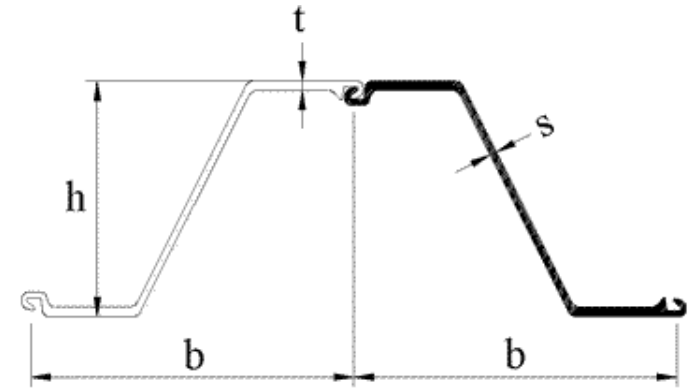
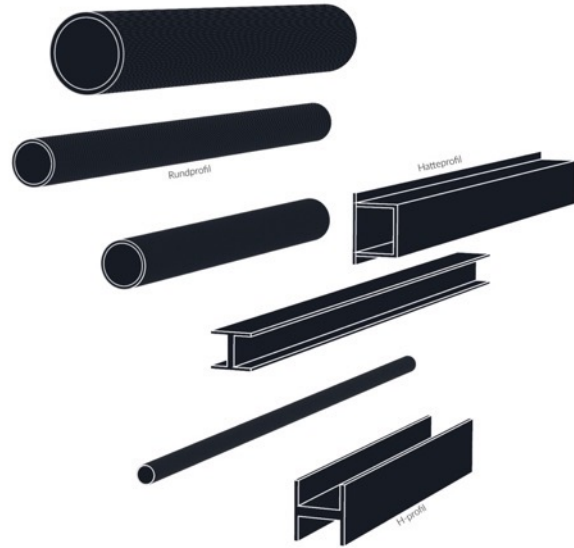
1 tonn "grønt" stål
1,35 tonn Co2e



1 tonn oppsirkulert stål
0,24 tonn Co2e

Kan ikke bygges med konvensjonelt stål

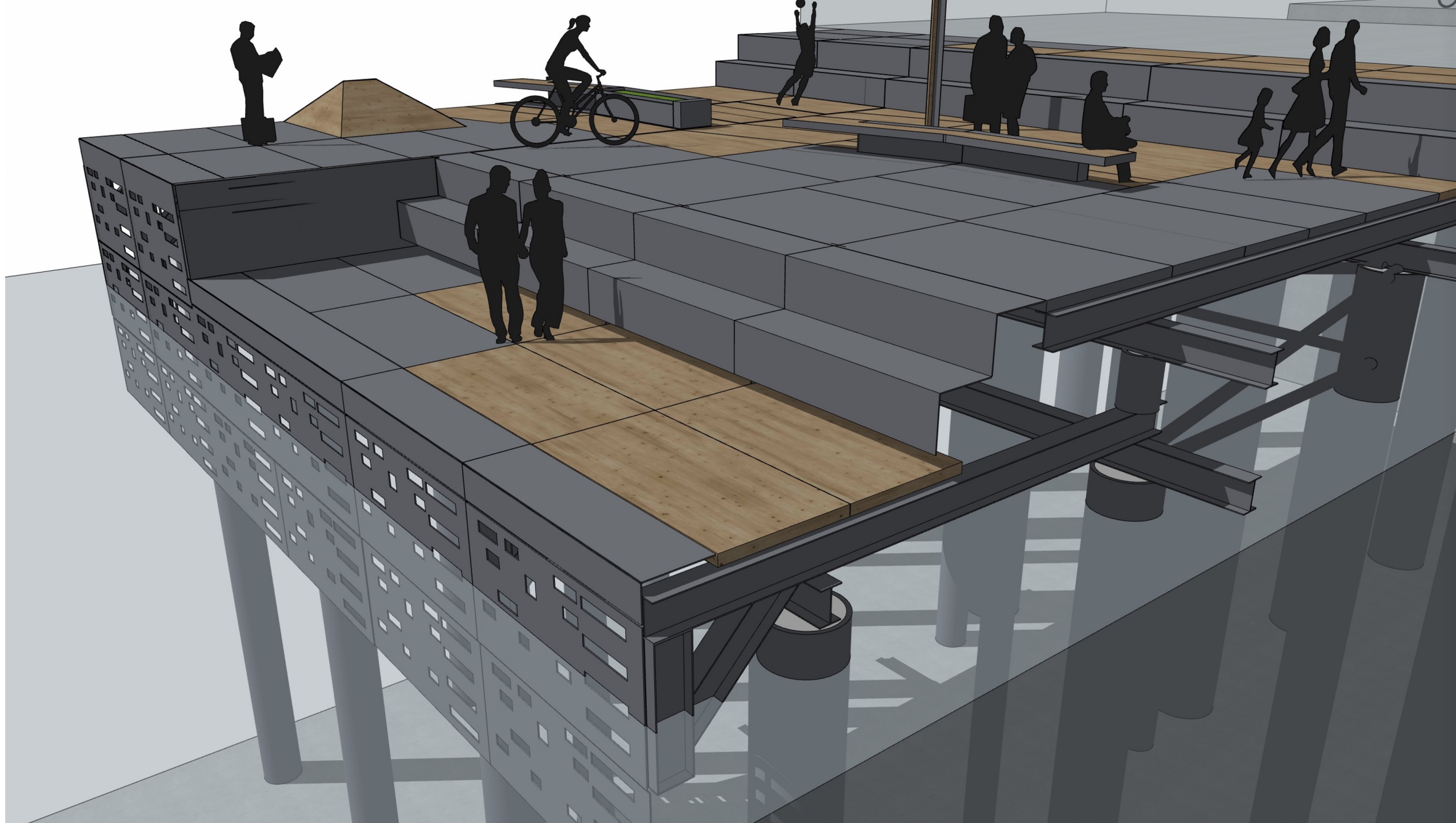




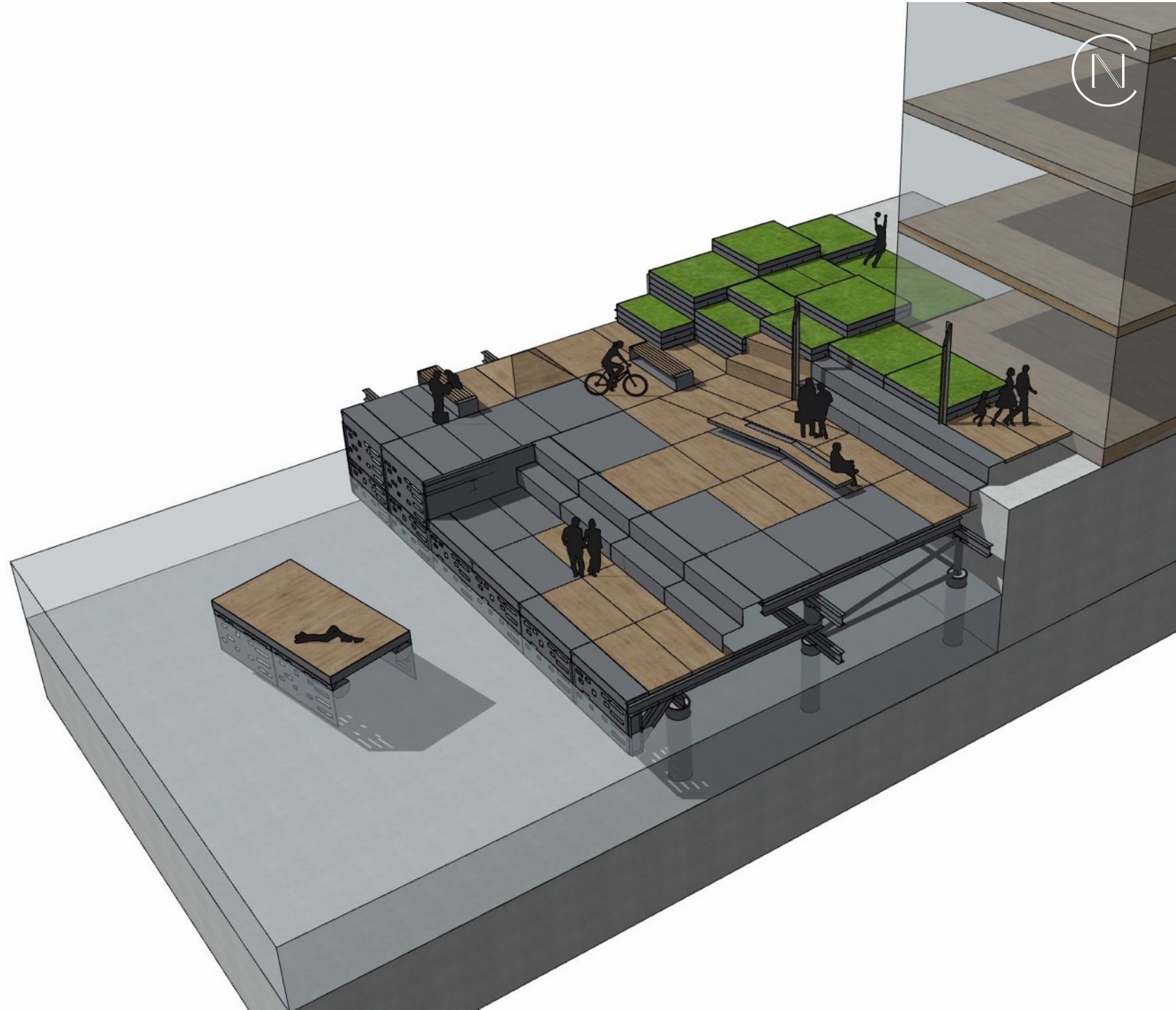
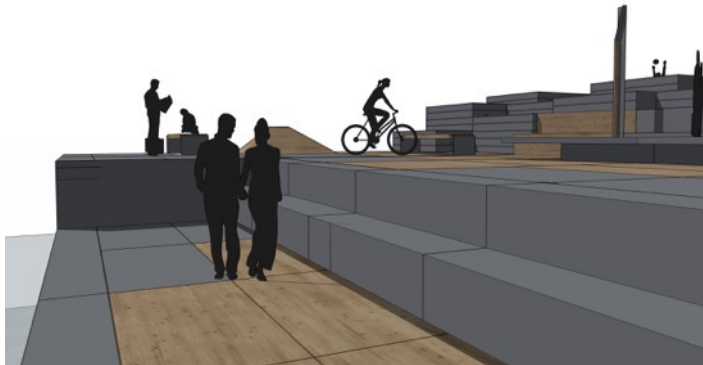
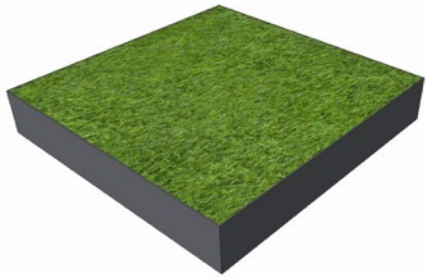
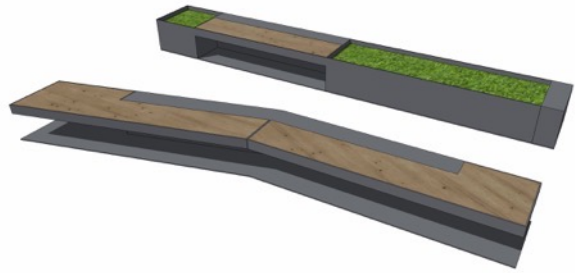
Konvensjonelle volum produkter. Vi kan oppsirkulere alternativer til de mest brukte stålproduktene i byggebransjen. Vi får alt sertifisert og godkjent. Vi konkurrerer på pris.

Og fremover?





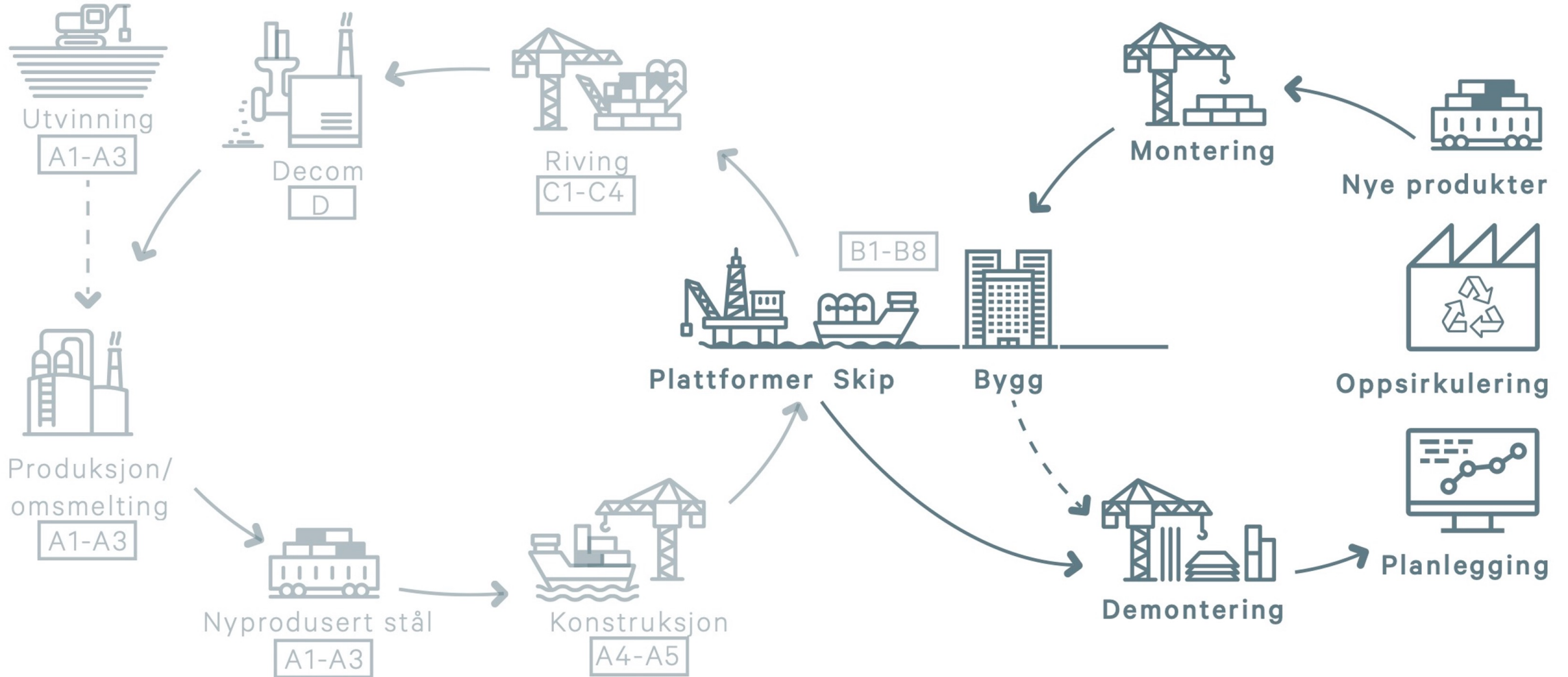




Vi har skapt en ny sirkulær businessmodell

DAGENS VERDIKJEDE
Fasene A-D for livssyklusstadiene

NY VERDIKJEDE



Og vi har hele veien jobbet med hele verdikjeden

DECOM



PRODUCTION



ENTREPRENUER



MARKET



RESEARCH



ORGANISATION



Så hva ønsker jeg meg?

Vi har blitt ganske flink på bærekraftig forandring i selskaper, har noen et alt for stort prosjekt?

Vi har fått kompetanse på oppsirkuleringsprosesser

Vi trenger samarbeidsaktører for å lage ett nytt produkt



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