

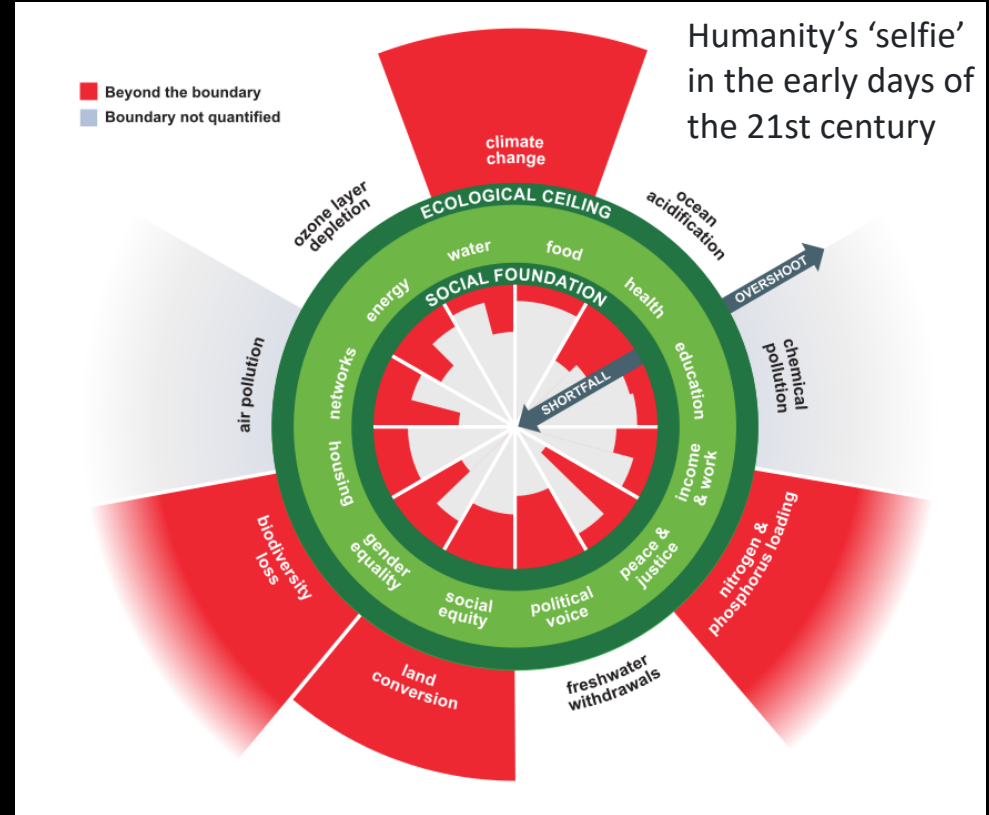
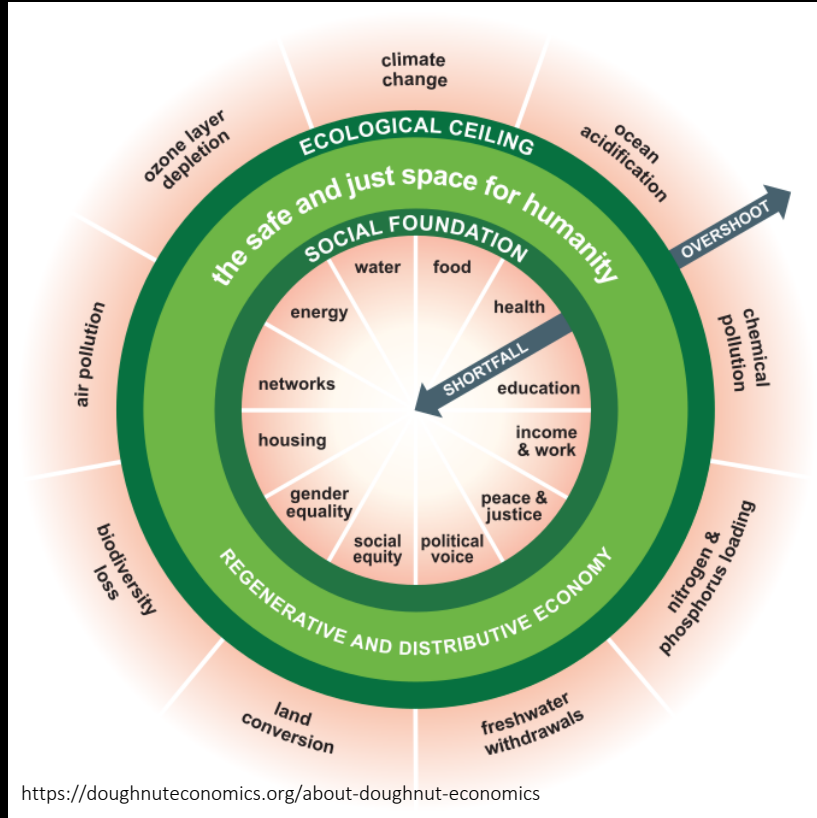
HALLO PARIS!

Her kommer FutureBuilt 2.0!

Eivind Selvig, Civitas, 14.10.20

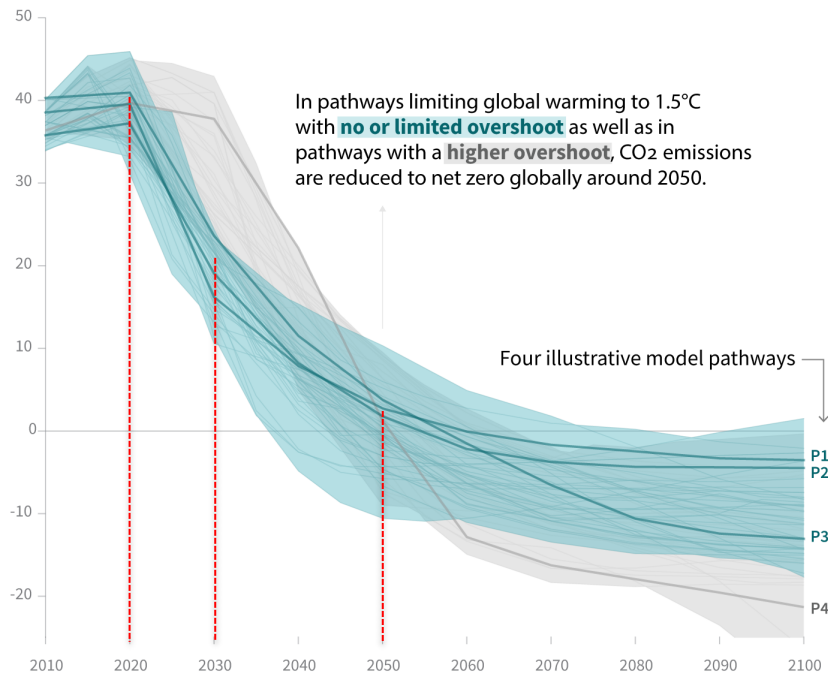


«Det trygge og rettferdige handlingsrommet for menneskeheten»



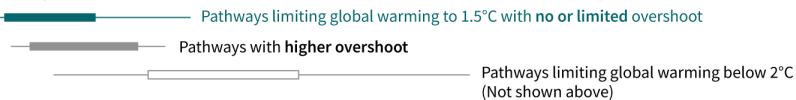
Global total net CO₂ emissions

Billion tonnes of CO₂/yr



Timing of net zero CO₂

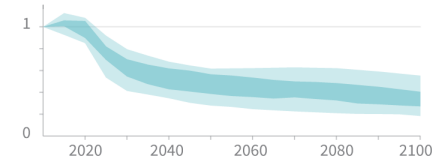
Line widths depict the 5-95th percentile and the 25-75th percentile of scenarios



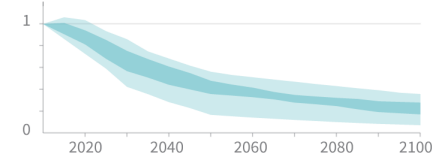
Non-CO₂ emissions relative to 2010

Emissions of non-CO₂ forcers are also reduced or limited in pathways limiting global warming to 1.5°C with **no or limited overshoot**, but they do not reach zero globally.

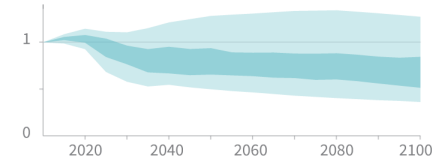
Methane emissions



Black carbon emissions



Nitrous oxide emissions

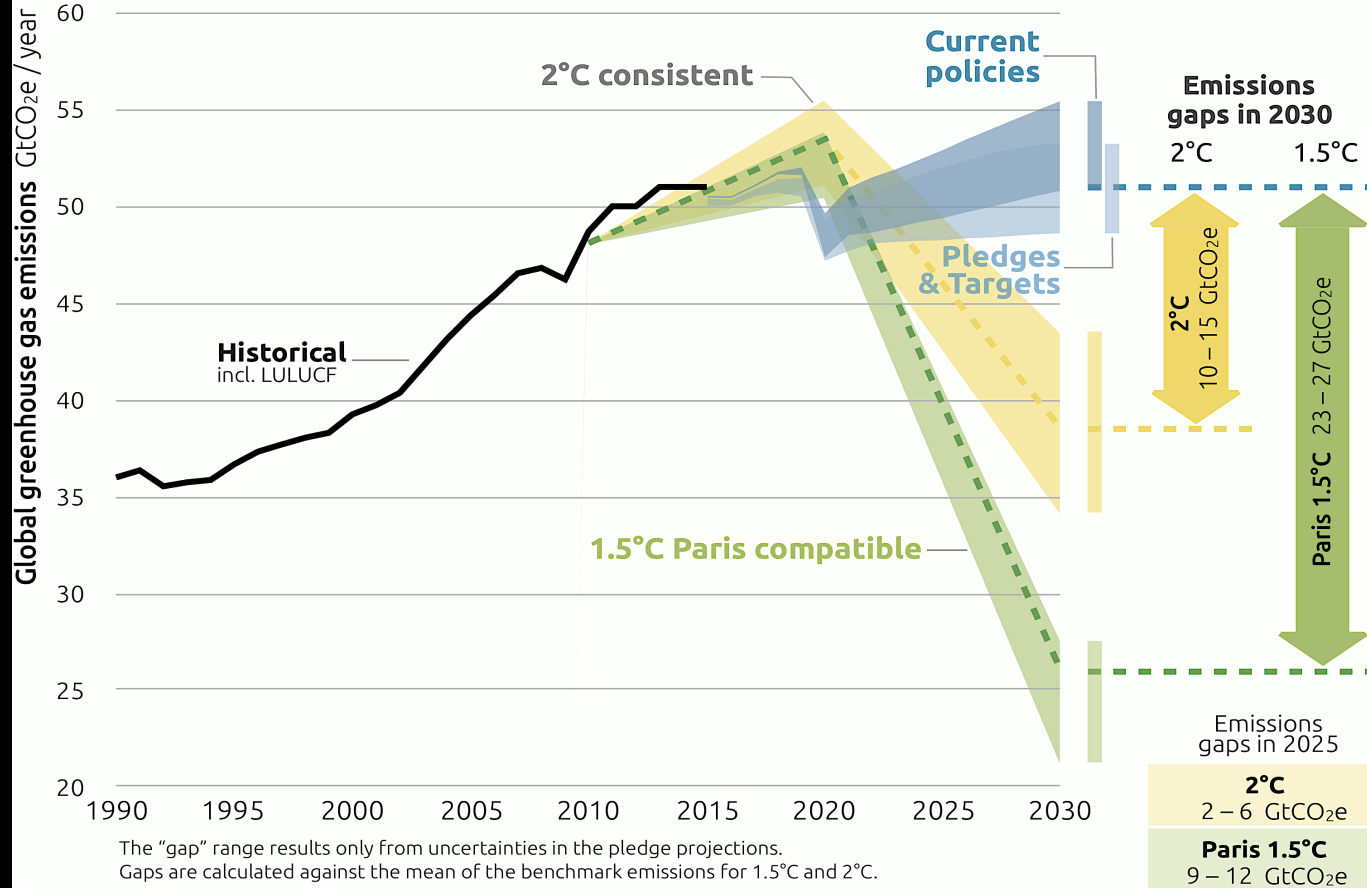


2030 EMISSIONS GAPS

CAT projections and resulting emissions gaps in meeting the 1.5°C Paris Agreement goal vs 2°C Cancún goal



Sept 2020 update

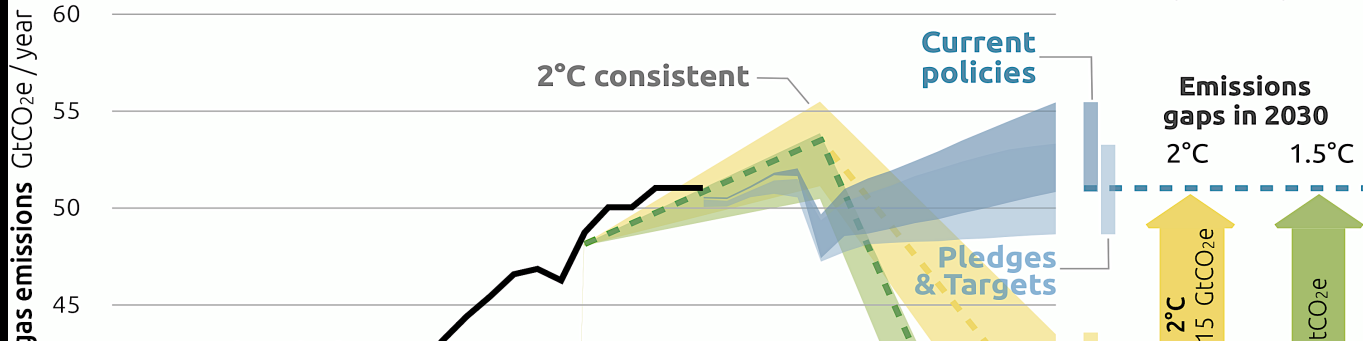


2030 EMISSIONS GAPS

CAT projections and resulting emissions gaps in meeting the 1.5°C Paris Agreement goal vs 2°C Cancún goal



Sept 2020 update



CAT RATING OF NORWAY'S TARGET

CRITICALLY INSUFFICIENT

HIGHLY INSUFFICIENT

INSUFFICIENT

2°C COMPATIBLE

1.5°C PARIS AGREEMENT COMPATIBLE

ROLE MODEL

2016 NDC target:
INSUFFICIENT



New 2020 NDC target:
INSUFFICIENT



The "gap" range results only from uncertainties in the pledge projections.
Gaps are calculated against the mean of the benchmark emissions for 1.5°C and 2°C.

Emissions gaps in 2025

2°C

2 – 6 GtCO₂e

Paris 1.5°C

9 – 12 GtCO₂e

Hvorfor nye kriterier?

- Klimagassutslippene må reduseres mye og raskt
- Effektivisering og pynt er ikke nok, grunnleggende omstilling må til
- FutureBuilt skal fortsatt teste, utfordre og vise bransjen hva som er mulig
- Kunnskapsgrunnlaget er bedre og bredere:
=> Absolutte utslippskriterier (kg CO₂e/m²)

Hva er status i Norge i dag?

- Metodene som blant annet FB-prosjekter har bidratt til å utforske er blitt standard NS 3720 😊
- Nye EPDer strømmer ut på markedet fordi det etterspørres. Et resultat av FB, BREEAM, Statsbygg, Forsvarsbygg, Kommuner, Fylker, m.fl. 😊
- Kjøpere og leietakere etterspør miljøkvalitet – Utviklere, rådgivere, entreprenører, byggevareprodusenter må leverer for å henge med 😊.
- Finansmarkedene reagerer 😊
- Kunnskapsgrunnlaget og erfaringstall øker raskt – ZEN-case 2020 ++ 😊
- Kommuner stiller krav til egne og andres byggeprosjekter 😊
- Forvaltningen vurderer nye krav i forskrift (TEK) – dibk, dep. 😊
- BREEAM NOR og FutureBuilt-kriterier revideres 😊😊

Hva skjer ute i den store verden?

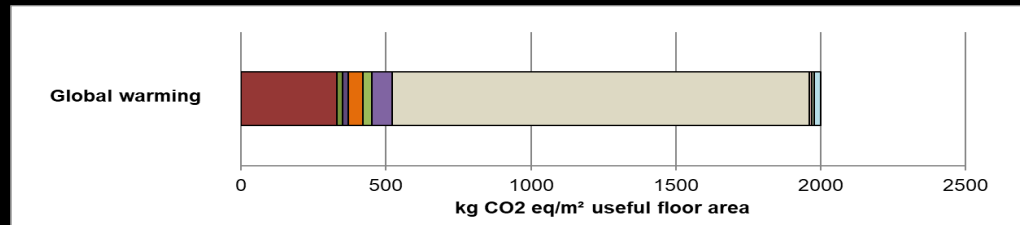
Blant annet:

- EU climate action and the European Green Deal
- EU The 2020 Circular Economy Action Plan
- EU taxonomy for sustainable activities, a framework to facilitate sustainable investment

Tilhørende metodeutvikling og harmonisering:

- EU PEF – Product Environmental Footprint
- EU LEVELS - The European framework for sustainable buildings,
- Metodeutvikling i «alle land»
- Benchmarking:

<https://ec.europa.eu/environment/eussd/buildings.htm>



Nordisk ministerråd

The Nordic Council of Ministers decided the 29 of May 2018 in Stockholm to initiate a work for Nordic harmonization of building regulations concerning climate emissions:

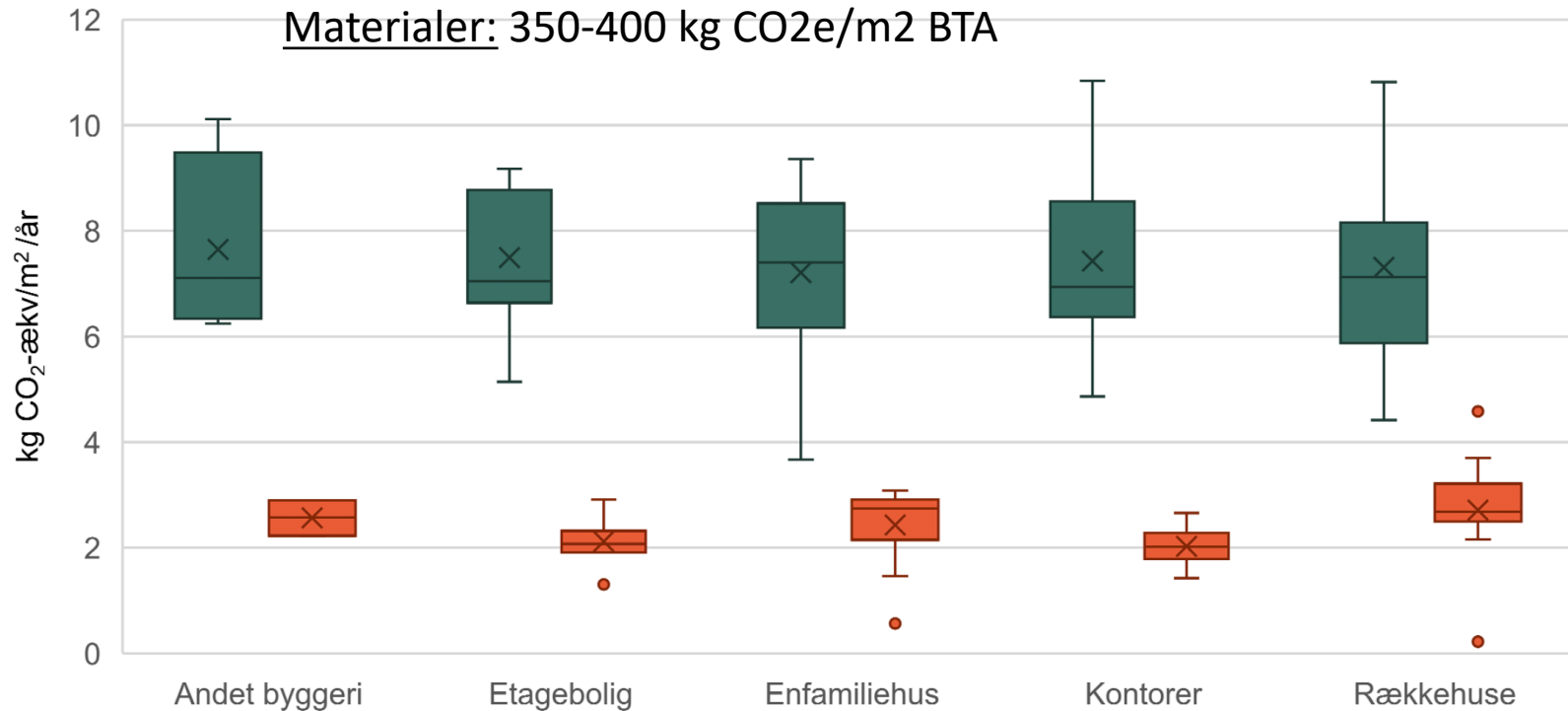
- ⇒ Nordic Dialogue Forum for LCA, climate and buildings
- ⇒ Eksempler fra Finland, Sverige, Danmark og Norge (og etterhvert Island)



Danmark: 60 bygg

■ Bygningsdele ■ Drift

Materialer: 350-400 kg CO₂e/m² BTA



<https://vbn.aau.dk/da/publications/klimap%C3%A5virkning-fra-60-bygninger-muligheder-for-udformning-af-ref>

Sverige

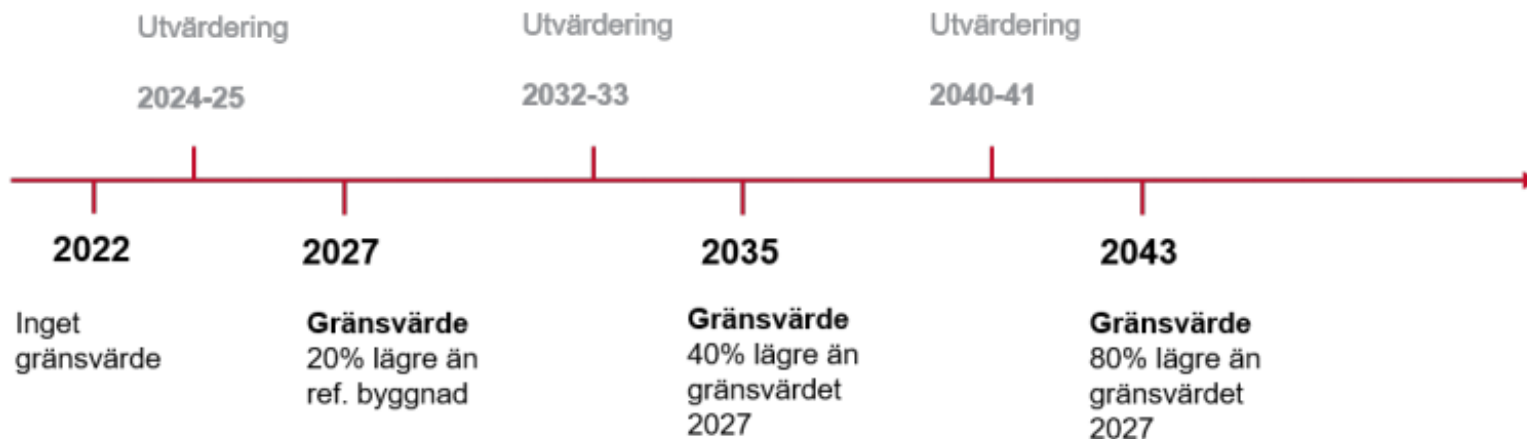
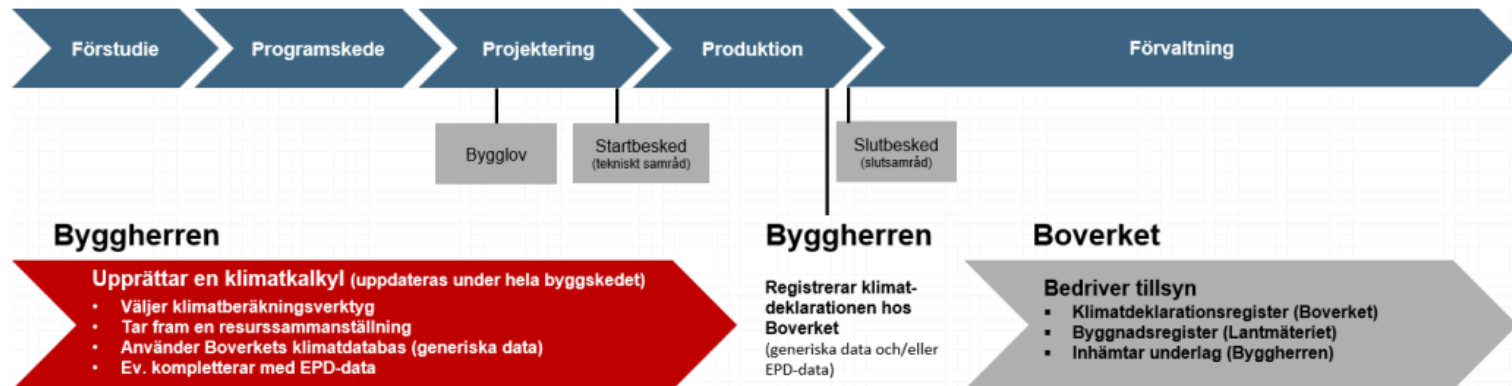
Innfører krav om klimagassberegninger for bygninger fra 1. januar 2022.
Forslag sendt EU.

Forslag om gradvis skjerping av kravene

Beregningsmodeller utviklet (en gratis): <https://www.ivl.se/sidor/vara-omraden/miljodata/byggsektorns-miljoberakningsverktyg.html>

Veiledning utarbeidet: <https://www.boverket.se/sv/byggande/hallbart-byggande-och-forvaltning/livscykelanalys/pdf-generering/?cref=34068>

Database etableres (klar til bruk i 2021): Statistikk, erfaringstall



FutureBuilt skal fortsatt ligge 10 år foran! Bli med på reisen, ta en klimasmultring, ta en FutureBuilt ZERO



Foto: FoodCollection/NTB Scanpix

