

Arkitektene som pådrivere for fremtidens miljøvennlige byer og bygg  
**EPD Norge, 15.juni 2015**

Anders S. Moe  
asm@arkitektur.no



Norske arkitekters  
landsforbund

# The role of the architect



Past



Present

# The role of the architect

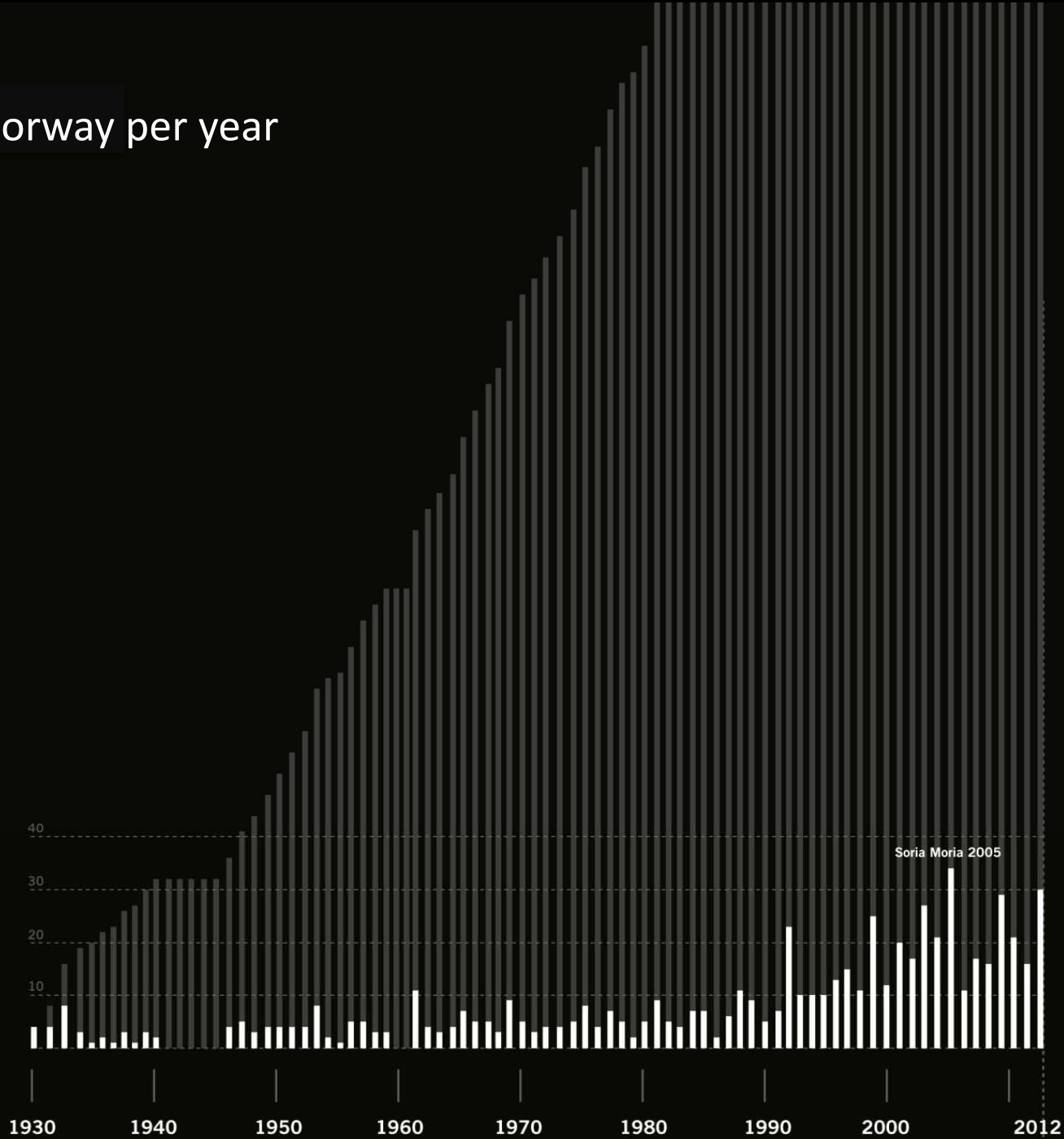


Past



Present

# New laws in Norway per year





● Plane- and Space Technology  
SS-ISO 14300-1

● Air Quality  
SS-ISO 7708

● Rolling resistance for ball  
SS-EN 12234

● Geographic information  
SS 637003

● Control of nickel products intended for contact with skin  
SS-EN 1811

● Forest machines, definitions  
SS-ISO 13862

● Forest machines  
SS-ISO 7914

● Villa  
ISO 9001

● Thermal resistance of building components  
SS EN-ISO 6946

● Colour fastness  
SS-EN ISO 11640

● Tree protection  
SS-ENV 807

● Timber structures  
SS-EN 12512

● Stormwater management  
SS 824031

● Biofuels and peat  
SS 18 71 13

● Wood  
SS-EN 1611-1/A1

● Area and volume of building construction  
SS 637003

● Glasses - anti-reflection coating  
SS-EN 8980-4

● Cold-formed steel  
SS-EN 10142

● Thermal performance of windows, doors and shutters  
SS-EN ISO 10077-1

● Masonry, compressive strength  
SS-EN 1052-1

● Textile  
SS-EN ISO 105B-04

● Masonry, Use  
SS-EN 998-2

● Analysis Method to detect Salmonella in food  
SS-EN ISO 6579

● Aluminium  
SS-EN 573-1

● Exterior doors  
S! 817304

● Building seizures  
SS-EN 1906

● Hedge trimmer  
SS-EN 774/A3

● Telecommunications and data communications  
ISO 1007

● Photography  
ISO 1007

● Fasteners  
SS-EN ISO 898-1

● Screws  
SS-ISO 262

● Gas Grill  
SS-EN 484

● Quality Cleaning  
SS 62 78 01

● Protection Against Exposure to Ultraviolet Radiation  
SS-EN 11758-1

● Identification of products  
SS-ISO 15394

● Doors  
SS-EN 1529

● Geotextile  
SS-EN 13251

● Mulch film  
SS-EN 13655

● Fertilizer and lime  
SS-EN 13535

● Screwdriver  
SS-ISO 2380-2

● Playground  
SS-EN 1176-6/A1

● Textile, Determination of Dimensional Change in Washing and Drying  
SS-EN 28077

● Textile, Determination of Dimensional Change in Washing and Drying  
SS-EN 28077

● Toys  
SS-EN 70-1

● Shift Keys  
SS-ISO 6787

● Safety  
SS 62 4070

● Geotextile  
SS-EN 13251

● Geotextile  
SS-EN 13251

● Plastic hose  
SS-EN ISO 6224

● Pallets  
SS-EN 13545

● Knee joint implant  
SS-EN 12564

● Textile, sizes. Ongoing standardization project

● Outdoor furniture  
SS-ENV 581-2

● Heat processed structural tubes  
SS-EN 10210-1

● Color and lacquers  
SS-EN ISO 11998

● Kids Bikes  
SS-ISO 8098

● Recreational Diving  
SS-EN 14153

● Water Research  
SS-EN ISO 6222

● Soil Survey  
SS-ISO 11268-3

● Footwear  
SS-EN 13520

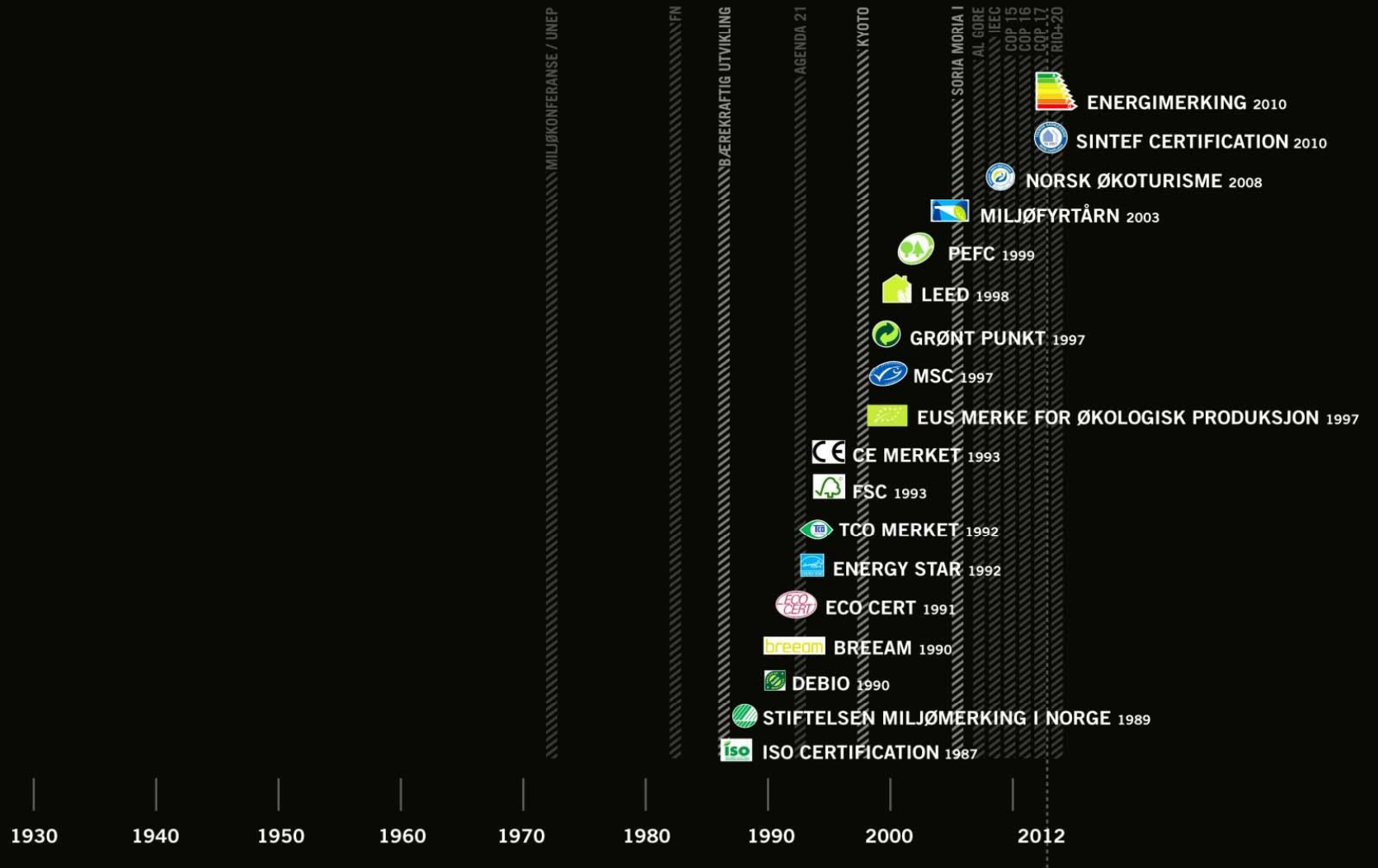
● Leather  
SS-EN ISO 5404

● Motor-powered lawn mowers  
SS-EN 836/A1

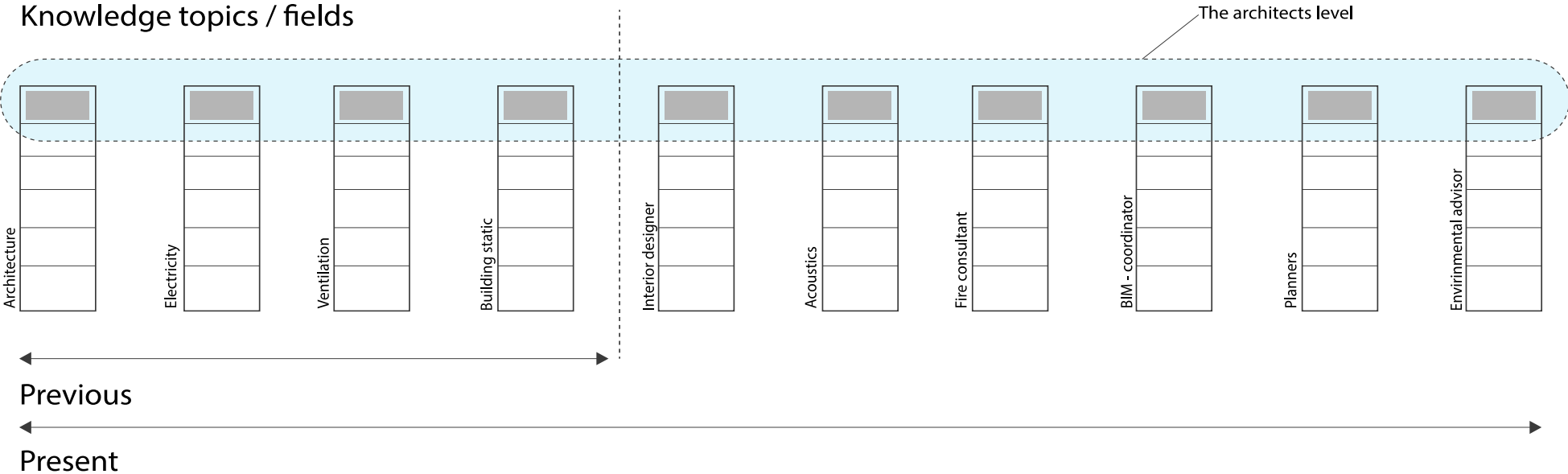
● Plastic  
SS-EN ISO 172

Illustration: <http://www.sis.se>

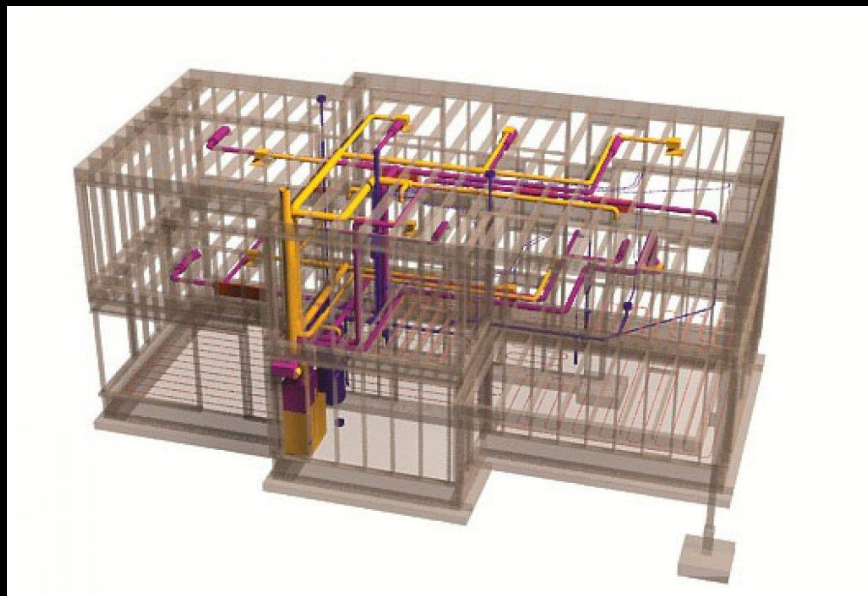
# Certifications related to sustainability



# Architects are generalists- that's their speciality



# Drømmerollen



RIB, RIV, RIE, RIBr, RIAku, RIM ...



ill.: Ola Roald  
arkitektur

ARK





VINNER AV  
ARKITEKTURPRISEN 2015

## Formålsparagrafen

Norske arkitekters landsforbund (NAL) er en fagideell medlemsorganisasjon for arkitekter i Norge som arbeider for:

- Tydeliggjøre arkitektfagets samfunnsmessige betydning
- Bedre rammebetingelsene for arkitektur
- Fremme høy kvalitet i utøvelsen av faget
- **Bidra til et bærekraftig samfunn**

NAL har ca 4300 medlemmer fordelt på 14 lokalforeninger.



III: Snøhetta / MIR



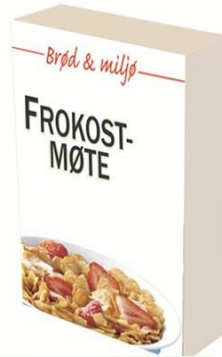
III: Snøhetta



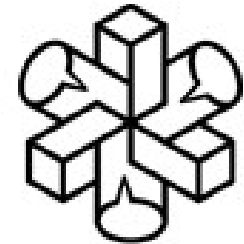
Se opptak fra Brød & Miljø 11.11.2015:



Norske arkitekters  
landsforbund



FRAMTIDENS  
BYGDER



TRE OG BY

50%

CO<sub>2</sub>

TROMSØ TRONDHEIM STAVANGER SANDNES OSLO BÆRUM DRAMMEN  
SARPSBORG FREDRIKSTAD SKIEN PORSGRUNN KRISTIANSAND BERGEN

Bvrød & Miljø  
Materialtreff  
Prosjektdatabasen

Framtidens Bygg  
FutureBuilt  
Framtiden Bygder

Tre og by  
Senter for bærekraftig by- og  
tettstedsutvikling

amstykket barnehage, Møllestua barnehage, Søreide skole, Åsveien skole, Fjell barnehage, sesenteret i Telemark, Moholt studentby, Powerhouse Kjørbo, Husabøryggen bofelleskap ehøyhuset i Bergen, Rådalslien bofelleskap, Lislebyhallen, Vindmøllebakken, Vålandshaugen rnehage, Nøstegaten, Siljustølparken m.fl.



FRAMTIDENS BYGG

FUTURE BUILT

FRAMTIDENS BYER



TROMSØ TRONDHEIM STAVANGER SANDNES OSLO BÆRUM DRAMMEN  
BÅRPSBORG FREDRIKSTAD SKIEN PORSGRUNN KRISTIANSAND BERGEN

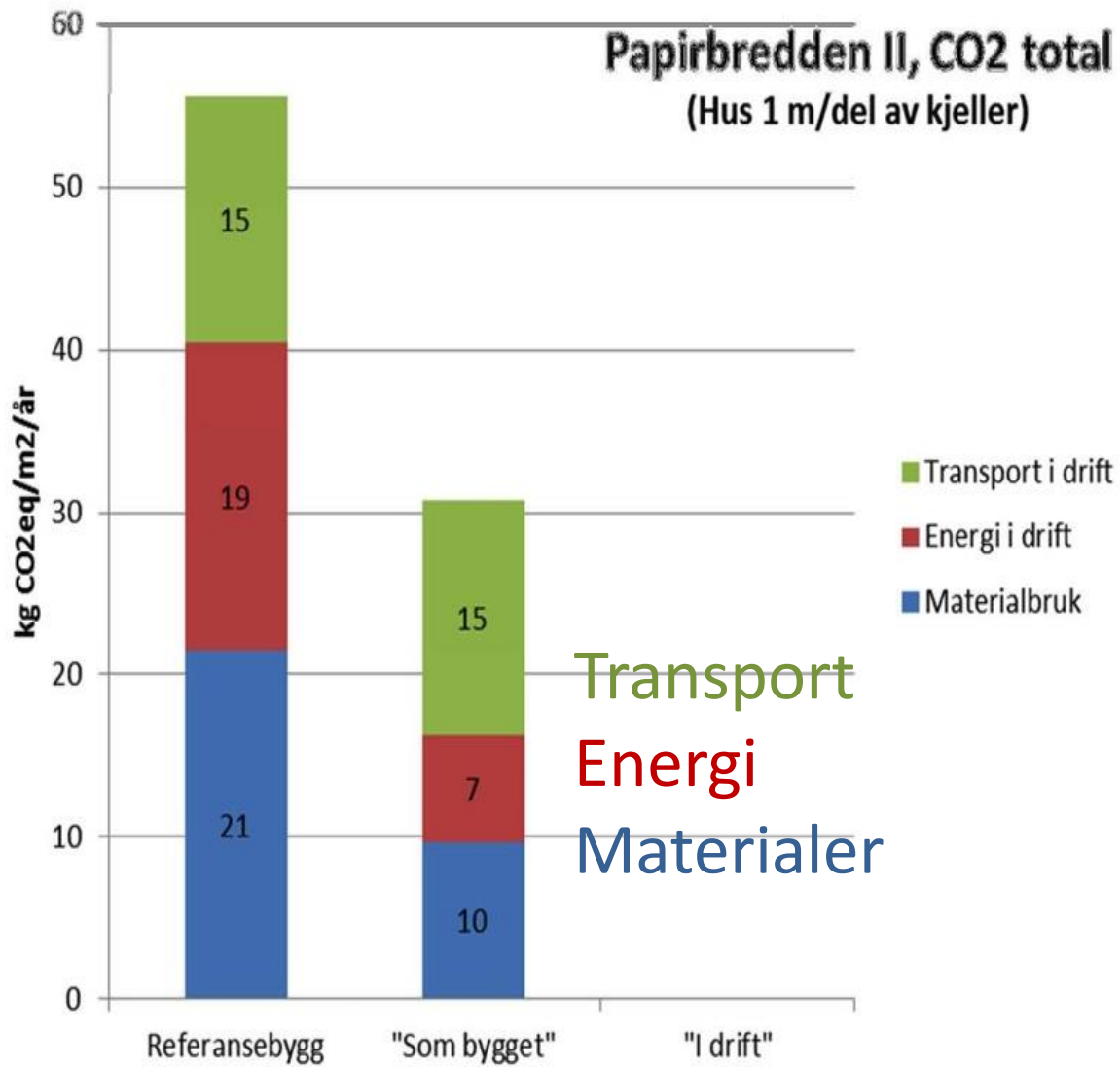


ca 70 piloter i dag

50%

CO<sub>2</sub>

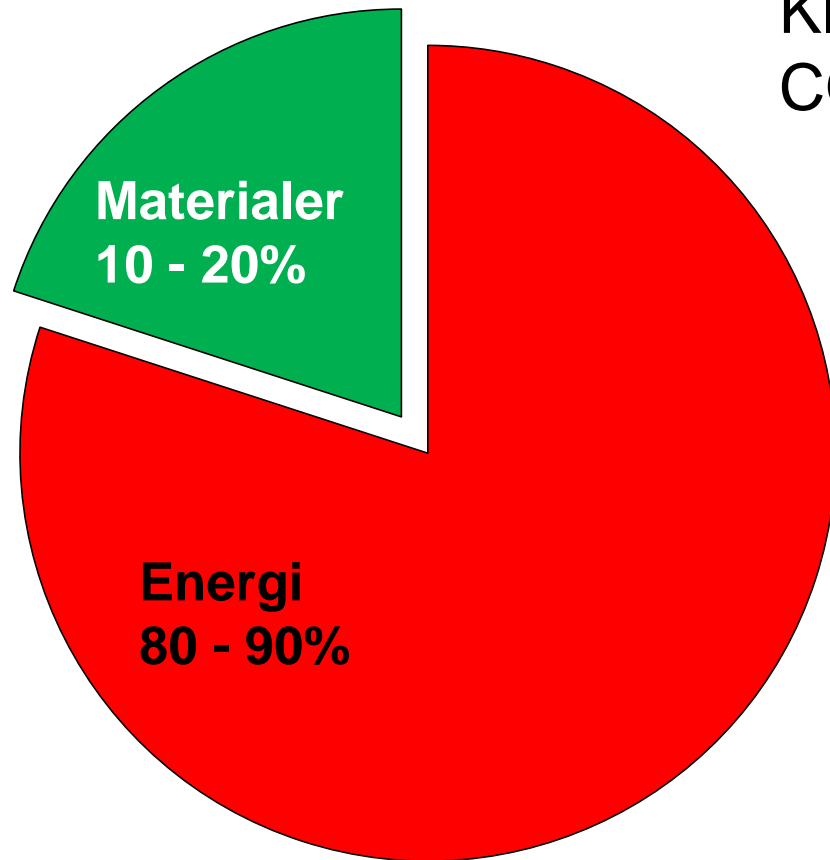
### Papirbredden II, CO2 total (Hus 1 m/del av kjeller)



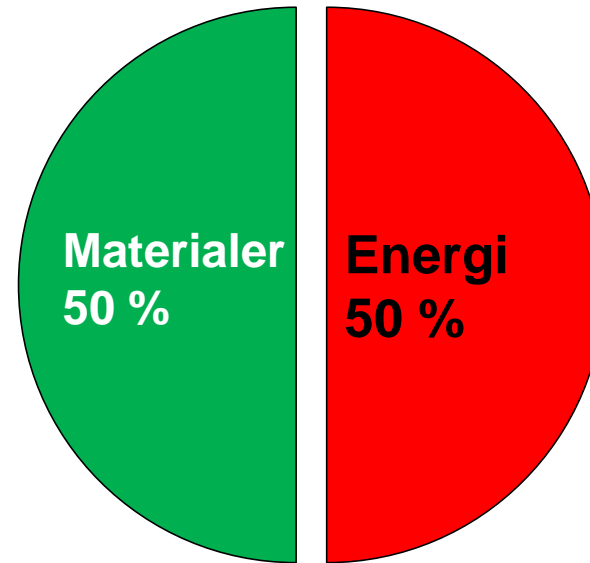
Transport  
Energi  
Materialer



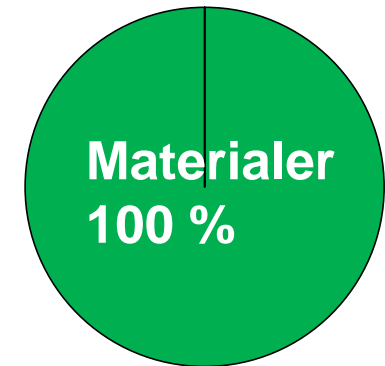
## Klimagassutslipp inbyrdes fordeling mellom CO2-utslipp fra energibruk og materialer



Konvensjonelle bygg  
(2010)

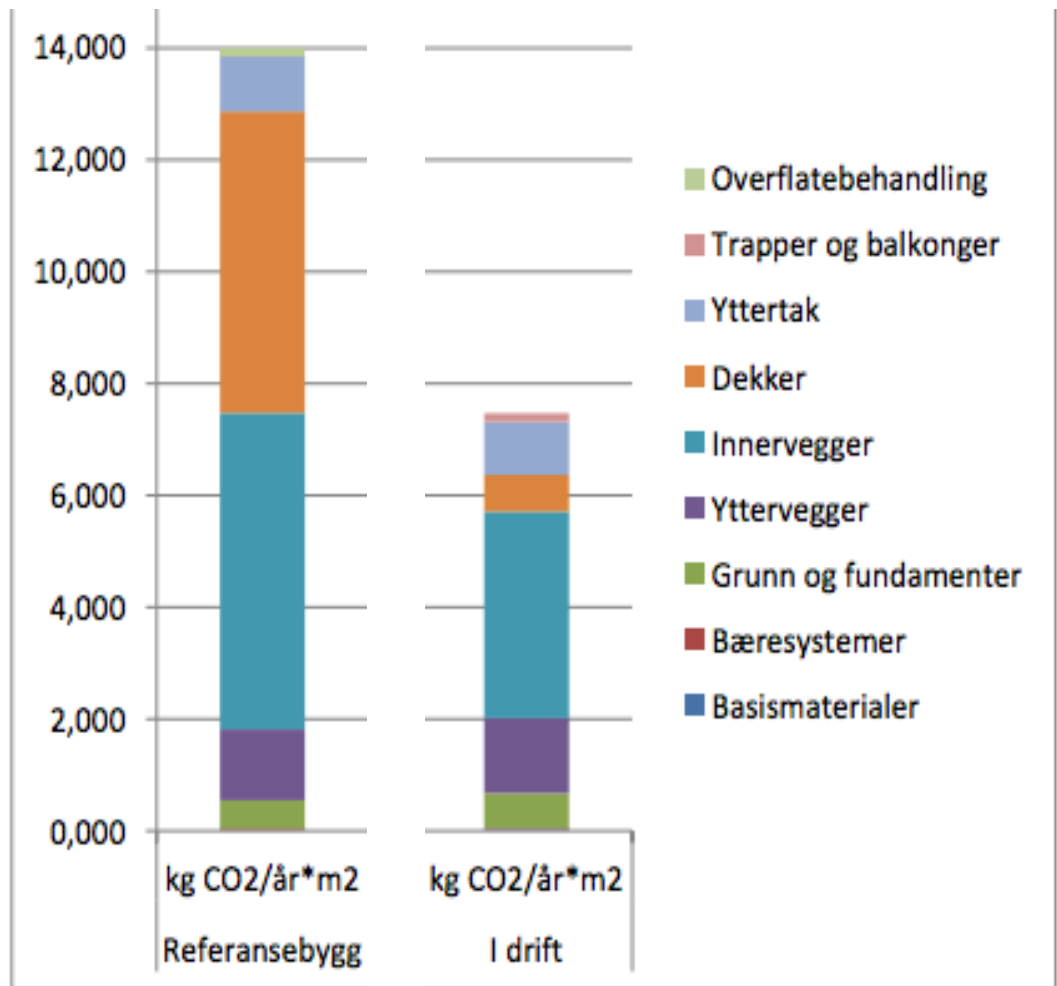


lavenergi- /passivhus  
(2015)



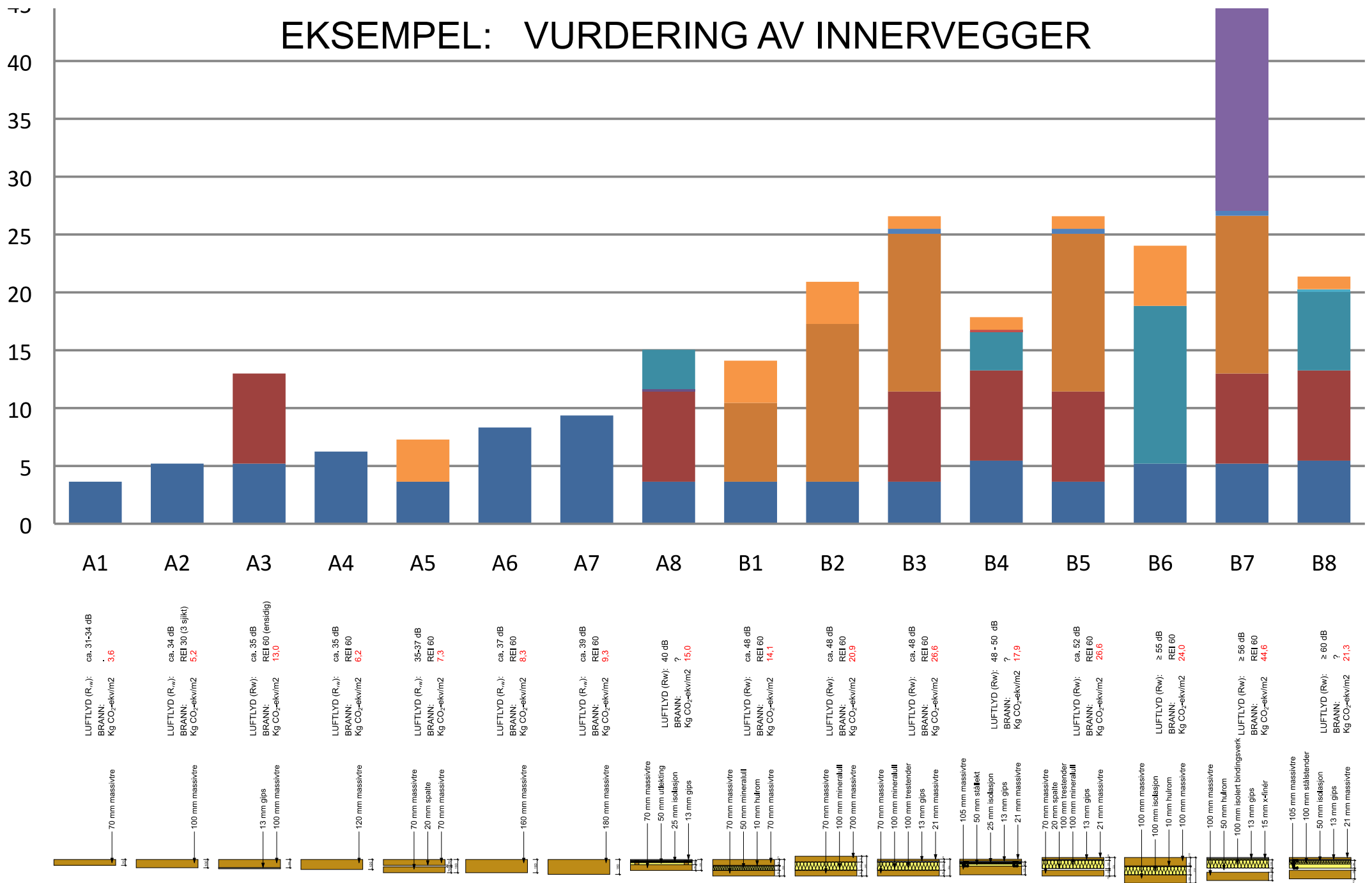
0-energihus  
(2025)

# Fjell Barnehage, CO2 Materialbruk



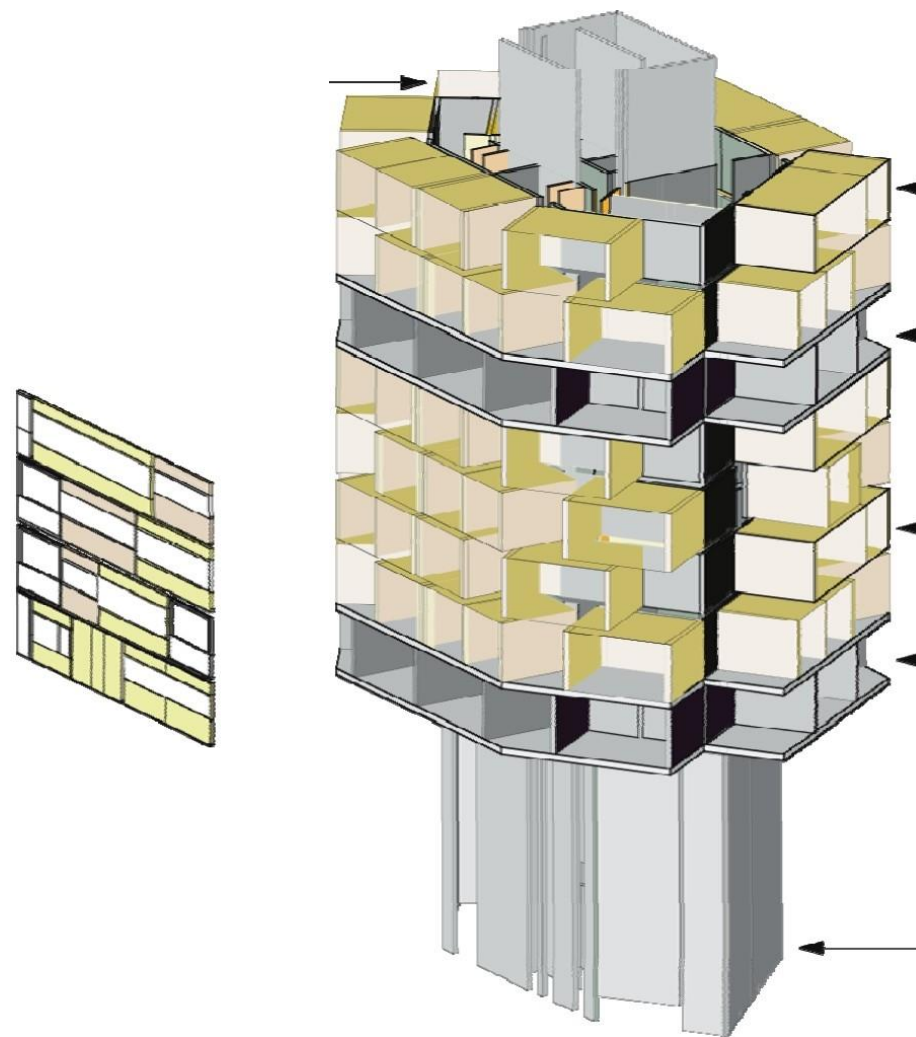


# EKSEMPEL: VURDERING AV INNERVEGGER





Vennesla bibliotek. Foto: Ketil Jacobsen



Tre Tårn, Rundeskogen i Sandnes  
Illustrasjon: Helen og Hard Arkitekter



Foto: Helen og Hard Arkitekter



TRE OG BY

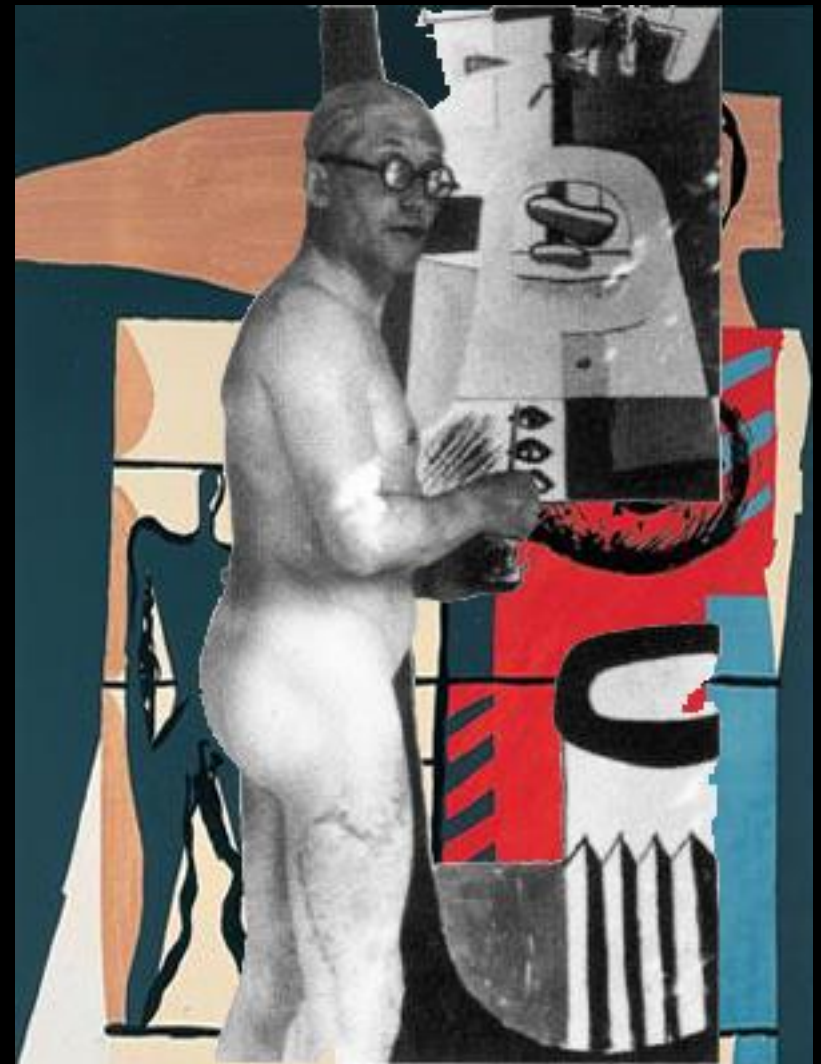
Verdens høyeste trehus, 14 etasjer

Foto: David Valdeby

# The role of the architect



Tomorrow



Future

Takk for oppmerksomheten

Anders S. Moe  
asm@arkitektur.no



Norske arkitekters  
landsforbund