

TRANSFORMATION

as

Circular Practice



ROSKILDE
MUNICIPALITY

Circular Development
in a local context



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ACTOR-DRIVEN URBAN DEVELOPMENT

- Identification of key actors
- Mapping of interests
- Help with establishment
- Create a framework for the self-grown to establish itself in the district
- Create critical mass
- Test, test, test.. (physical framework, forms of cooperation, business potential etc.)





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**TEST
DEVELOP
TEST**



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THE NEED FOR A NEW PARADIGMA



Buildings are too **complex**, too many materials are used.

Buildability

Is a goal in itself.

Responsibility

is not treated in the process

Building owners are not dealing with **risk** in a transparent manner.

PREDEMOLITION SCREENING

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MATERIAL BANKS

Materials are **tested** and taken out of the waste hierarchy through **EoW**

Material passport indicates possible reuse and recycling potential

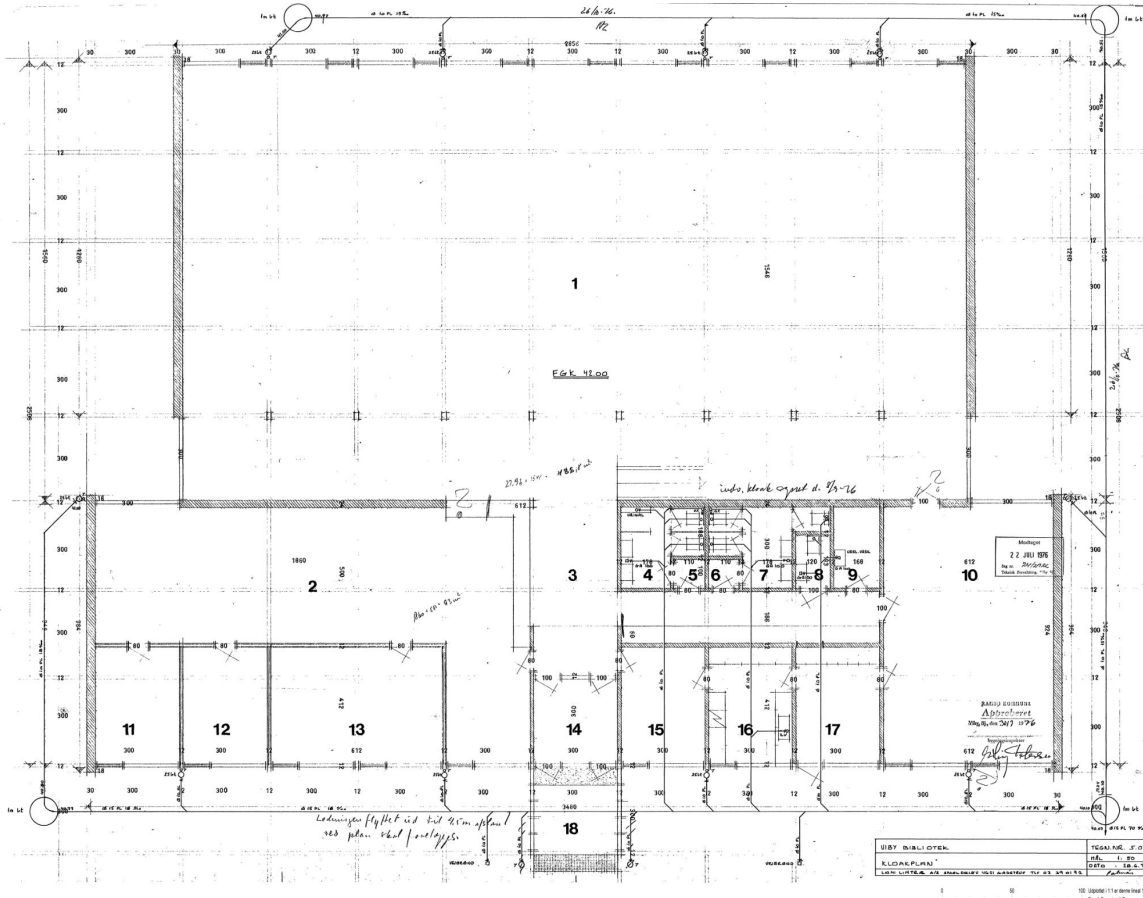


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COMPONENT SCREENING



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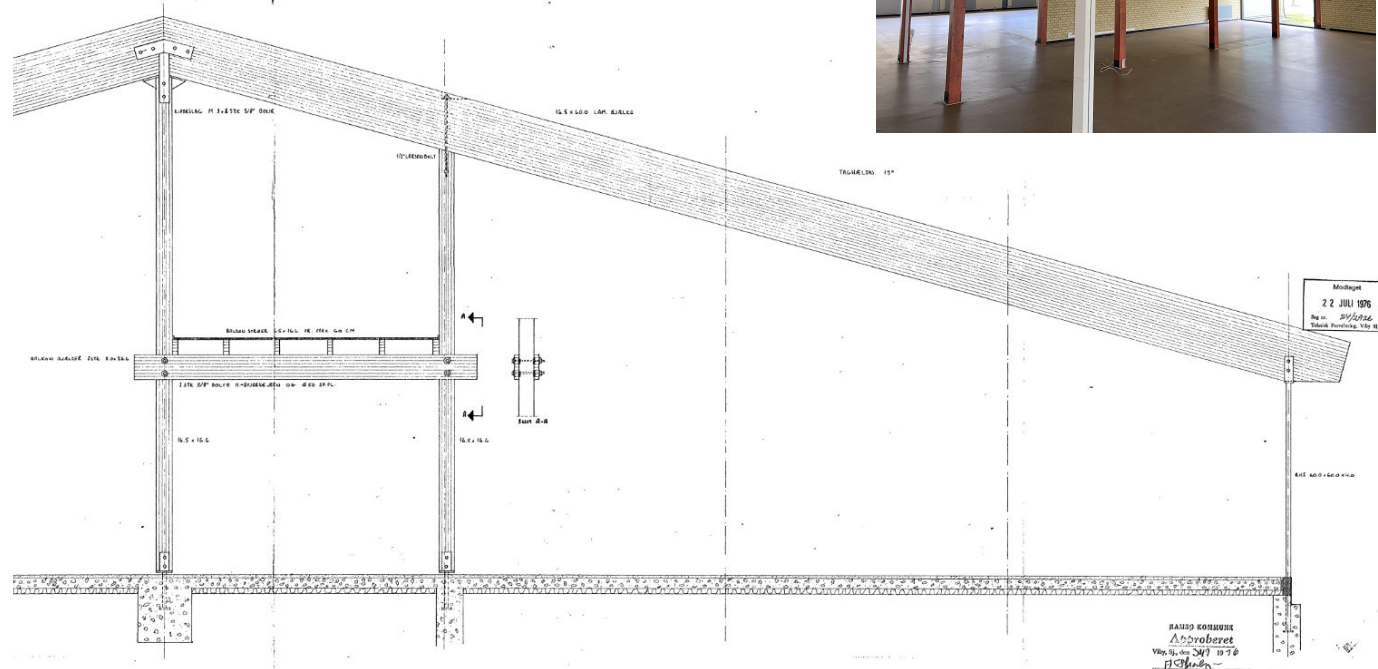
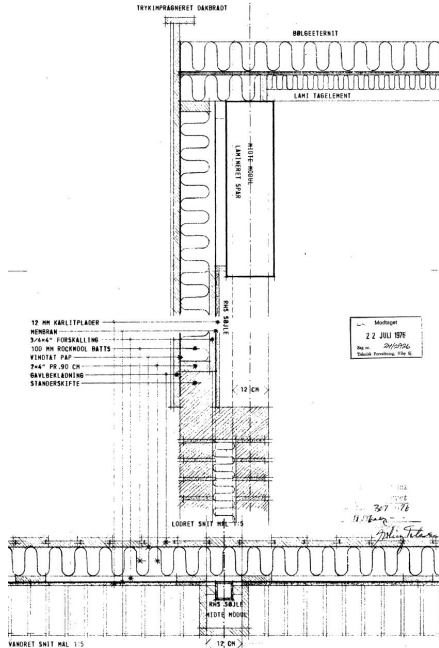


Building components are parts of systems and systems are parts of functions.

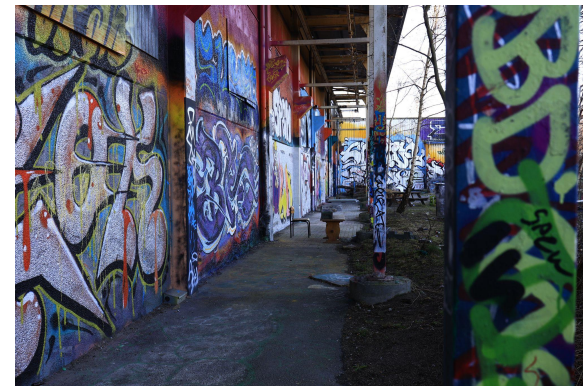
Humans relate to **function** and **identity**, not systems and materials.



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FORM FUNCTION ATTUNEMENT





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Fraction	Unit	Amount	Circular action	Transport distance Km	Saving Potential Reuse	Saving Potential Recycling	Saving Potential in kg CO2e	Saving Potential Accumulated kg CO2e
1 Sand/Gravel	tons	3500	Local Reuse	50	13466,25	Not relevant	13466,25	13466,25
2 Soil	tons		No circular action		0	Not relevant	0	0
3 Concrete	m ³		No circular action		0	0	0	0
4 Bricks	m ²	5000	General Recycling		194650	246550	246550	246550
5 Glass/windows	m ²		No circular action		0	Not relevant	0	0
6 Gypsum	m ²		No circular action		Not relevant	0	0	0
7 Steel	kg		No circular action		0	0	0	0
8 Aluminum	m ²		No circular action		0	0	0	0
9 Bitumen/Roofing	m ²		No circular action		Not relevant	0	0	0
10 Insulation	m ³		No circular action		Not relevant	0	0	0
11 Timber	m ³		No circular action		0	0	0	0

2,60E+05 kg CO₂e total

THANK YOU VERY MUCH!



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Websites:

www.roskilde.dk/bæredygtigtbyggeri

www.circularcities.eu

