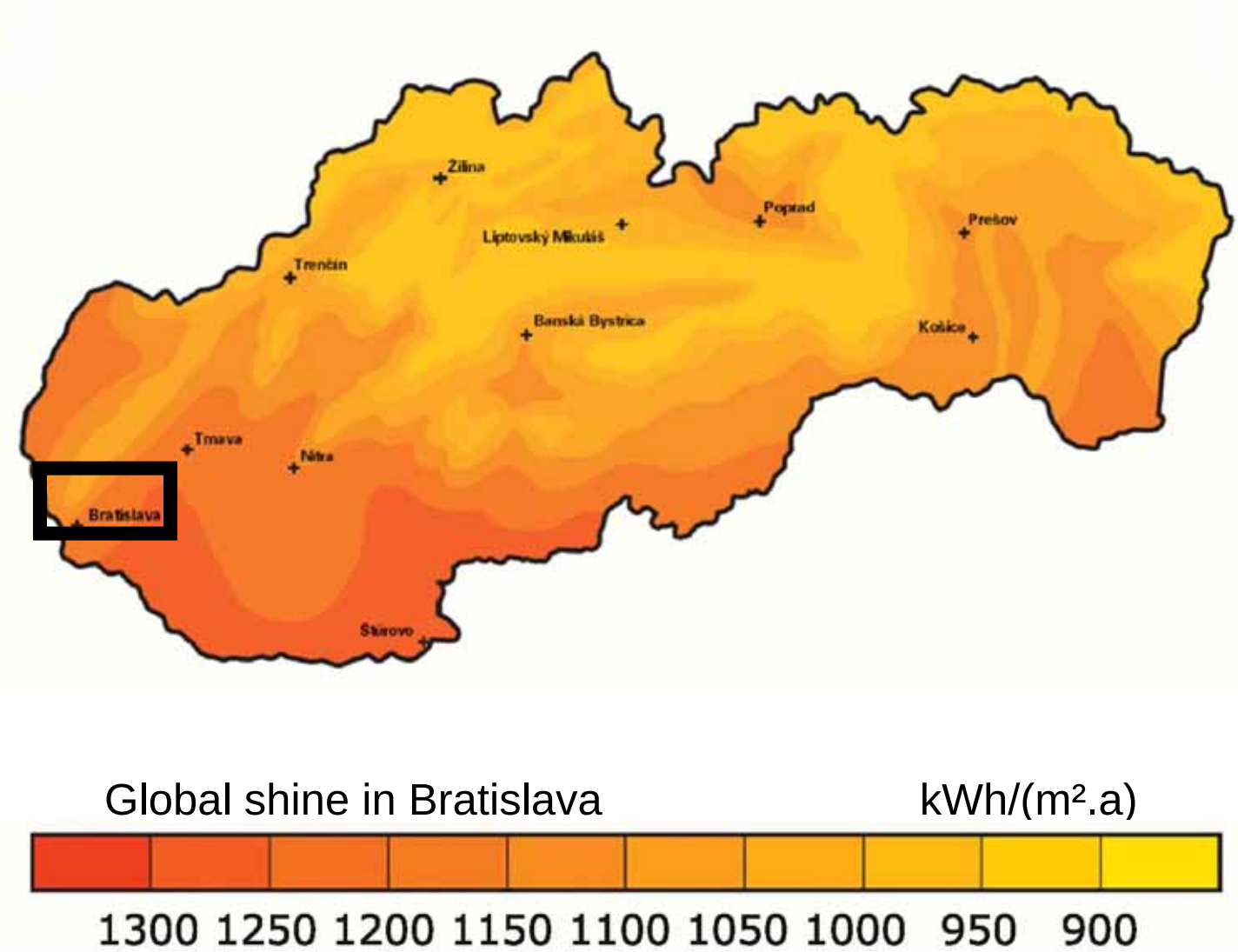
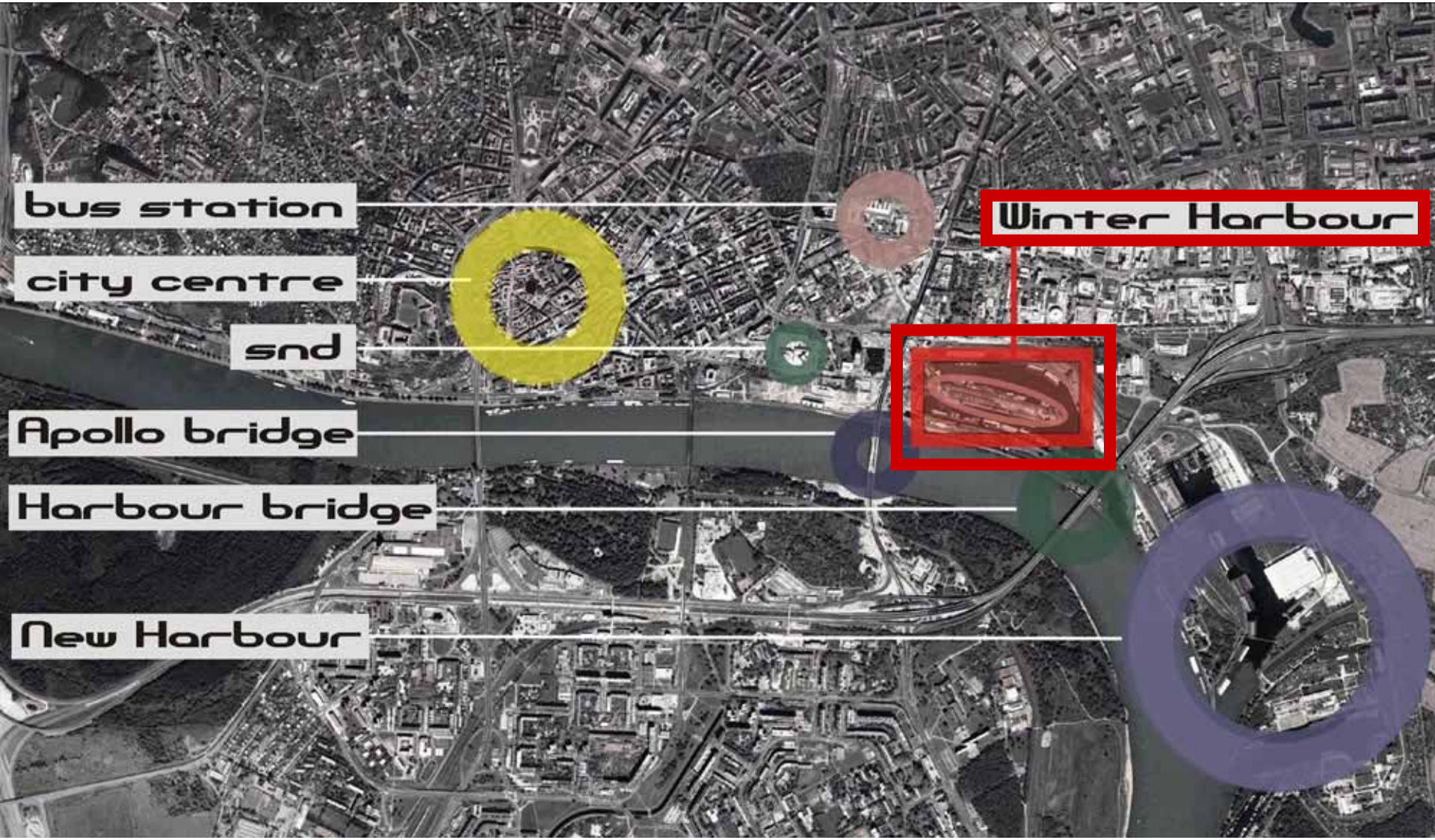
Robert LOFFLER & Vladimír HAIN

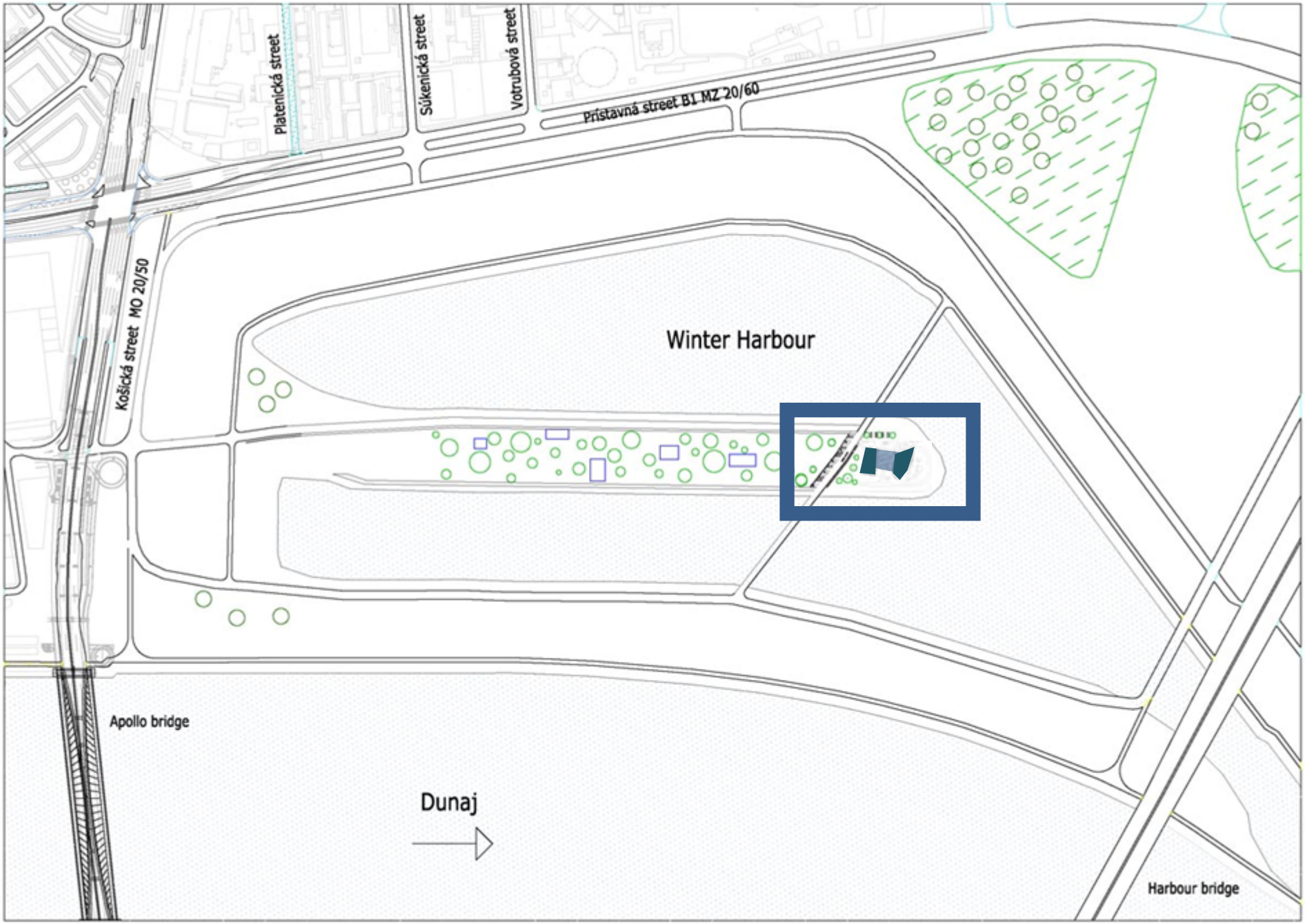

office

Location


Žilina
Poprad
Prešov
Liptovský Mikuláš
Trenčín
Banská Bystrica
Košice
Trnava
Nitra
Bratislava
Štúrovo
Global shine in Bratislava
kWh/(m².a)
1300 1250 1200 1150 1100 1050 1000 950 900

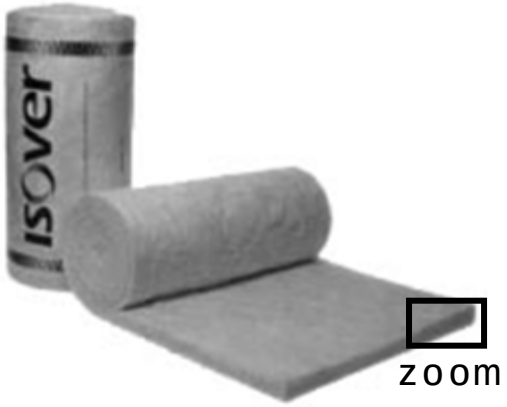

bus station
city centre
snd
Apollo bridge
Harbour bridge
New Harbour
Winter Harbour

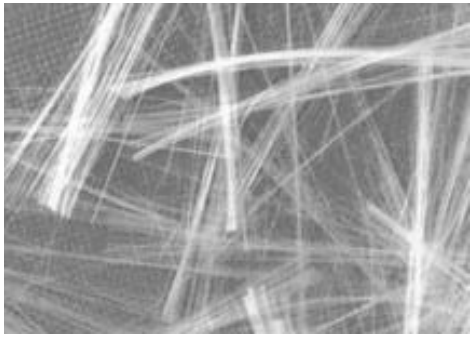

© 2009 Tele Atlas


Platenická street
Sükenická street
Votrubová street
Prístavná street B1 MZ 20/60
Košická street MO 20/50
Winter Harbour
Apollo bridge
Dunaj
Harbour bridge

Different functions connected with underground atrium

Idea of shape

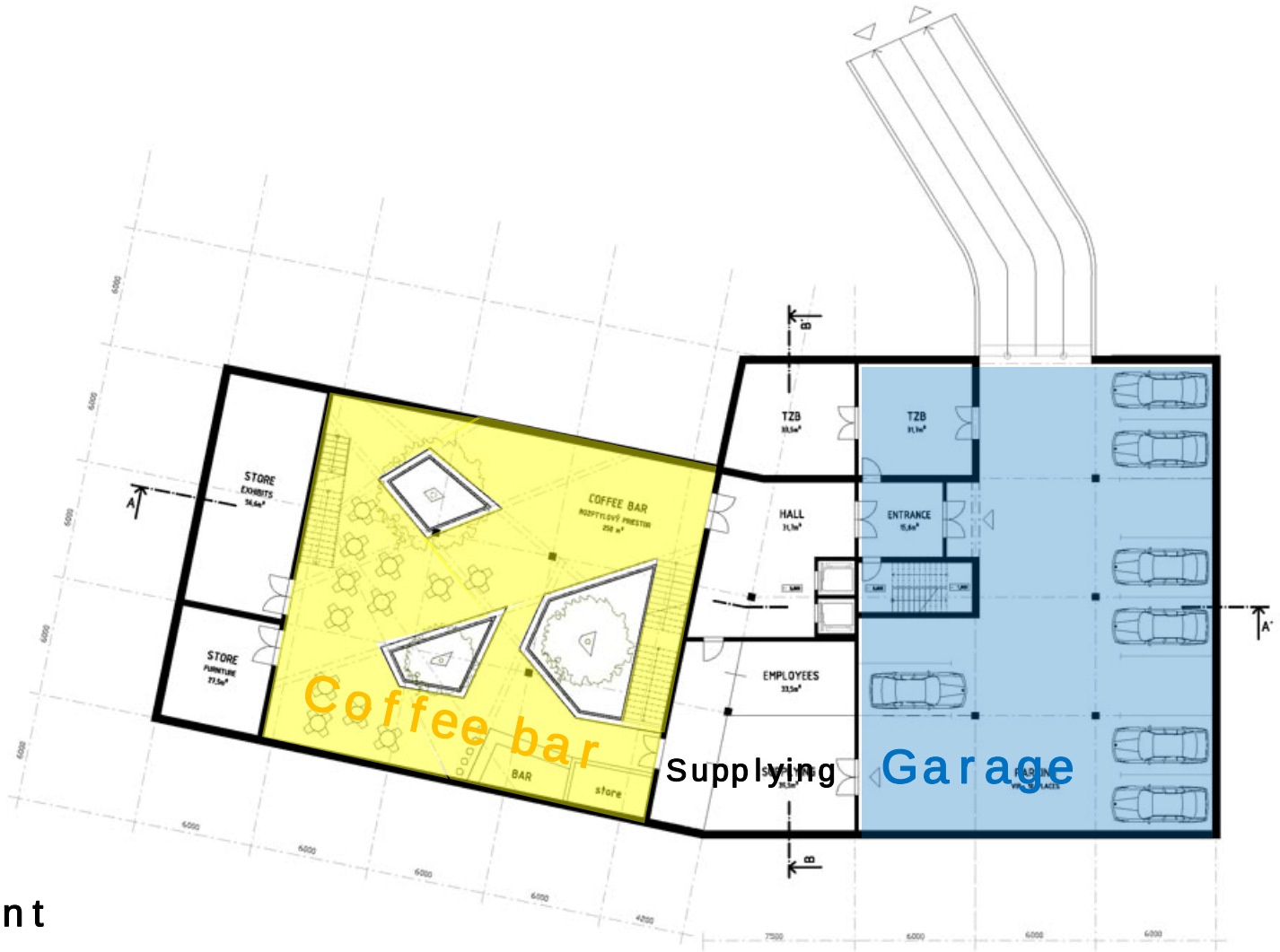




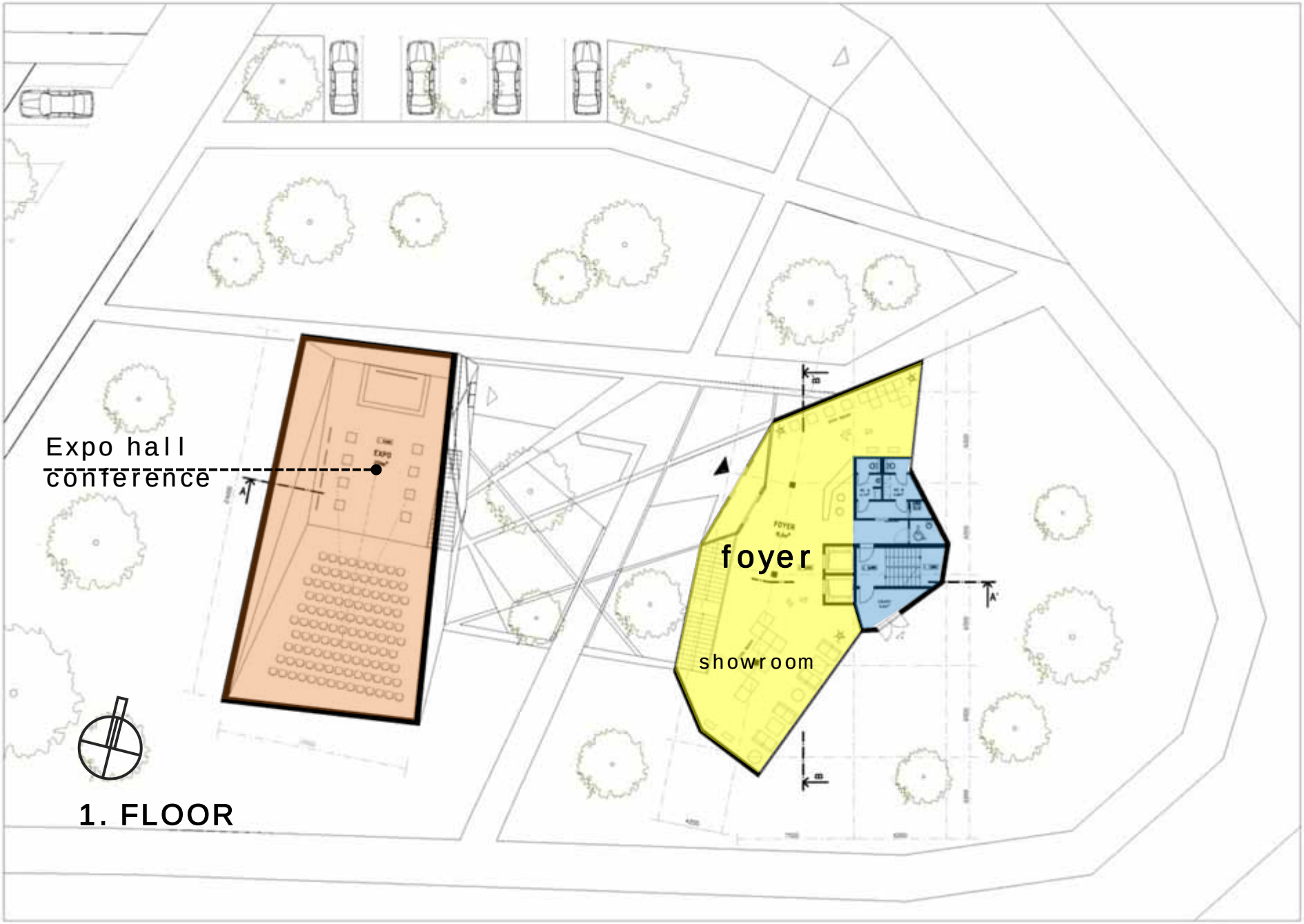
Fibre of insulation

1. FLOOR - situation

Atrium with skylight and garden arrangement between buildings

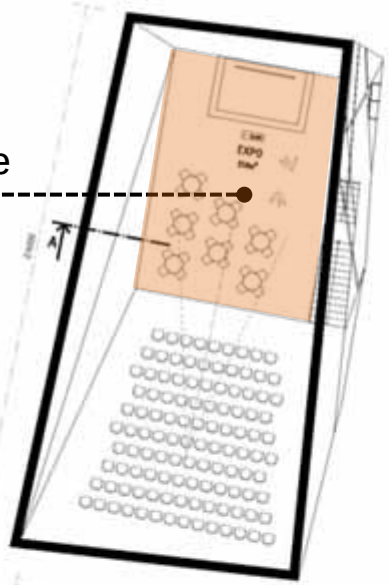

STORE
EXHIBITS
STORE
FURNITURE
COFFEE BAR
Coffee bar
BAR
store
TZB
TZB
HALL
ENTRANCE
EMPLOYEES
Supplying
Garage
A
A'
B
B'

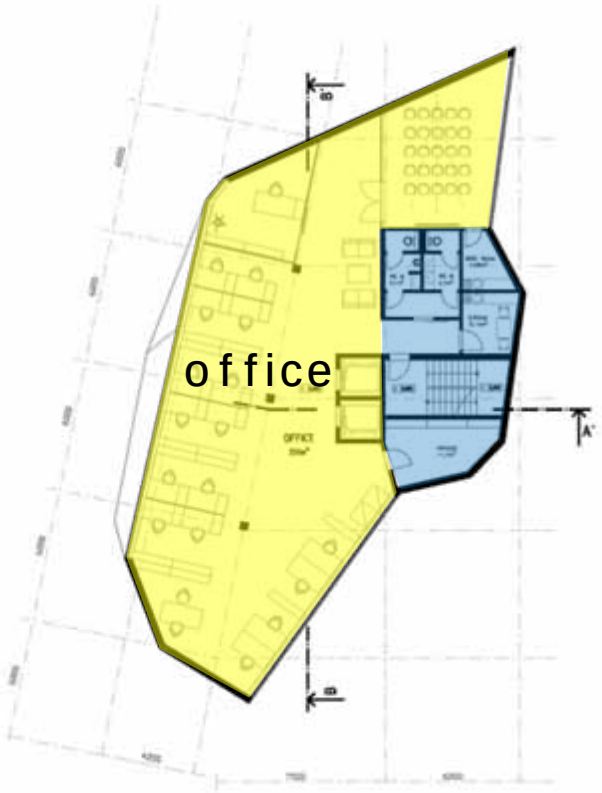
Basement



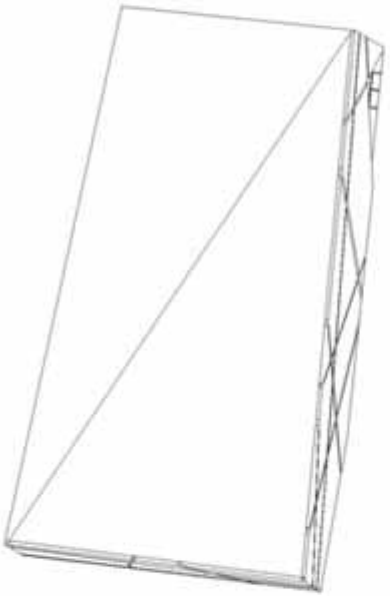
1. FLOOR

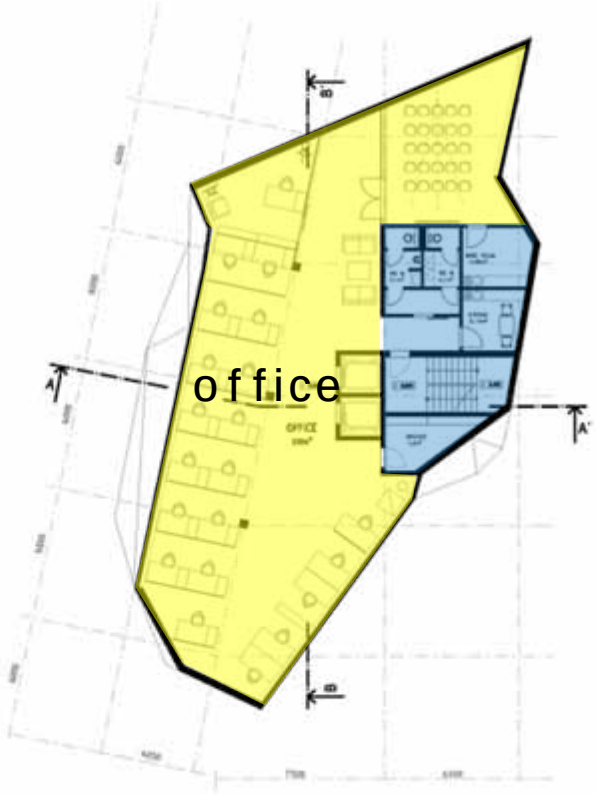
Alternative use



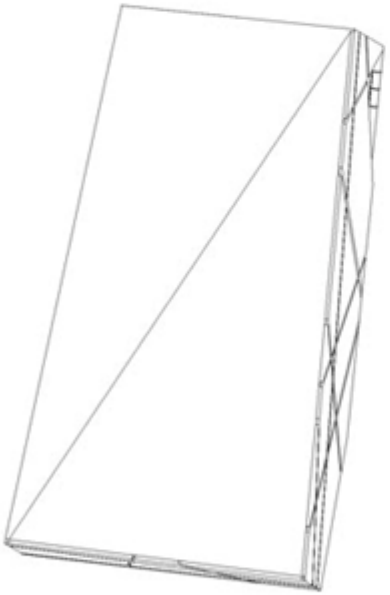


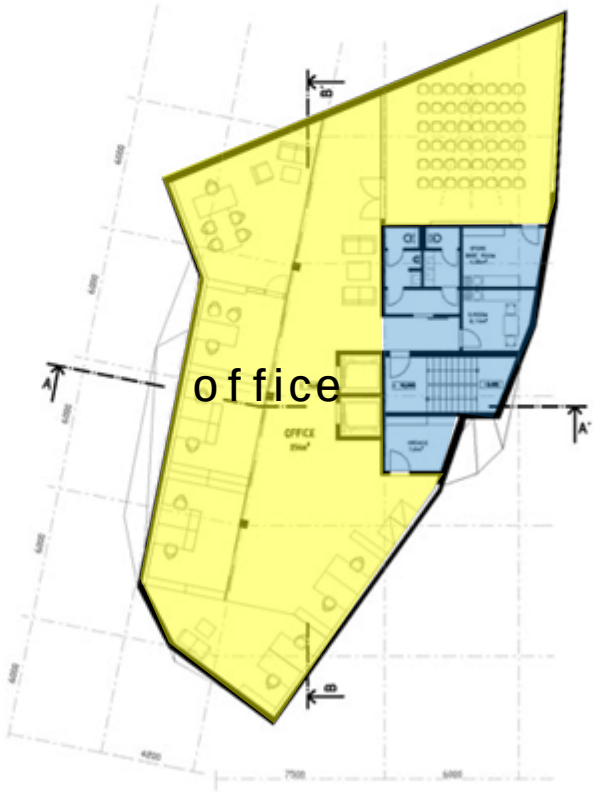
2. FLOOR



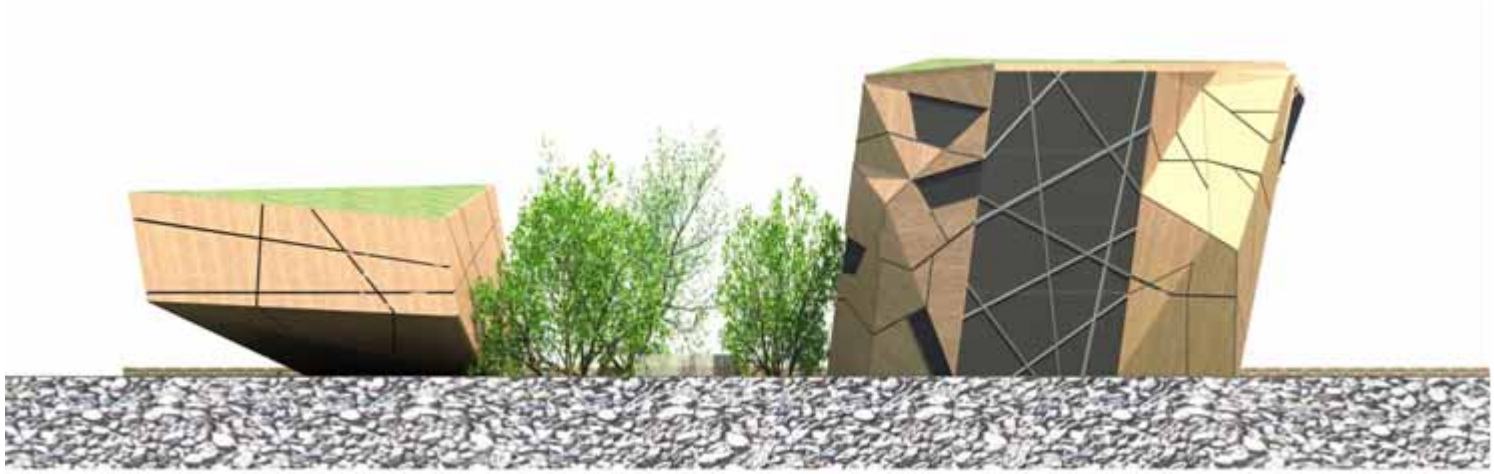


3. FLOOR

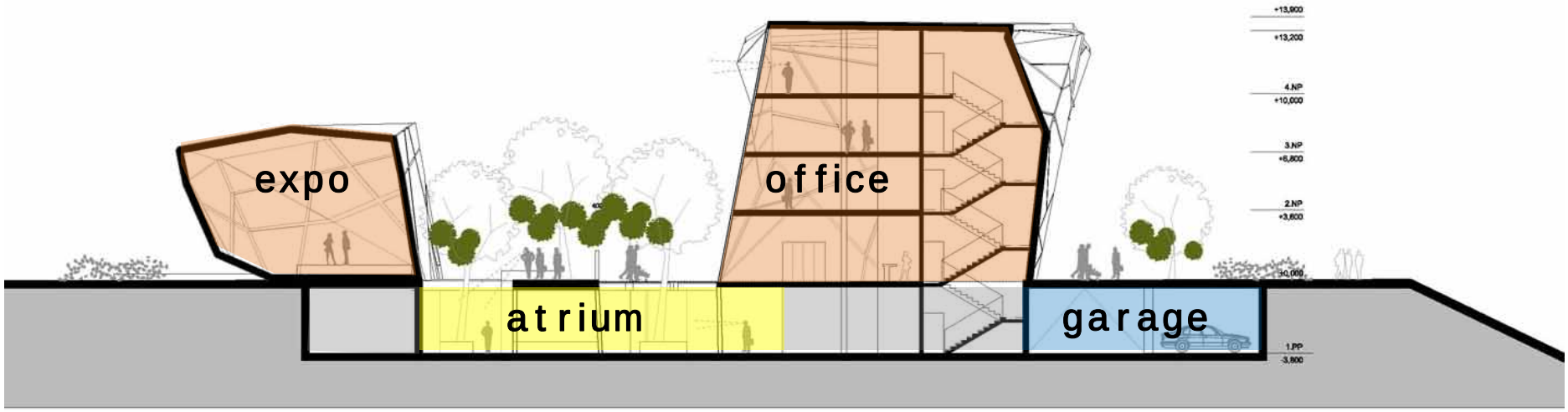




4. FLOOR

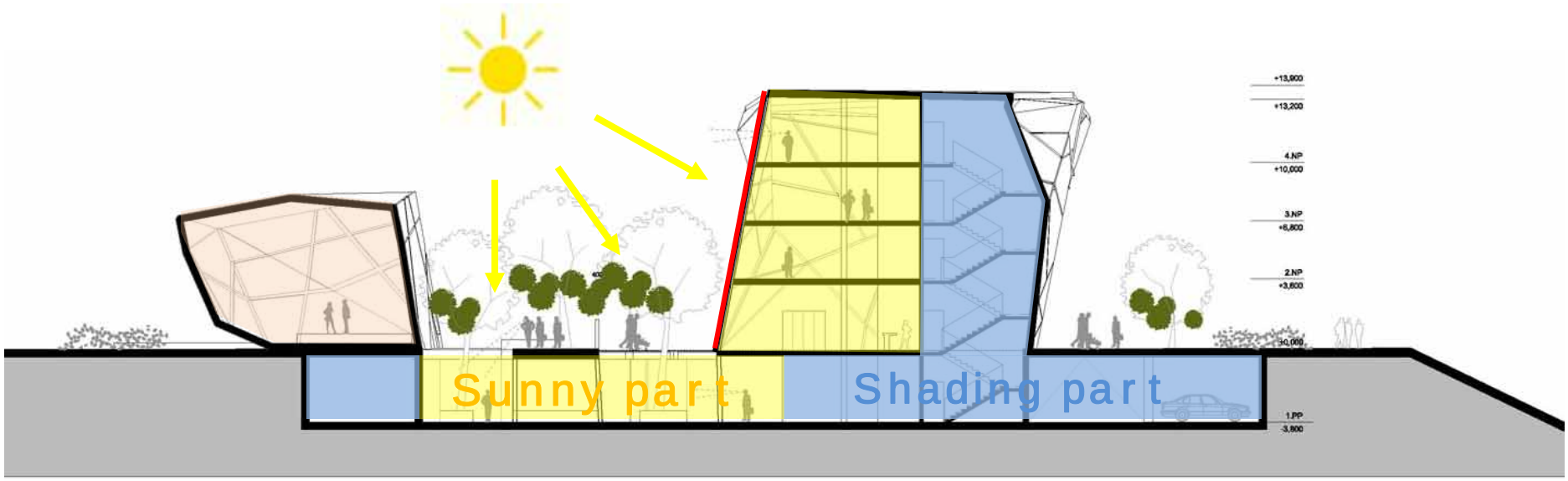


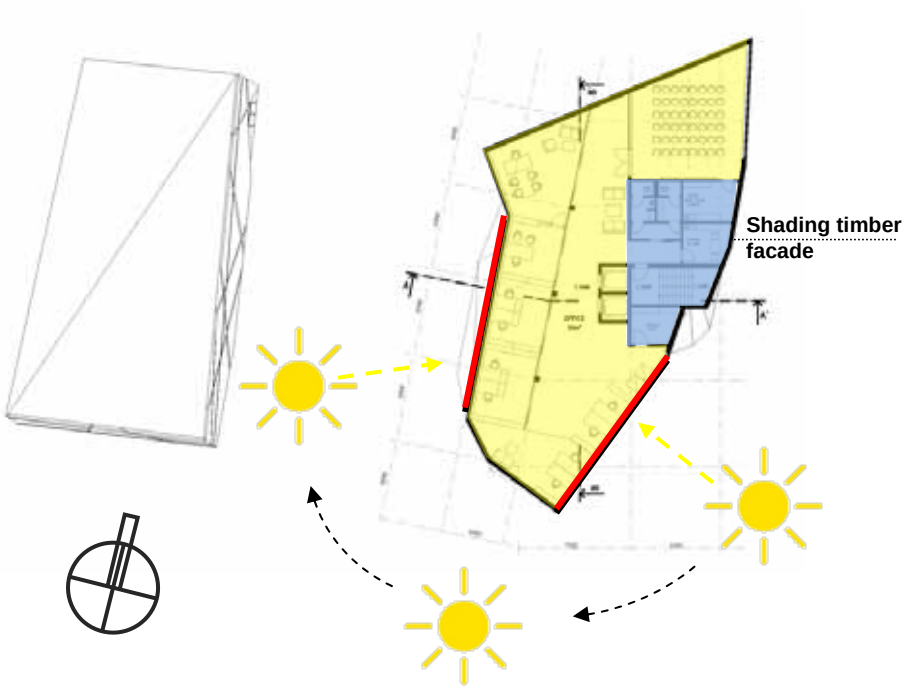
South elevation

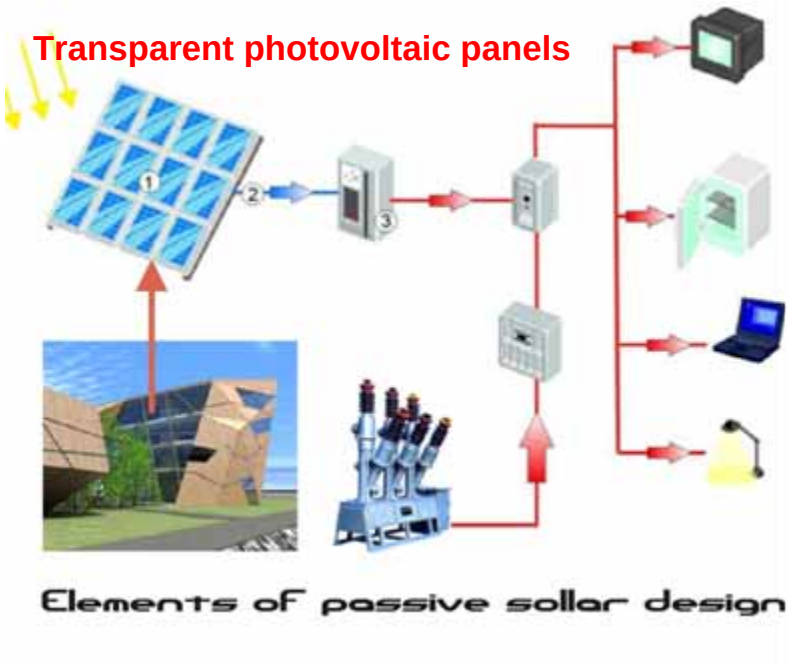


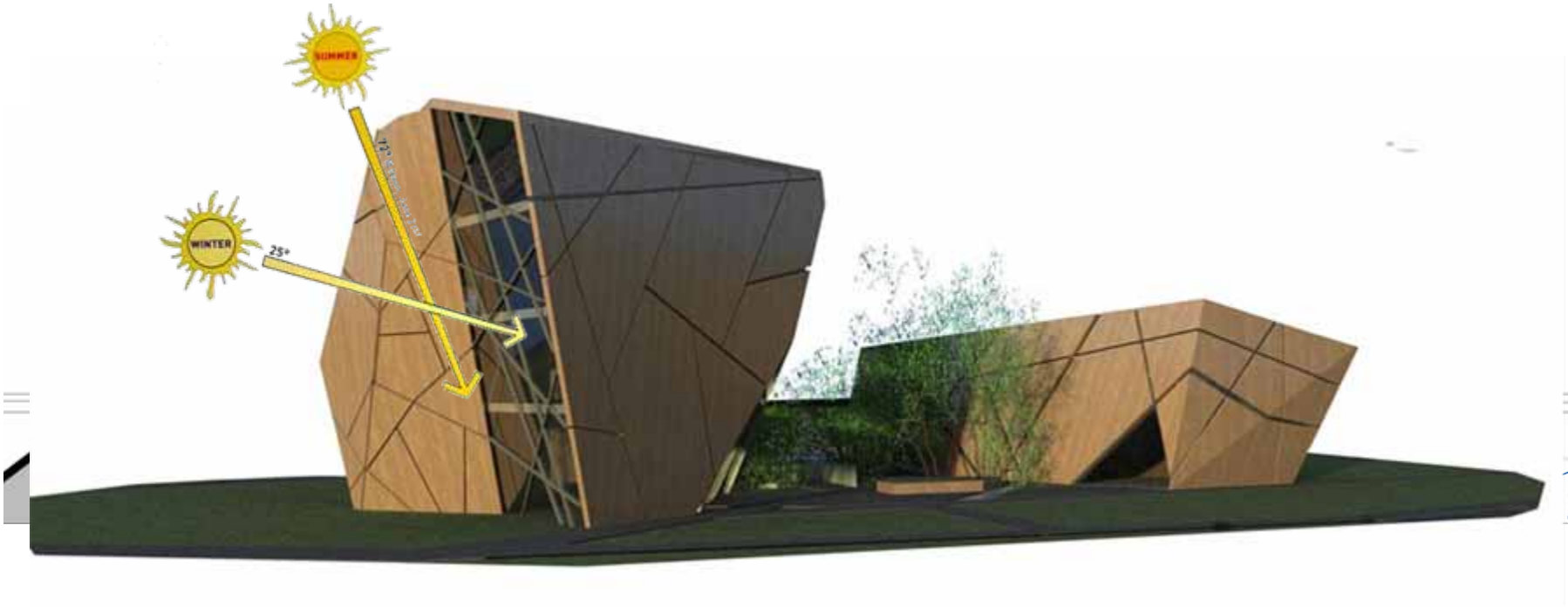
Section A-A´

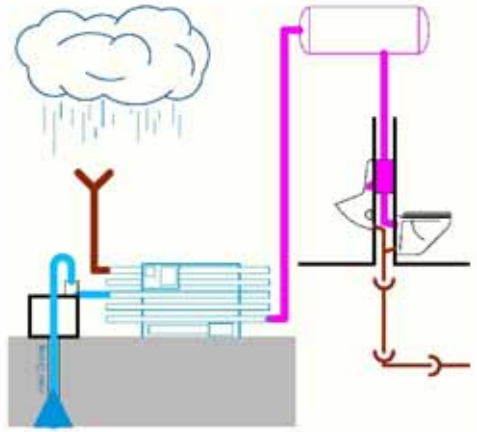
Ecological aspects


Sunny part
Shading part

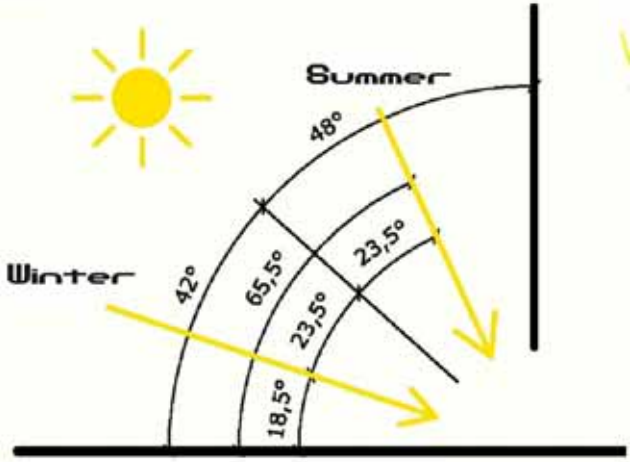

Shading timber facade


Transparent photovoltaic panels
Elements of passive solar design





Scheme of water system



Different shine during the year

Energy calculation

Termal loss – Qv = 48,7 kWh/(m².a)

Insolation – Qs = 25,4 kWh/(m².a)

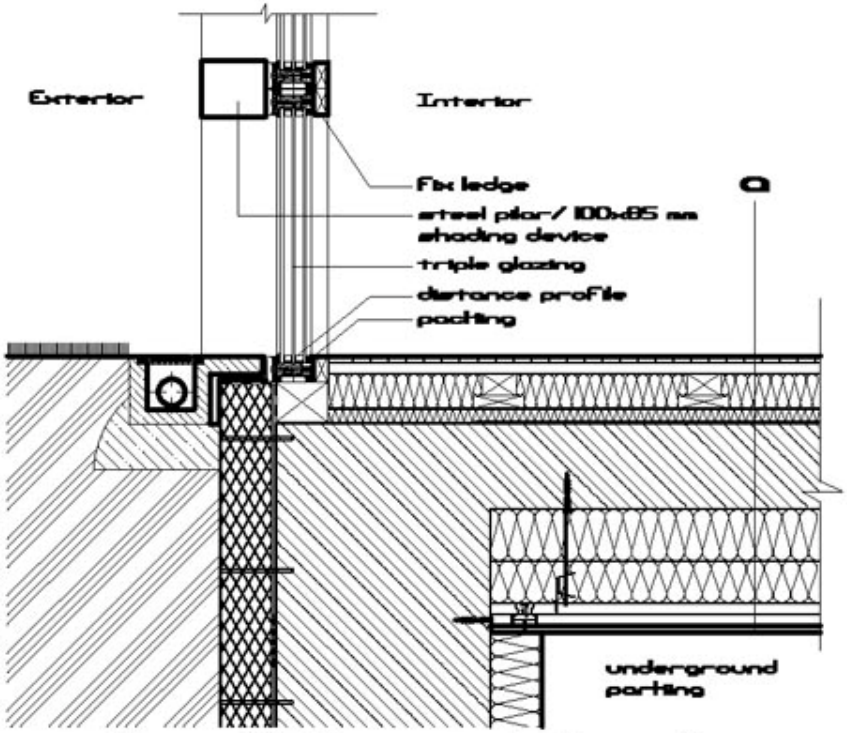
Indoor heat – Qi = 17,8 kWh/(m².a)

Heat profit – Qg = 38,0 kWh/(m².a)

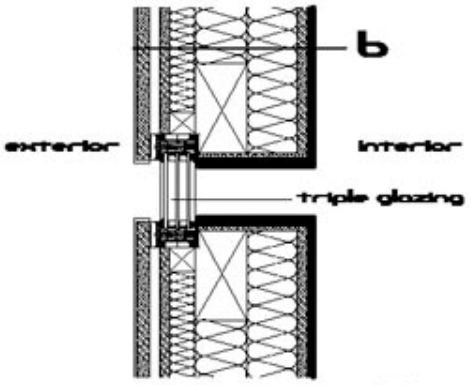
Need of term

Qh = **10,8** kWh/(m².a)

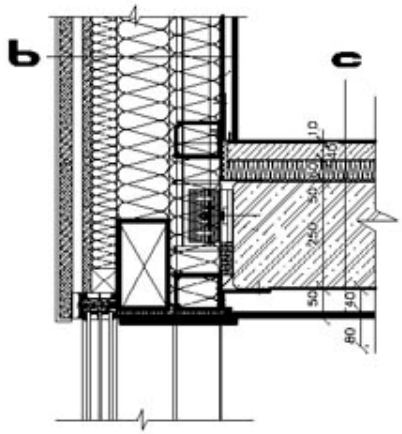
Detail of construction and composition facade



section of the curtain wall



section of wall



composition a

	mm	
1	15	parquete
2	38	chipboard (V100) layer (2x19 mm) glued and screwed
3	0,2	water vapour barrier
4	80	ISOVER thermal insulation
5		separation layer
6	60	ISOVER impact sound insulation board 80
7	5	separating layer (vapour barrier)
8	200	reinforced concrete slab
9	120	ISOVER thermal insulation
10	100	ISOVER thermal insulation
11	54	suspended construction with metal profile
12	15	plaster board – Fire protection board

composition c

	mm	
1	15	parquete
2	38	chipboard (V100) layer (2x19 mm) glued and screwed
3	0,2	water vapour barrier
4	80	ISOVER thermal insulation
5		separation layer
6	60	ISOVER impact sound insulation board 80
7	5	separating layer (vapour barrier)
8	200	reinforced concrete slab
12	15	plaster board – Fire protection board

composition b

	mm	
1	40	timber segment with glass layer on the top
2	24	air separation layer
3	22	chipboard
4	300	ISOVER thermal insulation
5	22	chipboard
6	20	plaster

office

Thank you for your attention

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Music by Wim Mertens – Struggle for Pleasure