TRAFO OFFICE BUILDING Pasarét, Budapest, HUNGARY





The term 'TRAFO' is a hungarian expression, a shortcut to 'electrical generator'.

The former electrical generator house shown here, had been transformed into a so-called 'TRAFO OFFICE BUILDING', as a part of the Akademia Park, an urban mixed-use development project.

The Trafo Office is an unique mixture of an old structure with a contemporary building method, which has become the headquarters of the developer, as an info box, a showroom and project sales office, representing the image of the whole development.

The green values combined with the human comfort is the essence of the project, redefining the Bauhaus philosophy.







B Location





Location B

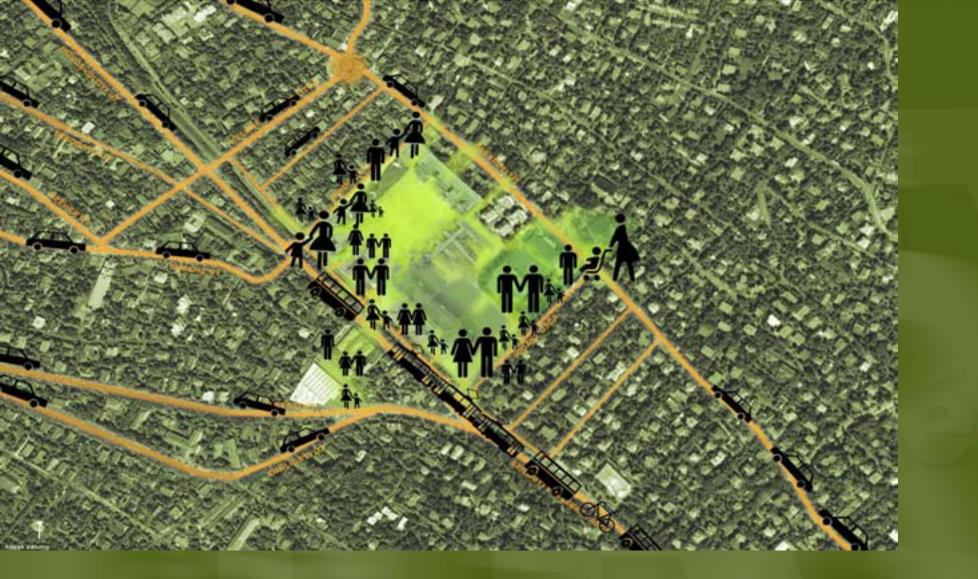




Buda, left site of the Danube

B1 Location: position in the city, accessibility from the transport network sco





B1 Location: human flow is the priority: in and out in a smooth way



a

P.+R. P.+R



B1 Location: bicycle roads and bridle-pathes







Park and Ride Park and Drive reform and rehabilitation of an old army teritory, barrier free and unblocked

primer = adding NeW Values with the respect of the Genius Location

new urban park

Recreation

racianal from market point of views

relaxed and running

Innovation in life style and technology

B1 Location: Activities and the main values of the development

ét

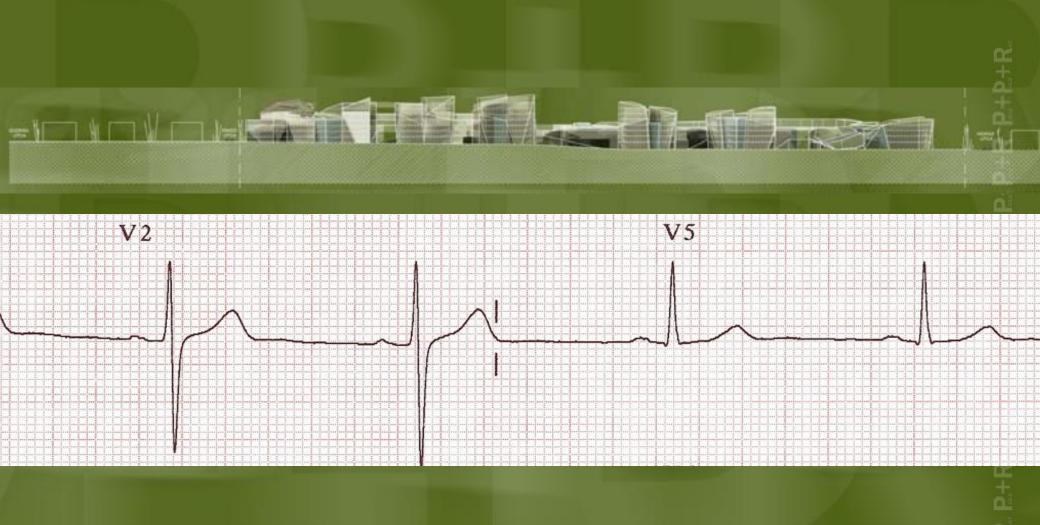






B2 Location the local public and private interest CIRCULATION 100%





B2 Location the local public and private interest DENSITY 1,27















TRADITIONAL HUNGARIAN PLAYING CARDS

B2 Location the local public and private interest 1 year / 12 month / 4 season / 52 week FOUR DIFFERENT CLIMATIC SPACE



BUDA'S "FOOD CHAMBER"



"PARADISE

BEUTY"

FRUIT GARDENS

HORSE BREEDING

TRADITIONAL PORCHES

FINE ARCHITECTURE

ROYAL HUNTING AREA

INNOVATIVE SOLUTIONS/ BAUHAUS

PROTECTION OF THE BUILT AND GREEN HERITAGE

B2 Location

the local public and private interest





AKADÉMIA

Elsődleges vonzáskörzet

Agglomeráció

Elsődleges vonzáskörzet

Másodlagos

Másodlagos vk.

programation based analysis

magas presztízsű zöldövezeti, családi házas és társasházi övezet.

> magas presztízsű zöldövezeti, társasházi övezet,

magas presztízsű hegyvidéki, családi házas és társasházi övezet

B1 Location

market





2 + 2 PARK 15 000 M2

RIDING HALL 8 343 M2

> CATERING AREA 4 289 M2

OFFICE SPACE

82 492 M2

KINDERGARTEN 2 645 M2

SPORT 15 647 M2 MARKET 1 500 M2

SPA

2770 M2

SHOPS

PARKING 80 860 M2

ALC: NO.

RETIREMENT HOMES, PARK OF GENERATIONS 5 290 M2

B1 LOCATION

D3 the designed surroundings and environment



sco













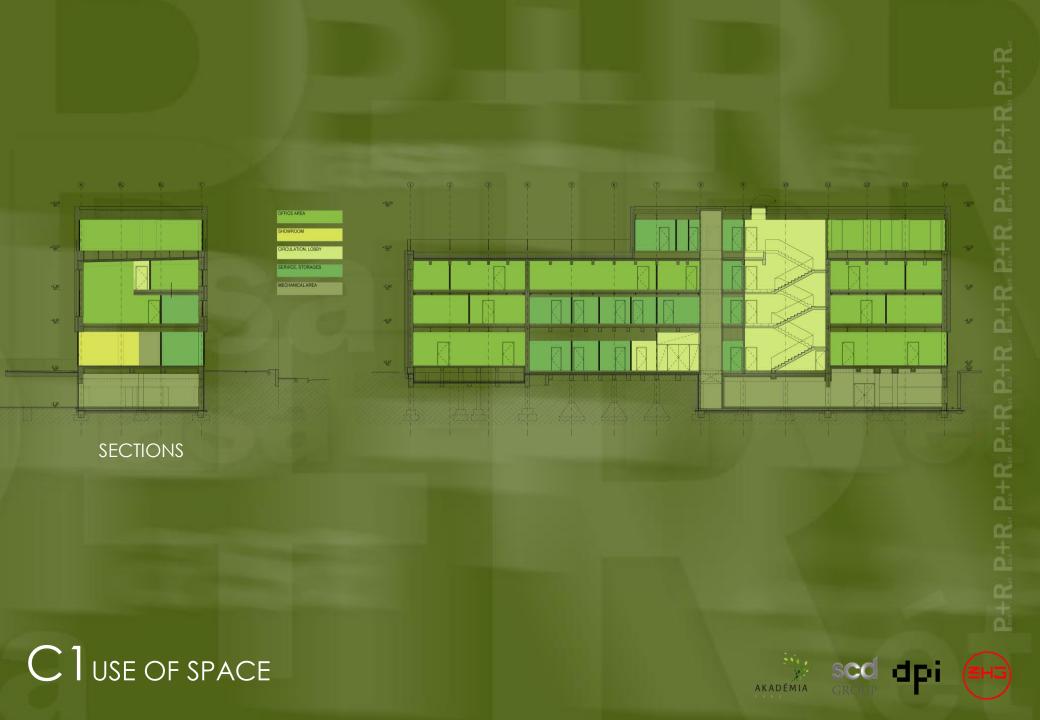


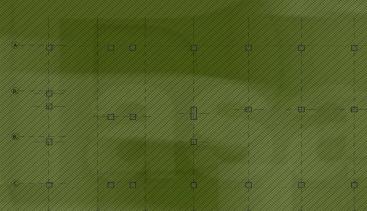


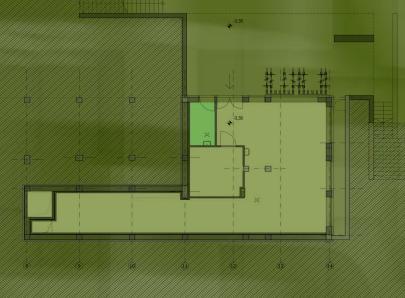












BASEMENT









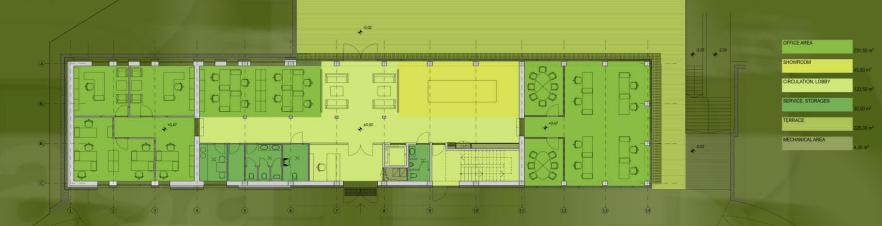
C1USE OF SPACE



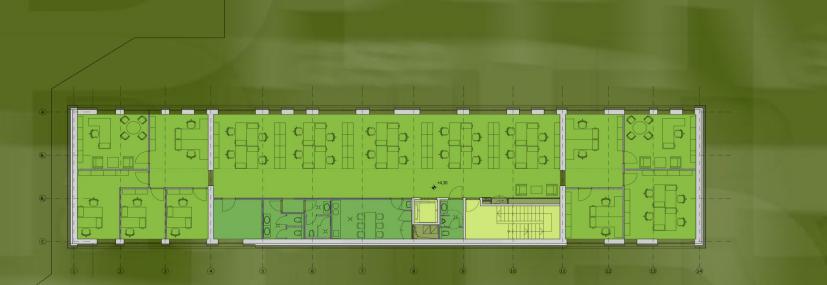








• •^{-3,35}



FIRST FLOOR

C1USE OF SPACE

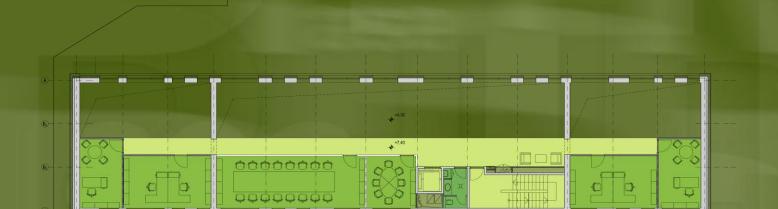


CIRCULATION, LOBBY

MECHANICAL AREA

AKADÉMIA





SECOND FLOOR

C1USE OF SPACE



CIRCULATION, LOBBY

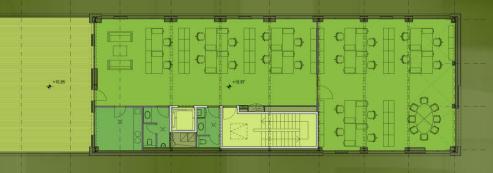
MECHANICAL AREA

AKADÉMIA



C1USE OF SPACE





THIRD FLOOR

(B1)-

(B₂)-



CIRCULATION, LOBB

MECHANICAL AREA





























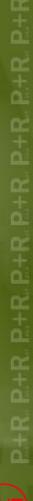
C2 USE OF SPACE - VISUALISATION













C2 USE OF SPACE - VISUALISATION

















C2 USE OF SPACE - VISUALISATION





C2 use of space - visualisation











C2 photos of the construction period





C2 photos of the construction period























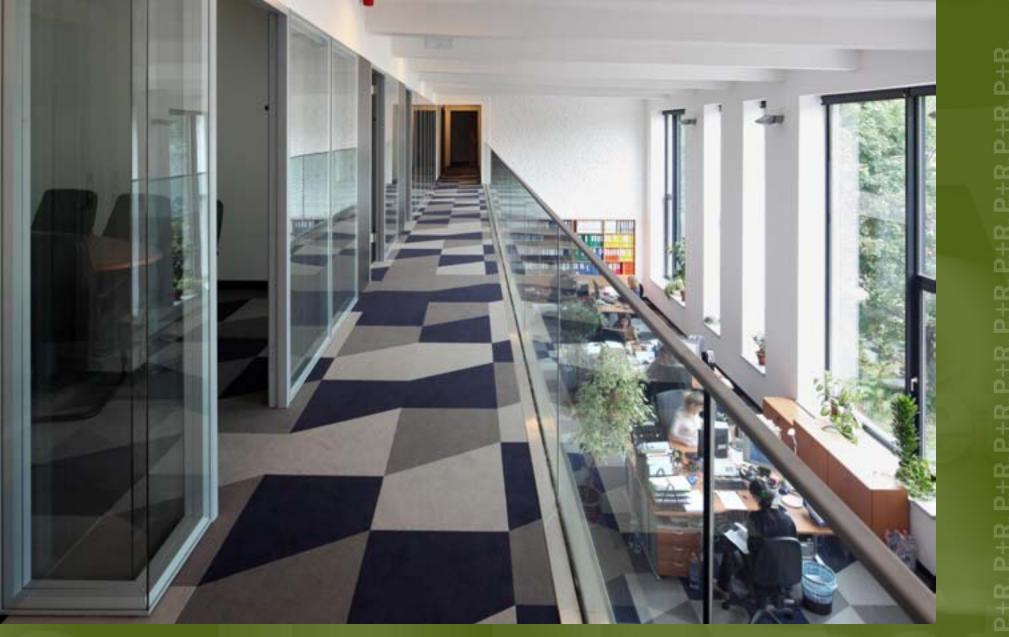














































Sectioning as the old regulations

К-НТ

Sectioning according to the new regulations

D2 modification of the zoning plan and planning restrictions













XXI. century **innovative** gardens

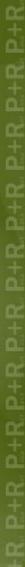
























new **technologies** Green efficient, economic solutions

Green thinking

The building is a multi-level office building.

At designing mechanical systems, the followings were the baseline:

- cheap and easy maintenance
- reduction of environmental footprint
- low emitting system installation
- -using innovative systems

These point were equally important.

E2 the use of innovative technologies and methods







focus

- passive protection Heat protection, shade protections heat traps
- energy consumption
 Fossil and renevable energy usage
- energy sharing Decentralized or centralized, together or seperate, we can connect to the system to the completed development
- waters rainwater
- inner building technical solutions
 Attachment according to the
 tempreture of the used material.
 Radiant heating-cooling system

E1 human comfort of the building





Ground protection water

Waste Sound, management vibration

E3 energy efficiency and eco-friendly measures

Landscape protection

air

URBAN DEVELOPMENT

SCD Group	developer, landscape development concept Peter Somfalvi ,Pál Dános, Szabolcs Reisz urban plannings, Zoneing plan dr. Nagy Béla Masterplan, program of the developments, urban and architectural disposition Judit Z. Halmagyi, Tibor Tardos architectural visualization Tamas Pinter, Peter Kovacs, Tamas Krener public space design, character study, visualization Barbara Szolossy, Zsolt Pyka, Eva Laszlo landscape design and environement development Gabor Szabo
Műhely	
ZHJ	
Dpi design	
VTCS	
Tér-Team	
SMG-Sisu	energetics, renewable energy and sustaniability,system modelling Gabor Szijgyarto
Klimol	Imre Molnar
Ecorys	market analisys prognostization, rogram development
Vibrocomp	environmental protection
Közlekdés Kft.	transportation expert

ELECTRICAL GENERATOR HOUSE – TRAFO OFFICE BUILDING SCD Group + ZHJ + Dpi design + Tardos Desing + Körös-Consult + System-Steel

SCD Group	developer, landscape development concept
	Peter Somfalvi ,Pál Dános, Szabolcs Reisz, Emese Horváth
ZHJ	architectural disposition
	Judit Z. Halmagyi
Dpi design	architectural visualization
	Tamas Pinter, Peter Kovacs, Tamas Krener
Kőrös-Consult	energetical planning, renewable, sustainable energetics
	Balázs Nyári, Péter Gáspár
System-Steel	structural engineering
Garten studio	landscape architecture

TEAM



