iNFLUX

Brain drain is the emigration of able-bodied, highly educated individuals in search of better paid jobs or better conditions in general, causing the places these individuals leave to lose future skilled workers. However, this problem starts much earlier, caused by substandard conditions provided for students, starting with the environment of student dormitories and the lack of space provided for the functioning of students outside higher education institutions. Influx provides socially sustainable spaces that will motivate students to achieve greater success in college and later in professional life - which would result as much needed encouragement for talented individuals to reconsider leaving Serbia.

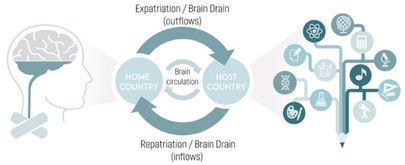
LOCATION | Block 17, New Belgrade, Belgrade, Serbia

urban context

CHALLENGE | Brain drain

PUSH FACTORS
-substandard work conditions
-no job security after studies
-no opportunity for prosperity
-inadequate benefits

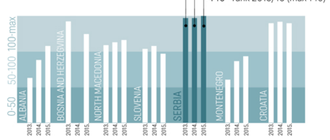
PULL FACTORS
-recognition
-advancement opportunity
-adequate support
-increase in quality of life
-better career oppportunities



Countries with biggest brain drain (2018)

1 = all talented individuals leaving their country
7 = talented individuals staying at their country

Western Balkan countries BRAIN DRAIN 2013-2015



CONCEPT | Social sustainability, QOL

rethinking the concept of neighbourhood

individual (private) housing - increased sense of neighbour community
collective housing - decreased sense of neighbour community
...
THE GOAL: achieve the comfort of individual housing inside high-rise building

rethinking the concept of labor

It's a fact that the working space considered as office is becoming our past. more or less, our workspace depends of computer - there is no boundary between working and housing anymore. Thereby, designing of spaces should be in accordance with requests of new working modes, which result in flexibility to user needs.

Criteria for achieving social sustainability

***What we should aspire is to fill out basic needs of space occupants, and that was achieved as the output of design process which approached detailed analysis of behaviour of focus social group.

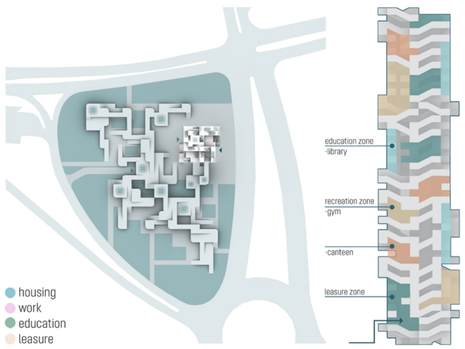
WELLBEING

social wellbeing ---------- shared spaces
physical wellbeing ------- recreation spaces
psychological wellbeing - individual spaces

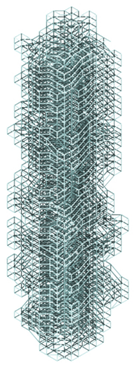
STRUCTURE

The structure consists out of individual, shared and common spaces wich are connected with stairs.

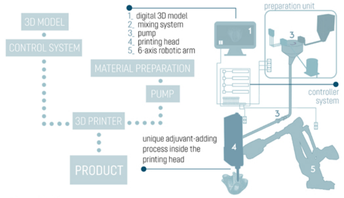
The aim was to distribute the same concept that exists within the building itself through the outside space. Manipulating the terrain and raising the paths opens the possibility of forming specific spaces such as amphitheaters, recreation and leisure spaces.



TECHNOLOGY

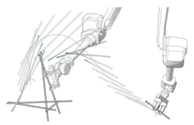


The construction technology is solved with automation system of the steel structure based on a robotic crane. The use of this system reduces risk factors in human labor, reduces construction costs and shortens construction time. Concrete facade, inspired by urban context, is made of 3D printed panels with usage of limestone and calcined clay as a cement substitute for the development of sustainable printable materials.



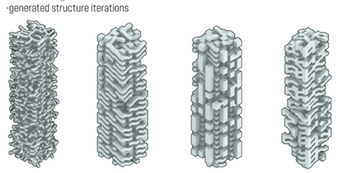
Construction process

-robotic process automation



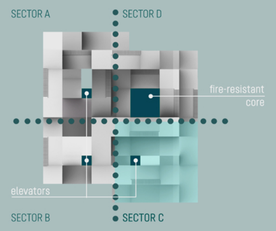
Formfinding

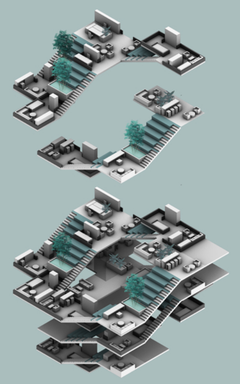
-generated structure iterations



Sectors

-Position of vertical communications

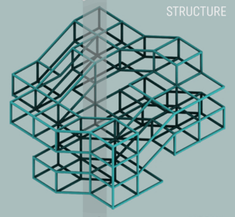




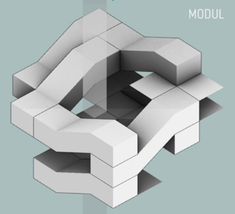
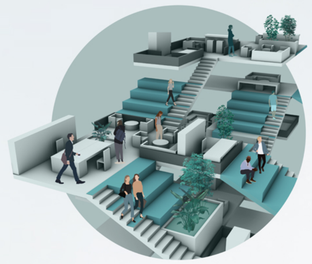
SECTOR C ANALYSIS

FACADE

STRUCTURE



MODUL



The concept of architectural form was derived from local urban context of New Belgrade, that was designed as modernist city (as the new part of post-war belgrade), encouraging high functionality, flexibility, and strong, pure geometric forms materialised in pure concrete.