

THEME: INTEGRABILITY OF SUSTAINABILITY

Scale:
Environment within building and building within environment
Goal:
Sustainable material, energy and space use

INCREASING MOBILITY

Mobility issue was considered from three points of view: Mobility inside the building, Mobility around the building, Sustainability of mobility. Mobility inside the building was achieved by division of the space available into two zones: fast zone and slow zone. Fast zone (Yellow Line) is on the first floor, where created a bicycle and pedestrian line, which increase accessibility of the students to the different parts of the building and abandoned park nearby. Slow zones are second and third floor with lower traffic of students. Mobility around the building increased by linkage of the Yellow line with existing communication lines around city. Sustainability

ity of the Yellow Line can be achieved by installation into floor energy production facilities: the more students walk the more energy produced.

CLOSING THE LOOPS

As two main points of sustainability Trias Energetica and Cradle to cradle approaches were chosen; what means reduction of consumption, use renewable sources as much as possible and use efficiently what exists on-site and put what is used back to the system. Before closing the loops we were watching at all material and energy in- and out-flow, and interventions which can add value to the existing situation: what we have on-site and how to increase value; therefore, a number of multi-functional interventions were chosen. Most important issue was to identify all the flows of materials coming out and in the system of existing building, also as energy flows, trays their directions, harvest, re-cycle, reuse or treat the flow and send it back to the system. The overall system of material end energy flow in the

space perfectly integratable into the recreational zone around the building not reducing, but adding value to the environment.

MATERIAL SUSTAINABILITY

From point of view of material use, three strategies were used: reuse existing materials and styles as much as possible, use renewable sources and decrease energy use by means of material use. To reduce energy use for heating and lighting, and reduce material use (mainly insulation) 'working-boxes' of different sizes were proposed. Boxes are made of wood, which going to be replanted and grown on-site.

