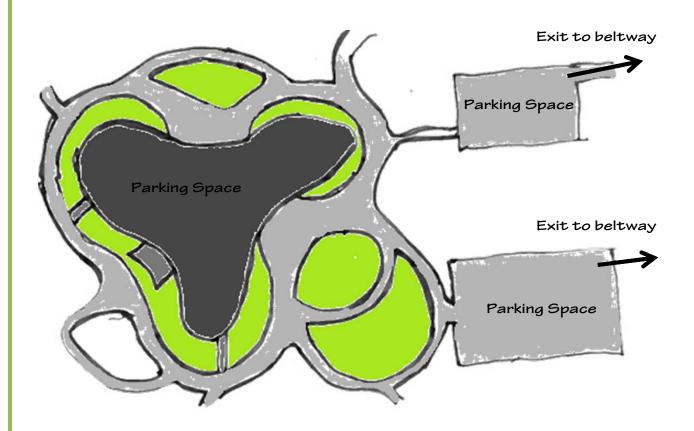
Christiaan Huygens College



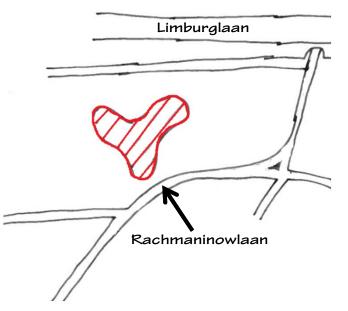
RELATING TO THE ENVIRONMENT



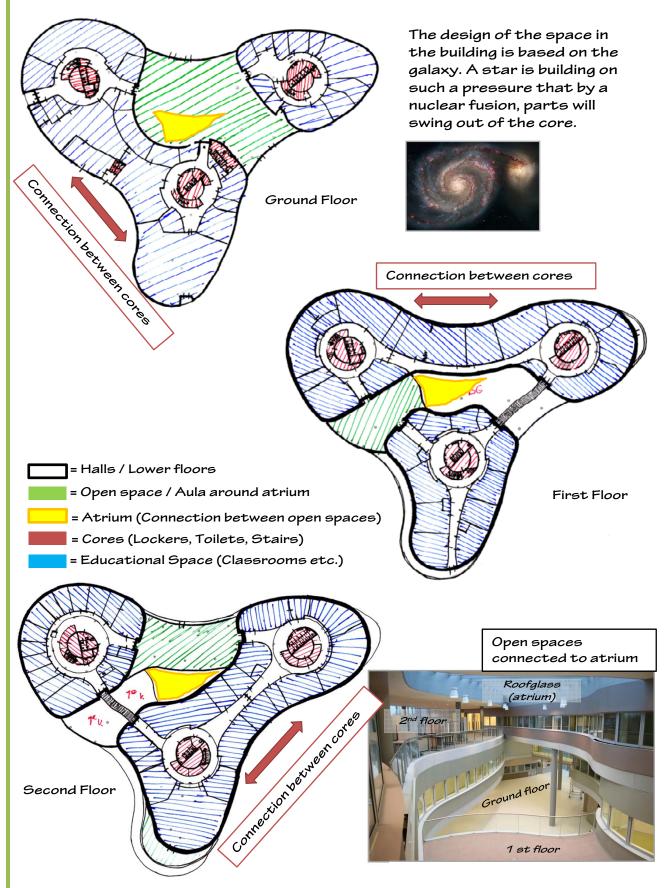
Design is integrated with the existing surroundings

- 1. Bicycle road via the long lane of trees
- 2. Car exit next to the beltway
- 3. Green barrier between the old buildings in the south
- 4. Extra produced energy is given to surrounding buildings





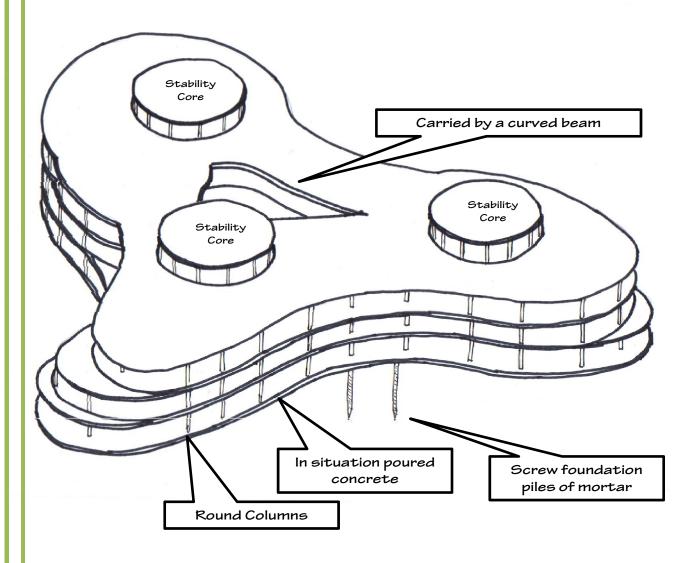
DEFINING SPACE



STRENGTH & STABILITY

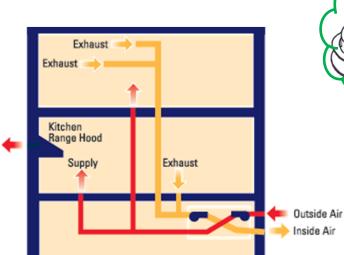
The building is built on screw piles of mortar with a in situation poured concrete ground floor. The entire construction is made of in situation poured concrete and consists mainly of solid floors carried by free placed colums and three stability cores.

The auditorium of the building is completely free of colums and the light trough the roof of glass can deeply penetrate the building.



COMFORT

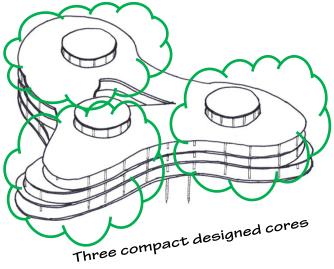
The building is compact of volume, so the possibility of overheating in the summer and heat loss in the winter is very small.



Balanced ventilation is used in the entire building

High quality isolated windows allow the interior rooms to catch a lot of light, without seeing the building getting overheated.

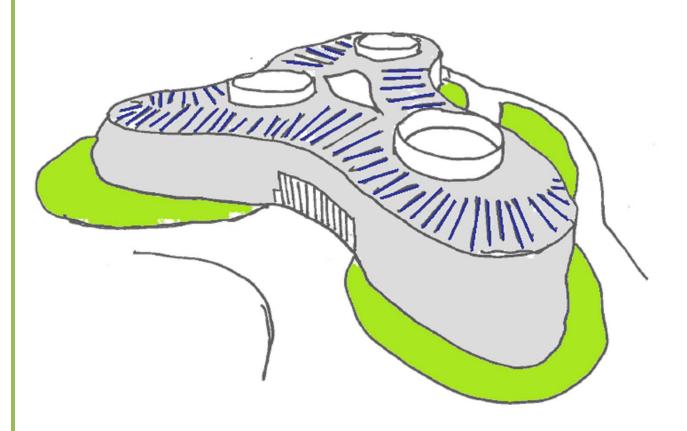




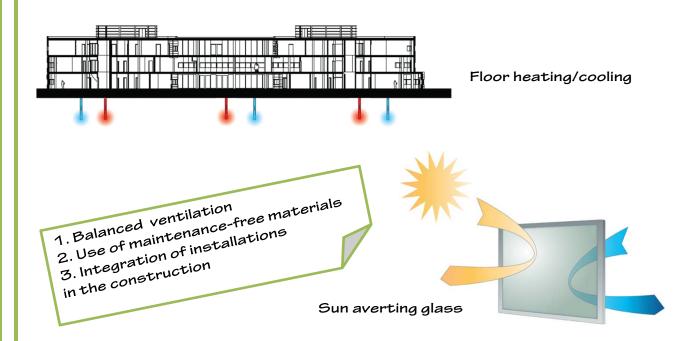


The atrium provides extra daylight and it connects all the floors, giving it an open and enjoyable work environment

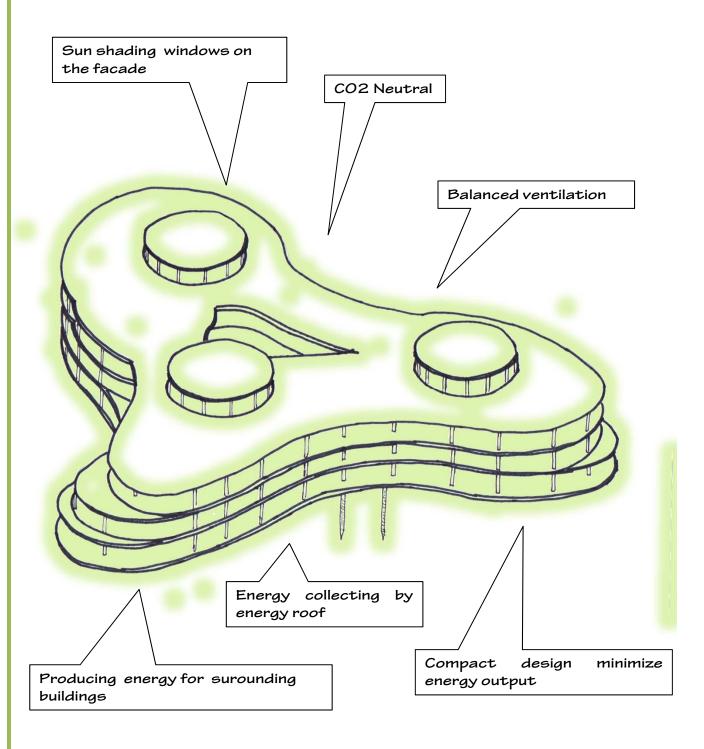
EFFICIENT & EFFECTIVE USE OF MATERIAL



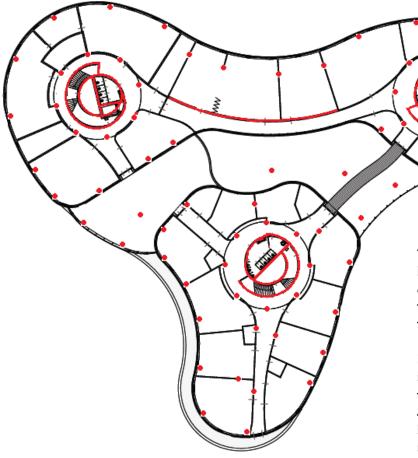
Energy roof, providing the school for sufficient electricity.



EFFICIENT & EFFECTIVE USE OF ENERGY



FLEXIBILITY & ADAPTABILITY



This flexibility allows the building to adapt to each new situation, so that it can change to the required demands.

In this building the focus is not aimed on the flexibility. The colums are placed all over the building and the space is separated in round forms.

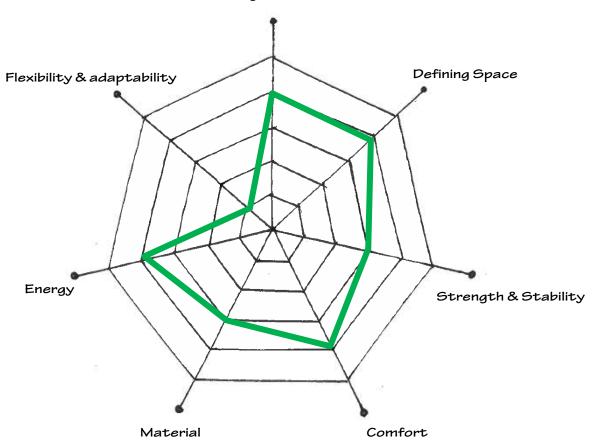
This makes it hard to adapt the building to a change of function.



The positive point of the flexibility is the application of lightweight partition walls and the column free aula in the centre of the building. The makes it possible to change the form of the rooms, as far as possible because of the column structure.

SPIDERDIAGRAM

Relating to environment



Question:

Most of the energy is collected by the energy roof. Another way of collecting energy is by wind or water, but none of those two have been applied in this project. In any stage of the project, has there been an idea to implement another way of collecting energy?