

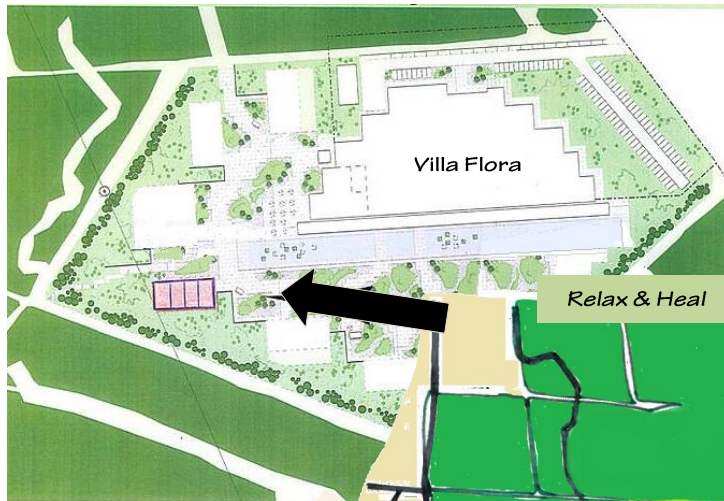
# Villa Flora



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# RELATING TO THE ENVIRONMENT



## Floriade 2012

- Relax & Heal
- Green Engine
- Education & Innovation
- Environment
- World Show Stage



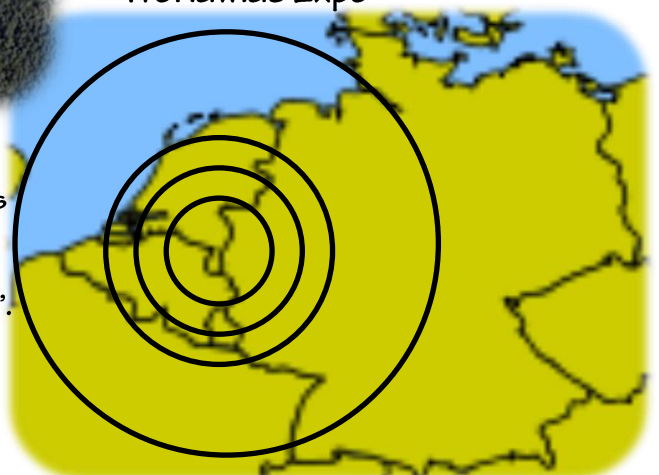
## Floriade 2012 Terrein

- Innovative work landscap
- Working & recreation
- Agrilogistical Environment
- Worldwide Expo

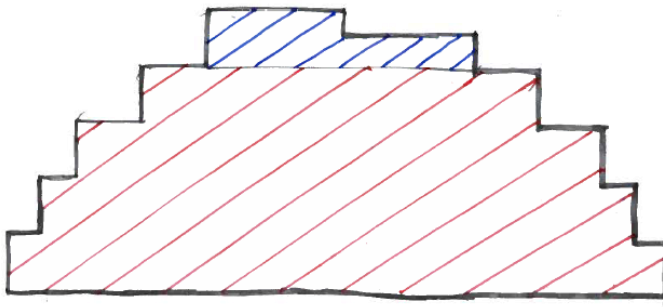
Straal 150 KM → 36+ mln. Inwoners



Venlo:  
Centrale plek, met groot 'achterland'.

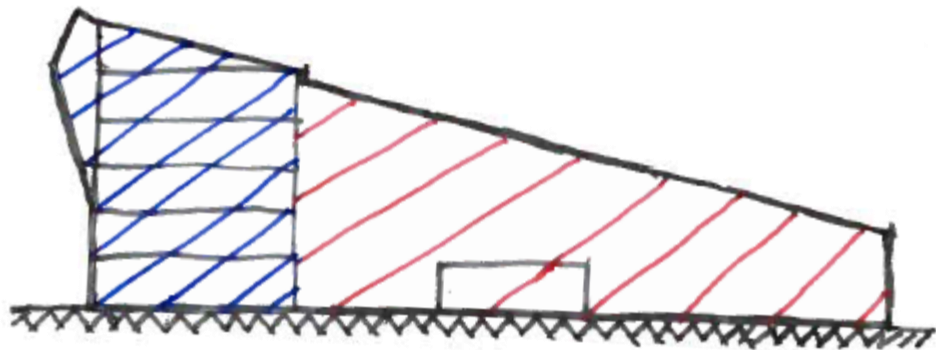
Nabij knooppunt van snelwegen



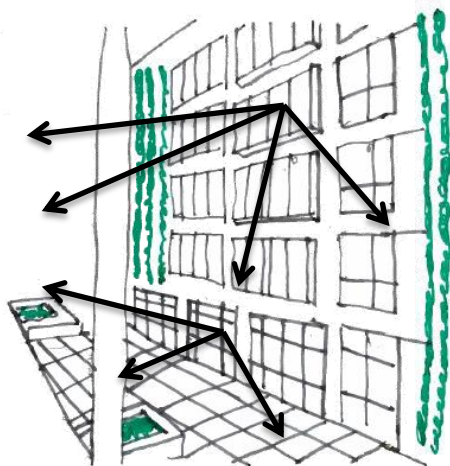
# DEFINING SPACE



 = expositie  
 = kantoor



As seen in the plan layout, there is a strict separation between the offices and the expedition. Still the offices are connected to the expedition and they can experience a stunning view of nature; working in an inspiring environment. Multiple rest places are situated at the glass wall, providing a place to have lunch while at the same time enjoying the green.



Glass wall - the border between the offices and the expedition. Excellent overview of the expedition from the offices

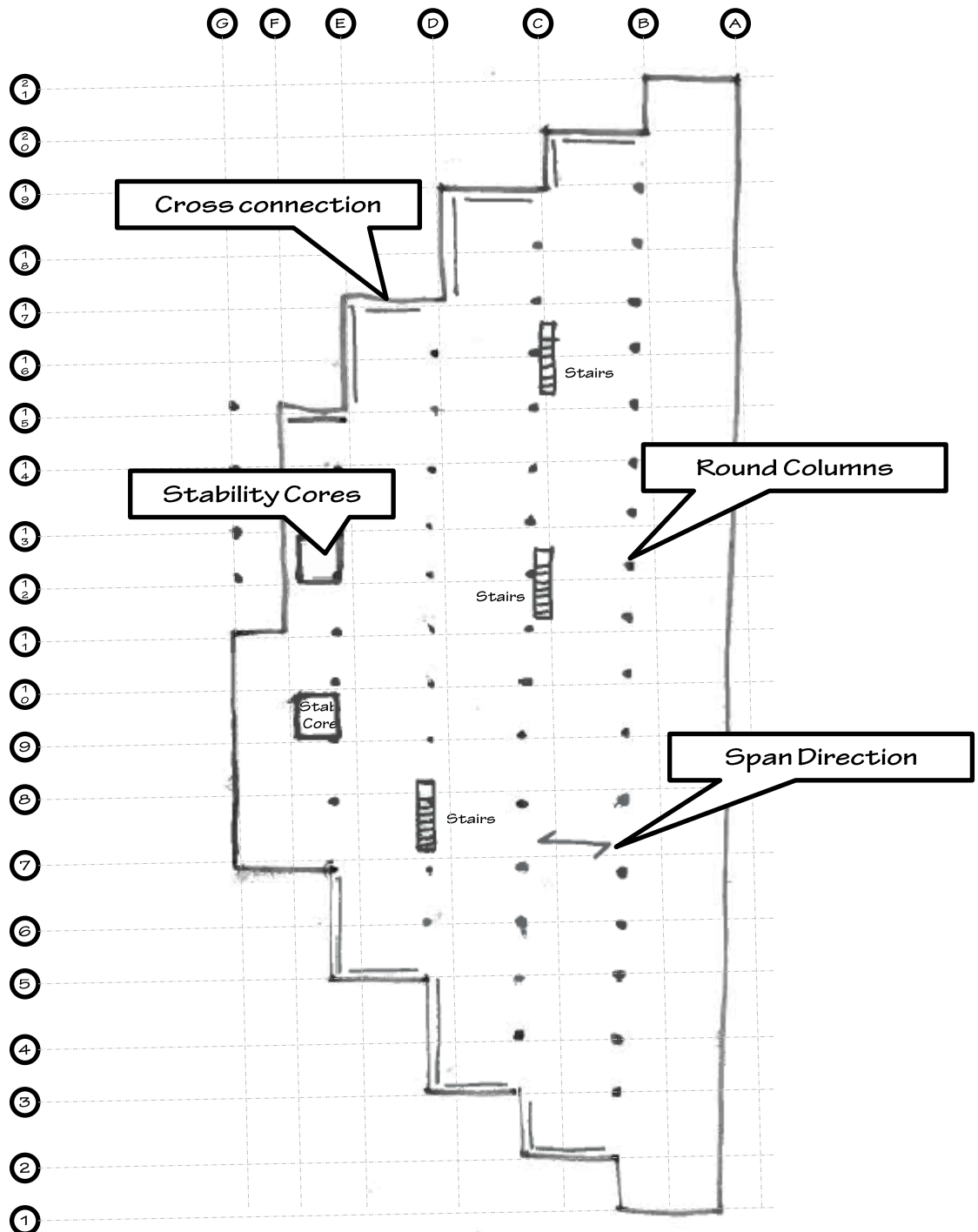


Impression of the view from the offices



# STRENGTH & STABILITY

As shown in the picture below, the stability and strength is primarily situated in the “office part” of the building. All the stability cores are centered there and the span width is also smaller there. Obviously, this is because of the higher load, due all the offices and floors.



# COMFORT



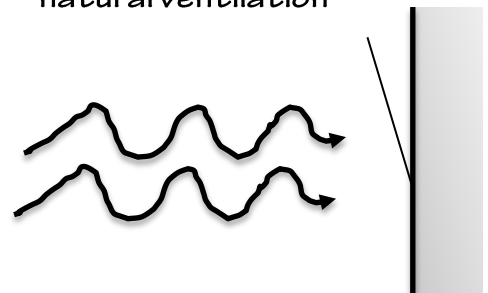
Working in a very special indoor climate: Plants are used to filter the CO2 from the air, providing employees with fresh air

Working in an inspiring work environment combined with a unforgettable view



All workspaces have an automatic controlled light shading system

Employees are able to open the windows, to allow natural ventilation



Four different climates, so that everyone from the world will feel comfortable

# EFFICIENT & EFFECTIVE USE OF MATERIAL

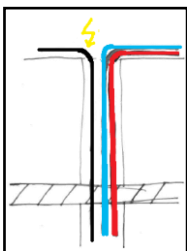


Detachable prefab floor elements on a concrete skeleton with prestressed concrete beams. Fully reusable.



Vacuum collection and transport of toilet waste, no water pollution.

Transport by water, reduction of transport and all concrete material arrives at the same time

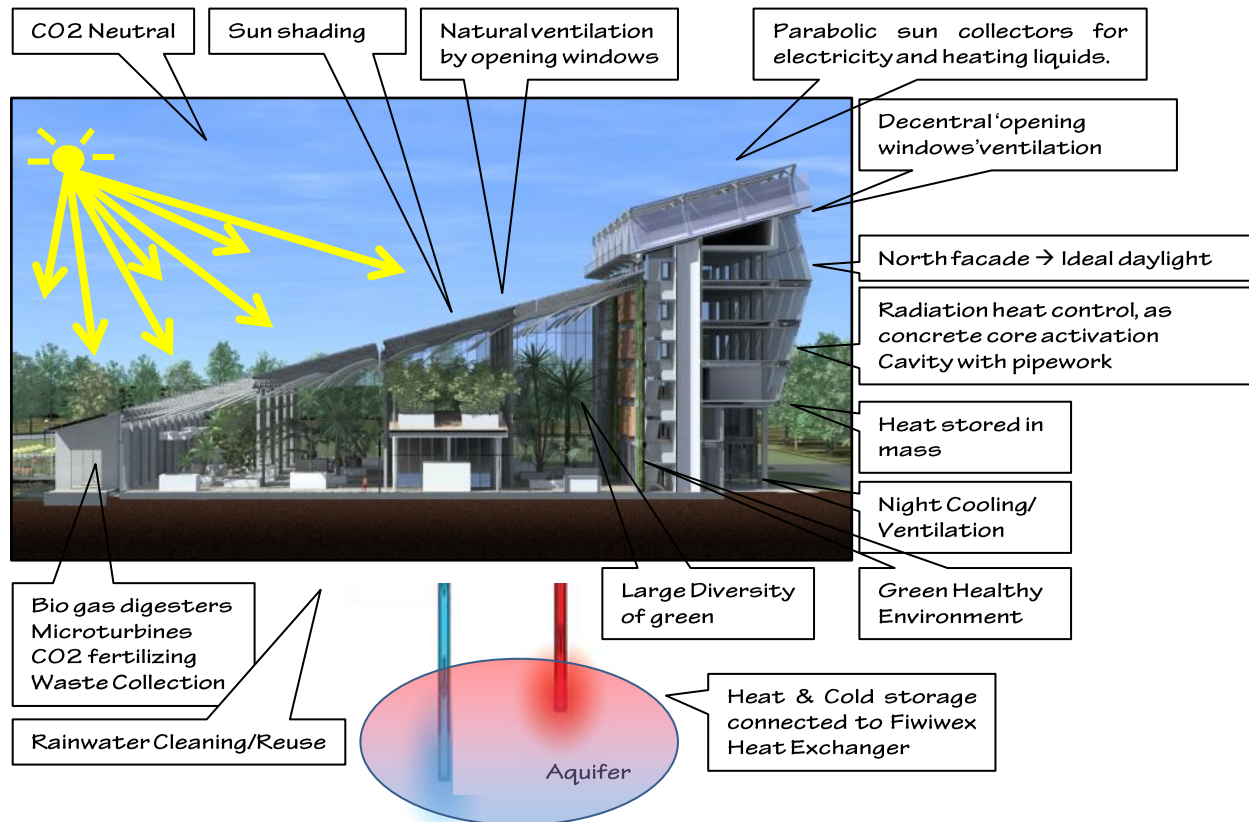


Innovative columns with space for installations.

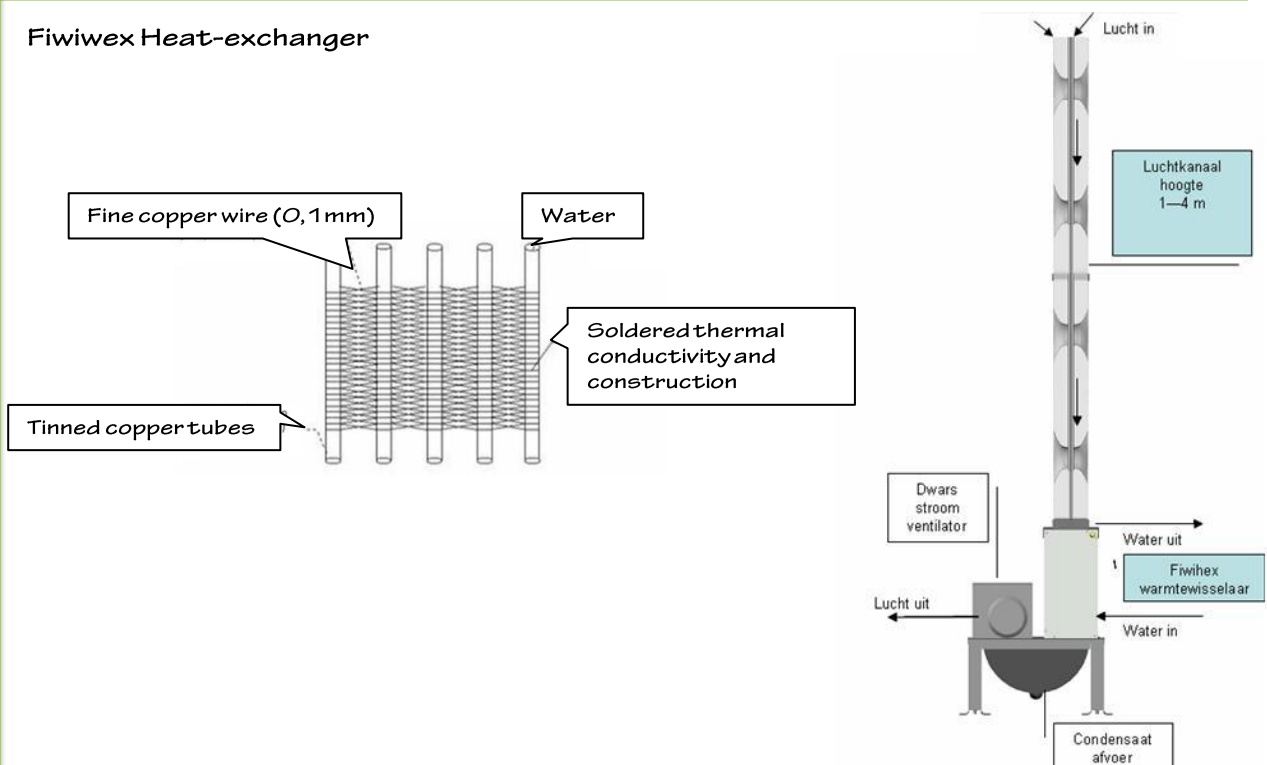
Cradle to Cradle applied to the Floriade 2012 Venlo and worked out in the Venlo principles. These are applied on Villa Flora.

- We are native to our place
- Our waste equals food
- Sun is our income
- Our air, soil and water are healthy
- We design enjoyment for all generations
- Our goal is a delightfully diverse, safe, healthy and just world with clean air, water, soil and power - economically and elegantly enjoyed

# EFFICIENT & EFFECTIVE USE OF ENERGY



Fiwiwex Heat-exchanger

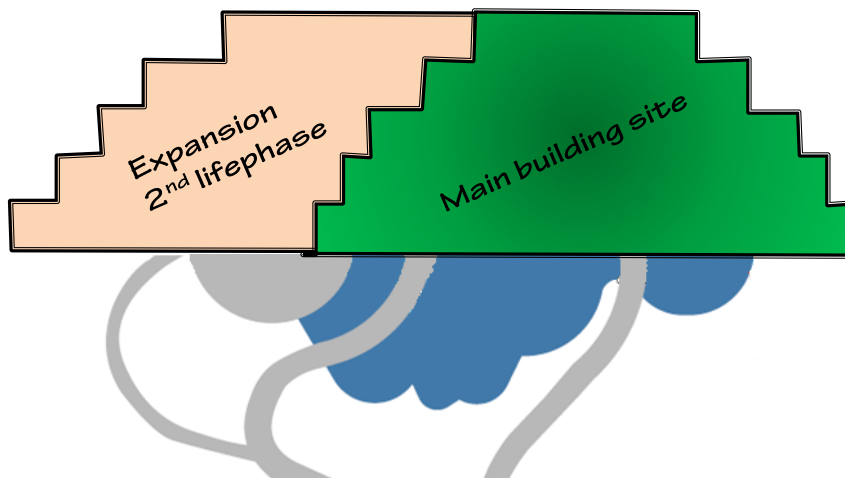




# FLEXIBILITY & ADAPTABILITY



A new detachable and re-usable construction system, which allows a fast building speed. This system allows easy integration possibilities for all technical facilities.



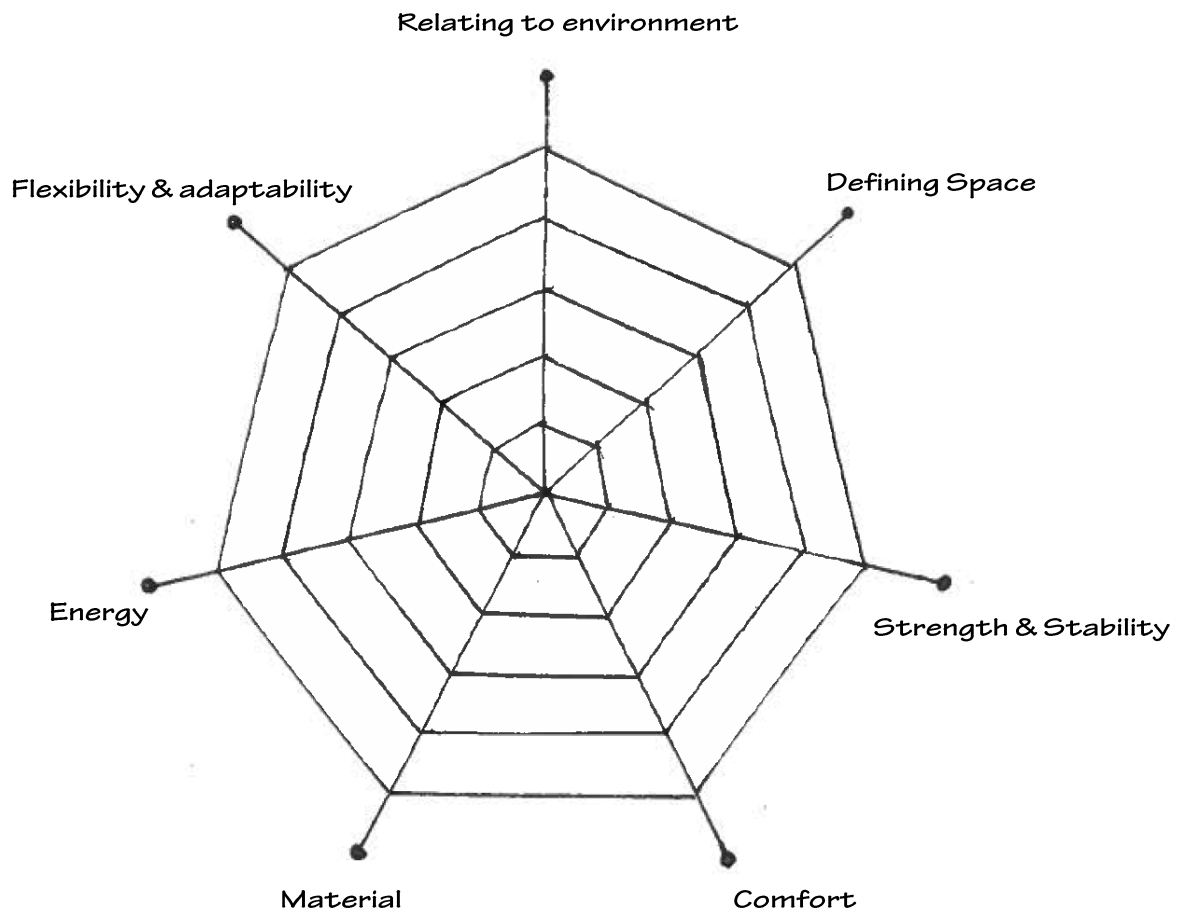
This flexibility allows the building to adapt to each new situation, so that it can change to the required demands.



New developed floors, which have a span width of 18 meter. The installation space underneath the floors is accessible at all times. This make the floor optimal for a flexible arrangement.



# SPIDERDIAGRAM



Question:

*Does there arise a surplus of heat by the enormous glass facades directed to the south in the greenhouse and how will this be cooled in summertime?*