

LAB 942



Welcome to LAB 942!

'Viewed from Anna's Tuin & Ruigte, they form a pleasing succession: the romantic, pastoral farm with the Café Restaurant Polder, the sober, urban university building ASP 904, and LAB 942 set precisely between them. The façade of LAB 942 makes you wonder what surprises the building has to offer. The rational structure of the building, with its regular, orthogonal system of floors and columns, is enriched by the varied content used to fill in the grid: glass, timber, 3D printed structures, greenery and steel. Experimental activities in the ground floor labs draw the attention of passers-by. Drones carry out test flights in the drone cage, which extends over several floors close to the entrance to the building. The diagonal line of sight running through the building from the entrance plaza to the more enclosed mid-zone tempts viewers to explore what lies within. The slightly elevated ground floor allows students to enjoy the sunshine, protected by the set-back entrance façade.

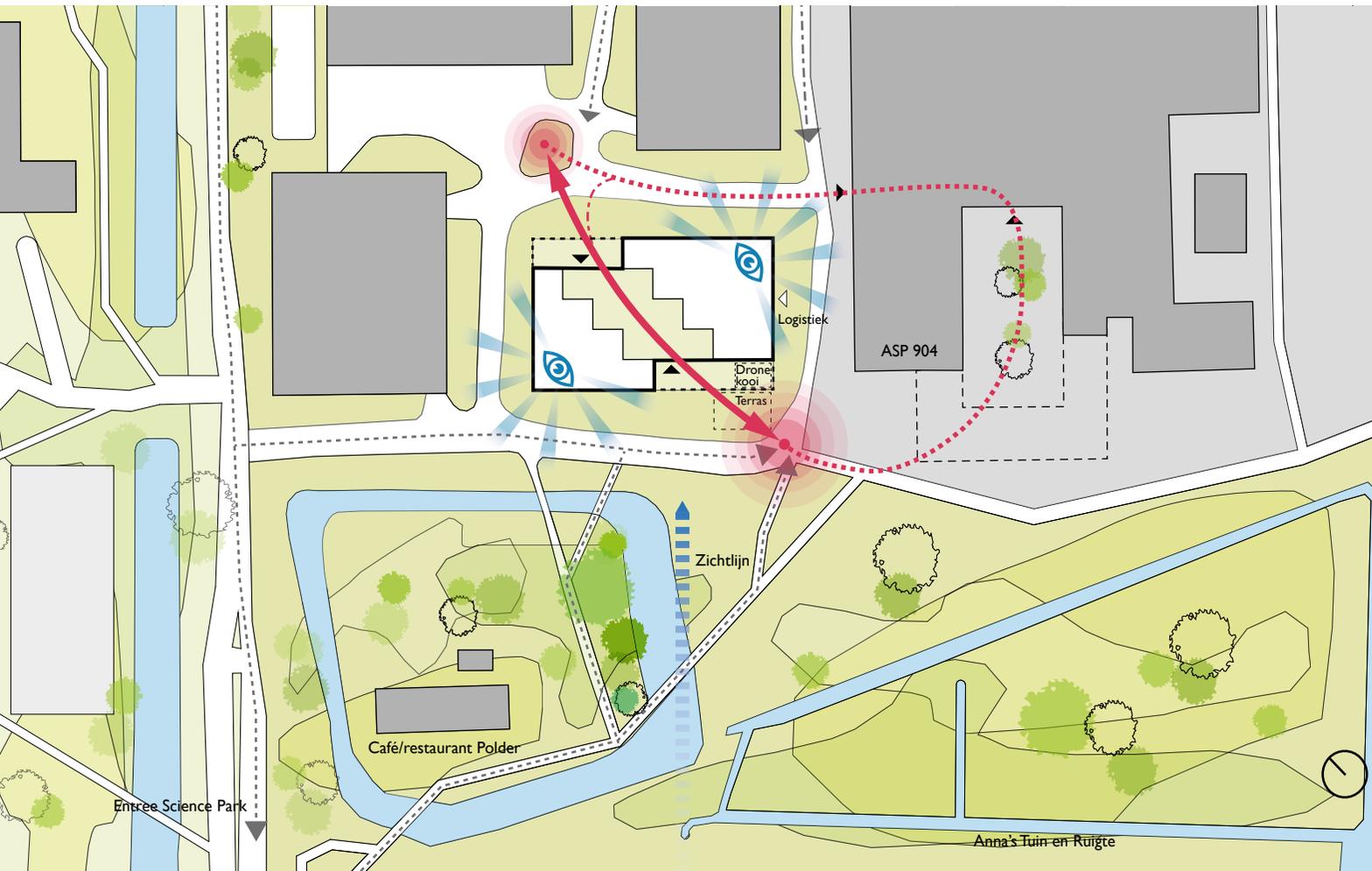
Once inside, the building creates a stunning impression. Daylight penetrates deep into the building from above and flows through an atrium-like space characterised by floors crossing, intersecting or protruding from the different storeys. Still more impressive are the varied activities and ambiances that are all around. The tall spaces on the ground floor reveal robotics laboratories and co-creation spaces, while a lecture is in progress on the theatre staircase leading to the first floor. Conference participants chat on the first floor during a break in their programme. Several trees reach up to the third floor, where start-up entrepreneurs share their experiences with the practical application of the latest innovations with their inventors. Behind a robust glass wall, the fastest servers available achieve the ultimate in performance, as these digital powerhouses provide the researchers with a secure environment for their work. Up in the apex of the building, a cutting edge drones silently clocks up its flying hours as it identifies options moving floor spaces, while a pair of robot arms climb the steel structure to carry out initial modifications. The LAB 942 app shows users where a workspace is available, whether it's a quiet spot for concentration or an open space for brainstorming with colleagues.

With its mix of workplaces, storage rooms, a library, laboratories, clubs and offices, this is much more than just a "science block", as it seems like anything is possible here.'

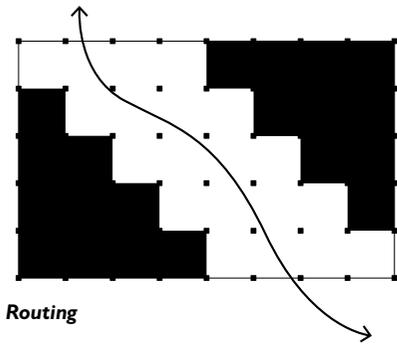


CONTEXT

LAB 942 is an accessible and transparent building where staff, students and the business community can all feel at home. It is a lively, inspirational and supportive environment that brings together teaching, research and value creation in the information sciences. With its innovative character, its scientific relevance and its pioneering research, LAB 942 provides a home for rising talent and merits a unique design. It is a challenge and a delight to work on such a project.

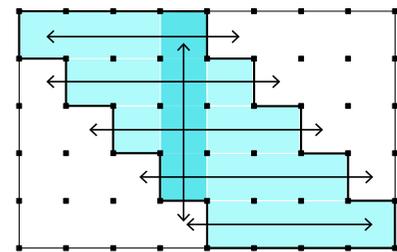


PRINCIPLES



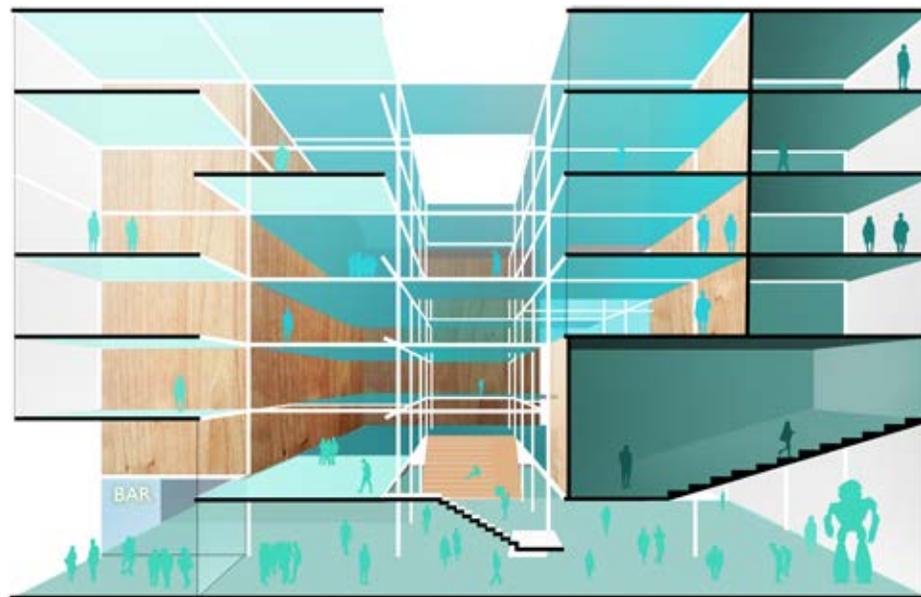
Flexibility is a crucial aspect of a sustainable, future-proof building. It is highly likely that many major and minor functional and organisational changes will take place within the university during the anticipated lifespan of LAB 942, impacting on the spatial requirements. A 'shelving rack' principle has been applied to the design of LAB 942, in the form of a literal 'framework' that can easily be adapted and modified without requiring major investments.

The various landscapes – Concentration, Meeting and Discovery – will symbolise both the identity of the users and the need for multiple forms of interaction.

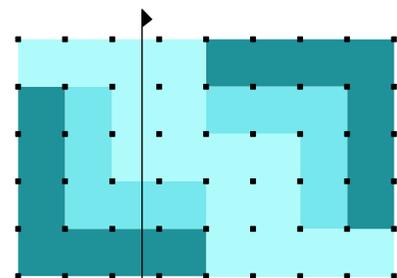


Stellingkast principe

- vast
- flexibel



Schematische doorsnede programma

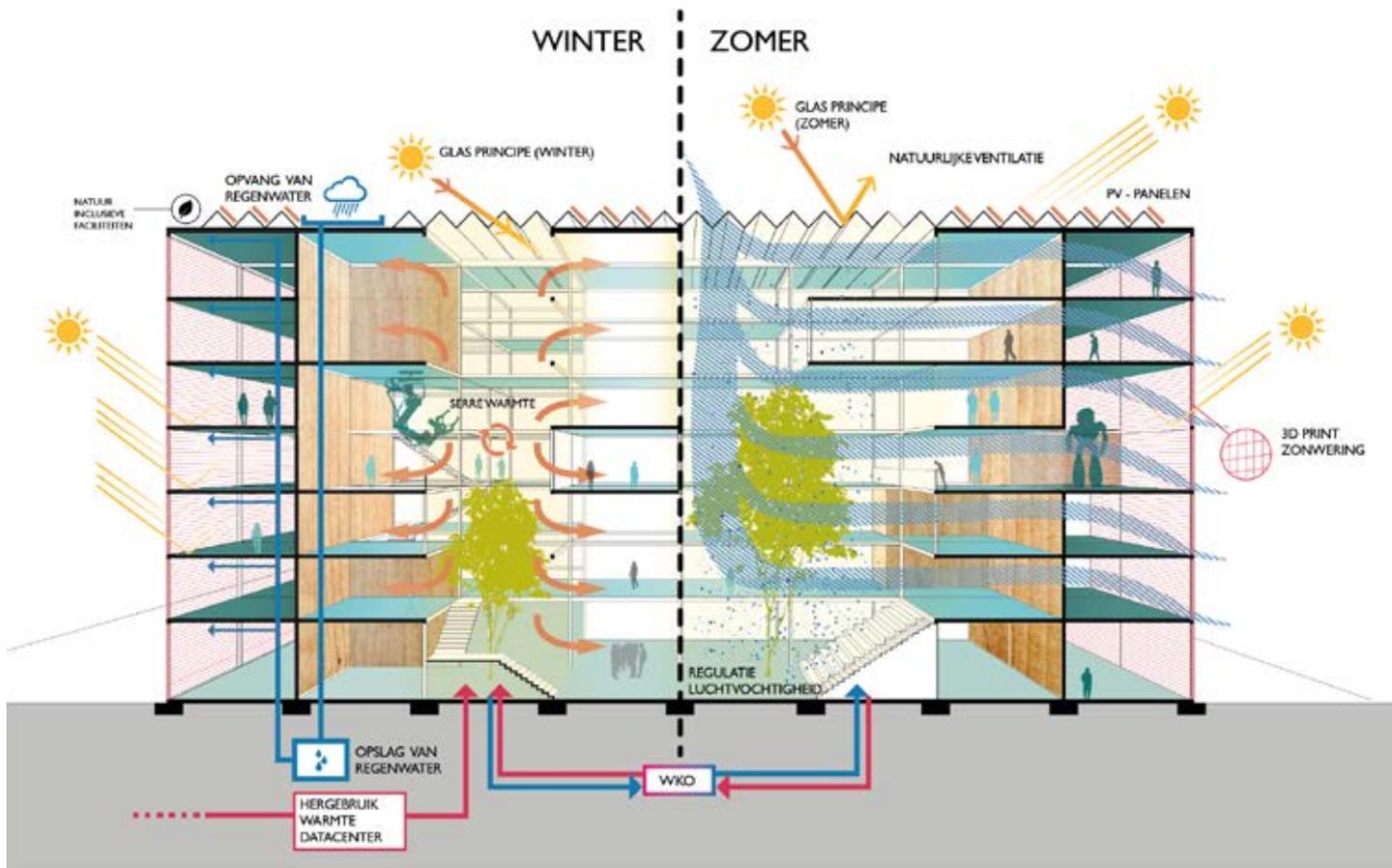


- concentreren
- ontmoeten
- ontdekken

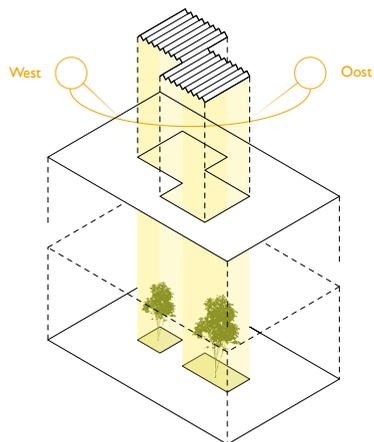
Principe schemas

SUSTAINABLE

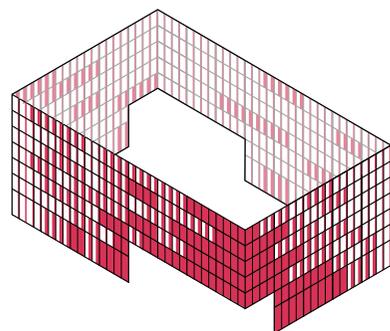
Sustainability results from the optimal integration of all aspects of design, construction and installation. The aim is to deliver maximal value for the user, with minimal use of raw materials (including fossil fuels) and the avoidance of pollution (from waste and the contamination of the internal and external environment). This requires a balance between the various aspects of sustainability.



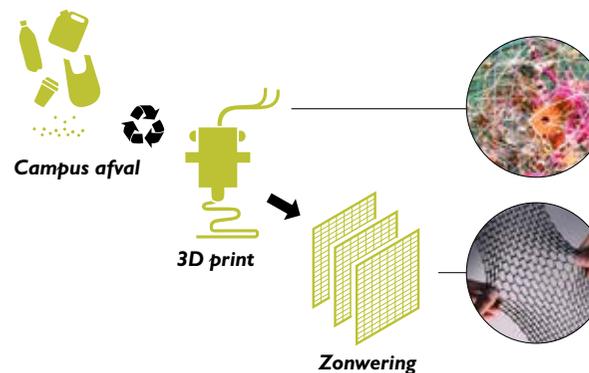
Duurzaamheidsconcept



Daglichttoetreding



Concept zonwering



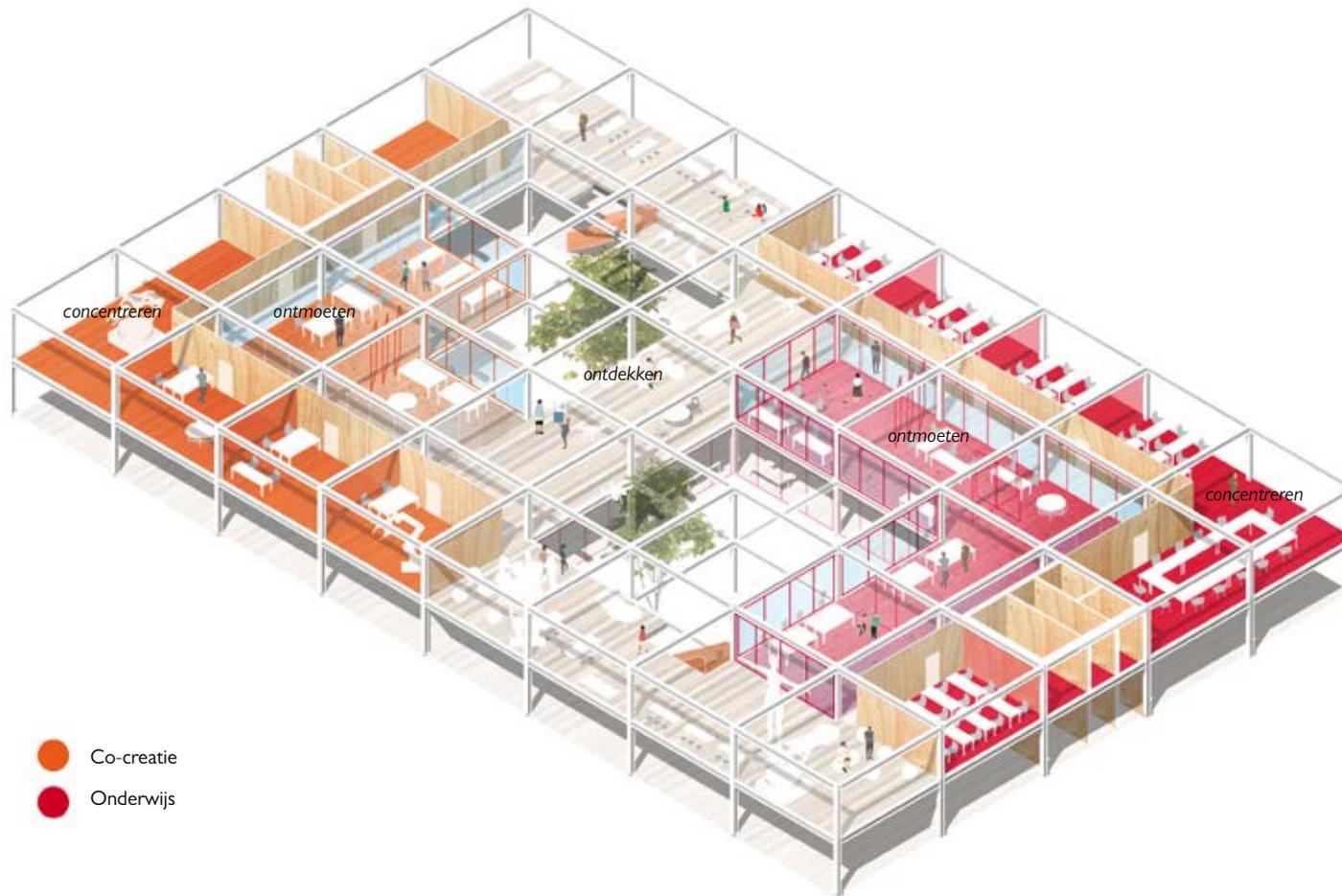
Hergebruik

HEALTHY

The focus of LAB 942 is on people. A good interior climate with thermal comfort and healthy air, views of the outdoors, daylight, pleasant acoustics and functional spaces and routing facilitating interactions all provide for the human dimension, even in a large building like this. As well as views of the greenery outdoors, the interior of the building is also green, with large trees growing up from the ground floor and visible from all parts of the structure.

Indoor greenery provides positive associations with well-being, health, relaxation and an optimal environment for work and for studying. Additionally, it contributes to a pleasant indoor climate by taking up humidity from the air. The central core fans out from storey to storey from the ground floor upwards, passing from the more sociable central zone to reach increasingly quiet spaces. Spaces for concentrated work in peace and privacy are located on the periphery. The structure provides an inspirational learning environment on every floor, where users feel fully at ease and can work in comfort.

The combination of manageable spaces facilitating meetings and interactions, views of the world outside, ample daylight, a pleasant interior climate and the choice of materials creates a unique and personal ambience within LAB 942.



- Co-creatie
- Onderwijs



INSPIRATION

Natural wayfinding, daylight, avoidance of toxic materials, the facilitation of movement and flow and circularity-driven design have been guiding principles in devising solutions for LAB 942. In collaboration with the users, this vision can develop into an outstandingly inspirational design. In both technical and visual terms, these solutions are closely related to the issues that LAB 942 deals with, binding the unique community of users even more closely to the building.

The interior of LAB 942 reflects the two priorities of the Faculty of Science: Green & Smart. Optimal encouragement of meetings and contacts in a sustainable environment creates the ideal environment for the transfer of knowledge and high-value, groundbreaking research.

COLOPHON

Summary of Vision Document for Selection of Architects
ASP942
1 November 2018

Bentham Crowel Architects
www.benthamcrowel.nl

Bouwadviesbureau Strackee
www.strackee.nl