

Summary: Schedule of Requirements for ASP942 (draft)

Background

In 2010 the Faculty of Science moved into the new Science Park 904 building at Amsterdam Science Park (ASP904), thus bringing all science education and research at the UvA together under one roof. Over the past few years, the number of students and academic staff at the faculty has undergone significant growth. In 2018 the Faculty of Science is facing not only a mixture of temporary, sub-optimal accommodation solutions, but also a continued shortage of classrooms, study places and office space. Furthermore, requests for additional space currently cannot be met. The 2019 Framework Letter, which was adopted by the Executive Board and approved by the UvA's representative advisory bodies, provides for an expansion through new construction. As a result, the proposal to grant space for investment to foster growth on the part of the Faculty of Science and the Innovation Center for Artificial Intelligence (ICAI) initiative has been incorporated into the investment table for the Accommodations Plan.

Schedule of Requirements

The fundamental quantitative and qualitative principles for the new-build ASP942 (working title) are defined in the Schedule of Requirements. Together with the ASP942 Technical Ambition Document, this document constitutes one of the tender documents for the selection of the architect (incl. construction company), installation consultant and building physics consultant.

The Schedule of Requirements sets out the ambition to merge education, research, innovation and collaborative efforts with third parties on informatics within a single building. This means that the Informatics Institute (IVI) and Institute for Logic, Language and Computation (ILLC) as well as a large portion of the informatics programmes will be accommodated in ASP942. ASP942 will also house the Innovation Center for Artificial Intelligence (ICAI), which is part of the Informatics Institute and focuses on collaboration with the business community and other knowledge partners. For this reason, space will also be set up for co-creation and leasing to businesses. Figure 1 depicts the ambition for ASP942.

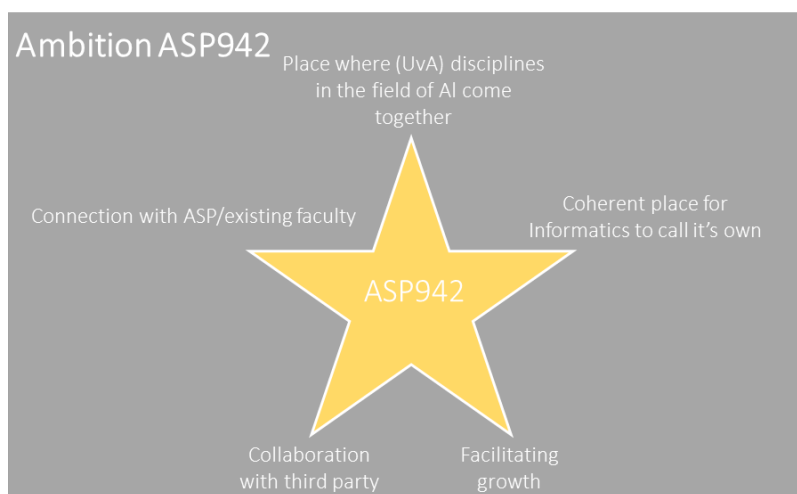


Figure 1: ASP942 ambition

To this end, the UvA is aiming to create a sustainable, healthy, inspiring, flexible and smart building. The envisioned building can be used flexibly, allowing its functions and components to be adjusted and exchanged at the lowest possible cost. The intention is to design a gas-free building and to satisfy the guidelines for a building that is almost energy-neutral in line with the BENG requirements.

The total size of the new building will be 13,800 m², spread over 7 to 8 floors. The location of the new building is the existing 'football field' next to the bicycle parking facility of Science Park 904 (plot 12, field 4). A logical connecting route must be created between ASP942 and ASP904 so that students and staff of the Faculty of Science can easily use the facilities in both buildings. The access and connection between the buildings should also be more than just a functional walking route: it should have good recreational value as well.

Accommodation concept for ASP942

Figure 2 shows the accommodation concept. This is a schematic depiction of the relationships and the clustering of functions in ASP942 and should not be interpreted as a map. The accommodation concept is based on a mix of functions for education, research and business in an inspiring and attractive environment. The various functions are connected through catering facilities, meeting places and communal workspaces.

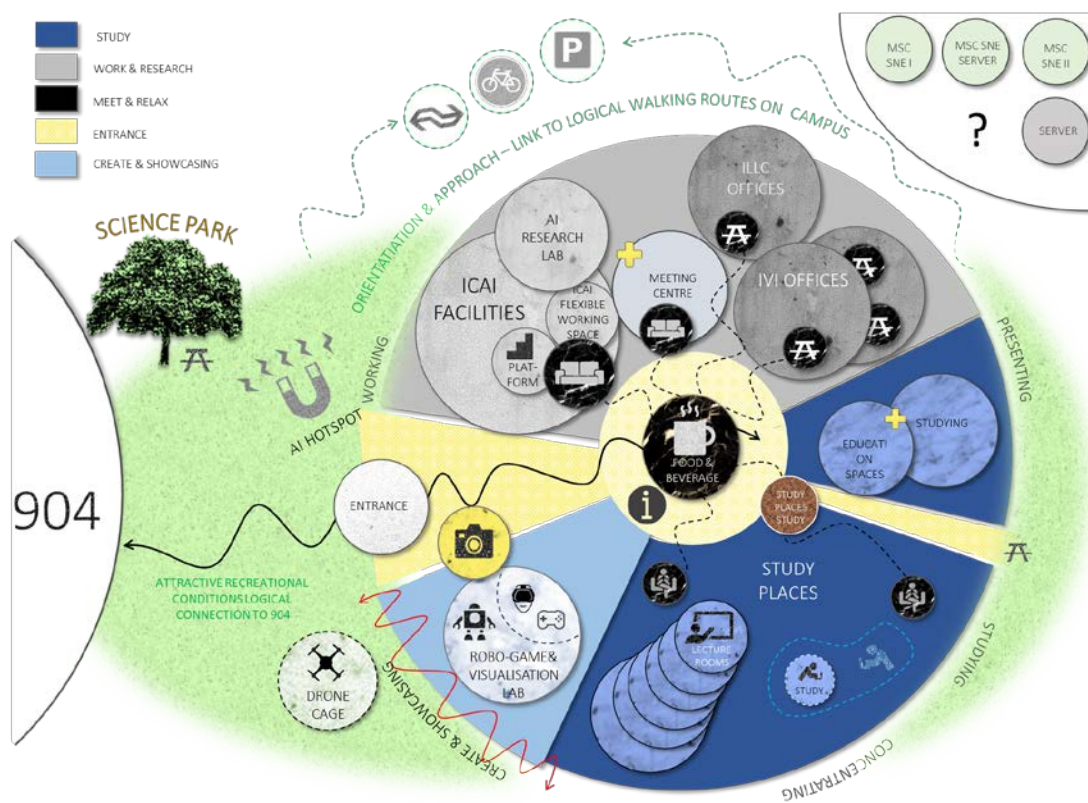


Figure 2: ASP942 accommodation concept

Education

The education-related plans for ASP942 are primarily focused on education facilities for Bachelor's and Master's students within the informatics programmes. ASP942 will have two lecture rooms with a capacity of 150 and 240 people, respectively. In addition to being used for teaching purposes, these rooms will also be available for graduation ceremonies, seminars and smaller conferences. The classrooms for group teaching vary in size and can accommodate between 20 and 40 people. The rooms will be furnished with (loose) furniture that can easily be moved in order to encourage flexible use of the space.

A total of 200 study places will be created in ASP942 under the auspices of the University Library. During examination periods, the tutorial rooms can be used as study places. There is a logical link between the tutorial rooms and study places in order to facilitate a natural overflow between them. A limited number of study places will be created for Master's students; these will be located near the researchers in the office area of the teaching institutes.

The board room of the VIA study association will be housed in the new building as well. It will feature space for six work stations in a central, visible location. The room will also be used for students to meet with one another.

Offices

The Ivi and ILLC have a mixture of places to meet up, work or hold meetings in ASP942. The total amount of office space is determined based on the UvA standard and the office space in ASP904 serves as a frame of reference. The Schedule of Requirements includes 2,400 m² of office space for the Ivi and 1,000 m² for the ILLC. Those involved within the research groups will be situated in close proximity and use a mix of 1-, 2- and 3/4-person offices. Both institutes will have centrally located common rooms and meeting areas.

There will additionally be a communal seminar and meeting zone which can be used for the purposes of meetings and discussions. The partners of the ICAI (co-creation) will also be able to use this and add rooms to it themselves. The zone features a variety of meeting rooms that can accommodate six people or more.

ICAI

The ICAI is a national centre for open innovation in artificial intelligence (AI). As such, it would like to provide facilities in ASP942 for partners to pursue their own AI activities and for new creative experiments surrounding AI to be conducted, along with other support facilities. ASP942 will offer space for the AI Research Labs and (new) collaborative partners, as well as an environment with various ICAI facilities for innovative SMEs and start-ups with a direct connection to the scientific field. This means that in addition to the office setting, there will also be various conference and presentation rooms, a flexible working environment and a meeting area.

Catering

The catering heart of the UvA locations at Amsterdam Science Park is situated in Science Park 904. ASP942 will house a facility with a limited selection of hot food and a coffee bar. This is primarily geared towards facilitating meeting up and relaxing within the building.

Robot, drone, gaming & visualisation lab

A single lab environment will be created in a central, visible place: the robot, drone, gaming & visualisation lab. The visibility of practical research will contribute positively to the desired image for the ASP942 concept. This lab environment can be split into two functional areas – the robot and drone lab and the gaming & visualisation lab – which can be used for both education and research.

Facilities

The applicable frameworks and principles for facilities are described in the latest version of the facilities Schedule of Requirements, drawn up by Facility Services. The Schedule of Requirements also ensures that the building is in compliance with statutory regulations on accessibility and safety. For those facilities which are not available in the building, the facilities in Science Park 904 will be used. The space required in ASP942 for facilities such as the plumbing will be realised through the grossing up of the NO/BVO. This means that these facilities have not been included in the space allocated to users.

Technical ambition

In addition to the previously mentioned profile themes for a sustainable, healthy, inspiring, flexible and smart building, the technical ambition document describes the basic architectural and technical principles which the building must follow. The functions for the different types of spaces are also explained. These include: illuminance, sun blinds, shading (depending on orientation), acoustics and sound insulation, internal acoustics and sound insulation, external ventilation, cooling, floor loads, connection points and redundancy (UPS, emergency power).