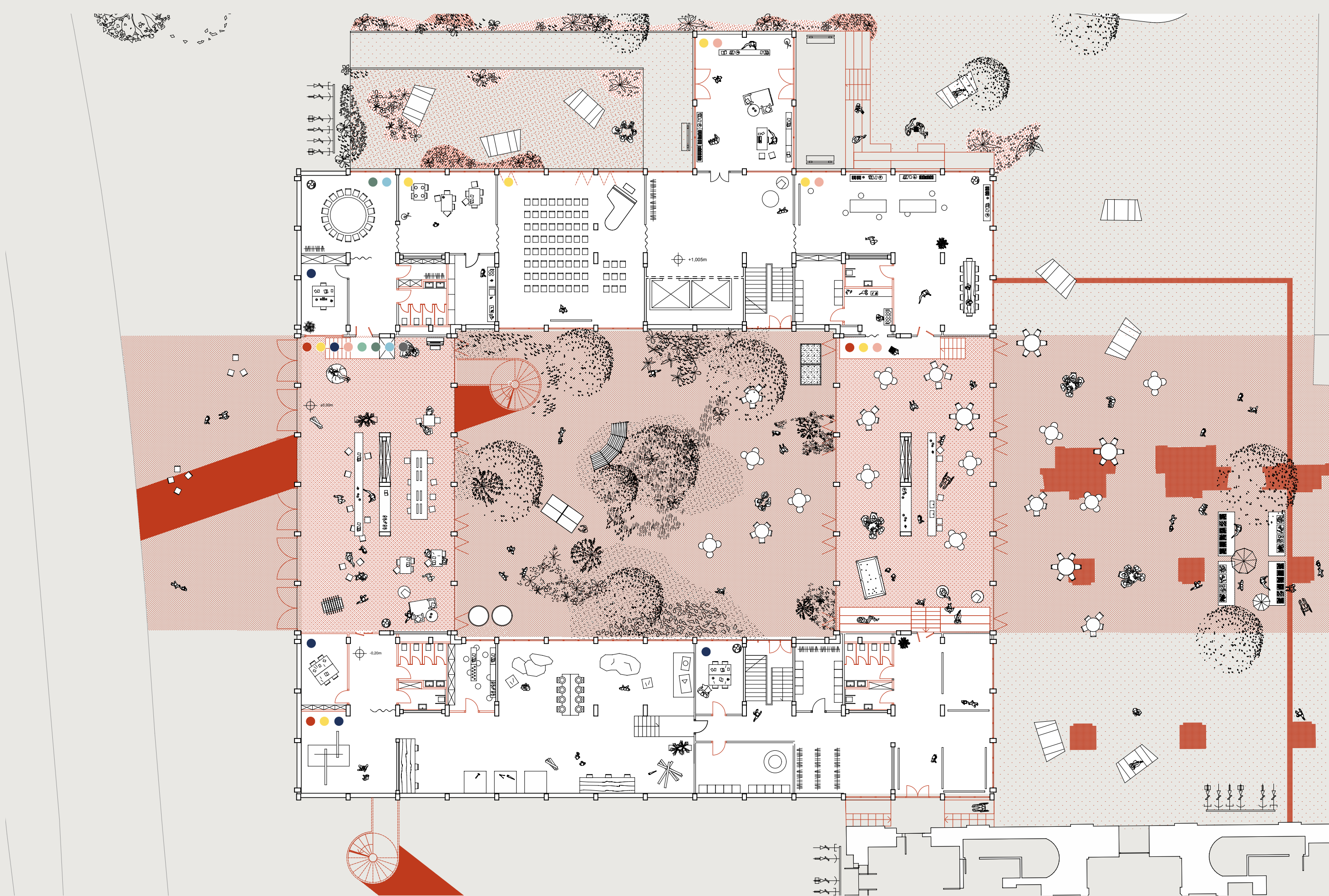
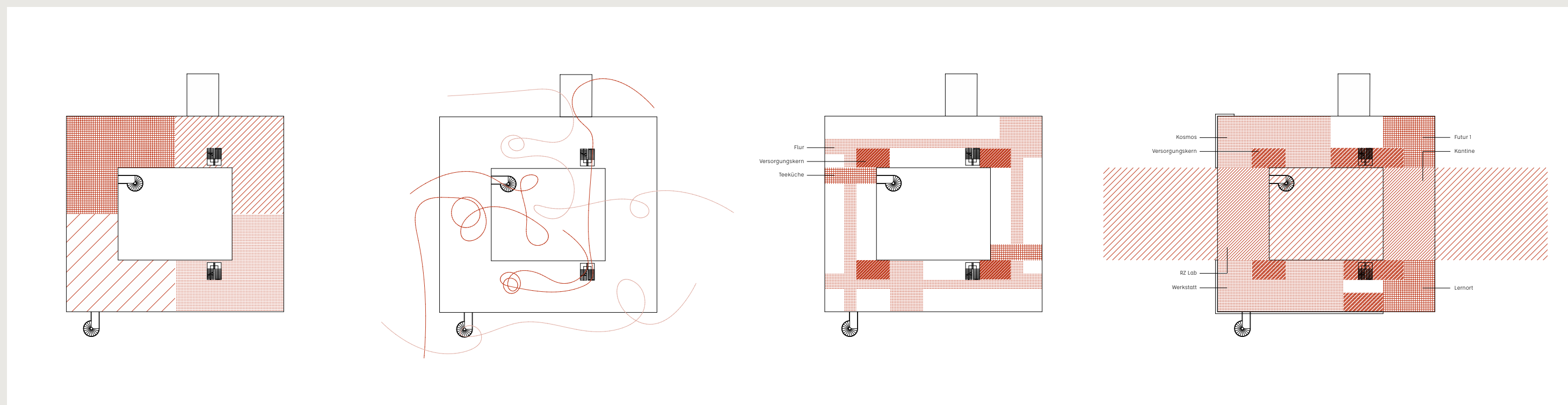
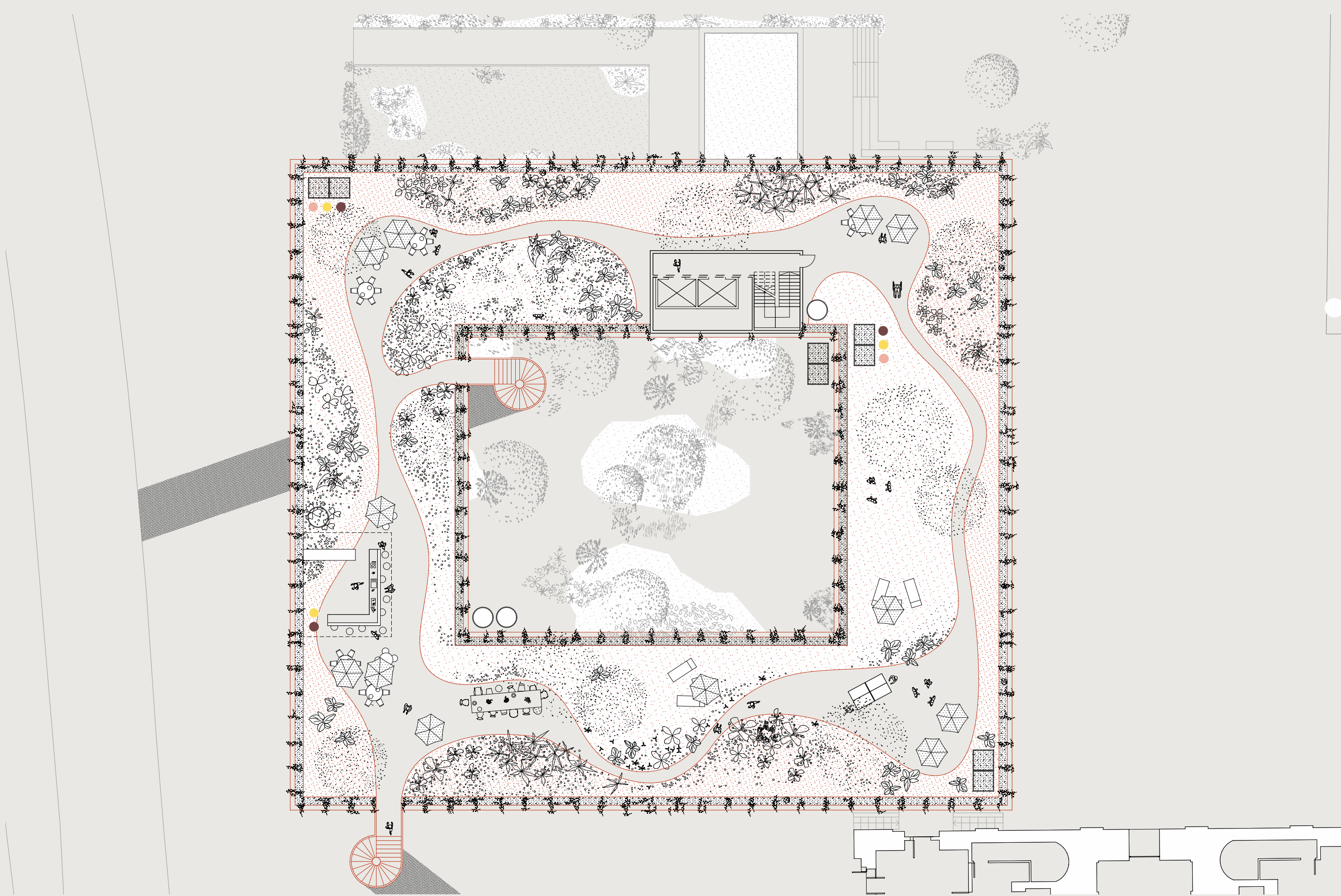


RZ minimum makes maximum



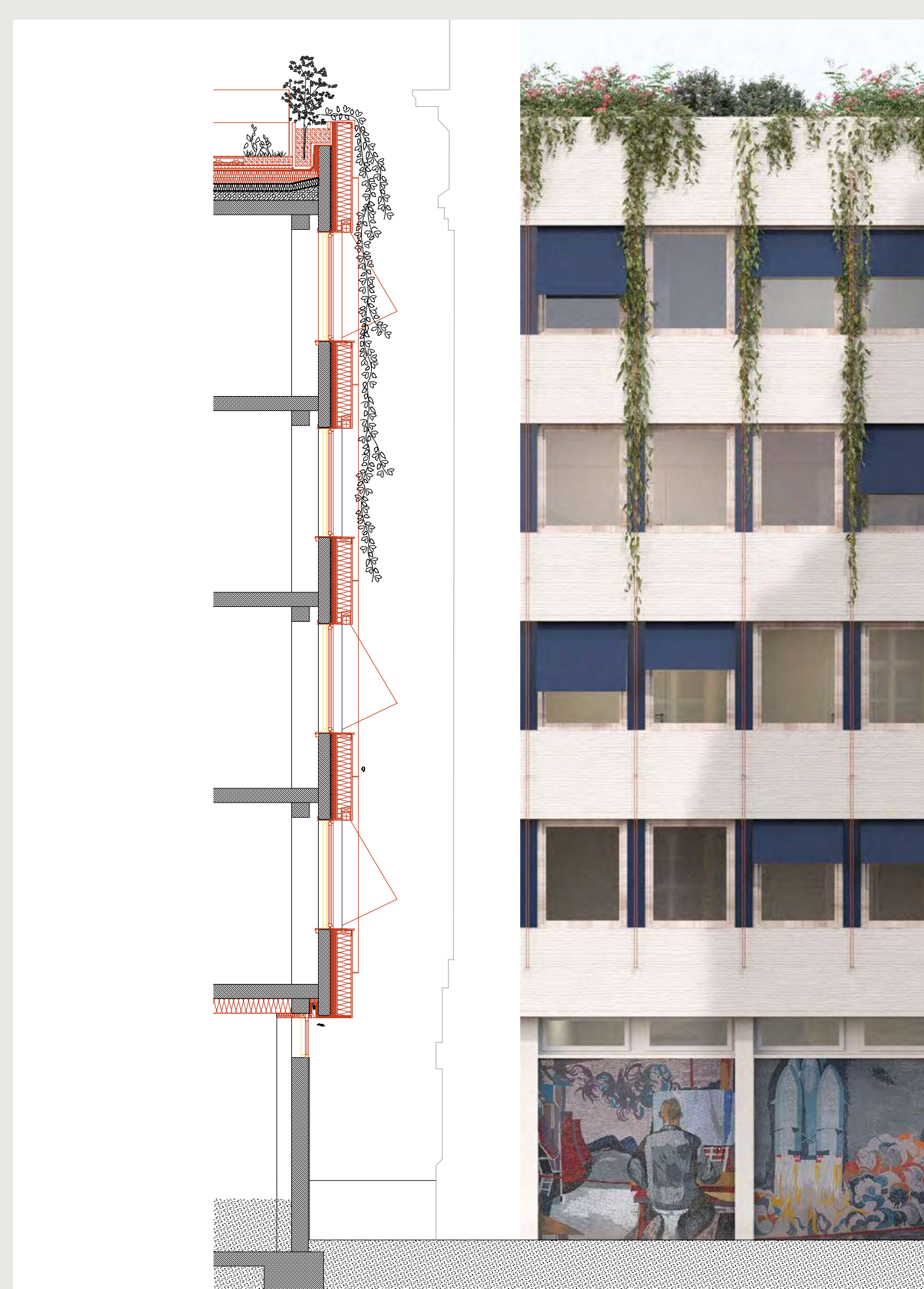
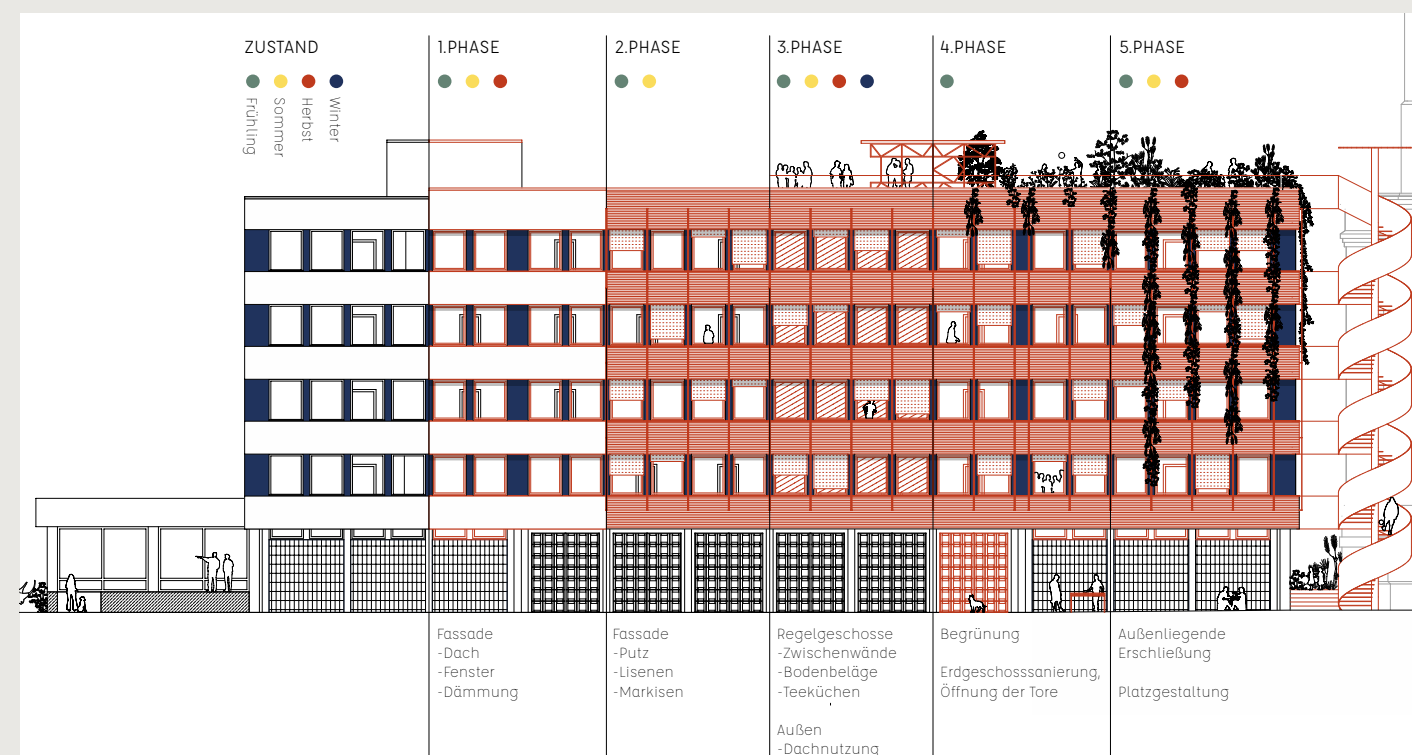
ground floor with east-west passage, shown as summer scenario with open doors

M1:250



rooftop, shown as summer scenario

M1:250



s.1.6

C von Hammerstein ¹,
C Dahmen ¹, I Böncke ¹,
C Harbecke ¹, L Wetzel ¹

¹ Natural Building Lab, Institut für Architektur, TU Berlin, Germany.

Keywords: Conversion, existing building, Circularity, LCA

The Rechenzentrum (RZ) is one of the last existing DDR buildings in Potsdam's city center. After a long practice of demolition and historical reconstruction, the RZ is now to be preserved after years of discussion. The current users of the RZ are art and culture professionals, who have been able to temporarily use the space since 2015. Our method of achieving maximum effects with minimal interventions is intended to provide users with a permanent solution in Potsdam's city center. By taking necessary energy measures, such as renovating the facade and waterproofing the roof, the use of resources can be massively reduced compared to demolition and new construction. In our view, ecological sustainability cannot stand alone and must be linked to the social fabric of the building. In this regard, a staged renovation by fire section allows no one to have to move out of the building. Small structural interventions along the characteristic central corridor on the regular floors enable users to enjoy new spatial qualities that ensure the long-term use of the Rechenzentrum even when demand changes. The responsibilities for the process organization and the new common areas will be recorded in a new operating system. The expansion of the public space is also to be experienced by the urban population. With the help of event spaces, as well as the canteen on the open first floor, visitors can become part of the cultural diversity and network with the artists. The green roof, which invites passers-by through eye-catching access, not only serves to improve the urban climate, but also non-human actors are integrated into the circularly conceived design.

