Ecologies of Resilience

Resilience describes the ability of systems to be resistant during or after the influence of shocks, conflicts and crisis. Resilient systems are able to adapt to transformations in order to guarantee long-term stability and security. While the term resilience is used as a synonym for sustainability in the area of social and ecological concerns, contemporary designs of resilient systems predominantly follow stereotypical images (green, natural, collaborative). Questioning the concept of resilience forms the basis for a new perspective on ecology, leading from its original meaning in terms of an existential relationship to the natural and social environment.*

*Definition of Ecology after Ernst Haeckel, *Generelle Morphologie der Organismen: allgemeine Grundzüge der organischen Formen-Wissenschaft, mechanisch begründet durch die von Charles Darwin reformirte Descendenz-Theorie*, 2 vols. (Berlin, 1866), 2: 140. „The whole science of the relations of the organism to the environment including, in a broad sense, all the ‘conditions of existence’“.
Prototyping Nature and Buildings

Prototopia Garden-House-City investigates the connection between design and socio-technological resilience on the basis of case studies and, in dialogue with specific actors, develops prototypical designs for a spatial practice that fosters a sustainable language for an architectural production of resilience.
The starting point is formed by three different locations with different climatic and cultural conditions - the site in Berlin at the airport Tegel ties in with the small-scale logic of allotment gardens to develop new types of living derived from the garden culture.

The second site is in Rio de Janeiro’s metropolitan area in the nature reserve of the tropical rainforest Mata Atlântica and understands the informal structure of the favelas as a sustainable development strategy.

The third site in Swakopmund/Namibia is located in the context of an extreme condition of a dry desert-like environment.
A fundamental component of the three designs is the green space of three different ecological systems, which serves as a natural basis for life and which connects all locations in the studio’s approach. The garden forms the beginning of a design project that is in an intensive interrelation between architecture and ecology. On this basis, prototypes will be developed that create new typological connections between the ecological and social context.
Eco-Systems

The built and the natural environment are considered as integral components of an eco-system that can grow and further develop new narratives of an urban ecology for living. The design proposals are tested against the backdrop of different climate zones and scales. From the detail of the garden house to group form to the overall urban vision.
The beginning of the studio is accompanied by a PIV (integrated exercise) taught by FG Kunst.

Schedule:
MO. 09 NOV, 11 - 14h
Exhibition visit and intro by Stefanie Bürkle
Haus am Kleistpark „Diversität der Moderne - 100 Jahre Groß-Berlin“
WE. 18 + 25 NOV, 09 - 13h
Individual crits with zoom
SO 29 NOV - 20h
Hand-in
Collective Learning

The studio is run in hybrid mode (attendance events + online assistance).

In view of the difficulties in the exchange due to corona-related restrictions, the focus is on teamwork and adherence to uniform methods and formats to create a collective basis for discussion.

Number of students  20
Credit points   12+3
PIV      FG Bildende Kunst
Coordinator   Catarina Farinha, Tobias Schrammek
Local contacts   Dieter Brandt, Eliane Saramento
Schedule

Start of the design studio FR. 06 NOV

Part 1 – Prototype Garden House Configuration
Individual Desk-crits FR. 13 NOV
Collective Desk-crits FR. 20 NOV
Collective Desk-crits FR. 27 NOV
Individual Desk-crits FR. 04 DEZ
Midterm Presentations FR. 11 DEZ

Part 2 – Prototype Group Formation
Collective Desk-crits FR. 18 DEZ
Individual Desk-crits FR. 08 JAN
Collective Desk-crits FR. 15 JAN
Individual Desk-crits FR. 22 JAN
Midterm Presentations FR. 29 JAN

Part 3 – Prototype Field
Collective Desk-crits FR. 05 FEB
Individual Desk-crits FR. 12 FEB
Layout Check FR. 19 FEB

Final Presentations FR. 26 FEB
References

Fig. 1 Kazuyo Sejima, Nishiyama House
Fig. 2 Hassan Fathy
Fig. 3 Álvaro Siza, Quinta da Malagueira
Fig. 4 Vernakuläre Architektur
Fig. 5 Charles Correa, Belapur Artist Village
Fig. 6 Jean Renaudie, Cité des Écoles
Referenzen

Fig. 1 Schrebergärten mit Baurecht
Fig. 2 Favela in Rio de Janeiro
Fig. 3 Balkrishna Doshi, Aranya
Fig. 4 Michel Ecochard, Casablanca
Fig. 5 Moshe Safdie, Habitat Puerto Rico
Fig. 6 Bernard Rudofsky, Frigiliana