

Unlike any other modern building material, concrete has made it possible to build cheaper, higher and faster than ever before, quickly becoming omnipresent in today's built environment. At the same time it is emblematic of the environmental challenges facing the building industry: although we know how carbon- and extraction-intensive the material is, we are still struggling to reuse it on a large scale.

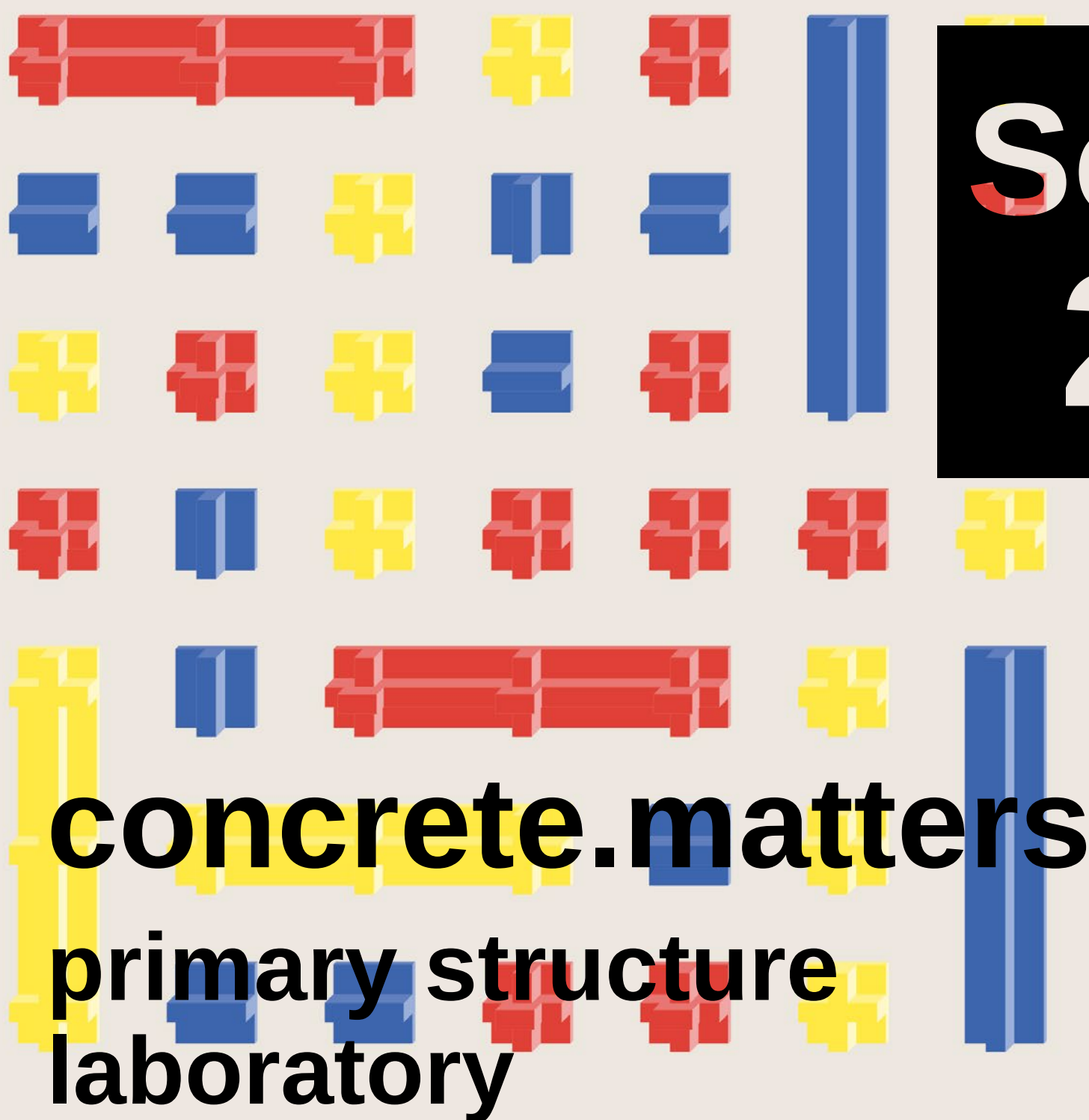
The research project „concrete.matters“ conducted by Baukreisel, aims to investigate the possibilities of massively scaling the reuse of deconstructed primary concrete structures in transformation and new construction. This exploration involves constructing 1:1 mock-ups that showcase a

number of different approaches and reuse options to be reviewed and compared, thus defining an „Optimal Reuse Case“ (ORC), which may prove to be more advantageous when compared to business as usual.

During the seminar, you will be able to participate in this research effort, mapping stakeholders and flows, from understanding current limitations, to documenting and assessing state-of-the art techniques and participating in the building process of the prototypes at Bauhaus Earth's Marienpark Lab.

* Baukreisel, one of the current BE-FELLOWS, is an interdisciplinary collective comprising architects, social scientists and economists with the common aim to radically increase the reuse of building materials, as a lever to reduce the gigantic footprint of the building industry in a short period of time.

** BE-FELLOW is a project-based fellowship program stemming from a collaboration between Bauhaus Earth and Experimental, a non-profit organisation promoting practice-based experimental and research-oriented projects in sustainable architecture.



Comparative Experiments with Reused Concrete by Baukreisel

Seminar, 3 + 3 ECTS

Freie Wahl

MA UD, MA Arch, MA Arch T

Teaching Day

Module 1 – Room A507

(6 weeks, 13.05 – 21.06)

Module 2 – Bauhaus Earth*

(8 weeks, 24.06 – 16.08)

First meeting

April 22nd, 2024

Teaching Staff

David Bauer (TU Berlin)

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Baukreisel* (Architects, BE-FELLOW 2024)