### **Triest** Verlag für Architektur, Design und Typografie

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#### FHNW Institut Architektur, Annette Helle, Barbara Lenherr (eds.) Beyond Concrete. Strategien für eine postfossile Baukultur / Strategies for a Post-Fossil Baukultur

Book design: Bosco Ferreira, Basel, and Nguyen Gobber, Vienna

German / English, 192 pages, ca. 100 images 18 × 24 cm, softcover

SFr. 39.–, Euro [D] 39.–, Euro [A] 40.– ISBN 978-3-03863-072-2

With contributions by Brussels Cooperation, Kim Förster, Harquitectes, Anupama Kundoo, Axel Schubert, Zirkular and essays by Annette Helle, Axel Humpert, Barbara Lenherr, Dominique Salathé, Tim Seidel and Harald R. Stühlinger. New Release June 2022

# How Will We Plan and Build in the Future?

 $\rightarrow$  How can construction become CO\_2-neutral, resource-saving and thus sustainable?

 $\rightarrow$  On the chances of recycling and reusing building materials and components in architecture

How will we plan and build in the future? In view of the finite nature of our resources, a rethink is also required within the building industry. For this it needs a constructively motivated design culture that shows new ways of dealing with building materials.

*Beyond* Concrete. Strategies for a Post-Fossil Baukultur aims on the one hand to provide an overview of the current environmentally relevant challenges of building, and on the other hand to point out concrete strategies and present projects that exploit hitherto underused potentials and contribute to the development and unfolding of constructive ideas for the future.

The first part, entitled "Status Quo. The Need for Fundamental Change", brings together theoretical studies on historical backgrounds, scientific foundations and material-related developments within the building sector.

The second part, titled "Circular Construction. Keeping What's Good", focuses on the potentials of reusing components and buildings.

The third part, "Possible Constructive Futures. Exemplary Projects", features three architects whose projects represent possible constructive futures and thus provide a positive view of the future.



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158 Possible Con	structive Futures Exemplary Projects	Human Tim	me as a Resource	Anupama Kundoo	15
<ol> <li>Known materials and technologies have uses we have yet to discover. Experiment boldly.</li> </ol>	If you see an object simply as a clay pot then all you will see is that you can use it to fetch and store water, or cook food in. If, on the other hand, you can set is an object with a convex straffere made of a sturdy ma- terial, then you can conceive other uses for it. For example, you could use it as host formwork for a confered ceiling. By removing concrete from that portion of the slab experiencing tension, we make the slab stronger, lighter, and cheaper to produce. Baked in-situ mud houses, which look a lot like traditional housing, are a novel way of recombining a known material (mud) and a known process (kiln firing). This novel approach does away with the need for cement (now ay to reduce embodied energy more on which later) since the bricks that make up the house are fused together during fir- ing. Of course, the finished bricks require no (energy for) transporta- tion since they are fired in place. Additionally, the house works as a kiln to bake other clay goods with marketable value (capturing heat energy that would go waste).	3. Old can be gold.	classic. Perceptions matter Around the world there ar- ing methods and styles? I lessons and inexpensive a do not attract the research industrial technologies as servingly (and incorrectly ised in time. Modern but standardised industrial p ditional methods that co- ronmental cost. Many traditional methods and better for local crafts?	e a plethora of time-tested, traditit so-called vernacular') that offer ilteratives to modern modes. How a nad marketing funds that routine and products. The creators of the l y presume that traditional systems liding codes therefore come to e oducts and systems while extinguid ald offer equivalent benefits at a l- have been found to be cheaper, less men and economics. By using them their odds of equal representation	nal bui mporta ever, th y flow atter so are fos nphasi shing t ower en
of building achikal brici concrete sla range of bui pically used train a comm	In summary, treat your project as a laboratory in which you encourage risk-taking to discover new ways to reduce the versus of finite nature are sources. The second state of the second s	tion tech codes. Ye and clima	nology that is, unfortunately, r et, the method is inexpensive an	f an age-old residential construction to longer persistilia under not acce than adequate (structural consistent the unmet needs of hundred consistent the unmet needs of hundred construction of the structural cons	buildi y

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