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Lorenzo De Chiffre, Artem Kitaev, Eva Mair, Katharina Paschburg, Katherina Putzer (eds.) Reuse in Teaching.

## The Future of the Architectural Design Studio

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With contributions by: Charlotte Malterre-Barthes, Adam Caruso, Gunnar Grandel, Elke Krasny, Erik Langdalen, Jan De Vylder and Inge Vinck and an epilogue by Astrid Staufer.

#### Book launch

Friday, November 14, 2025, 6 pm, Vienna – TU Wien, Prechtlsaal Details to follow → triest-verlag.ch/news New release September 2025

# Reuse in Teaching – Learning and teaching transformation

- Learning and teaching transformation –
   exchange between research, education and practice
- Richly illustrated, with student projects from Vienna (including the APA Tower), Oslo (former Munch Museum) and Trieste (Campo Marzio)

Reuse in Teaching focuses on the highly topical issue of the adaptive reuse and transformation of buildings. The premise is that even though refurbishing and recycling buildings is gradually becoming part of mainstream practice, the education of future architects is lagging behind.

Dealing with existing buildings in an academic context is complex and challenging: it requires additional time, resources and, most importantly, different teaching methods and formats.

Based on a research project at the TU Wien, the publication presents a methodological discussion of the work of three separate design studios, including contributions from international experts involved in the project.

The book offers both theoretical depth and practical insight, showing how working with the existing requires new teaching formats, studio briefs, and design approaches. It bridges the gap between academia and practice, as most contributors are active in both fields. Rich visual material illustrates not only the students' work but also the broader pedagogic and conceptual framework behind it.

Unlike most books on adaptive reuse, which focus on built projects, *Reuse in Teaching* foregrounds the implications for design education. It opens up a timely and critical conversation on the future of the architectural design studio in a world where



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FOREWORD

#### I TRANSFORMING THE EXISTING

#### Rudi Scheuvens

The question of how we work with the existing built environment has become one of the most urginer challenge facing an othercuture and spatial planning today. As we collectively confrort the climate crisis, resource scarcity and rapid societal change, the task of transformation must take a central place in our disciplines. This shift is not only a technical or environmental issue; it demands a profound rethinking of how we educate future architects and spatial planners.

The flexes in Teaching project, part of the flexibly SEOTE program, has addressed this challege head-or. Through the connecte work of three design studies, the project has explored how to strengthen the teaching of adaptive resus and transformation of the esisting. Yet is contribution has extended beyond the design studies themselves, providing crucial momentum for a broader, faculty-wide installate under the them framework that the studies of the stud

This focus reflects a deep commitment within the faculty to position reuse not as a constraint but as a creative and ethical opportunity - one that opens up new possibilities for design, fosters critical engagement with history, and supports more responsible ways of inhabiting the world. Reuse in Faching has served as catalyst for this development, exemplifying how focused pedagogical inquiry can become the starting point for institutional channes and broader cultural reflection.

We see this project as an essential contribution to the work of the faculty and to the evolving outlook of architectural and spatial planning practice. It strengthers our capacity to prepare students for the real challenges they will fince and underscorest the faculty's role as a place where the future of

Rudi Scheuvens Dean of the Faculty for Architecture and Planning, TU Wien building less and transforming more is becoming a cultural and ecological necessity. The target audience are architectural educators, students, practitioners, researchers, and anyone interested in the future of architecture and its teaching.

## About the editors

The five editors worked together on the project "Reuse in Teaching" as part of the Excite research programme of the Faculty of Architecture and Spatial Planning at the Institute of Architectural Design, TU Wien.

**Lorenzo De Chiffre** is a Senior Scientist at the Department of Building Construction and Design 1, where he heads the Construction and Transformation research platform.

**Artem Kitaev** is a university assistant at the Department of Building Theory by Design, where he is doing his doctorate on the subject of adaptive reuse. He is also co-founder and partner of Kosmos Architects.

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EX MUNCH MUSEUM

STUDIO BRIEF

## THE TRANSFORMATION OF THE EX MUNCH MUSEUM IN TØYEN, OSLO, INTO A **NEIGHBOURHOOD AND CULTURAL CENTRE**

#### Eva Mair, Katherina Putzer

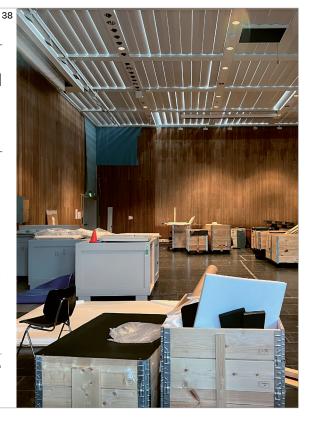
The Munch Museum moved from the Tayen district of Oslo to its new building in a central harbourside location in fall 2021. Beepite years of discussion, it remains unclear what will happen to the old museum, designed in the 1960s by architects Gunnar Fougier and Einar Mydelbast. Now that the last artworks have been moved out, the eighth Oslo Architecture Triennale has taxed over the premises as a first interin use. The event offers the possibility for an experimental arrangement of activities and an 'on-site survey'.

- of the neighbourhood, who have little lobbying power or economic means?

  Which scenarios for reuse will prove to be suitable for the respective spaces?

  Which metarias and details should be preserved and how can the design build on them and further develop the potential of what is already there?

As part of the design course, we will travel to Oslo and explore the building. Our starting point is not nostalgo retrospection, but the actual architecture as we find it at the time of our visit. Each student will choose and What quarties are contained in this seemingly un-emarkable and heterogeneous building complex? What are the specific characteristics of the individual rooms, some of which still speak the language of post-war modernism, while others have been heavily altered or are new additions from the 1990s. He must form the white selective How can the building be transformed with selective interventions for a subsequent use by the residents



#### EX MUNCH MUSEUM

envelope and its surroundings. The design proposals of this first semester showed a deep understanding of the context in which the building is embedded: the unban and social conditions of Tipes as well as the historical context. The student projects were exhibited as part of the Oak or Architecture Triennale held in the building in fall 2022.

If the design process of the first semester built upon the extensive input provided by the tutors, the second semester in wither 2002-20 aimed for the opposite namely, to start the exploration and interpretation of the building with a mindese as detached as possible from predefined observations. Rather than looking to create a rational relationship between the students and the building on the basis of collected involvelege, data and history, we wanted to allow for the development of a connection that was not predetermined but individual and emparating and and and the students and the story. dual and empatethic.

#### FOR FRAGMENTARY INTERVENTIONS

Students first looked at selected reference projects n order to understand different design approaches or dealing with essisting buildings. The working tools de-ined for this discussion 1(25 models presented with hotocs, hand drawings and textual were then also used n the building analysis and design process.

On the studio trip to Oslo each student selected a spe-cific fragment of the former Munch Museum and spent several days on site in their chosen space, creating large pasted drawings, hand sketches, photos and texts that would form the basis for the 1:25 models they built on their return to Vienna.

Together, as a group, we achieved a very close, precise reading of the buildings diverse spatial qualities. A discus-sion of each individual fragment in relation to the others and to the overall building complex led to the develop-ment of selective design interventions in the building structure. Working with punctual transformations not only allows suderins a precision in the elaboration of their design; take or reflects an approach to adaptive reuse that we find relevant.

Empty buildings like the museum in Tayen represent an opportunity for communities that otherwise lack the resources and connections to put their projects and ideas into effect. Undertaking a complete renovation of ideas into effect. Undertaking a complete renovation of a vacant building is often not feasible contonically, building and avacant building is often not feasible contonically, building artistic many arise from a suitable understanding of beauty, functionality, comfort and convenience.

The design process and discussions between students, tutors and invited guests created an awareness of how it is possible to change the use, appearance and meaning of an entrie bulling through small-scale interventions. It brought to light an affordable architecture with specific characteristics, able to live with bind spots while allowing for future developments.



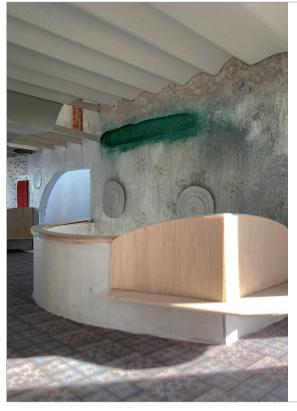




<sup>8</sup> Georges Penec, Life: A User's Manual, trans. David Bellos, (London: Collins Harvill, 1987). Original title: La Vie mode d'emploi. Romans (Davis: Nochern, 1979)



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Aged and unmindful. At times, I lose myself to the tiny fragments of the past, without reflecting on our future.

Obliviousness, without the knowledge of oblivion. Without knowing what is yet to pass. What is long gone. No sooner had the rocks settled back into their designated place than I engulfed them into the abyes of my memory. Devoured them. Without remembering their absence.

They call you 'the time'.

You manifested the body of my being, Froze
me into my present shape. Trapped and inscribed me within the layers of my surroundings.
You keep your distance. Clutching onto my
hand like a mother holds her child. Granting
protection and purpose, without stealing
my histories?

They call you 'the path'. You rest your aching body in my sturdy envelope and assuage your pain in my senses. Without ever touching me. Never doing me harm, and yet the tension accumulates. Tension that you disregard. You hold on tightly, as if it were the corpor of your evisioners.

You are the path. You are the time. Freezing. Constantly freezing. And yet, without you I cannot exist. DE (original)

Ich bin die Ruine. Att und Vergesslich. Manchmal verliere ich mich in kleinen Fragmenten der Vergangenheit ohne an unsere Zukunft zu denken Vergesslichkeit, ohne zu wissen, dass man vergisst. Ohne zu wissen, was noch kommt. Was längst vergangen ist. Kaum findet jeder Stein wieder an seinen Platz zurück. so habe ich ihn wieder in meinen

Du bist die Zeit. Hast mich in meiner Gestalt manifestiert. Erkalten lassen. Gefangen und eingeschrieben in die Schichten der Landschaft. Du trittst mir nie zu nahe. Hältst mich an der Hand wie eine Mutter ihre Tochter. Gibst

Du bist der Weg. Legst dich in meine starke Hülle und suhlst dich in meinen Gefühlen, ohne mich jemals zu berühren. Ohne mich zu verletzen und doch baust du Spannung auf. Spannung, die du nicht beachtest. Die du vor dich hinträgst

Du bist der Weg. Du bist die Zeit. Kalt. Immer fort kalt. Aber dennoch: Ohne dich gibt es kein Mich.

left) FABIAN BIRGMANN AND PAUL WINKLER built a 125 model of the foyer of Sala Becket in Barcelona by Flores i Prats that conveys the collage-

(right) AMY ESTERMANN AND DARIA VIDAK'S text is a homage to the Museum Domkirkeodden in Hamar by the Norwegian architect Sverre Fehn. They take the perspective of the existing heritage building and poetically describe its relationship to the new elements added by Fehn.





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HARDWARE/SOFTWARE

STUDIO BRIEF

## FROM STATIC FRAMEWORK TO EVOLVING LIVING ENVIRONMENTS

#### Artem Kitaev

ARCHITECTURE OF CRISIS

we will his replay changing wond -economically climatically, politically and cultivally. As we transition from an industrial society to an information society, me to longer fast or fleeble enough to meet the everevolving needs of users. This necessitates continuous adaptation of the built environment, typically through the denolition of existing structures and the construction of new ones.

Constant demolition of recently built, structurally sound buildings and new construction makes the construction industry one of the most ecologically harmful in the

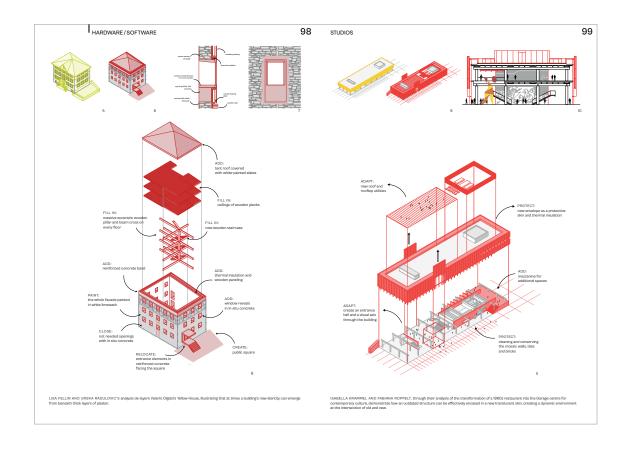
Sometimes, building requirements change faster than concrete can set, leading to constant reconstruction and the demolition of recently built, structurally sound buildings. The gap between a building's obsolescence and its structural deterioration has become inevitable. The adaptation of existing structures is still often considered risking than the construction of few ones.

without accounting for the unnecessary consumption of non-renewable resources. This makes the construction industry one of the most ecologically harmful sectors, with the building sector responsible for almost half of slobal CO2 emissions

'Hardware / Software in architecture' is an attempt to imagine an alternative approach to the design and

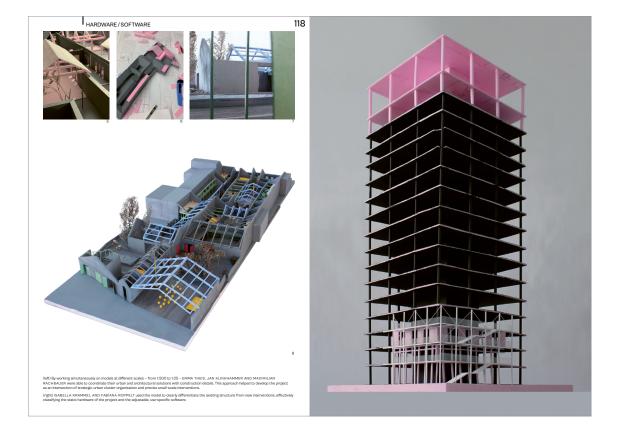
Acknowledging the inevitability of buildings undergoing unforeseeable changes, the concept proposes architecture designed for change from the outset. The building comission from any many and an event-samp structure (Hardward) and 2) a flexible, functional infil (Software). The Software can be easily adjusted to (Software). The Software can be easily adjusted to cremain untouched, addressing urban, architectural and assettiect on-latenges, dutal lies in IT, where updating an application doern't require buying a new computer, buildings can exploye without complete reconstruction.





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STUDIO BRIEF

# THE TRANSFORMATION OF TWO WAREHOUSES IN CAMPO MARZIO, TRIESTE INTO A BUILDING FOR SOCIAL INTEGRATION

Lorenzo De Chiffre, Katharina Paschburg

Triestés harbour once served as a major hai for trade and logistics, faillaiting a direct entrange between the docke, the railway and the city. Today, the harbour infrastruture is largely defunct, but these points of connection still handler flows of people- arriving, staying for a while, and moving on. The design study will develop softrat term, temporary and permanent housing for two of the disused worehouses in the area. bridging the gap between the port and the city certre. In addition to providing accommodation, the foosi will be no integration and urban inclusion - on making a place that fosters social interaction and or community lived to the control medium of community which will be not integration and urban inclusion - on making a place that fosters social interaction and or community lived the fosters social interaction.

The idea of the 'open city' should be understood not only at the socio cultural level of use but also more literally, in terms of opening he doors of vacant buildings near the city centre. The studio investigates buildings formerly used as logistics infrastructure for their bransformative potential, looking at how the robust structures can be adapted or executed to make new spatial configurations, with an emphasis on creating comfortable, communal lifelying spaces - on observing and infegrating architecture.



CITTÀ APERTA

BUILDING DESCRIPTION

## TWO WAREHOUSES IN CAMPO MARZIO

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Campo Marzio is located south of the city centre, close to the former-Staatsbalnhof (state train station) and the main fruit market (Mercato Ortrofluticolo all'ingrosso). Built on reclaimed land, the area bears witness to Trieste's economic expansion in the late eighteenth and early intetered nortruries. The two historical warehouses of the contraction of the contraction

Approaching from the harbour, the two warehouses can be seen on the left (east) side of the alleyway, opsociate arw of galabed buildings. Further down, past the varehouses on the left, is the historicist building of the inviersity's philosophy faculty, while the alley end intelligate leading to the parking lot for an eight-storay leading to the parking lot for an eight-storay parking lot the leading to the parking lot for an eight-storay leading to the leading to the parking lot for an eight-storay leading leading to the parking lot for an eight-storay leading leading to the parking lot for an eight-storay leading lead

Nithough the two warehouses have roughly the same okume, they differ instructure and spatial quality. The first one, at no. 6, has the letters SIDEFURGICA COMMERCHAE Commercial steelmshing) emblazoned on its long street-facing elevation, which has an articutated cornice, a decorated central enternoe and a rounddocumer at its southern end. The interior is defined corner where the building is attached to its neighbour, staircase leads to a mezzanine and the roof level. The roof is flat, the original pitched roof having been sot to a five. Behind the warehouse, the neighbouring esdential block stands conspicuously close to the practy wall, leaving only a narrow wedge-shaped gap between the buildings.

The second warehouse, at no. 8, has a more complex hape and structure its western part. Energing the street, as a rectangilar footprint, whereas the eastern tare to the rear has a polygoral ocition. The former is forminated by four tall wall segments that subdivide the main space into three naves the latter has an arched tructure similar to the other warehouse. The exposed imber roof structure in both parts of the building also test it apart from the more neutral spatial quality of the longsted building at no. 6, with its flat ceiling.



Warehouse 6, interior



arehouse 8, interi



3 Exterior of warehouse 6

<sup>1</sup>Andreina Maahsen-Milar, "Androna Campo Marzio"; farsenale perduto. Generale proteindustriale trisedini, tra ascesa e declino della portualità", in Città meditten ranne in trasfformazione, identifici è immagline del passaggio urbano tra Sette e o Moxecontta, ed. C. de Seta and A. Buccaro (Naples: Edizioni Scientifiche Italiane 700M). IEE auc.



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