

# Conversion



## Task

Technical University Dortmund  
Faculty of Architecture and Civil Engineering  
International Spring Academy  
apl. Prof. Olaf Schmidt | apl. Prof. Michael Schwarz



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# 1. Introduction

As the local equivalent of the „International Summer Academy Venice“, which has been taking place for more than 30 years, the department of building theory at the Faculty of Architecture and Civil Engineering at the Technical University of Dortmund started the first „International Spring Academy Ruhr“ in 2013 and performed it together with the DAD Dipartimento di Architettura of the Politecnico di Torino, Prof. Dr. Silvia Malcovati.

The theme of the first academy was „Una Strada Orribile“ - the B1 in the center of Dortmund. During the following academies the subjects of urban planning and architectural studies were „The Wall“, „The Hellweg“, „Town squares“, „Modells for the northern town“, „Wastelands“ and „Increase of density“.

Because of these very successful events, further universities could be gained - the Faculty of Bouwkunde of the Universiteit Eindhoven, Prof. Christian Rapp, the FH Potsdam, Prof. Dr. Silvia Malcovati, and currently the Università degli Studi di Napoli Federico II, Prof. Federica Visconti / Prof. Renato Capozzi.

The workshops of the past seven years and the resulting enriching cooperation have led to the strengthening of existing partnerships and the acquisition of new ones, so that the 8th International Spring Academy can be held in 2020 as well.

The academy encourages cooperation between international architecture students and teachers. This offers young scientists the opportunity to acquire extensive knowledge of urban development, urban planning, architecture and architectural history of this particular European region during the workshop and to explore and analyze both the Ruhrgebiet as a whole as well as the city of Dortmund under certain urban planning and architectural aspects.

The teaching workshop is carried out jointly by all participating universities. The students are supervised in international teams by the teachers of the involved departments.

For students as well as for the participating teachers, the joint work and exchange of ideas with students and colleagues from other European universities is an extraordinary learning and teaching experience.

An integral part of the program is a symposium with a series of lectures and podium discussions. Numerous speakers from science, politics, culture, architecture and urban planning will be invited to attend. An excursion confronts the students with the built environment and provides input for the scientific work.

In terms of content, the Spring Academy 2020 under the title „Conversion“ aims to provide students with a sustainable reflection on the built environment in general, the built, as well as undeveloped, sometimes extremely heterogeneous „city body“ and the options and risks of updating and continuing construction and redefinition in particular. Especially the location of the planning area near to the city center as well as the structural and spatial structures in connection with the typological, sociological and infrastructural change processes offer an excellent opportunity to move from the example to generally transformable conclusions. The detailed processing, the design for the specific district, for the individual place is reserved for the local particularity. In addition, an ongoing discourse on the architectural-urban design in the variety of approaches and methods as well as the didactics derived from it at the universities is to be established between the participants.

The different emphasis on the appropriateness and compatibility of the new projects to the existing context from the point of view of the participating universities offers an essential field of research for the Spring Academy in Dortmund. Another focus will be on the comparative analysis and evaluation of different forms of architectural design and their technical mediation by the participating European universities.

The International Spring Academy is performed in English, but also in German, Dutch and Italian.

The results of the Academy will be published in a publication.

The internationality and extraordinary offer of the TU Dortmund University are made public throughout Europe by these events.

The networks and contacts that emerge from these events for the next generation of scientists influence career paths sustainably.

International Spring Academy

apl. Prof. Olaf Schmidt | apl. Prof. Michael Schwarz

## 2. Conversion

An industrial area, an inaccessible space in the memory of the city, a kind of terra incognita, will be transformed in the near future.

In recent years, the term “Conversion” predominantly means changes of military areas mostly located on the outskirts of the city. The focus of this year’s International Spring Academy with the same title “Conversion” lies, in contrast, on a whole industrial area next to the city center, in a really urban situation.

Insofar, the subsequent or new use of military areas is a phenomenon that is typical for almost all of Germany, representing a regular reason for urban-architectural investigations and implementations, the comparable task for large areas of industrial pre-use is typically located in industrial regions – insofar an international, a European phenomenon. With the same international bases and prerequisites, natural resources and techniques as well as processes and technologies and their - logically following - architectural form, they are causally less contextualized than other districts, other neighborhoods of the cities. Rather, they can be read as purposeful, self-referential and logistical and process-related places.

Are they part of the city? Have they been part of the city? Can they become neighborhoods of the city by simply removing the physical and factual boundaries? Should they not be rethought, reconceived or redesigned?

If we note this, we ask for a mimetic embedding of newly acquired areas in the surrounding city, after - possibly partial - reuse of the existing substance or for a new solitary world? Do we ask for an interpretation, a synthesis of both approaches, which in turn searches for a specific identity and its design, or for an assimilating continuation of the findable qualities of the neighborhoods?

The concretization of this generally accepted task is carried out in the middle of Dortmund, a few hundred meters from the heart of the city. The site of the former “Hoesch-Spundwandwerke” with a, for the region of the Ruhr area typical and in the literal sense authoritative mountain-industrial use is the subject of the International Spring Academy 2020.

In the previous spring academies, the topics „Die B1“, „Der Wall“, „Der Hellweg“, „Stadtplätze“, „Nordstadt-Modelle“, „Stadt-Brachen“ and „Nachverdichtung“ were the subjects of urban planning and architectural studies. In the workshop, the teams of international students made their own proposals, their own conceptual designs for possible interventions. This 8th academy now is dedicated to an area of the city, which is in close proximity, vis-a-vis the Union Quarter, its “Gründer-Zeit” block structure and reshaped edges.

Based on the analytical examination of the study area, which surrounds the actual planning area, it is important to find answers to these universally formulated questions in the context of the International Spring Academy 2020 and to respond in an appropriate urban planning and architectural manner.

The specific location is separated from the inner city in the west and from the formerly independent district Dorstfeld in the east by traffic routes of different dimension and altitude. These facts form as important boundary conditions as the „landscape space“ of the Ruhr area following in the northern part. The “Rheinische Strasse” and the neighbourhoods in the south, with their current character and expression, have to be included in the appraisal as well as in the formulation of responses, for redeveloping a new urban and dense city on the old industrial site.

### **3. Participation requirements - Recognition**

In addition to the participating universities, the Technical University Eindhoven, the FH Potsdam and the University of Naples, the „International Spring Academy 2020“ is aimed at students of the bachelor and master degree program Architecture at the TU Dortmund.

For the students of the TU Dortmund the task is divided into two parts:

1. During the lecture period of the winter semester, the preparatory seminar takes place at the Department of International Spring Academy.
2. The international workshop will take place from 24th February to 4th March 2020 in the premises of the Baukunstarchiv NRW.

#### **Recognition in the course of studies at the TU Dortmund according to the elective modules in the Bachelor's and Master's programs:**

##### **Preparatory seminar WS 2019/2020**

Recognition as a voting certificate

„International Spring Academy 2020“ - Seminar

##### **Workshop 24.02. - 04.03.2020**

Recognition as a voting certificate

„International Spring Academy 2020“ - Workshop

or

Recognition as a voting certificate

„Analysis of the city“

##### **Registration**

Students wishing to attend the Spring Academy must register on the day of the issue, Tuesday 08.10.2019, 14:00, in Room 214, in the available lists.

In addition, it is necessary to register in the BOSS system - this is binding under examination law!

Downloads are provided in „Moodle“.

##### **Correction groups**

The classification of the correction groups is announced by the teaching area. The participation of all students in the corrections and meetings is obligatory.



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## 4. Preparatory seminar

### Task

#### 1. „Good places, bad places“

In this first step, every student should use the camera to explore the planning area and adjacent areas.

The corresponding overview plan is provided in Moodle.

The task is initially to approach the designated area from a very subjective point of view.

The following exemplary questions should be considered:

Which structural qualities do you find?

Which spatial qualities do you find?

What is interesting?

What is characteristic?

What is unique?

What is beautiful?

The first aesthetic reaction should take the form of a photo collection.

Each participant should present a selection of five black and white photos of „good places“ and „bad places“.

Formal requirement for delivery:

Format DIN A3, lying, in a DIN A3 folder,

digital data transfer via data stick



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## 2. Atlas

Analysis and documentation of the planning area in the form of black and white photos and drawings. The participants are divided into four groups with the following tasks and create a group work for each group.

### Group 1, History

- Presentation of the development of the area by comparison of historical and current photos, from the same location.
- Graphic representation of the development of the designated area at various relevant times to date, in the form of individual black plans S 1:5000/ 1: 2000
- graphic superimposition of the elaborated, historical black plans with the black plan of today's development in meaningful coloring (in gray or in black)
- graphic representation of the existing block, house and facade typologies along the Rheinische Straße between Neue Radstraße and Dorstfelder Allee
- Overview of block, house and facade typologies, based on short descriptions, floor plans, sections and views

Formal requirement for delivery:

Format A3, lying, in a DIN A3 group folder,  
digital data transfer via data stick



2016



1938-2016

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## Group 2, Analysis of the current locations of the University of Applied Sciences

- Graphic representation of the sites in the city plan on an appropriate scale
- Graphic representation of the existing buildings of the individual faculties in appropriate scale (floor plans, sections, views ...)

Formal requirement for delivery:

Format A3, lying, in a DIN A3 group folder,  
digital data transfer via data stick



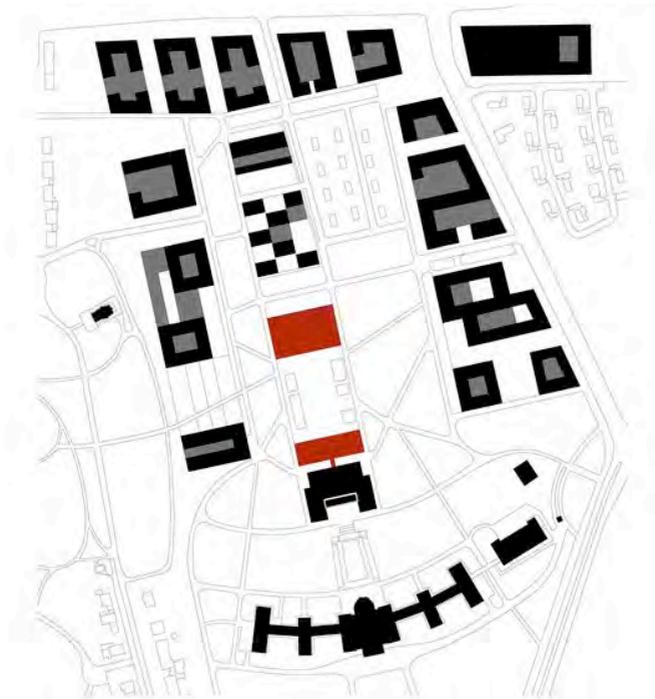
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Task

### Group 3, Analysis of exemplary campus universities

- Graphic representation in form of site plans, floor plans, sections, views, isometries, perspectives ... in appropriate scales
- Presentation of different concepts of campus universities in form of a short presentation with graphics (pictures and drawings, depending on the concept)
- Formal requirement for submission:  
Format A3, lying, in a DIN A3 group folder,  
digital data transfer via data stick



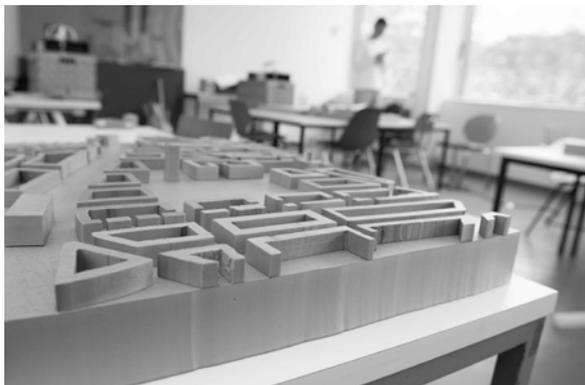
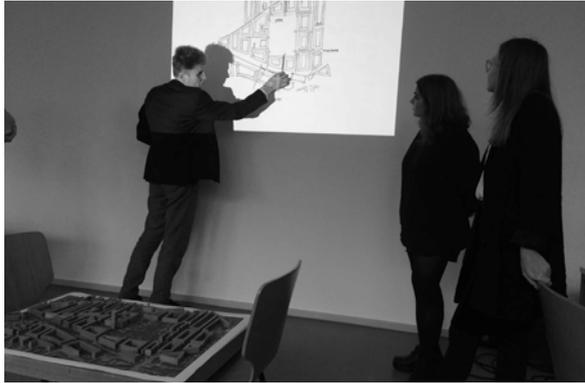
TU Dortmund  
International Spring Academy



#### Group 4, model construction

- Physical model S 1: 500, as a mass model, wood, in the model workshop
  - Preparation of the necessary plan and photographic basis for the model construction
  - Organization of division of labor
- Formal requirement for submission:  
digital data transfer of preliminary work by means of data stick  
physical model





## Program preparatory seminar

Tuesday	08.10.2019, 14:00 h	Issue of the task/ registration
Tuesday	15.10.2019, 14:00 h	01. Correction „Good places, bad places“
Tuesday	22.10.2019, 14:00 h	02. Correction „Good places, bad places“
Tuesday	29.10.2019, 14:00 h	01. Correction „Atlas“
Tuesdays	05.11.2019, 14:00 h 07.01.2019, 14:00 h	ongoing corrections „Atlas“
Tuesday	21.01.2019, 14:00 h	11. Correction „Atlas“
Tuesday	28.01.2019, 14:00 h	Final Colloquium Submission of the works

**Venue preparatory seminar:**

TU Dortmund

Faculty of Architecture and Civil Engineering

International Spring Academy, Faculty boardroom, GB II, EG

August-Schmidt-Straße 8

44227 Dortmund

Phone 0231 | 755 5310 | 5312

fa.bauwesen@tu-dortmund.de

**General requirement for delivery:**

On the day of the final colloquium the work will be presented and discussed together.

The submission takes place a week later in printed and digital form or as a model to allow final corrections of the layout.

The return:

Department of International Spring Academy

Campus South, GB II, Room 214

## **5. Workshop**

### **Task**

#### **Intervention / Reaction**

3 - 4 students from different universities form a group that jointly develops an urban planning and architectural concept for the designated planning area. The draft should be presented in the form of before-after investigations.

The quality of the design idea is proved by

- Black plan, S 1: 5000/ 1:2000/ 1:1000
- Site plan, S 1:1000/ 1:500
- Isometry S 1: 500
- Sections S 1: 500/ 1:200
- further partial sections according to concept

An analysis, especially in the abstract formulation as a reference, should form the basis for the conceptual design.

The form of the before-after should support the creative search for concepts:

The aim is to develop a vibrant urban district with an appropriate urban density and an urban mixed use, which of course creates the urban transition to the adjoining historic residential areas and at the same time reacts structurally appropriately to the transitions to adjacent rooms.

#### **General requirement for delivery:**

One week after the final colloquium the students of the TU Dortmund will hand over the o.a. required group work on

Department of International Spring Academy, GB II, Room 214, stating from

- Task
- Name and
- Matr. No.

in printed form and digital data transfer via data stick.



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## Program of the Workshop

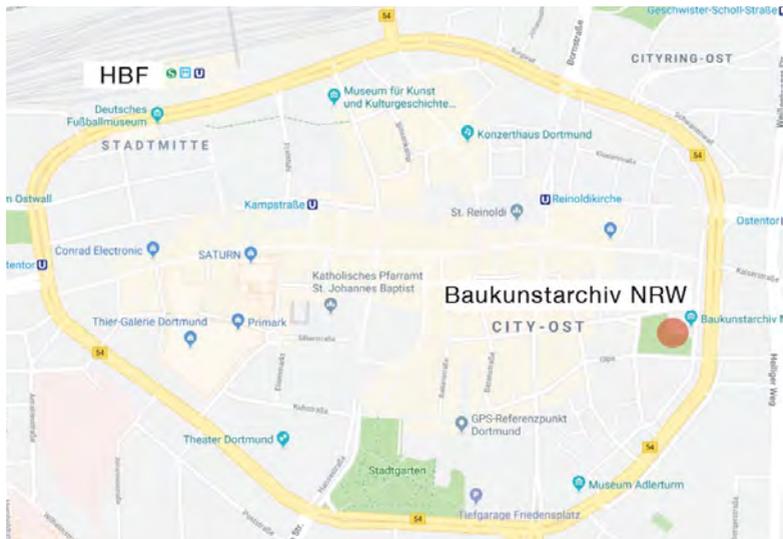
Monday	24.02.2020	Launch event 09:30 h Greeting 11.00 h Presentations 12.30 h Lunch 14:00 h Presentations 18:00 h Aperó
Tuesday	25.02.2020	08:30 h Organisation, Groups 09:30 h Work in the seminar
Wednesday	26.02.2020	08:30 h Work in the seminar
Thursday	27.02.2020	08:30 h Work in the seminar 15:00 h Inbetween critic 18:15 h Lecture Prof. Neumeyer 20:00 h Apéro
Friday	28.02.2020	07:00 h Excursion
Saturday	29.02.2020	08:30 h Work in the seminar
Sunday	01.03.2020	08:30 h Work in the seminar
Monday	02.03.2020	08:30 h Work in the seminar
Tuesday	03.03.2020	08:30 h Work in the seminar
Wednesday	04.03.2020	09:00 h Preparation presentation 11:00 h Final critic 14:00 h End of the Workshop
Tuesday	10.03.2020	Submission of the works at the Department of International Spring Academy

## Venue of the Workshop

### Baukunstarchiv NRW

Ostwall 7

44135 Dortmund



## **Organization of the Workshop**

### **Organizer**

#### **TU Dortmund**

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olaf.schmidt@tu-dortmund.de

apl. Prof. Michael Schwarz

michael.schwarz@tu-dortmund.de

Dipl.-Ing. Arch. Michaela Mensing-Schmidt

michaela.mensing-schmidt@tu-dortmund.de

### **Participating Universities**

#### **Technische Universiteit Eindhoven**

Prof. Christian Rapp

c.rapp@bwk.tue.nl

Ass. Prof. Urban Architecture Haïke Apelt

h.apelt@tue.nl

#### **University of Applied Sciences Potsdam**

Prof. Dr. Silvia Malcovati

malcovati@fh-potsdam.de

#### **Università degli Studi di Napoli Federico II**

Prof. Federica Visconti

federica.visconti@unina.it

Prof. Renato Capozzi

renato.capozzi@unina.it

## **Further contacts**

### **TU Dortmund**

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[jennifer.roesner@tu-dortmund.de](mailto:jennifer.roesner@tu-dortmund.de)

[fa.bauwesen@tu-dortmund.de](mailto:fa.bauwesen@tu-dortmund.de)

## Useful hints

### Drawing supplies in Dortmund

idee, Creativmarkt  
Westenhellweg 91, 44137 Dortmund  
<http://www.idee-shop.de/shop/de/Filialen/Dortmund>

TU Dortmund, Faculty of Architecture and Civil Engineering  
Student Council Architecture, Campus South  
August-Schmidt-Straße 8, 44227 Dortmund  
GB II, Groundfloor

### Copy in Dortmund

TU Dortmund, Faculty of Architecture and Civil Engineering  
Student Council Architecture, Campus South  
August-Schmidt-Straße 8, 44227 Dortmund, GBII, Penthouse

Copy Shop, TU Dortmund, AStA, Campus Nord  
Emil-Figge-Straße 50, 44221 Dortmund  
<http://www.asta.uni-dortmund.de/kontakt/>

Unser Kopierladen  
Pro Büro & Kopier / Uni-Center, Campus Nord  
Vogelpothsweg 74, 44227 Dortmund

Pro Büro & Kopier GmbH  
Lindemannstraße 50, 44139 Dortmund  
<http://www.probuero-gmbh.de/standorte/shopList/Dortmund>

Copier Center  
Schwanenwall 8, 44135 Dortmund  
<http://www.copiercenter-dortmund.de>

## Libraries in Dortmund

TU Dortmund Bereichsbibliothek  
Architecture and Civil Engineering, Campus South  
August-Schmidt-Str. 6, 44227 Dortmund  
Geschossbau I, Room 201

TU Dortmund, Central library, Campus North  
Vogelpothsweg 76, 44227 Dortmund

City and State Library  
Max-von-der-Grün-Platz 1-3, 44137 Dortmund

## Refectories of the TU Dortmund

TU Dortmund, Main refectory  
Campus Nord, Vogelpothsweg 85, 44227 Dortmund

TU Dortmund, Refectory South and Archeteria  
Campus Süd, August-Schmidt-Straße 2, 44227 Dortmund

[http://www.tu-dortmund.de/uni/Uni/Campusleben/  
die\\_Mensen/index.html](http://www.tu-dortmund.de/uni/Uni/Campusleben/die_Mensen/index.html)

## 6. Sources of information

### Literature

#### on urban planning:

The History of the City  
Benevolo, Leonardo  
MIT Press Canbridge  
ISBN: 978-0262021463

Die Stadt im 20. Jahrhundert  
Visionen, Entwürfe, Gebautes  
Lampugnani, Vittorio Magnago  
ISBN 978-3-8031-3633-6

Erwin Gutkind  
1886-1968  
Architektur als Stadtraumkunst  
ISBN:3-7643-2689-1

Stadtraum  
Krier, Rob  
Karl Krämer Verlag  
ISBN: 9783937954059

Collage City  
Rowe Collin / Koetter, Fred  
Birkhäuser  
ISBN: 978-0262680424

Der Städtebau nach seinen künstlerischen Grundsätzen  
Sitte, Camillo  
Birkhäuser  
ISBN: 978-3764366926

Die Thematisierung der Architektur  
Ungers, Oswald Mathias  
DVA  
ISBN: 9783721206982

TU Dortmund  
International Spring Academy

Die Architektur der Stadt: Skizzen zu einer grundlegenden Theorie des  
Urbanen  
Bauwelt Fundamente, Band 41  
Aldo Rossi  
ISBN: 3035600449

**about Dortmund:**

Großstadt Gestalten. Stadtbaumeister an Rhein und Ruhr  
Jäger, Markus; Sonne, Wolfgang  
DOM publishers  
ISBN: 978-3-86922-536-4

Architektenführer Dortmund  
Wörner, Norbert ; Magoley, Hans  
Ruhfus, 1984  
ISBN: 9783793250128

Neue Stadtbaukunst Dortmund  
Delfs, Wilhelm  
1.Auflage 1928/ 2.Auflage 2000  
ISBN: 3875191617

Die goldenen 1920er Jahre  
Bauten der Weimarer Republik in Dortmund  
Peter Kroos und der Bund Deutscher Architekten  
ISBN: 978-3-86206-223-2

Die Geschichte der Stadt Dortmund  
Stadtarchiv Dortmund  
Harenberg Verlag  
ISBN: 3-611-00397-2

Dortmund so wie es war  
Schilp, Thomas ; Zupancic, Andrea  
Droste Verlag  
ISBN: 9783770014248

## Literature

### **about Dortmund:**

Architektur der 1960er und 70er Jahre  
Qualitäten einer ungeliebten Baukunst in Dortmund  
Kroos Peter, BDA Dortmund  
ISBN: 978-3837501278

Erinnerungen an Dortmund, 1920 - 1945  
Neuhoff Karl  
Krüger Verlag Dortmund  
ASIN: B002OL966C

Dortmund, Bilder und Worte über Sein und Werden der Stadt  
Strobel, Hans  
Verlag Krüger  
Antiquariat von 1920

Wohnen im Revier, 99 Beispiele aus Dortmund  
Franziska Bollerey und Christina Hartmann  
ISBN: 3-7879-00837

## Internet

[http://www.dortmund.de/de/leben\\_in\\_dortmund/stadtportraet/stadtgeschichte/startseite\\_stg/index.html](http://www.dortmund.de/de/leben_in_dortmund/stadtportraet/stadtgeschichte/startseite_stg/index.html)

<http://www.lokalkompass.de/dortmund-city/politik/dortmunder-haben-viele-ideen-fuer-ihre-city-2030-d401090.html>

<http://www.luftbilder.geoportal.ruhr/>

<http://www.metropoleruhr.de>

<http://www.nrw-architekturdatenbank.tu-dortmund.de/kontakt.html>

<http://www.staedtereion-ruhr-2030.de/cms/index.php>

<http://www.ruhrnachrichten.de/staedte/dortmund/44137-Dortmund~bilder/cme176740,5247853>

<http://architekturmuseum.ub.tu-berlin.de/index.php?p=79&Daten=150194>

## 7. Attachment

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### Remark:

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