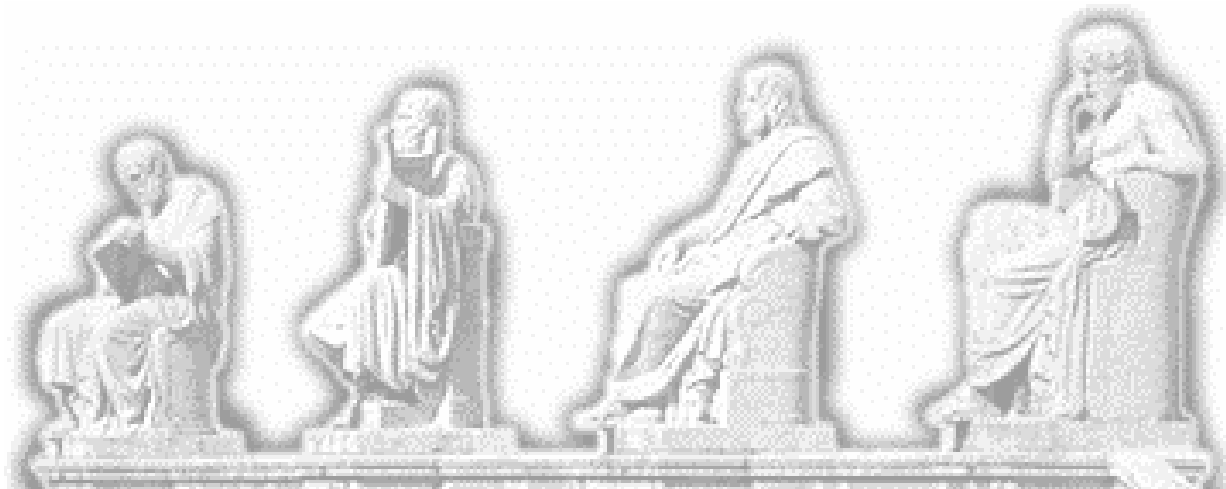


# Digital times, but libraries running out of space: New library constructions and storage solutions in Germany and Bavaria

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Klaus Kempf, Bayerische Staatsbibliothek



## Introduction

- Overflowing stacks – Libraries running out of space
- Books and digital media under one roof – Construction Challenges of the "Hybrid library"

## Overview

- 1. Chapter: Introductory remarks
- 2. Chapter: Survey of remarkable new buildings and reconstructions in the former East German Territory
- 3. Chapter: National and Regional Storage solutions

## Characteristics of the German Academic Library System

- Libraries are primarily publicly funded
- "Virtual National Library"
- Regional Library Networks
- National Network of Special Subject Collections

### III. Modern Library buildings - examples from the new states of Germany

1. The Initial Situation
2. A New Beginning with Reunification
3. Prominent examples
  - University Library at Leipzig
  - Saxon State Library-  
National and University Library of Dresden
  - University Library at Magdeburg

## 1. The Initial Situation



Ruins in Dresden, 1945

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Seite 6

# 1. The Initial Situation

## Year of Construction of University Library Buildings:

### **New Federal States ( East ) :**

50 % built before 1990

25 % built between 1900 and 1945

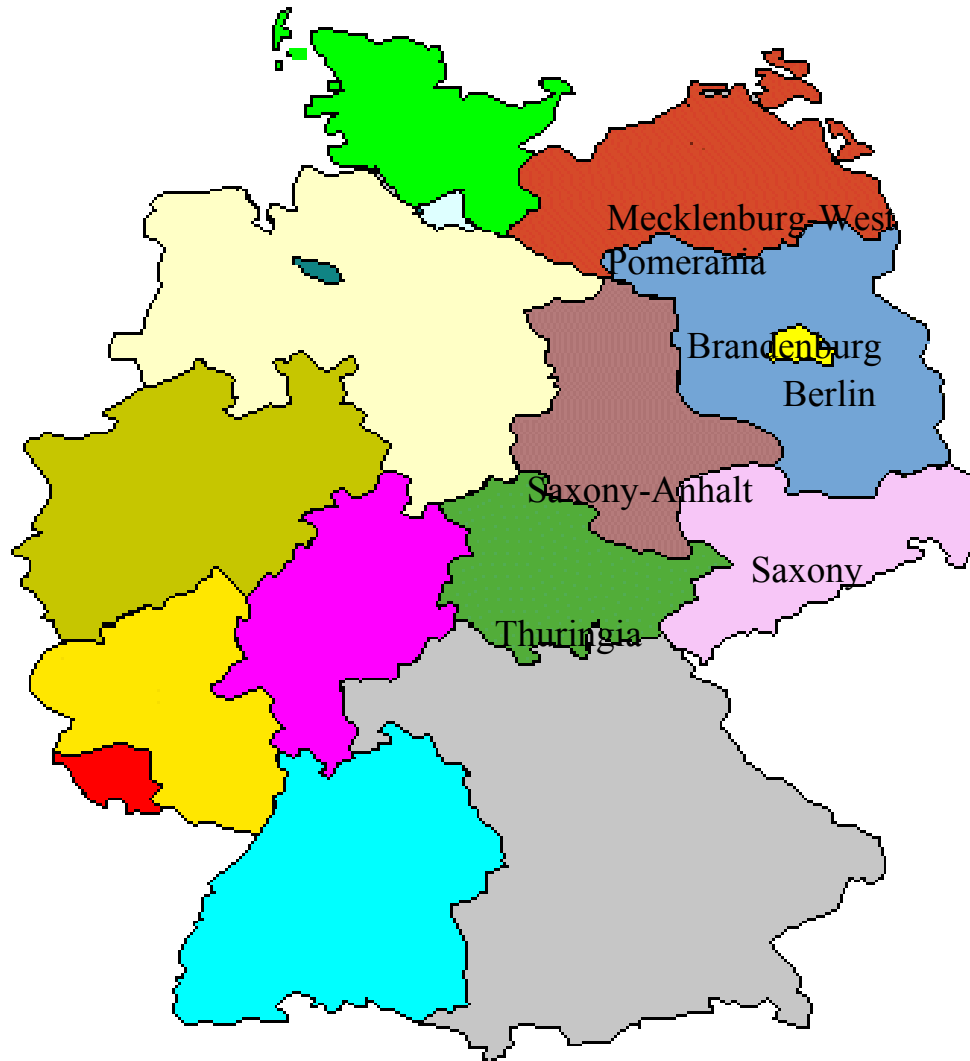
25 % built after 1950

### **Old Federal States ( West ) :**

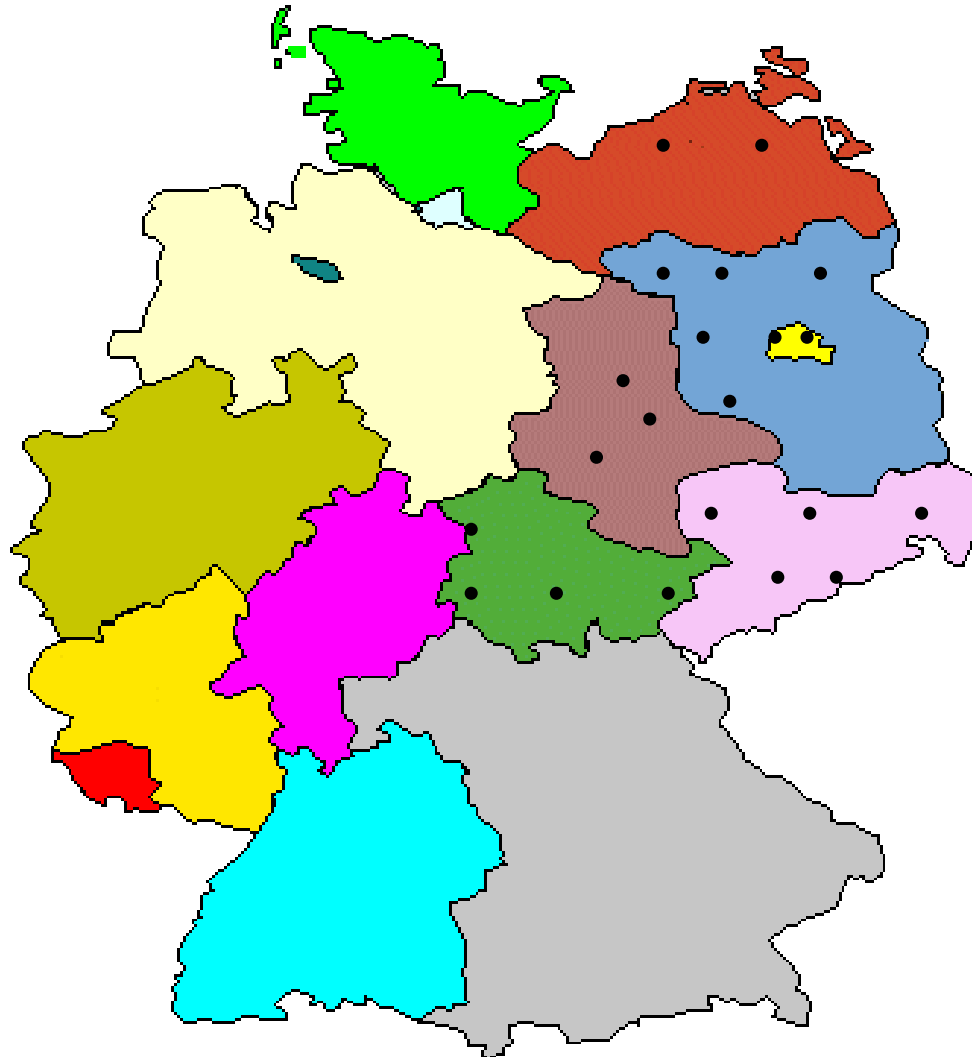
10 % built before 1949

90 % built after 1950

## 2. A New Beginning with Reunification



## 2. A New Beginning with Reunification



### 3. Prominent Examples



University Library at Leipzig  
„A Modern Library in an Old Building“

Basic data on the Library 2000:

Collection

total volumes	4,828,239
Current periodical titles	8,697

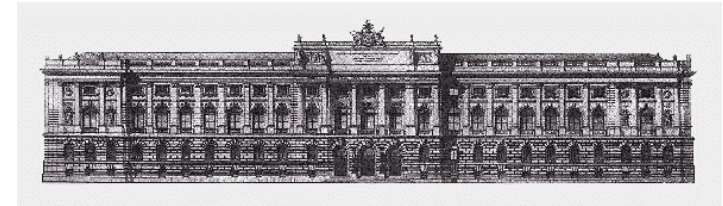
Budget for Literature incl.binding

(DM): 7,441,775

Lending and reference Library:

number of Libraries	43
number of Users	42,407
number of Students	23,035
number of volumes loaned	832,446
Days open annually	292
Hours open weekly	79

Personnel (Positions): 170

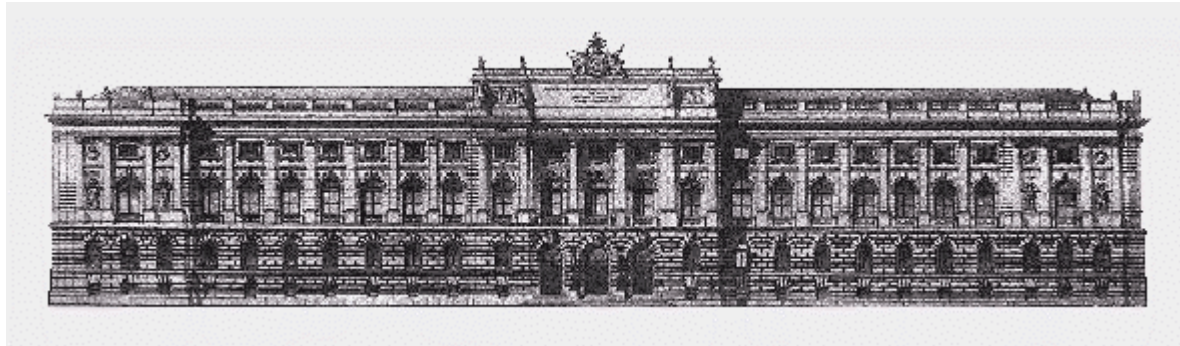




# „A Stairwell reborn“



The University Library at Leipzig



monumental stairwell

## The Restoration:

University Library of Leipzig - rebuilding

The outer and inner rebuilding of the University Library of Leipzig

### **UB Leipzig - Wiederaufbau**

Gaudia Täschner, Ekkehard Henschke: Der äußere und innere Wiederaufbau der Universitätsbibliothek Leipzig

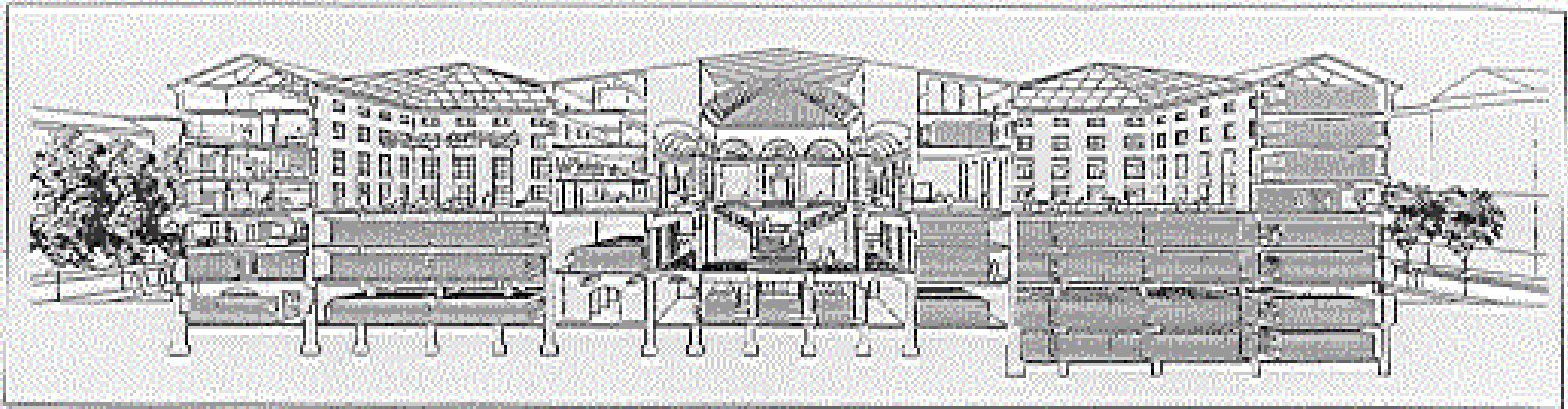


Abbildung 9: Planung Wiederaufbau der UB durch HJW & Partner, Schnittperspektive

The planning of the rebuilding of the Library by HJW & Partner,  
sectional perspective

The restoration and modernization since 1990:



Reading room

The restoration and modernization since 1990:



Seats for reading

The restoration and modernization since 1990:



Open shelves

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stackroom

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Seite 18

The restoration and modernization since 1990:



Central issue desks

## SLUL Dresden- „Underground Book Cathedral“

### Basic data on the Library 2000:

#### Collection :

total volumes	4,224,536
Current periodical titles	13,995

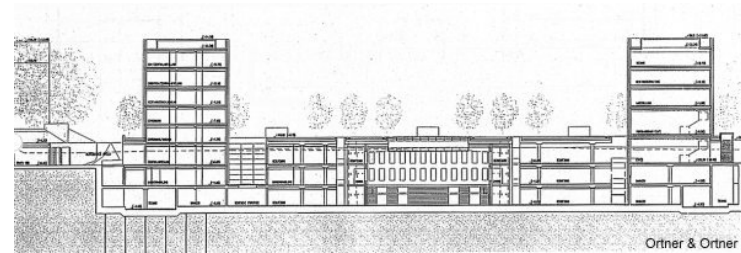
#### Budget for literature incl. binding

(DM): 12,181,359

#### Lending and reference Library:

number of Libraries	16
number of Users	55,761
number of students	27,320
number of volumes loaned	1,738,955
Days open annually	300
Hours open weekly	68

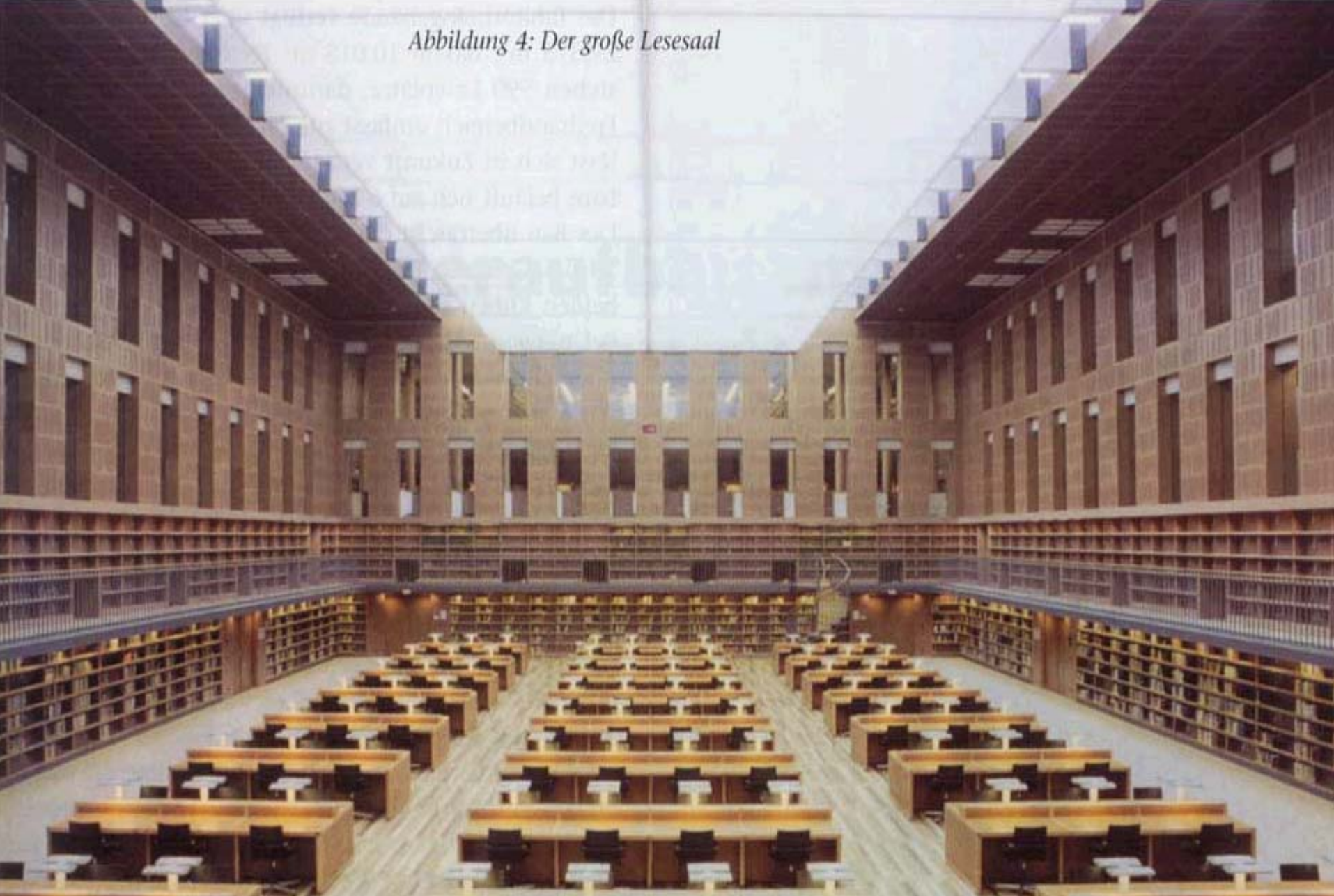
Personnel (Positions) : 405



## New building of the SLUB Dresden



Abbildung 4: Der große Lesesaal



## Technical data on the new building

### Architects:

Ortner & Ortner Baukunst, Vienna/Berlin

Main area of use: roughly 323,000 square feet

### Capacity:

Shelf space for a total of	4,350,000	volumes
including open access for	900,000	volumes
and stacks space for	3,450,000	volumes

Users Workspaces: 900

including PC-workspaces	125
Carrels	46
group workspaces	103



# University Library of Magdeburg - „ Ribbons of Folded Concrete as Educational Landscape“

## Basic data on the Library 2000:

### Collection:

total volumes	987.492
Current periodical titles	3.664

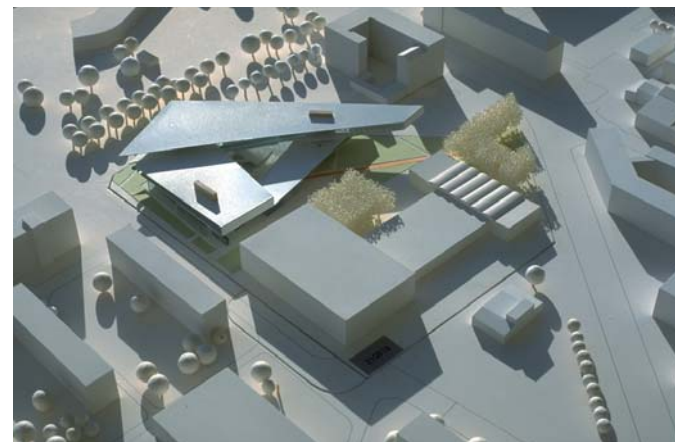
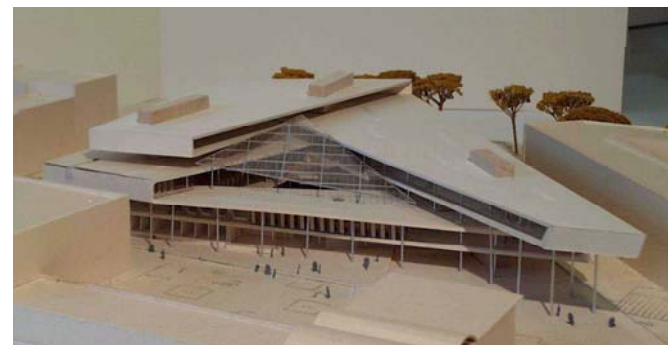
### Budget for literature incl. binding

(DM): 7.007.147

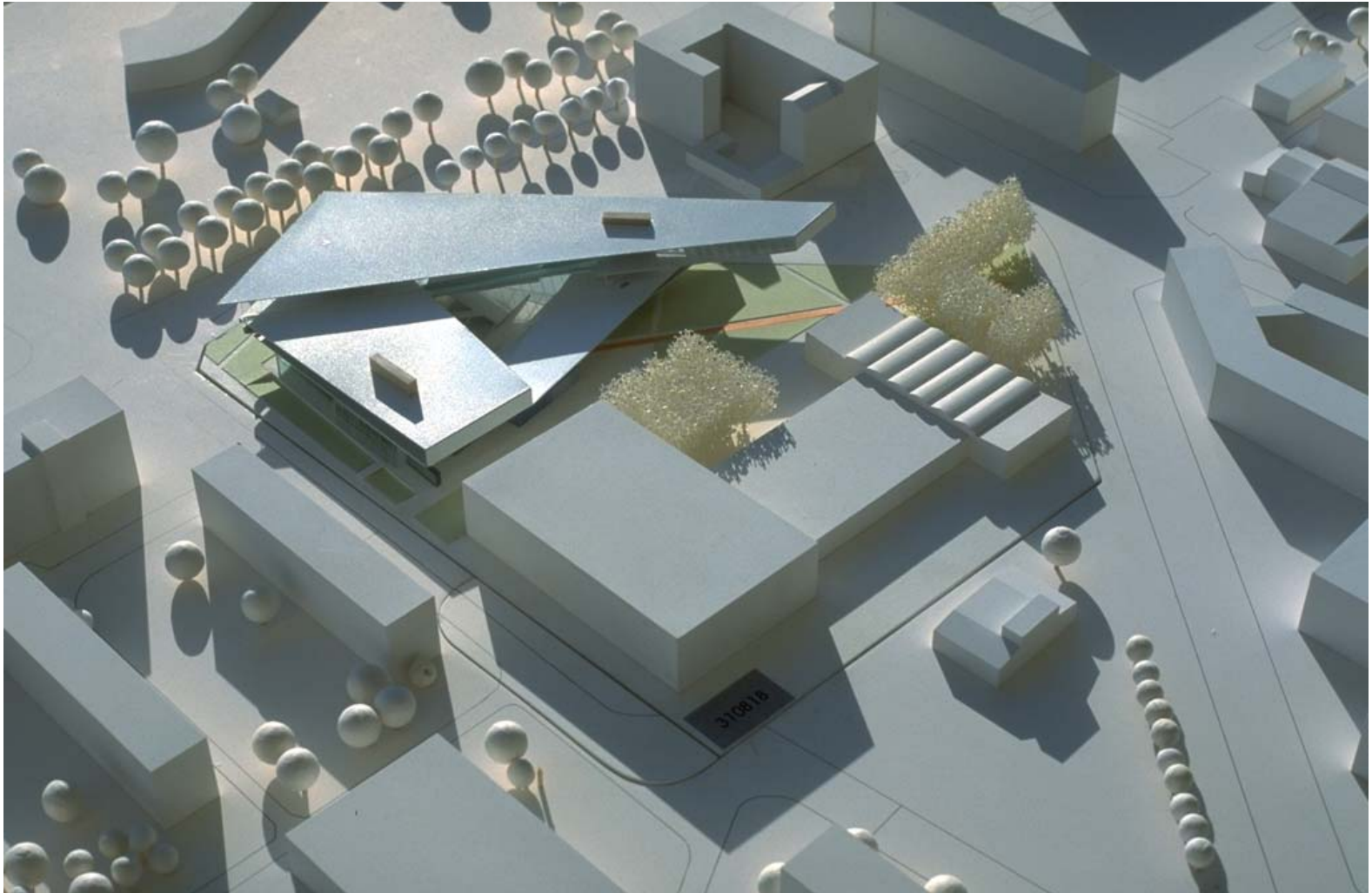
### Lending and reference Library:

number of Libraries	3
number of Users	20.007
number of students	8.408
number of volumes loaned	765.165
Days open annually	298
Hours open weekly	52

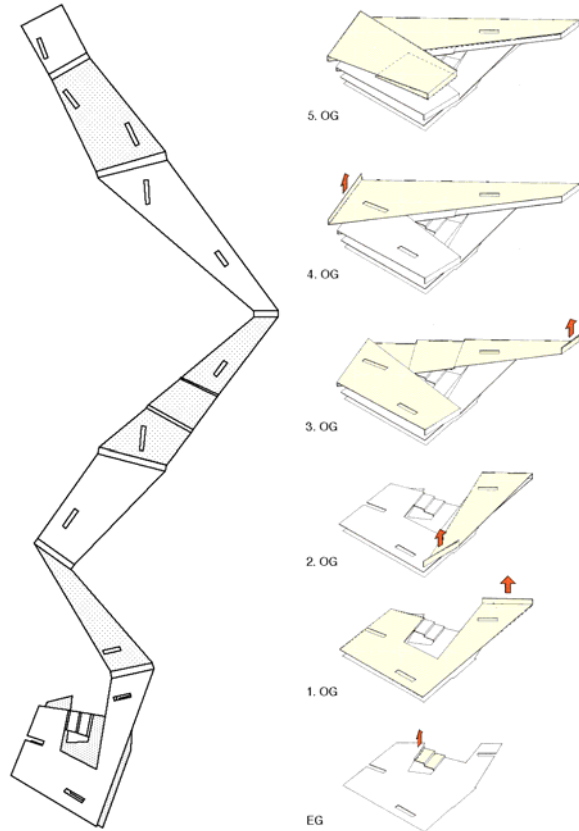
Personnel (Position): 80



Municipal architectural concept:



# Architectural concept



"Schnittbogen"

Faltung



## Storage solutions

### 1. Regulations of Archiving

- Legal Deposit Laws
- Special Collection Obligations
- Collection inherent reasons

## Storage solutions on a national level – The space situation of the DDB

- Frankfurt – The new building
- Leipzig – The planned reconstruction and extension of the existing building

## Storage solutions on a national level – The space situation of the DDB

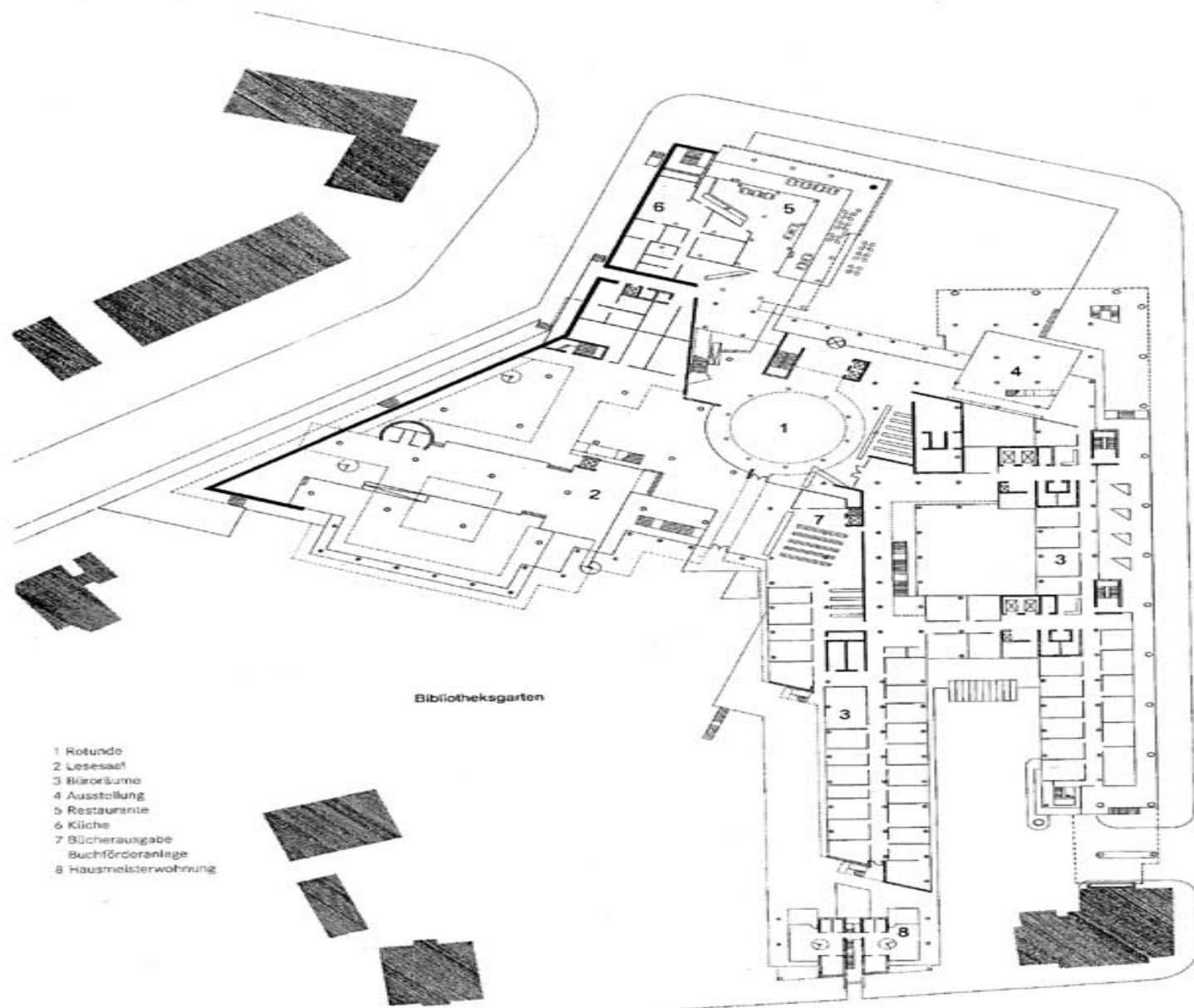


## Storage solutions on a national level - The space situation of the DDB

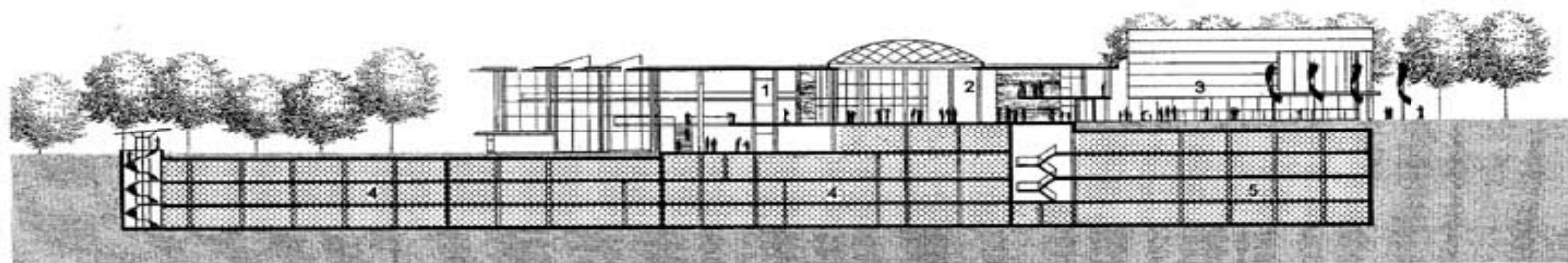


## Frankfurt – Basic construction figures

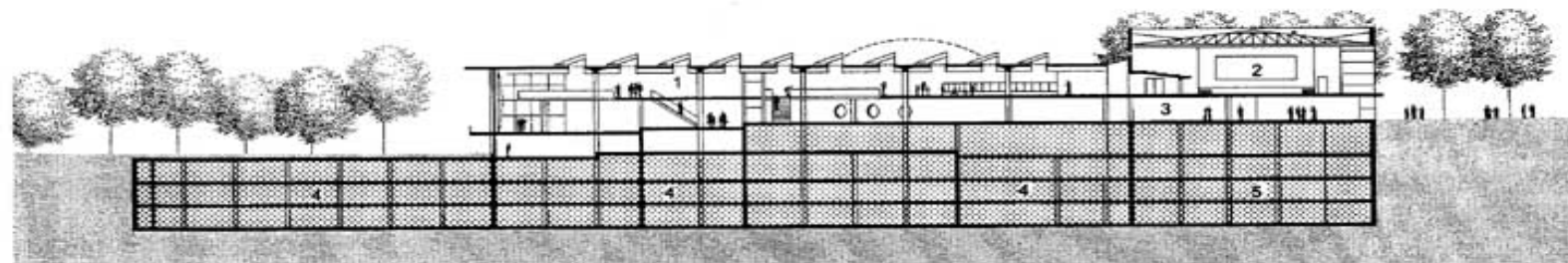
- 47.000 qm main usable space (shelves, user work places, staff rooms etc.)
- 30.000 qm shelf area distributed on 3 floors for 18 millionen volumes
- 10.000 qm underground car park usable as shelf area extension
- 3.200 qm main reading room with 350 user workplaces
- separate multimedia reading room
- conference center (520 qm and 400 places)
- cafeteria/restaurant
- comfortable staff offices



Längsschnitte



- 1 Lesesaal
- 2 Eingangsbereich
- 3 Vorplatz
- 4 Magazin
- 5 Tiefgarage



- 1 Lesesaal
- 2 Vortragssaal
- 3 Restaurant
- 4 Magazin
- 5 Tiefgarage













## Leipzig - Deutsche Bücherei



## Storage Solutions on a Regional Level

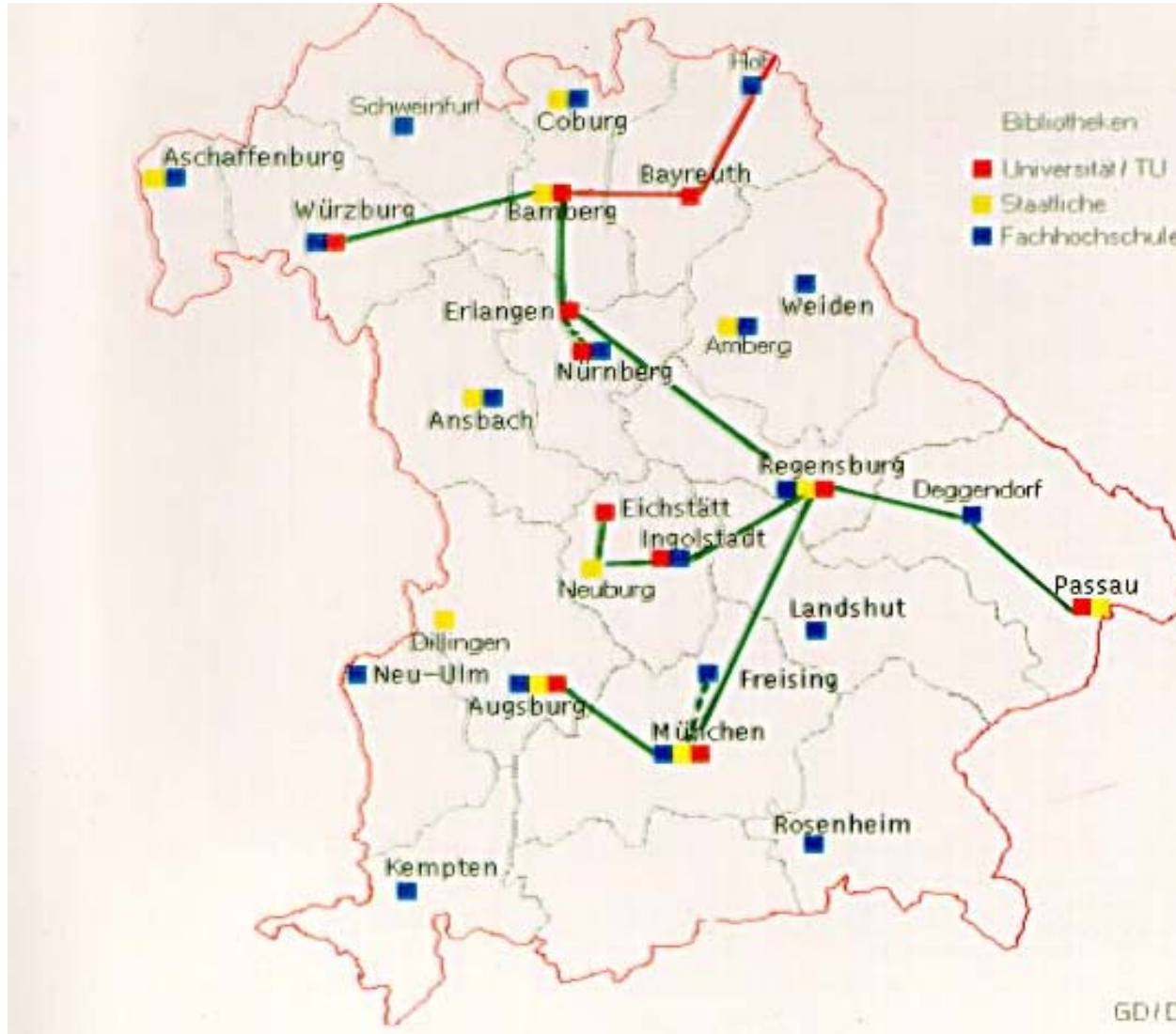
### The guidelines of the German Council of Science (Wissenschaftsrat)

- Regional Storage Concept
- Setting up of a "storage library"
- "Controlled Collection Development"
- Deacquisition Policy

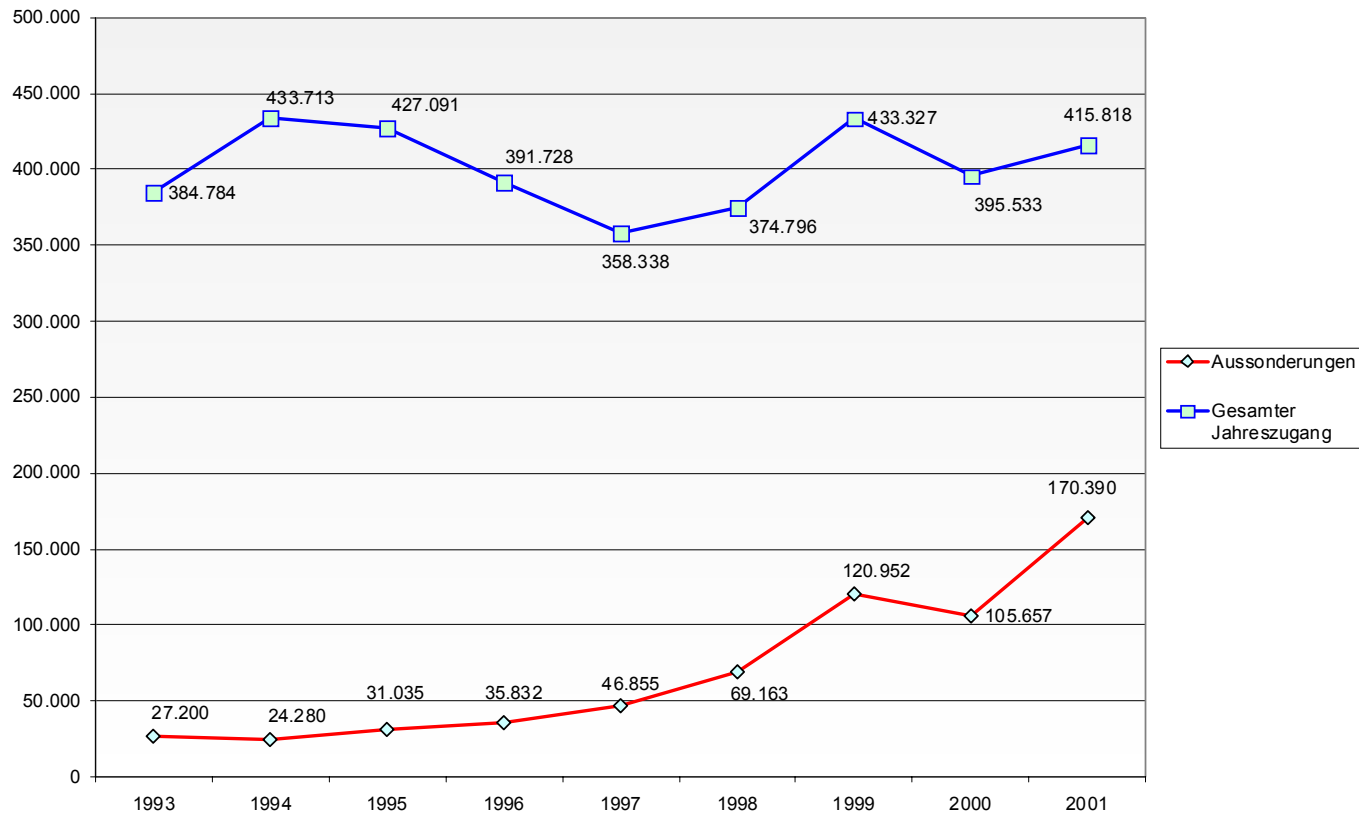
## The Case of Bavaria

- The Bavarian Library System – Structures and Characteristics with reference to the storage concept
- The Bavarian Archiving and Storage Concept
- The Storage Library at Garching
- The Regional „Stack Site“ at Regensburg

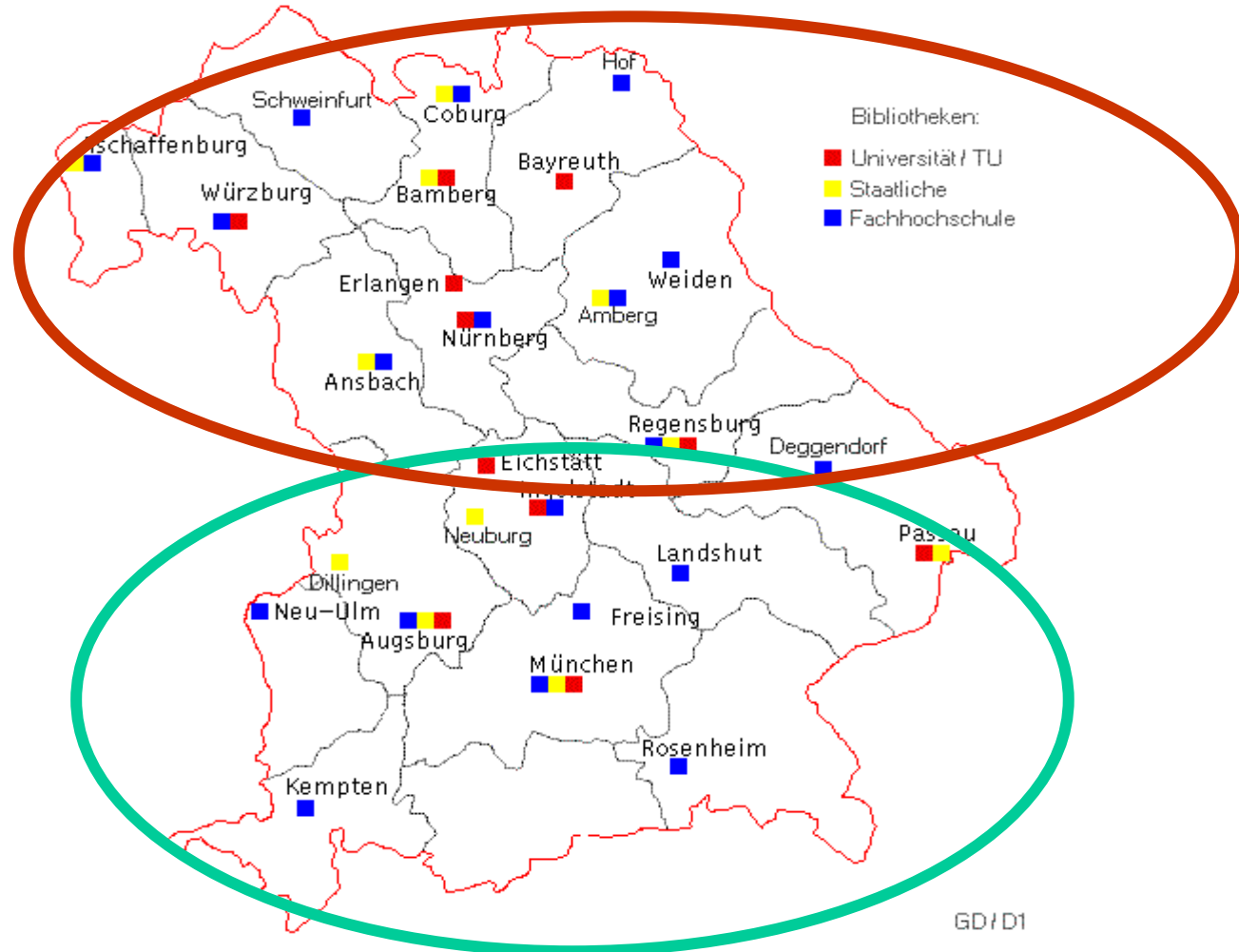
# Bavarian Book Transport System (BAB)



# Development of Deacquisition Figures in the Bavarian University Libraries



## Regional storage concept of Bavaria



## BSB – main building



## BSB – main building



## The Storage Library at München/Garching

- Space for 8 million volumes – realisation in 4 segments
- Finished first segment: 7.000 qm shelf area for 2.5 million volumes
- Four-storey building with optimized shelving
- Ideal book conservation conditions



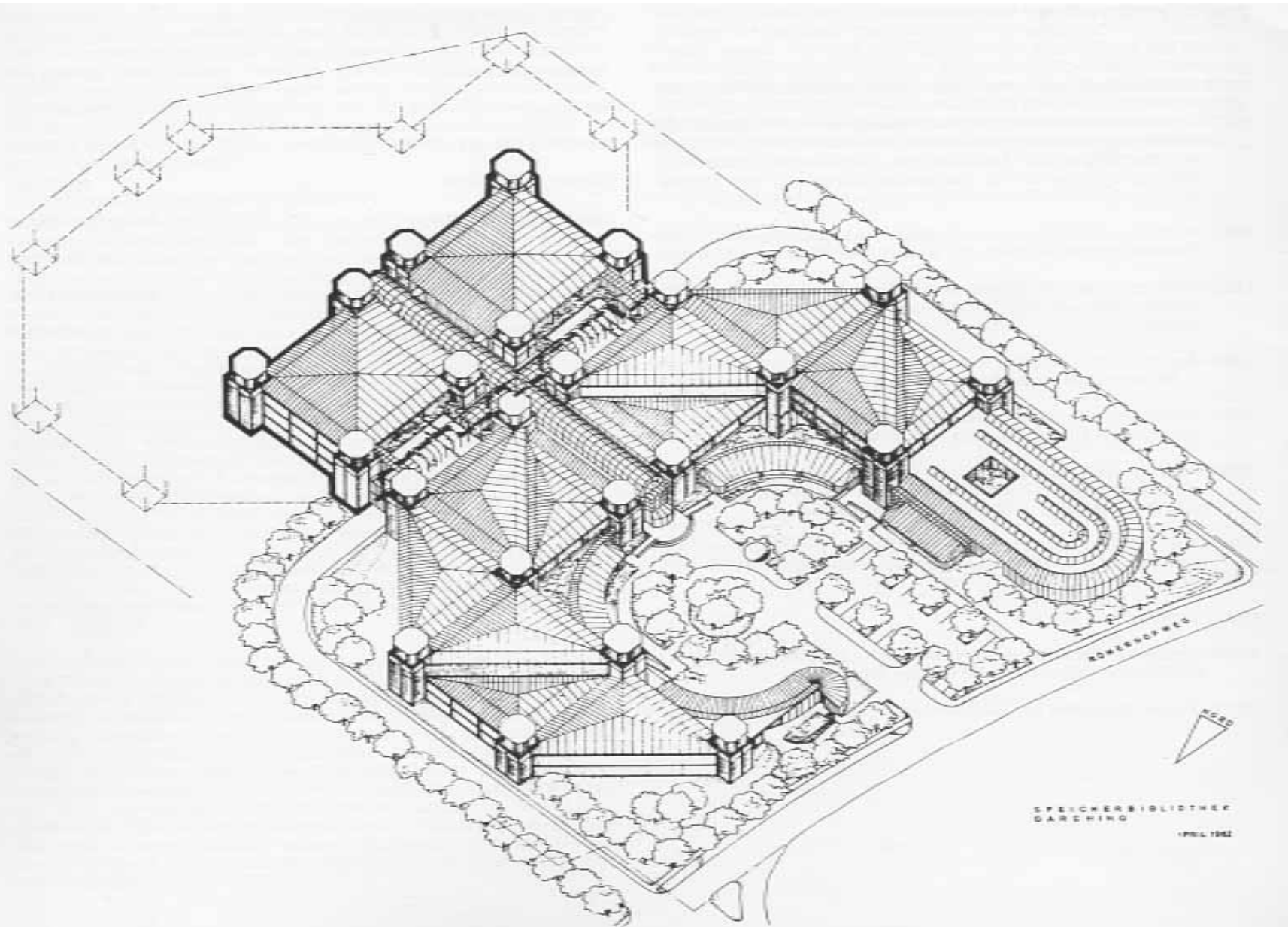
ANSICHT VON NORDWESTEN



TURMKRONE

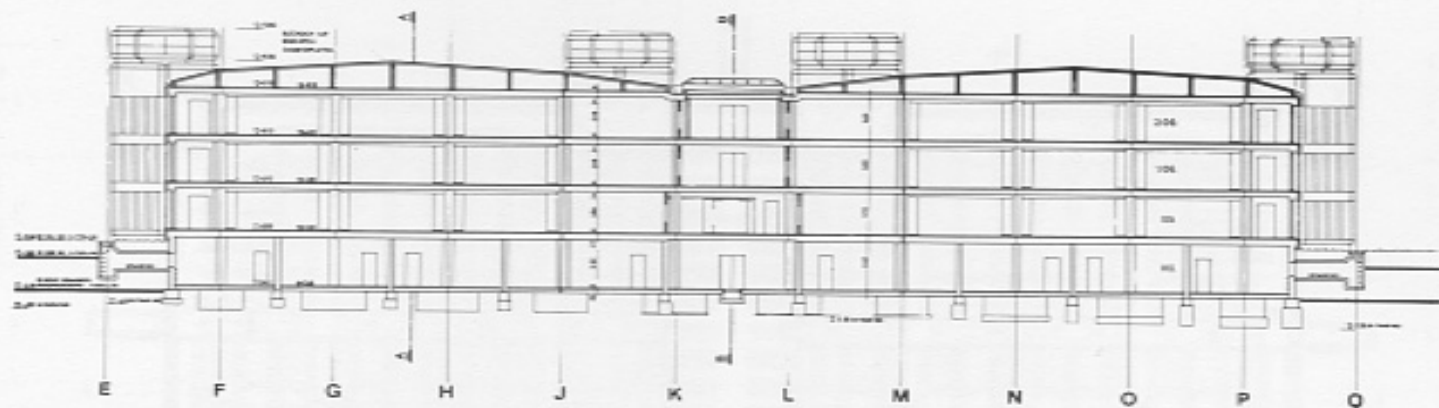


ANLIEFERUNG



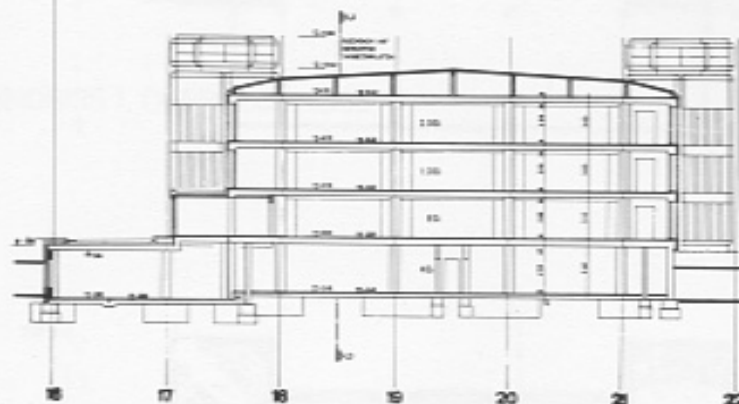
AXONOMETRIE MIT WEITEREN BAUABSCHNITTEN

SNITT C-C



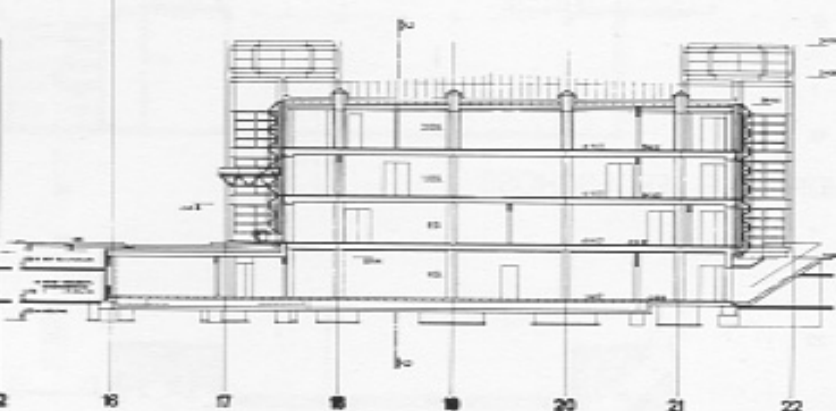
LÄNGSSCHNITT DURCH MAGAZINRÄUME

SNITT A-A

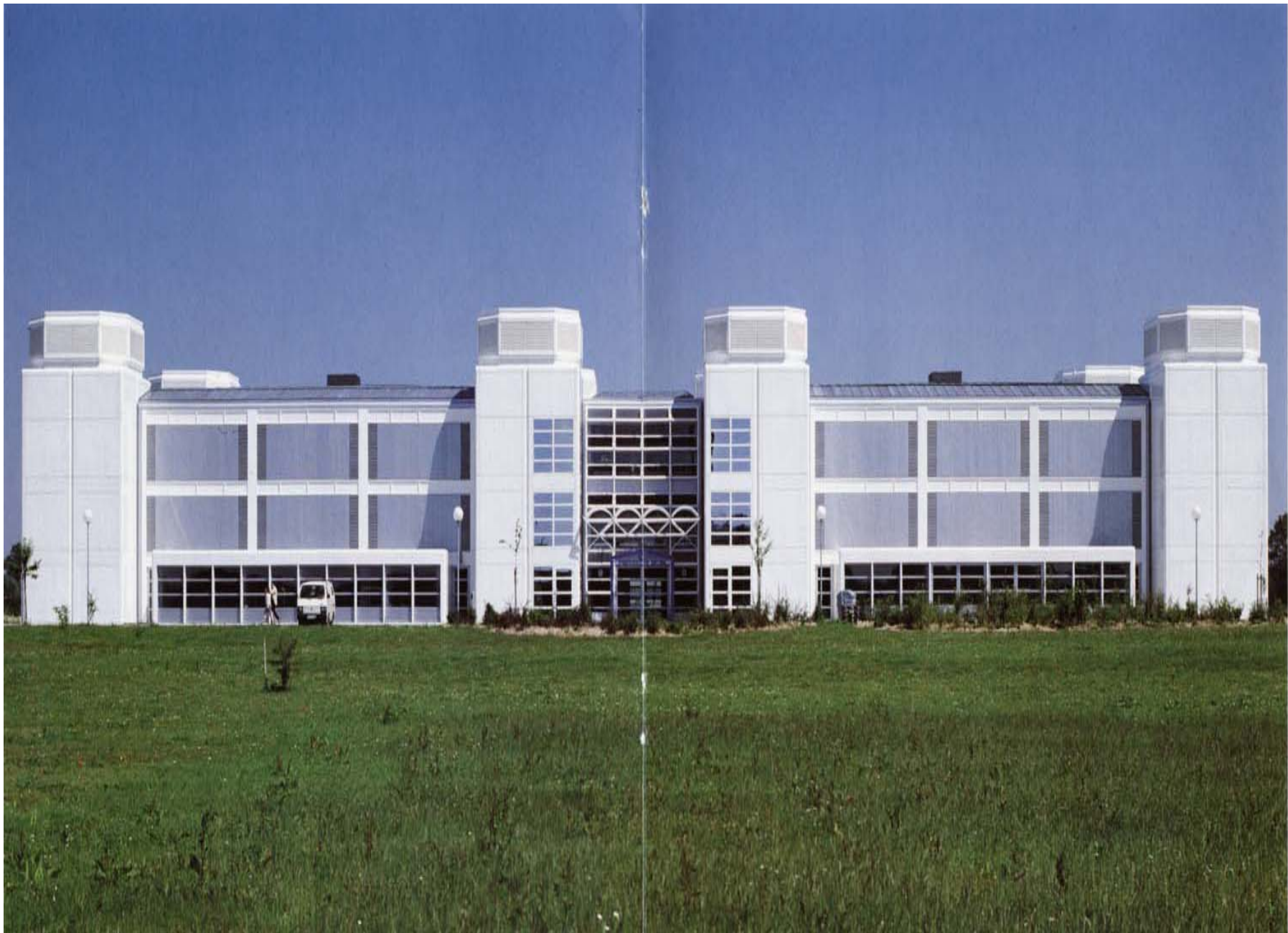


QUERSCHNITT DURCH MAGAZINRÄUME

SNITT B-B



QUERSCHNITT DURCH MITTELZONE





REGALANLAGE

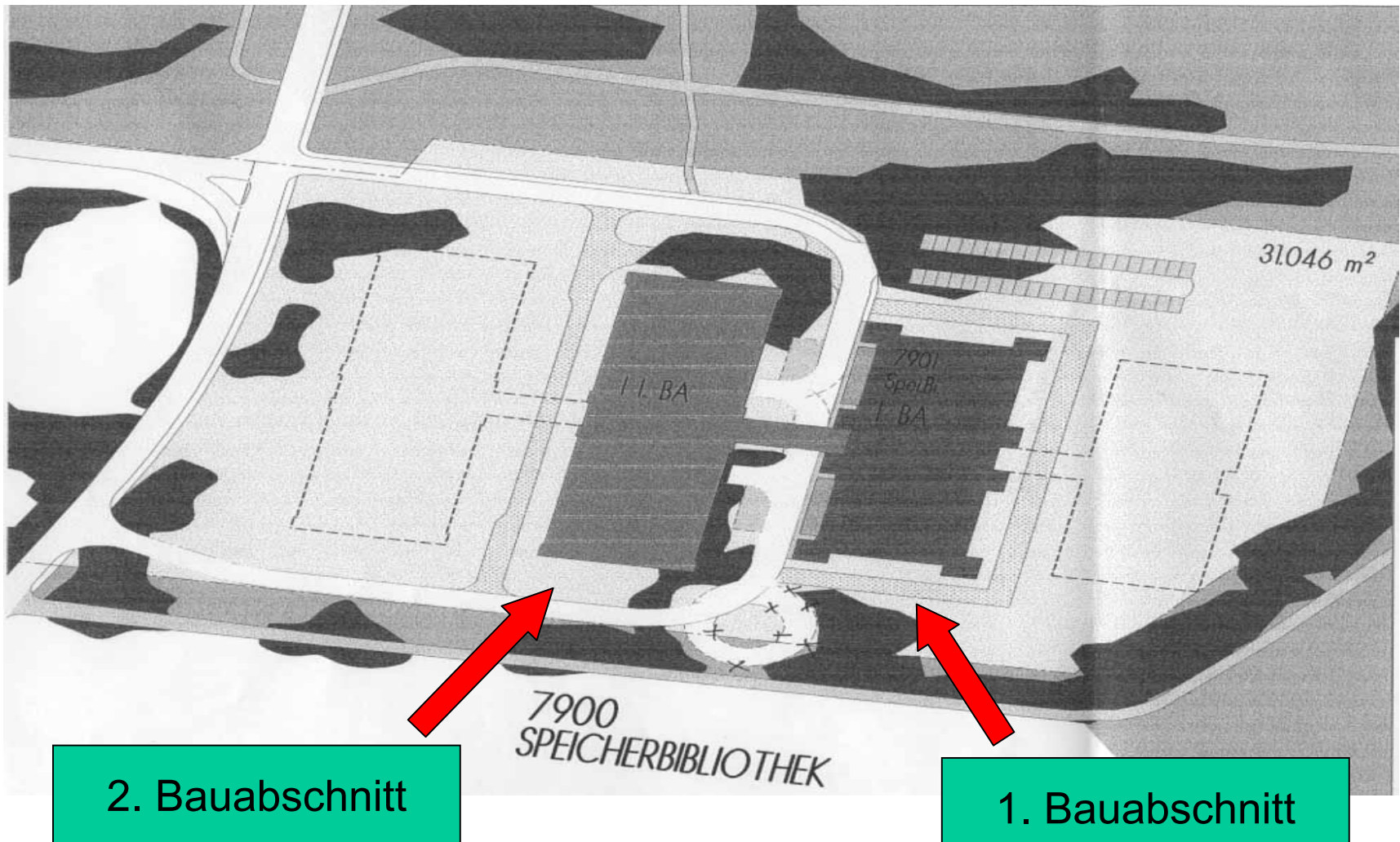


KARTENMAGAZIN



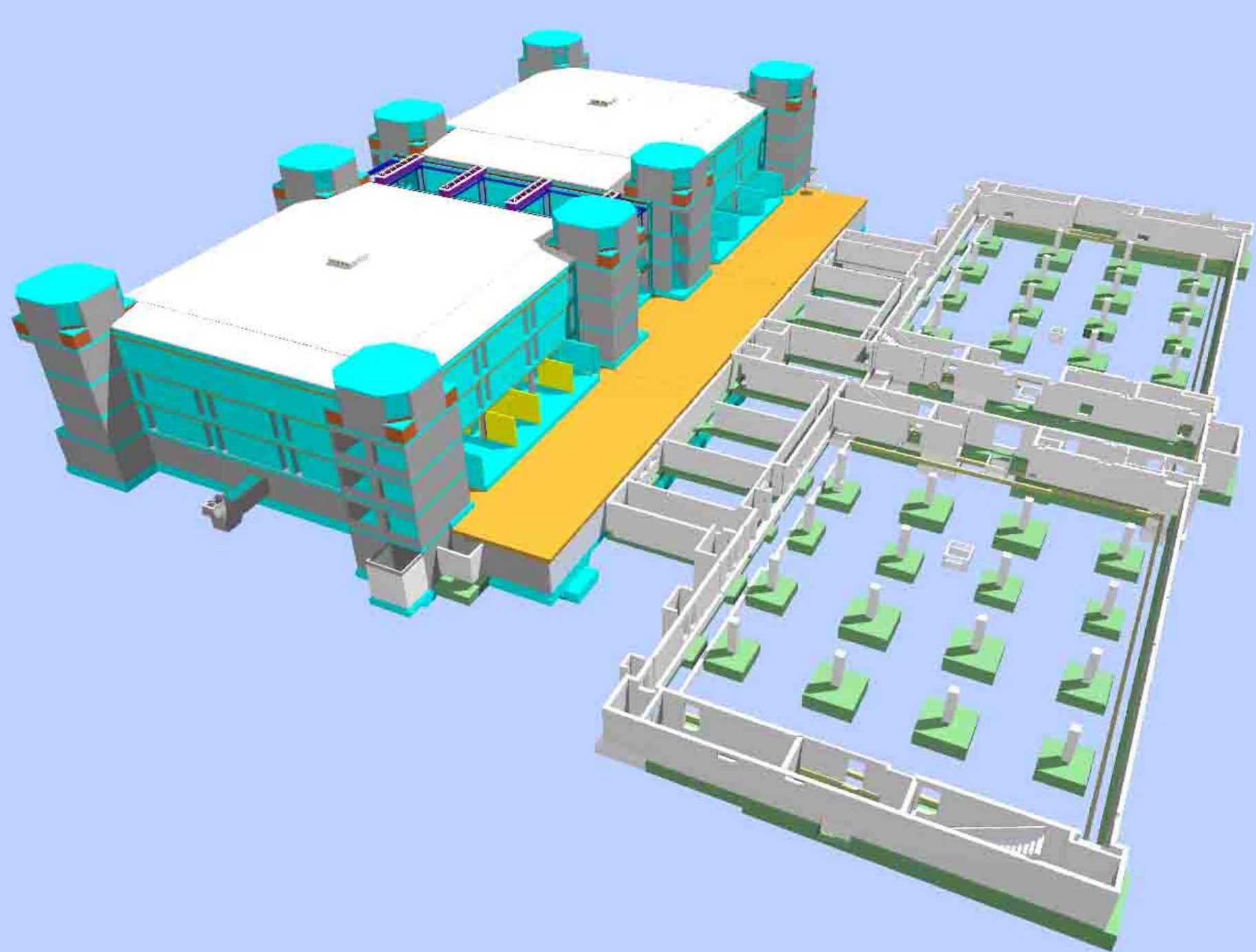
REGALANLAGE

## Speicherbibliothek Garching (Planung für 2. Bauabschnitt)



2. Bauabschnitt

1. Bauabschnitt

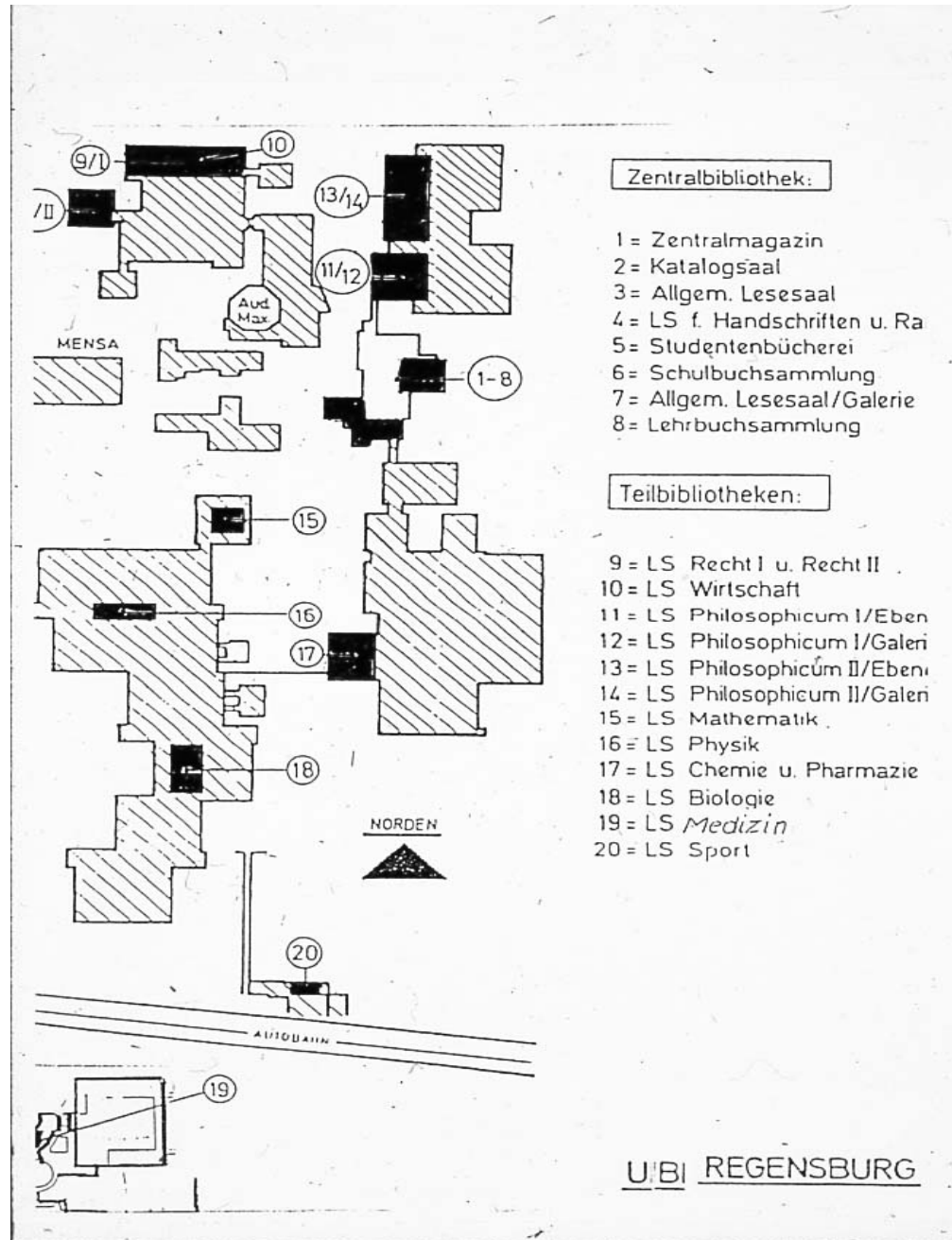


## University Library of Regensburg

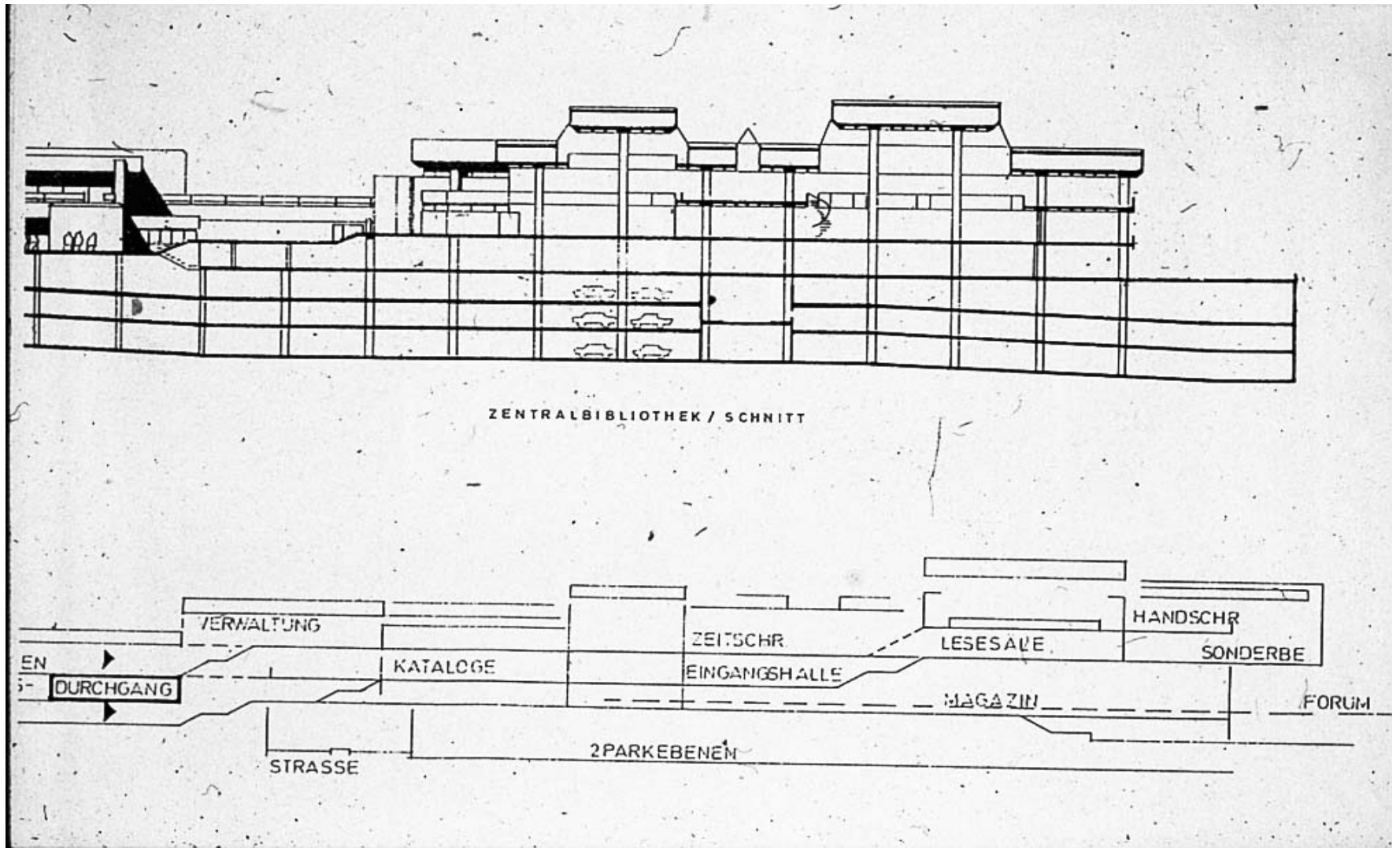


## University Library of Regensburg – Central Library





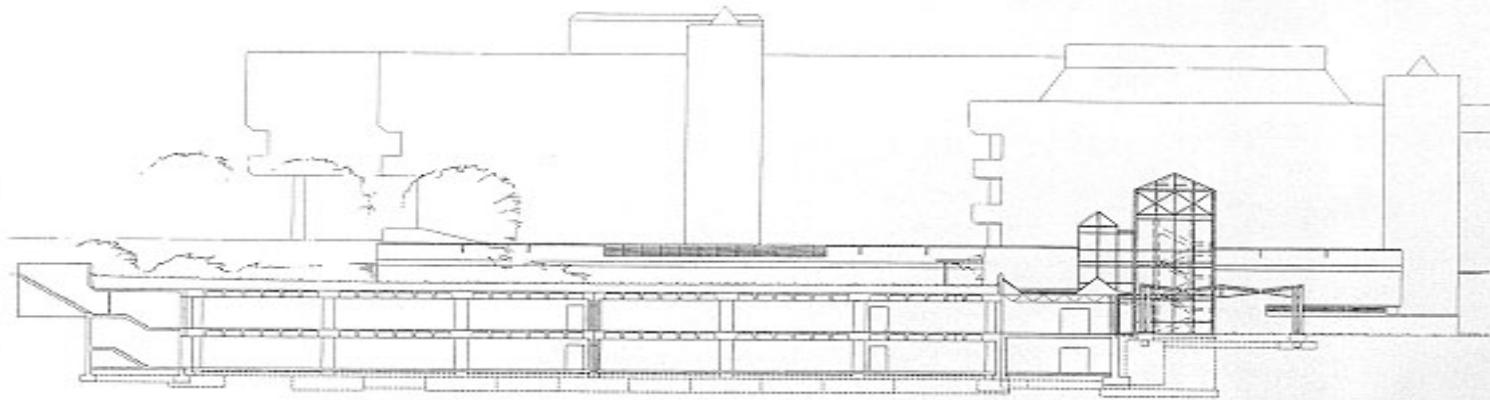
# Central Library - Longitudinal Section



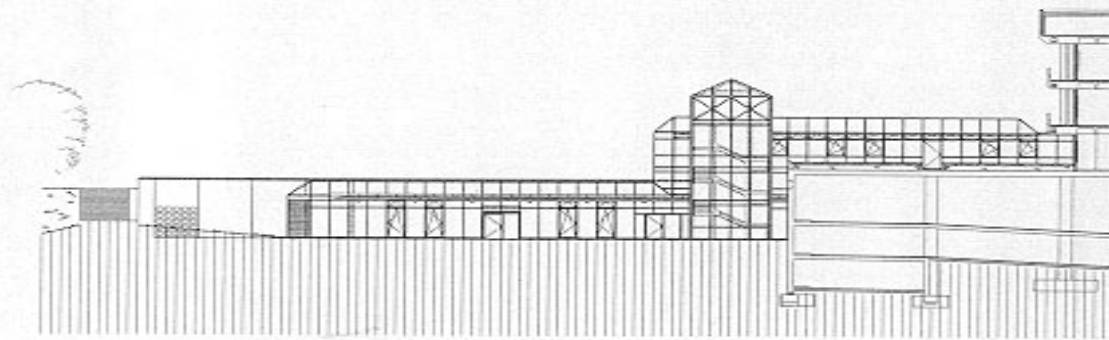
## The Regional „Stack Site“ at Regensburg

- Extension of the local university library stack area
- Two-storey underground construction (4.400 qm shelving area – 1.35 million volumes)
- Modern cargo terminal for the BAB

# Regional Stack Site – Longitudinal Section



Schnitt M 1:500 (osten) Magazin



Schnitt M 1:500 (Norden) Vorbau, Verankerungstelle

## Regional Stack Site – Facade



Regional Stack Site - Cargo Terminal with Roofed Van Space



## Regional Stack Site – Compact Shelf Area



## Regional Stack Site - Cargo Terminal Inside



## Regional Stack Site – BAB in Action



## Conclusion

- Library construction is still an issue in „virtual times“
- Hybrid Library requires a new approach to functionality and architectural aesthetics
- Storage solutions in Germany/Bavaria – tendency towards a pragmatic approach