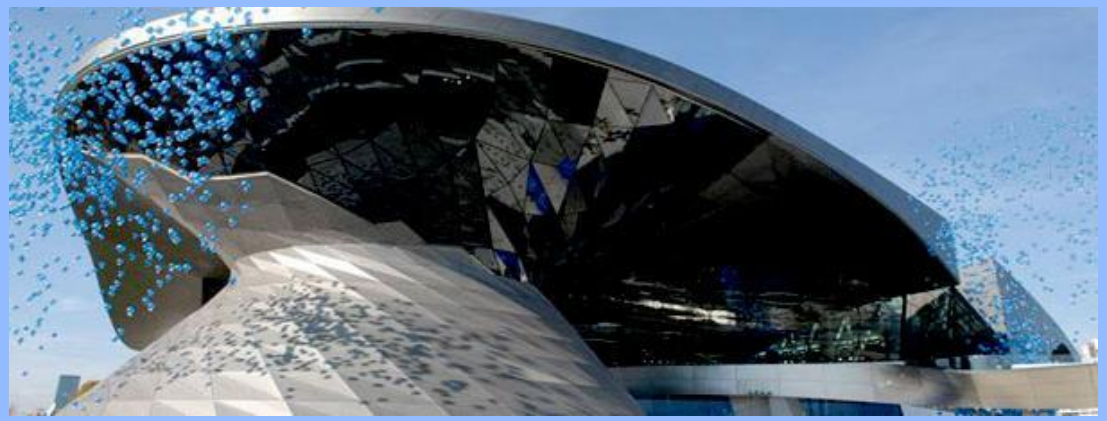
BSB Bayerische StaatsBibliothek
Information in erster Linie

Information on the Go - Innovative Library Services for the Mobile Internet .
The Approach of the Bavarian State Library

Dr. Klaus Ceynowa

Munich – some impressions

Munich – some impressions



The Bavarian State Library

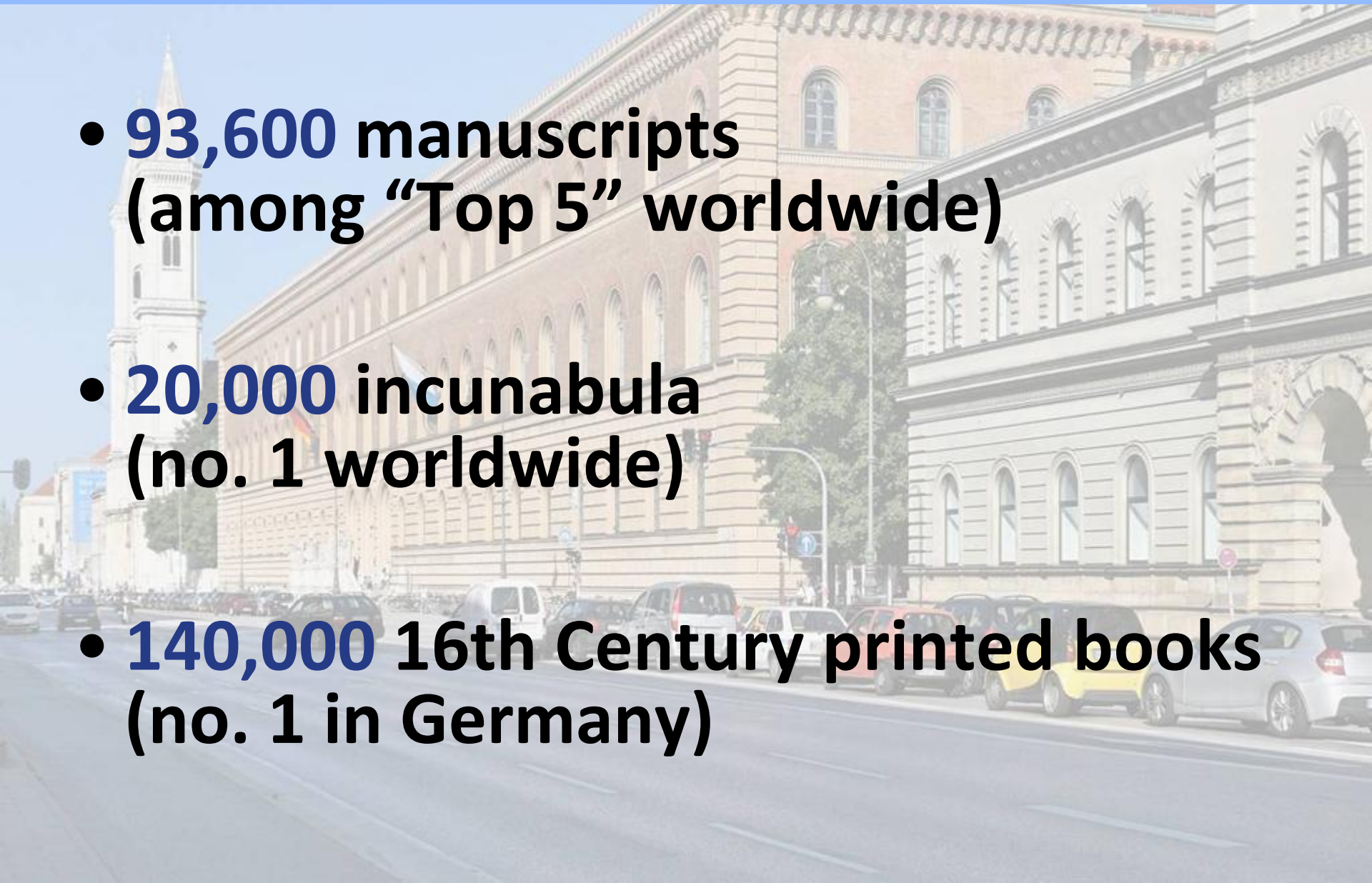
The Bavarian State Library

The Bavarian State Library

The Bavarian State Library (1)

- Founded 1558
- European Universal Library and International Research Library of world renown
- Central Regional and Archival Library of Bavaria (Legal Deposit since 1668)
- Ca. 800 employees
- Annual budget: 51 million €
- Third-Party-Funds: 7.9 million
- 9.8 million volumes, 59,700 current periodicals, 1.2 million E-Books
- Acquisition per year: 138,000 volumes

The Bavarian State Library (2)



- 93,600 manuscripts
  (among “Top 5” worldwide)
- 20,000 incunabula
  (no. 1 worldwide)
- 140,000 16th Century printed books
  (no. 1 in Germany)

The Bavarian State Library (3)

Collection Profile

- **Humanities and Social Sciences (comprehensive collection)**
- **Life Sciences (periodicals)**
- **Special collection fields**
  - » Manuscripts, Incunabula and Rare Books
  - » History, Classical Antiquity, Eastern Europe, Music, Information Sciences (supported by the German Research Association)

The Bavarian State Library (4)

- Target Group: Researchers and students from Munich, Bavaria, Germany, Europe, the world…
- Open daily from 8.00 a.m. to 12 p.m. (112 hours per week)
- Visitors to General Reading Hall: 1.2 million (2010)
- Loans: 2.2 million (2010), Document Delivery: 400,000 (2010)

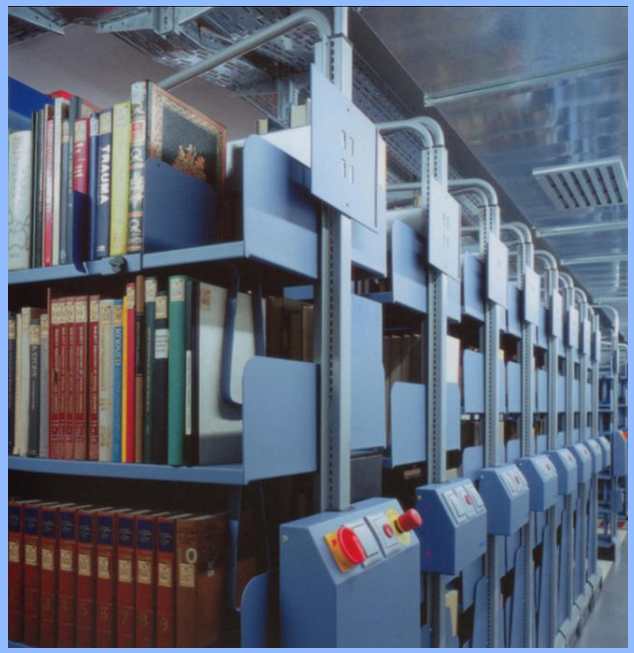
The Bavarian State Library (6)

- **Three-Pillar-Profile: Bavarian State Library as international research library**
  - **Treasure trove of written cultural heritage**
  - **Multimedial information provider for research and teaching**
  - **Innovation center for digital information technology and services**

AVENTINUS

Sites and Stacks

Site	Volumes	% of holdings
Main building Ludwigstraße	~ 4.0 mill.	41 %
Garching	~ 5.7 mill.	59 %



Z 53
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Block C 1
2
3
4
Block B 1
2
3

Digitization strategy of BSB

Complete digitization of the unique collections of the Bavarian State Library!

Munich Digitization Center at Bavarian State Library

- A National competence center for Digitization Technology and Workflows
- More than 100 projects since 1997, third-party-funded by National and European funding bodies
- 780,000 titles online, approx. 650 Terabyte Data
- Mass digitization with state-of-the-art technology (Scan-Robotic)
- Public-private-partnership with Google (1 million books , 17th-19th Century), contract signed in Febr. 2007
- Digital Long-Term-Preservation by Leibniz Supercomputing-Centre (LRZ) with ExLibris “Rosetta DPS”

Mass Digitization at the Bavarian State Library: 5 Examples

- EU-Project **"Europeana Regia":** Collaborative initiative between European libraries for the digitization of royal manuscripts in Medieval and Renaissance Europe; funded by the EU
  - BSB participates with 116 manuscripts in **41,470 pages**
  - Term: 2010 – 2012

- DFG-funded-Project **"Digitization of Chinese Rare Books and Manuscripts"**
  - Ca. 700 items, **350,000 pages**
  - Term: 2011 – 2013

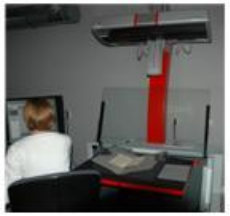
Mass Digitization at the Bavarian State Library: 5 Examples

- DFG-funded-Project "Digitization of the BSB Incunables"
  - Ca. 9,000 titles, 1,800,000 pages
  - Term: 2008 – 2011
- DFG-funded-Project "VD16": BSB Books printed in the 16th century
  - 37,000 titles; 7,500,000 pages
  - Term: 2007 – 2012
  - Operated with Scanrobots
- Public-Private-Partnership with Google
  - more than 1 million books (in less than 10 years)
  - more than 250 million pages
  - Contract signed in February 2007

Munich Digitization Center: Scanner Fleet (22 Systems)

MDZ Münchener DigitalisierungsZentrum Digitale Bibliothek

Scannerflotte: Buch- und Spezialscanner Stand 2012 (22 Systeme)



1 x Zeutschel OS 14.000
Formate: bis DIN A1
Auflösung optisch max.600ppi

3 x Zeutschel OS 12.000
Formate: bis DIN A1
Auflösung optisch max.600ppi

1 x Zeutschel OS 11.000
Formate: bis DIN A 0
Auflösung optisch max.400ppi

3 x Zeutschel OS 12.000
Formate: bis DIN A2
Auflösung optisch max.400ppi

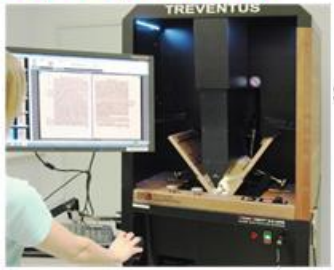
1 x Zeutschel OS 14.000
Formate: bis DIN A2
Auflösung optisch max.600ppi

2 x „Grazer Kameratisch“ mit Zeutschel OS 12.000
Formate: bis DIN A2
Auflösung optisch max.600ppi

1 x book2net „Profi“
Formate: bis DIN A2
Auflösung optisch max.400ppi

1x Traveller = kleiner mobiler „Grazer Kameratisch“ mit Kamera
Formate: bis DIN A3
Auflösung optisch max.600ppi

1x Mephisto Extreme
3D-Scanner

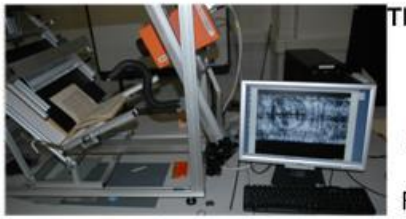


4 x Treventus ScanRobot® (MDS 2.0)
Formate: bis DIN A3
Auflösung optisch max.400ppi

1 x Hasselblad H4D-200MS
Formate: bis DIN A0
Auflösung optisch max.600ppi

1 x Nikon Coolscan 9000 Klein-/ mittelformatscanner
Formate: bis DIN A3
Auflösung optisch max. 6000ppi

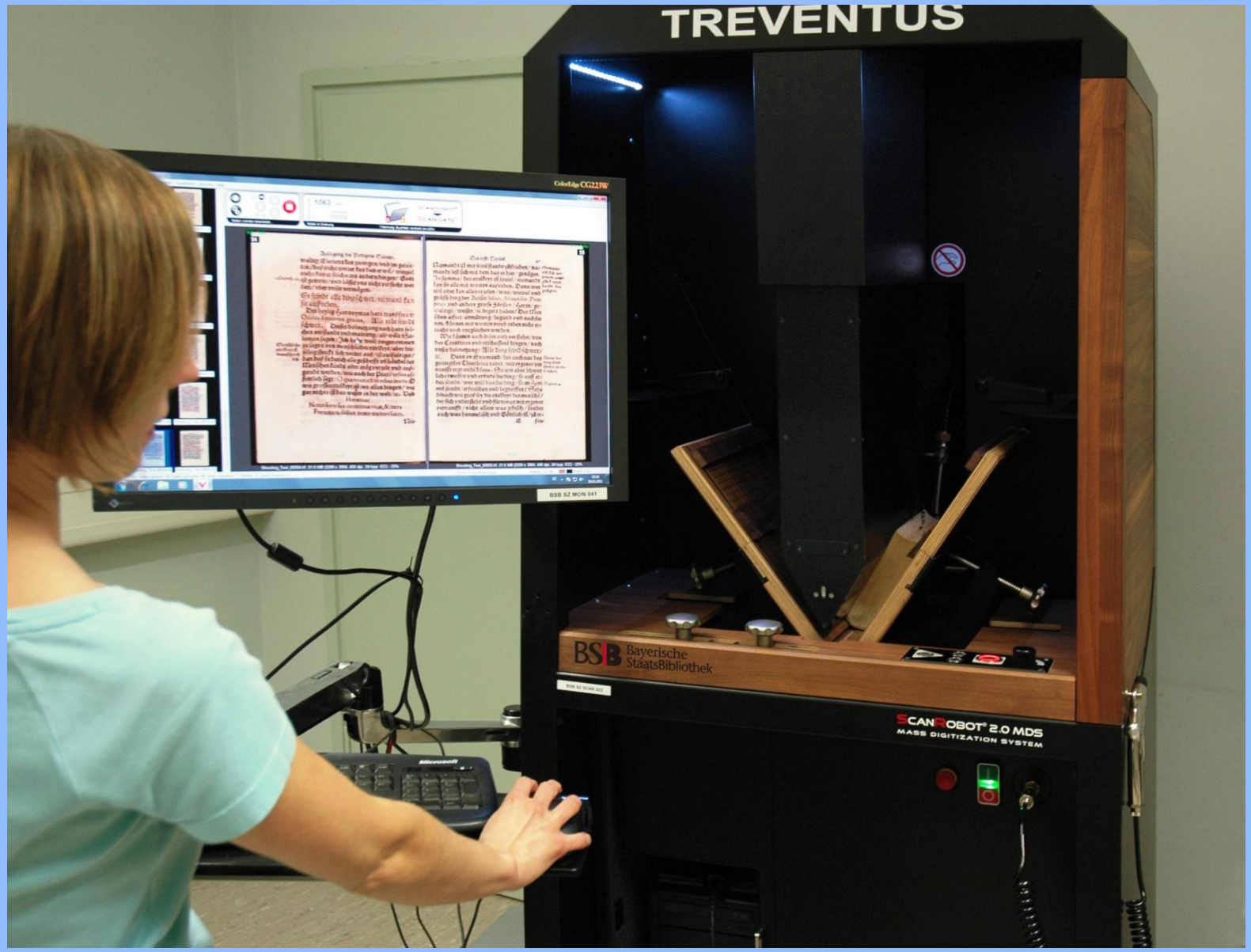
1 x Linhof mit PhaseOne-Rückteil
Formate: bis DIN A3
Auflösung optisch max. 400ppi



1 x Thermographiekamera
Mit spezieller Buchwiege
Koop. Fraunhofer-Institut
Formate: bis DIN A3

Scanrobotics at the Bavarian State Library

Scanrobotics at the Bavarian State Library



Munich Digitization Center: Digital Collections

bsb-mdz12-spiegel.bsb.lrz.de/~mdz/index.html?c=startseite&l=en&projekt=

MDZ Münchener DigitalisierungsZentrum Digitale Bibliothek

BSB Bayerische StaatsBibliothek Information in erster Linie

- Main Page
- Digital Collections
- Digitization
- Preservation
- Projects
- Service
- Disclaimer

↗ Deutsch

Welcome to the Munich Digitization Center

Munich Digitization Center (MDZ) handles the digitization and online publication of the cultural heritage preserved by the Bavarian State Library and by other institutions. It provides one of the largest and fastest growing digital collections in Germany, now comprising 711,609 titles available online. Access is free of charge!

The digitization policy reflects the traditional special collection fields of the library: History, Classical Antiquity, Eastern Europe, Musicology. It comprises manuscripts, early prints, modern books, maps and photographic collections as well as journals and newspapers.

The MDZ frames the *Digital Library department* of the Bavarian State Library. It

- Digital Collections

Currently **711,609 Titles** online [29.02.2012]

↗ Collection Overview
↗ Browsing Index

RSS

MDZ-News

What's new
↗ Today's additions to the Digital Collections.
[29.02.2012]

Turning Historical Documents into Digital Full Texts
The Munich DigitiZation Center (MDZ) of the Bavarian State Library invites you to Munich on Tuesday 11 October and Wednesday 12 October, 2011, for two conferences under the shared title "Turning Historical Documents into Digital Full Texts". **Please note: both conferences are German-speaking only!** For

Munich Digitization Center: Digital Collections

Münchener DigitalisierungsZentrum
Digitale Bibliothek

BSB Bayerische StaatsBibliothek

Die Ottheinrich-Bibel (Cgm 8010)

Die Ottheinrich-Bibel wird zusätzlich als Flash-Animation angeboten. Zum Aufruf eines Bandes benötigen Sie ein Browser-Plugin (siehe ↗http://www.adobe.com/de/products/flashplayer/). Durch die Konversion des Bildmaterials in das Flash-Format wird ein dreidimensionaler „Blättereffekt" erzeugt (Klicken Sie auf den Seitenrand und halten sich gleichzeitig die Maustaste gedrückt).

Band 1 [Cgm 8010(1)]

Mt 1,1-26,30

↗Flash-Präsentation
↗Standardausgabe

Band 2 [Cgm 8010(2)]

Mt 26,31 - Lk 5,26

↗Flash-Präsentation
↗Standardausgabe

Band 3 [Cgm 8010(3)]

Lk 5,26 - Joh 5,18

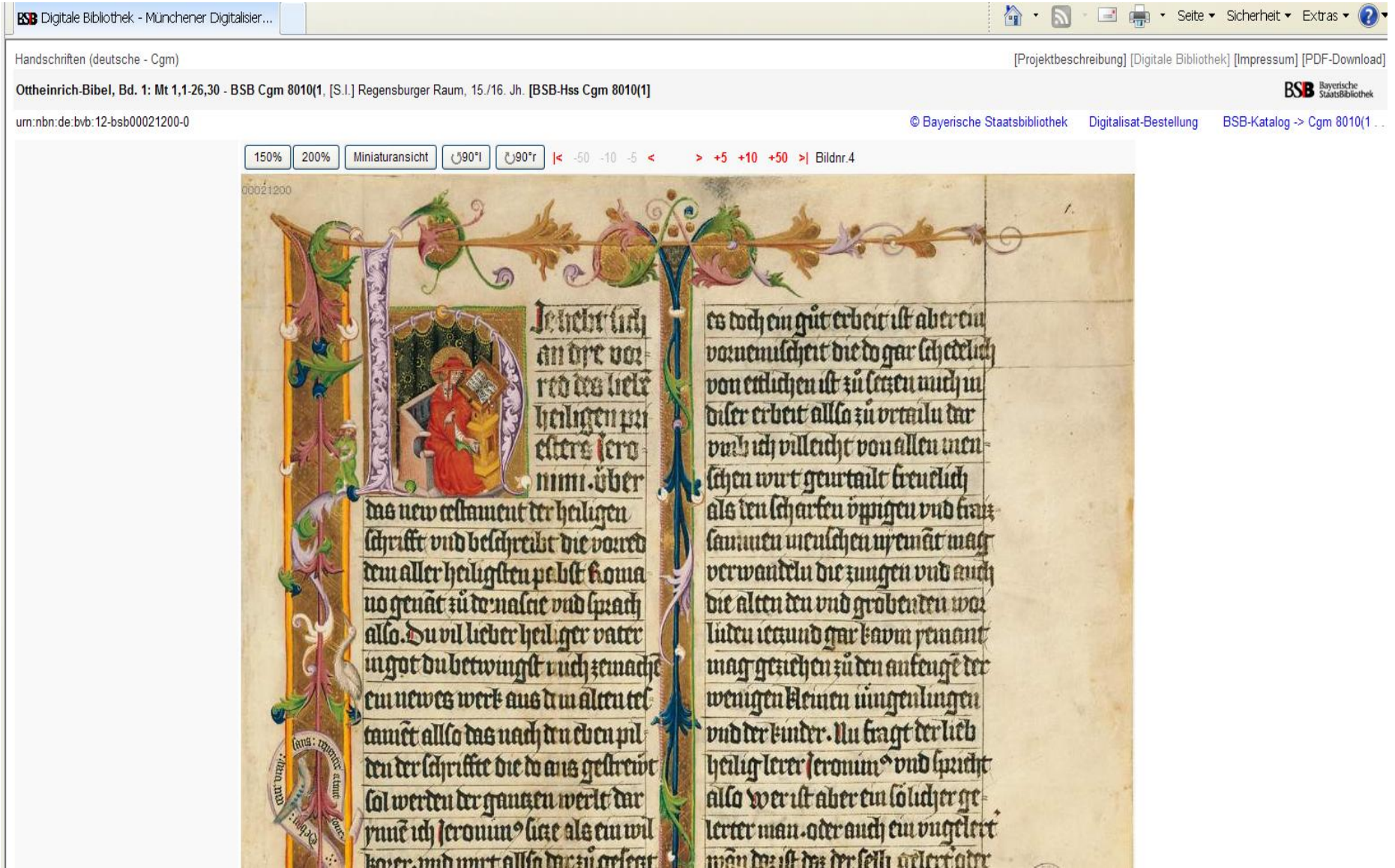
↗Flash-Präsentation
↗Standardausgabe

Band 4 [Cgm 8010(4)]

Joh 5,18 - Röm 15,13

↗Flash-Präsentation
↗Standardausgabe

Munich Digitization Center: Digital Collections



Europeana

DFG
CodIcon online: Codices iconographici monacenses
[Projektbeschreibung] [Digitale Bibliothek] [Impressum] [DFG-Viewer] [PDF-Download]
Turnierbuch. Ritterspiele gehalten von Kaiser Friedrich III. und Kaiser Maximilian I. in den Jahren 1489 - 1511 - BSB Cod.icon. 398, Augsburg ?, Mitte 16. Jh. [BSB-Hss Cod.icon. 398]
BSB Bayerische StaatsBibliothek
urn:nbn:de:bvb:12-bsb00002178-9
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Digitalisat-Bestellung
BSB-Katalog -> Cod.icon. 398
1.Seite
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Image 00023
Image 00024
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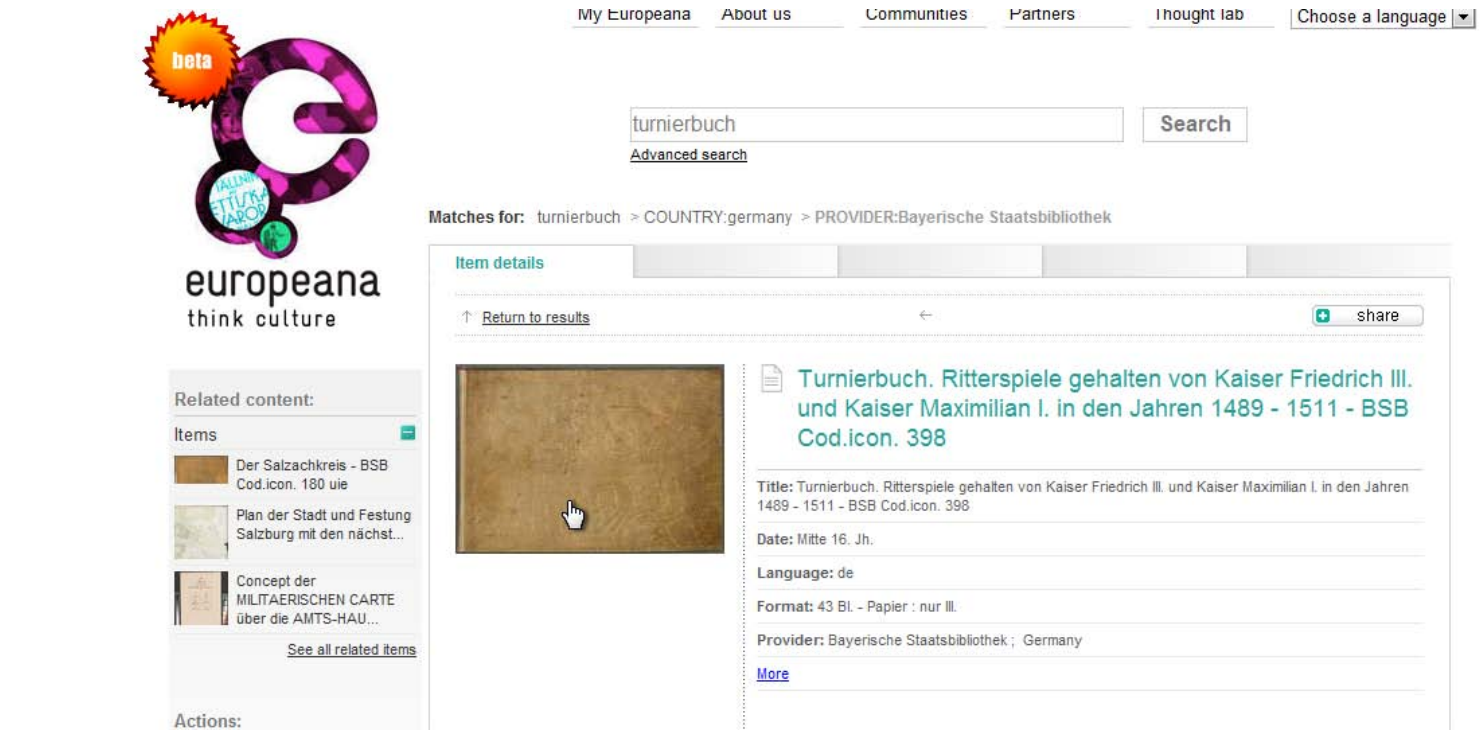
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Matches for: turnierbuch > COUNTRY:germany > PROVIDER:Bayerische Staatsbibliothek
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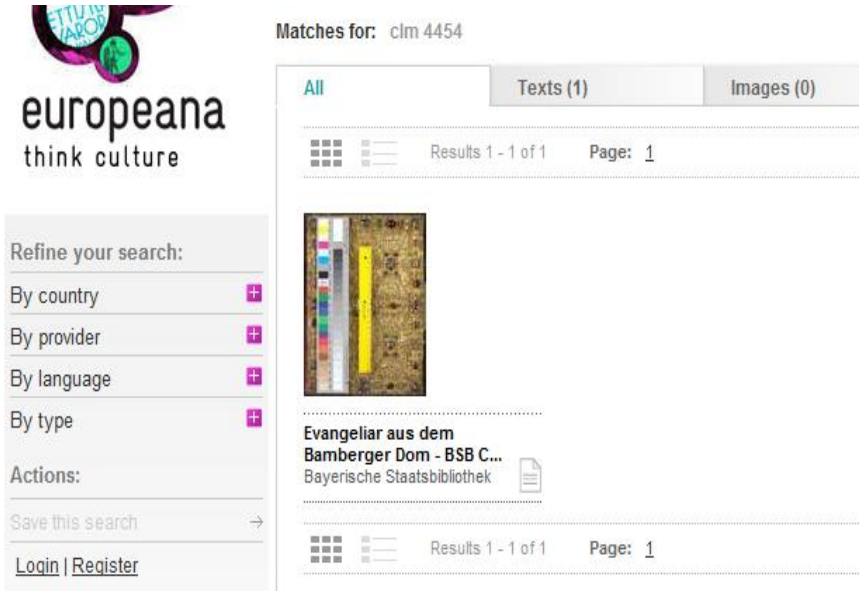
Plan der Stadt und Festung Salzburg mit den nächst...
Concept der MILITAERISCHEN CARTE über die AMTS-HAU...
See all related items
Actions:
Turnierbuch. Ritterspiele gehalten von Kaiser Friedrich III. und Kaiser Maximilian I. in den Jahren 1489 - 1511 - BSB Cod.icon. 398
Title: Turnierbuch. Ritterspiele gehalten von Kaiser Friedrich III. und Kaiser Maximilian I. in den Jahren 1489 - 1511 - BSB Cod.icon. 398
Date: Mitte 16. Jh.
Language: de
Format: 43 Bl. - Papier : nur Ill.
Provider: Bayerische Staatsbibliothek ; Germany
More

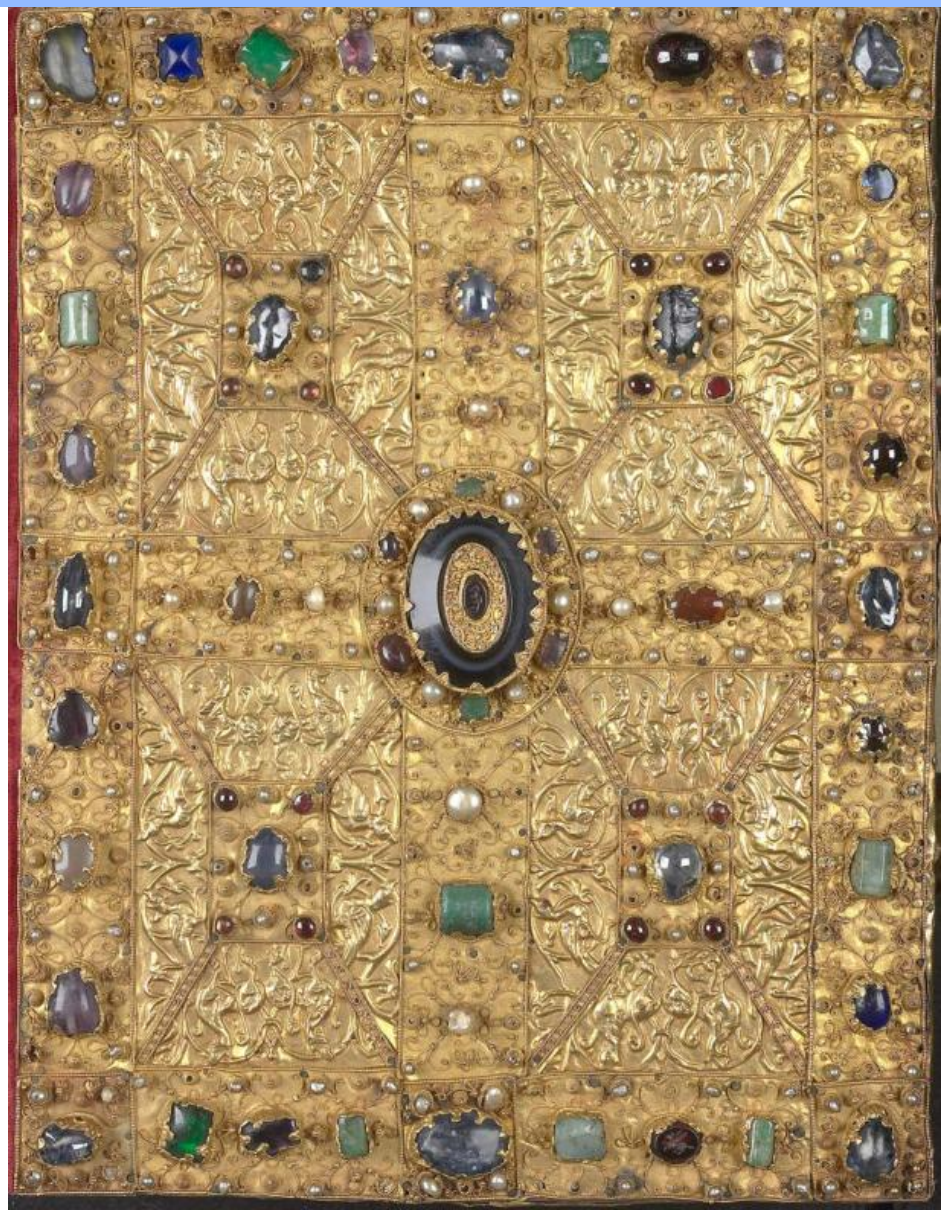
Europeana

Clm 4454
- Gospels of the Bamberg Cathedral

Reichenau monastery, early 11th century

UNESCO Memory of the World





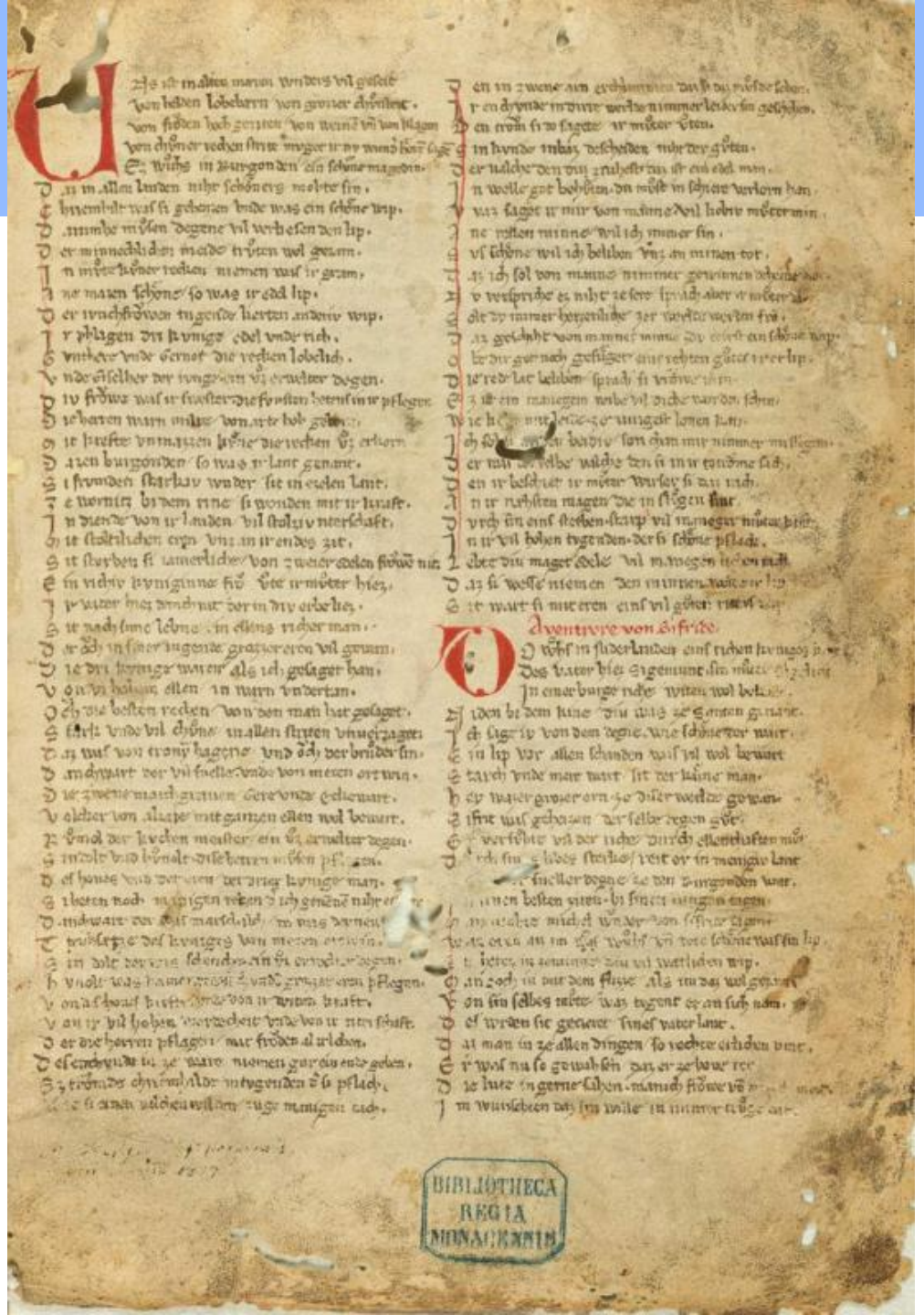
Europeana

Cgm 34

Song of Nibelungs

before 1280

UNESCO Memory of the World



Europeana

4 L.sin. C 266

Da fang bian fo bao en jing

大方便佛報恩經

China, [1149-1173]

europeana
think culture

Explore Europe's cultural collections

Da fang bian fo bao en jing

Return to search results

PUBLIC DOMAIN

View item at
Bayerische Staatsbibliothek

Da fang bian fo bao en jing

Alternative Title: Zhaocheng Jin zang ; Tripitaka ; 趙城金藏 ; 大藏經

Date: [1149] ; [1149-1173]

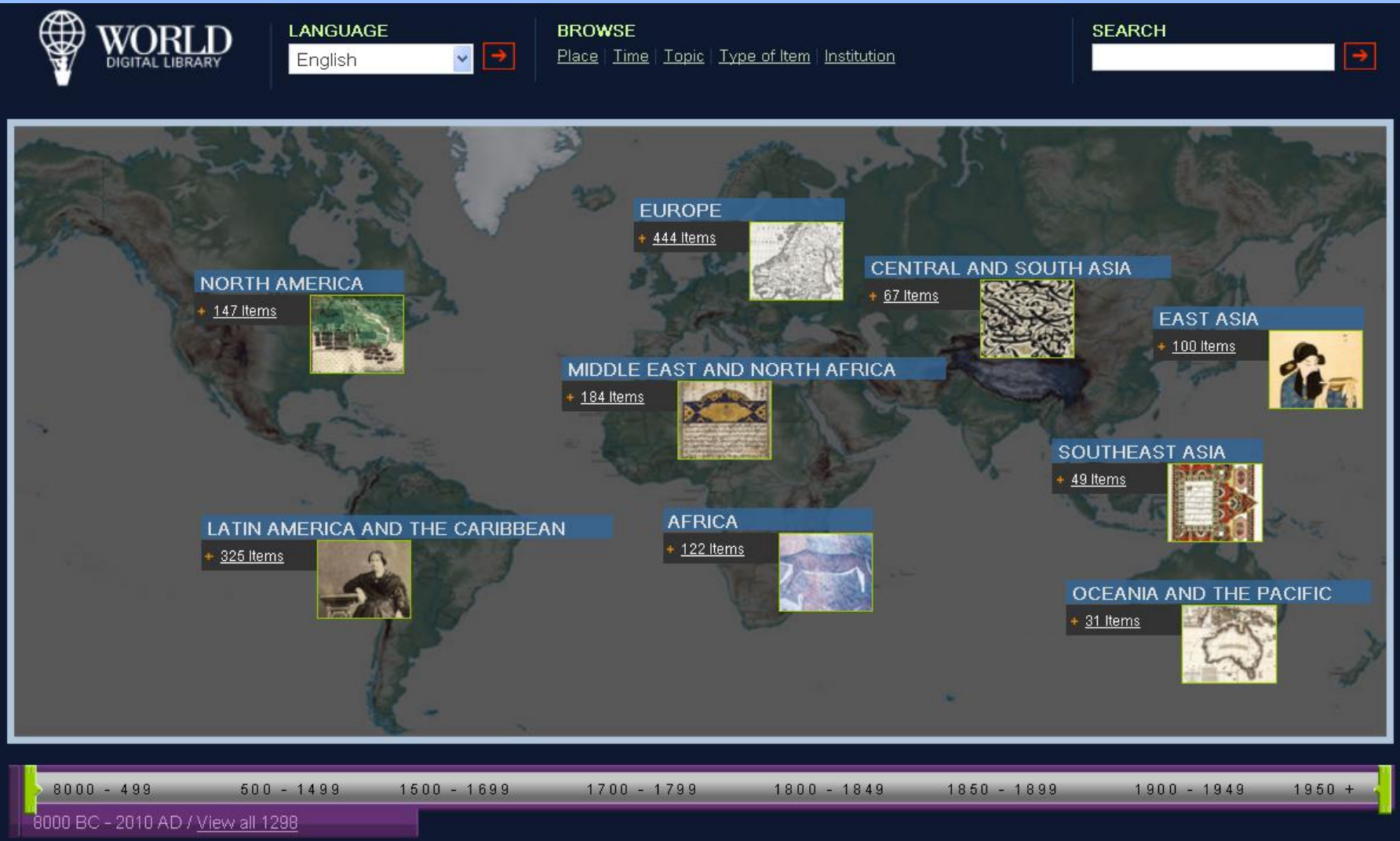
Type: Druck |

Relation: Signatur: München, Bayerische Staatsbibliothek -- Res/4 L.sin. C 266

Data provider: Bayerische Staatsbibliothek |

Provider: Bayerische Staatsbibliothek | Germany |

World Digital Library (WDL)



World Digital Library (WDL)

WORLD DIGITAL LIBRARY

LANGUAGE English

BROWSE Place | Time | Topic | Type of Item | Institution

SEARCH

< Search Results: Previous | Next

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Similar Items

Title: Ottheinrich Bible

Description

The Ottheinrich Bible is the earliest surviving illustrated manuscript of the New Testament in the German language. The work was commissioned around 1430 by Ludwig VII, the Bearded, Duke of Bavaria-Ingolstadt. The text was written, presumably in Ingolstadt, in a monumental script consistent with the highest calligraphic standards. The text was then sent to Regensburg for illumination. Only about one-fifth of the miniatures were completed, however, before work was stopped. Sometime before 1530, the Count Palatine Ottheinrich acquired the Bible and commissioned the artist Mathis Gerung to complete the sequence of miniatures, which previously extended only as far as the Gospel of St. Mark. Gerung finished the work in 1530–31. In all, this magnificently illuminated Bible contains 146 miniatures and 294 ornamented initials on 307 parchment leaves. The manuscript was later taken as war booty from Heidelberg to Munich and then to Gotha, where in the 19th century it was split into eight volumes. The Bavarian State Library acquired three of these volumes in 1950, and the remaining five in 2007.

Patron

der Bärtige, duke of Bavaria-Ingolstadt, Ludwig VII (1368–1447)

Date Created

Around 1430-1531

Publication Information

Regensburger, Bavaria

Language

Middle High German (ca. 1050-1500)

Title in Original Language

Ottheinrich-Bibel

Place

Europe > Germany

Time

8000 BC - 499 AD

Topic

World Digital Library (WDL)

WORLD DIGITAL LIBRARY

LANGUAGE English

BROWSE Place | Time | Topic | Type of Item | Institution

SEARCH

< Search Results: Previous | Next

Open

PDF 21Mb | SHARE

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Similar Items

Title: Parzival

Description

Wolfram von Eschenbach composed his medieval German epic poem *Parzival*, which consists of more than 24,000 lines, in the first decade of the 13th century. It tells the story of the juvenile fool Parzival who, having grown up in the seclusion of the forest, is ignorant of the world and causes much grief as he ventures out to become a knight. He arrives at the Castle of the Grail, but fails to pose the question to the sick King Fisher Anfortas about the source of his suffering—a question that would release Anfortas and make Parzival the new grail king. After a long odyssey and a religious catharsis, Parzival is able to return to Arthur's court and is marked as the new grail king. The tale, according to the manuscript tradition, enjoyed great popularity throughout the Middle Ages. Only a few of the manuscripts are illuminated. This manuscript from the Bavarian State Library, written in a Gothic cursive script, is one of the few illuminated manuscripts of Parzival that are known to exist. Unfortunately, only one of the illuminations in the codex, which were to be inserted in spaces that the writer left blank, was executed. The style of painting suggests that it most likely originated in Lower Bavaria, perhaps in Landshut. The quality and richness of this very illumination gives a hint of what a splendid work of art this would have been had it been completed.

Author

Wolfram, von Eschenbach (1170?-1220?)

Date Created

Around 1270-1279

Publication Information

Lower Bavaria

Language

Middle High German (ca. 1050-1500)

Title in Original Language

Parzival

Place

Europe > Germany

Europe > United Kingdom of Great Britain and Northern Ireland

Time

The Mobile Internet

Mobile only...

Percentage of mobile Web users who never or infrequently use the desktop Web			
Country	**Percentage mobile-only**	**Country**	**Percentage mobile-only**
Egypt	70%	Indonesia	44%
India	59%	Thailand	32%
South Africa	57%	China	30%
Ghana	55%	US	25%
Kenya	54%	UK	22%
Nigeria	50%	Russia	19%
Source: On Device Research (December 2010)		**Survey group:** 15,204	**via:** mobiThinking

Global mobile statistics 2011: URL: http://mobithinking.com/mobile-marketing-tools/latest-mobile-stats

Gartner Top 10 Strategic Technologies for 2012

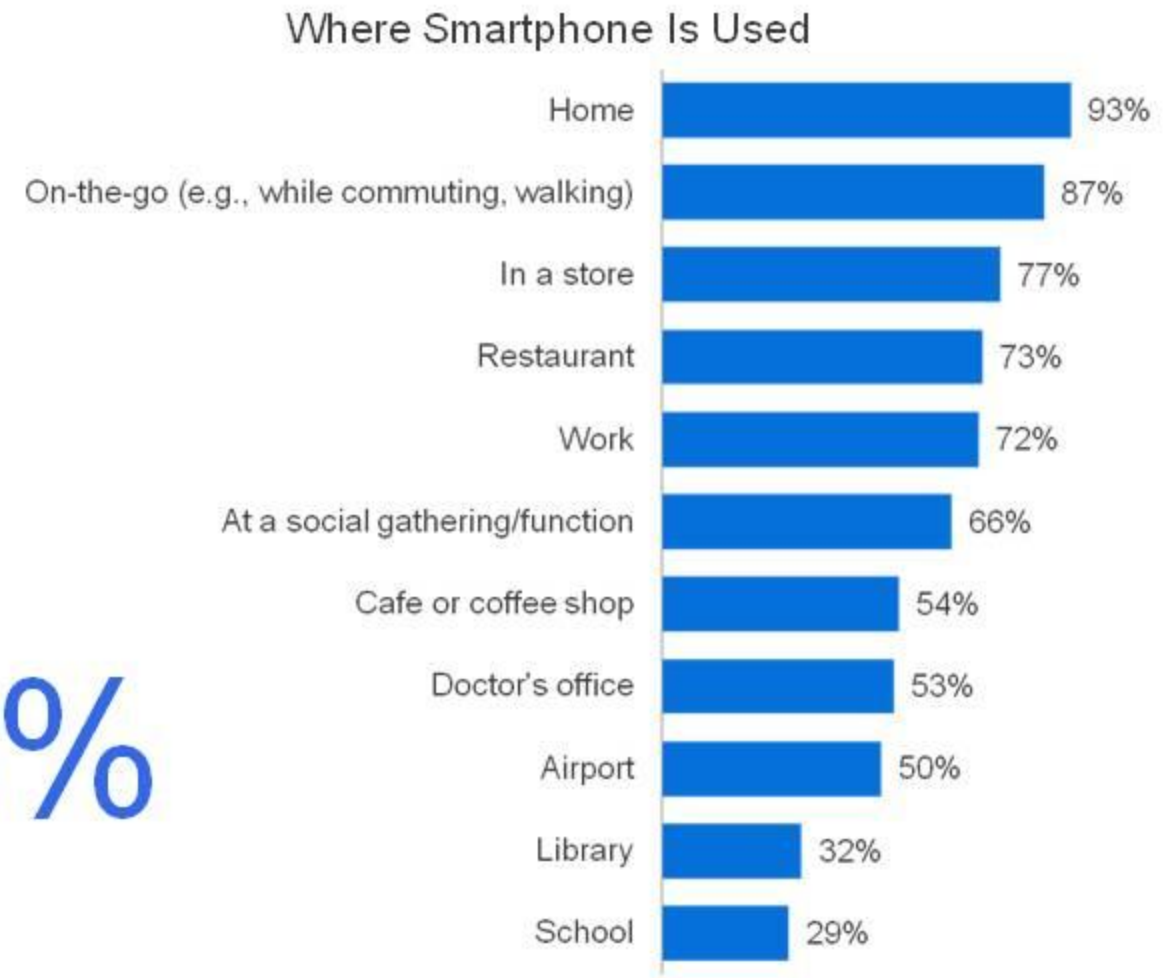
1.	Media Tablets and Beyond
2.	Mobile-Centric Applications and Interfaces
3.	Contextual and Social User Experience
4.	Internet of Things
5.	App Stores and Marketplaces
6.	Next-Generation Analytics
7.	Big Data
8.	In-Memory Computing
9.	Extreme Low-Energy Servers
10.	Cloud Computing

http://www.gartner.com/it/page.jsp?id=1826214

Smartphone: “Always-on Companion”

93%

Home



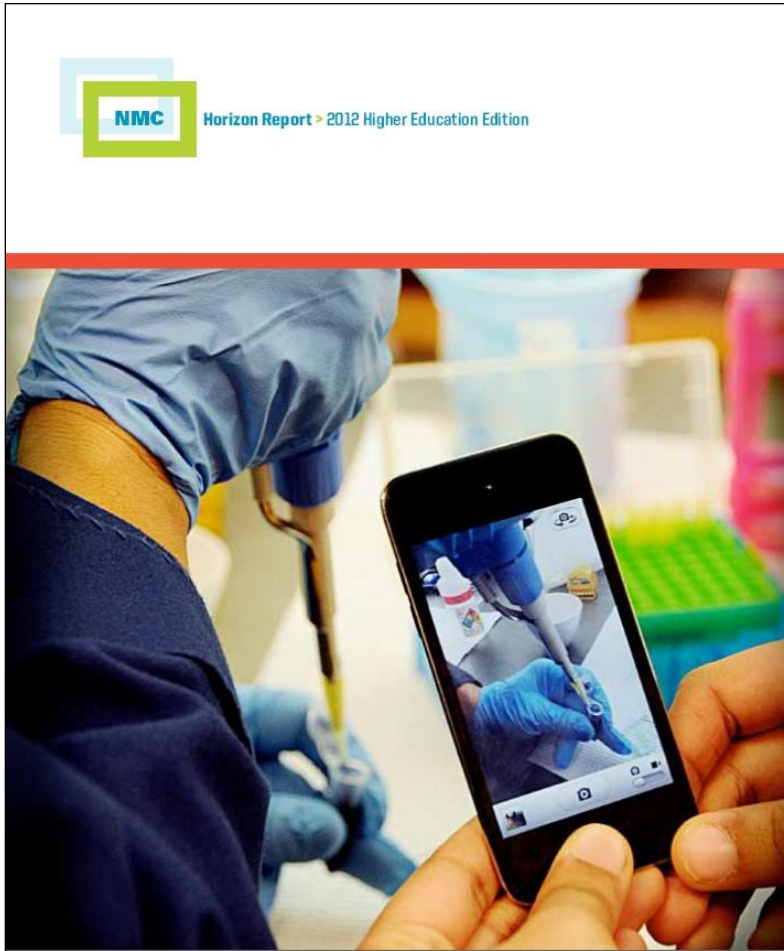
thinkmobile with Google

Source: The Mobile Movement Study, Google/Ipsos OTX MediaCT , Apr 2011
Base: Smartphone Users (5013)
Q. Where do you use your smartphone?

Mobile Apps

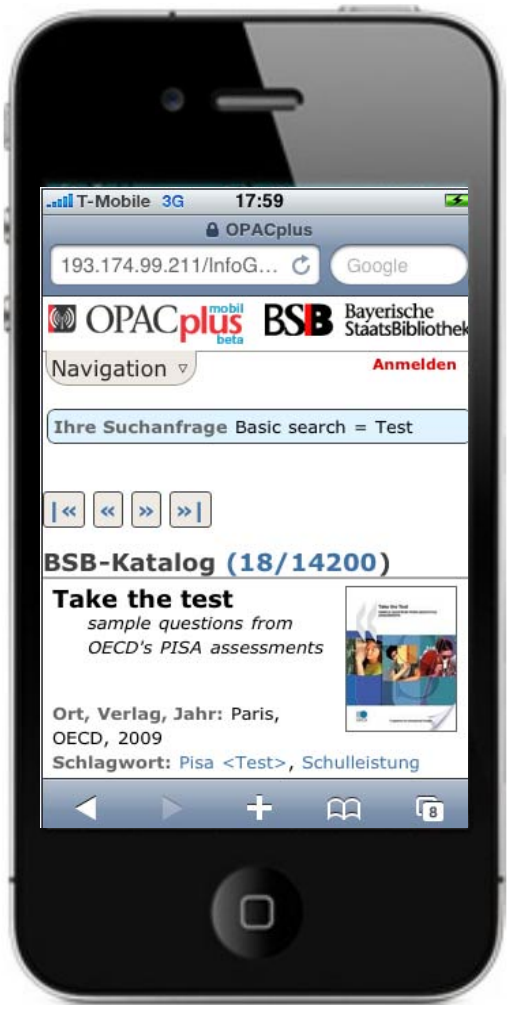
"Mobile Apps are the fastest growing dimension of the mobile space … right now, with impacts on virtually every aspect of informal life, and increasingly, every discipline in the university."

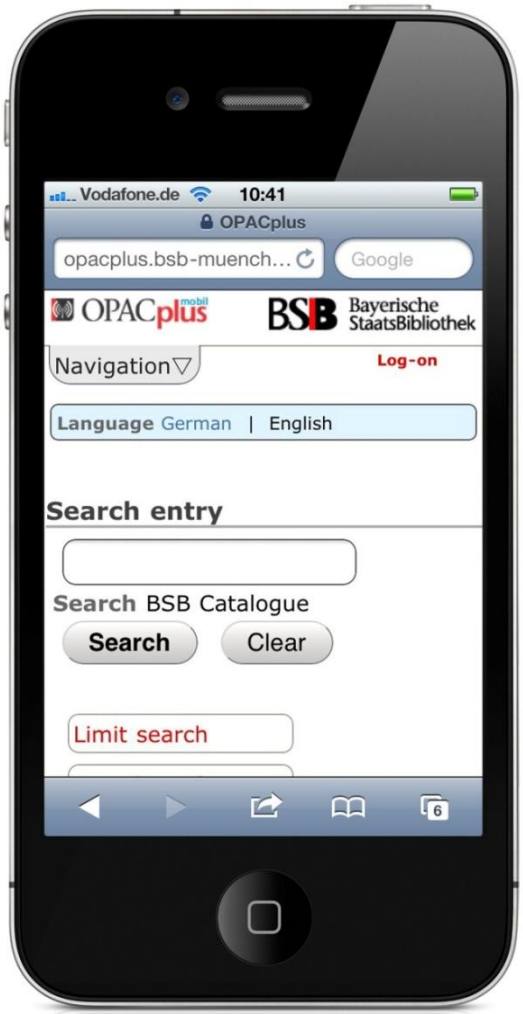
(Horizon Report 2012, p. 6)

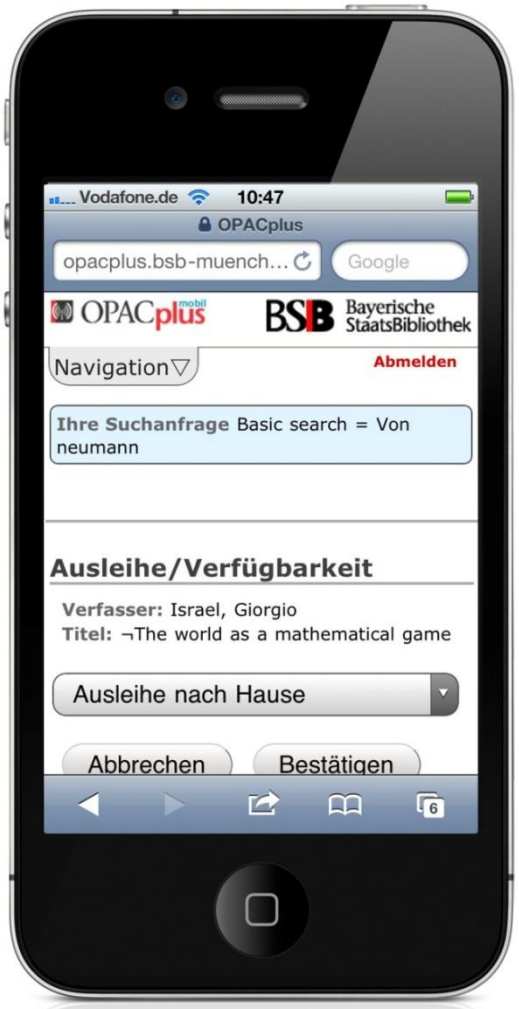


Mobile OPAC & Website

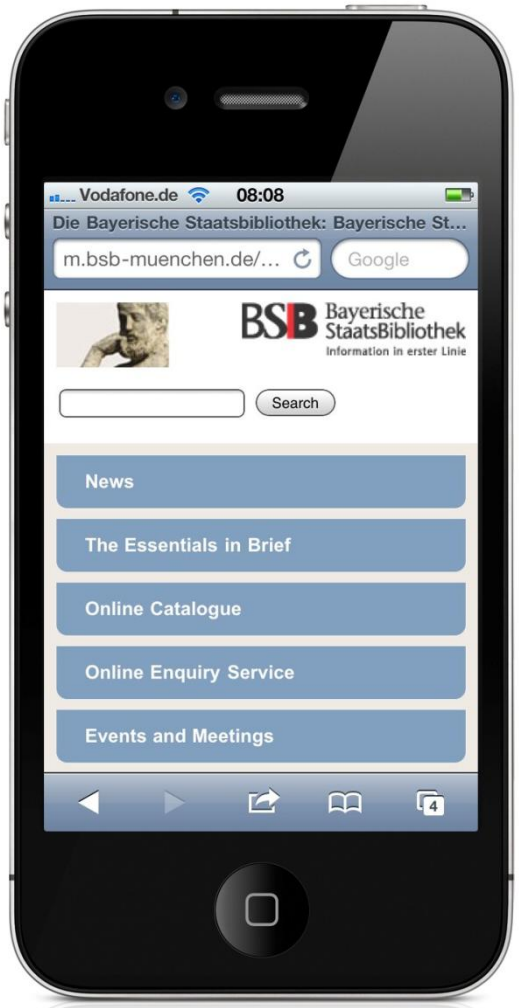
Mobile Online-Catalogue (OPAC) of the Bavarian State Library

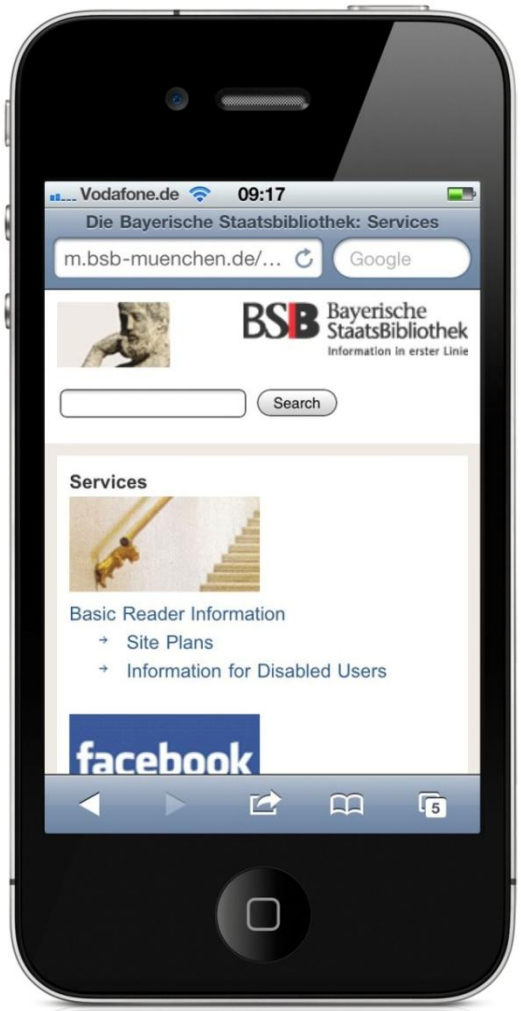


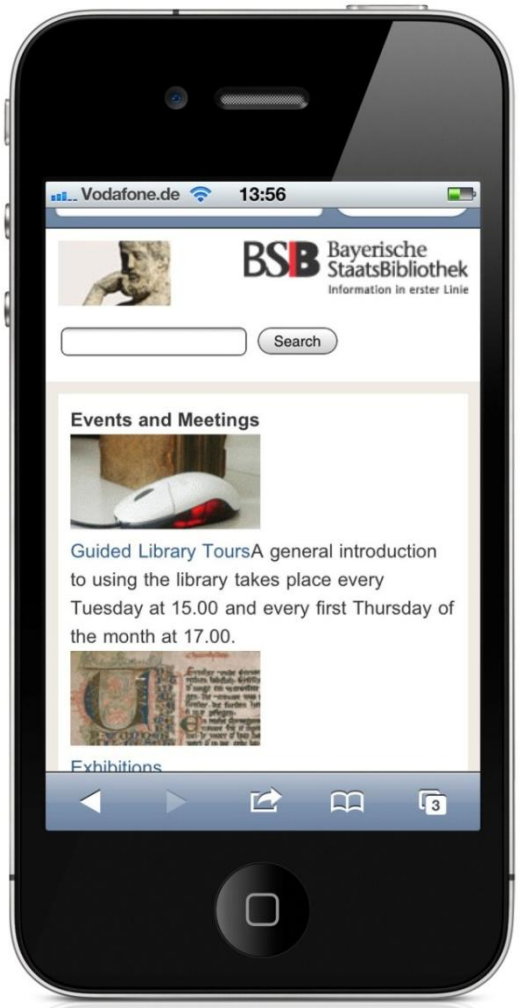




Mobile Website of the Bavarian State Library







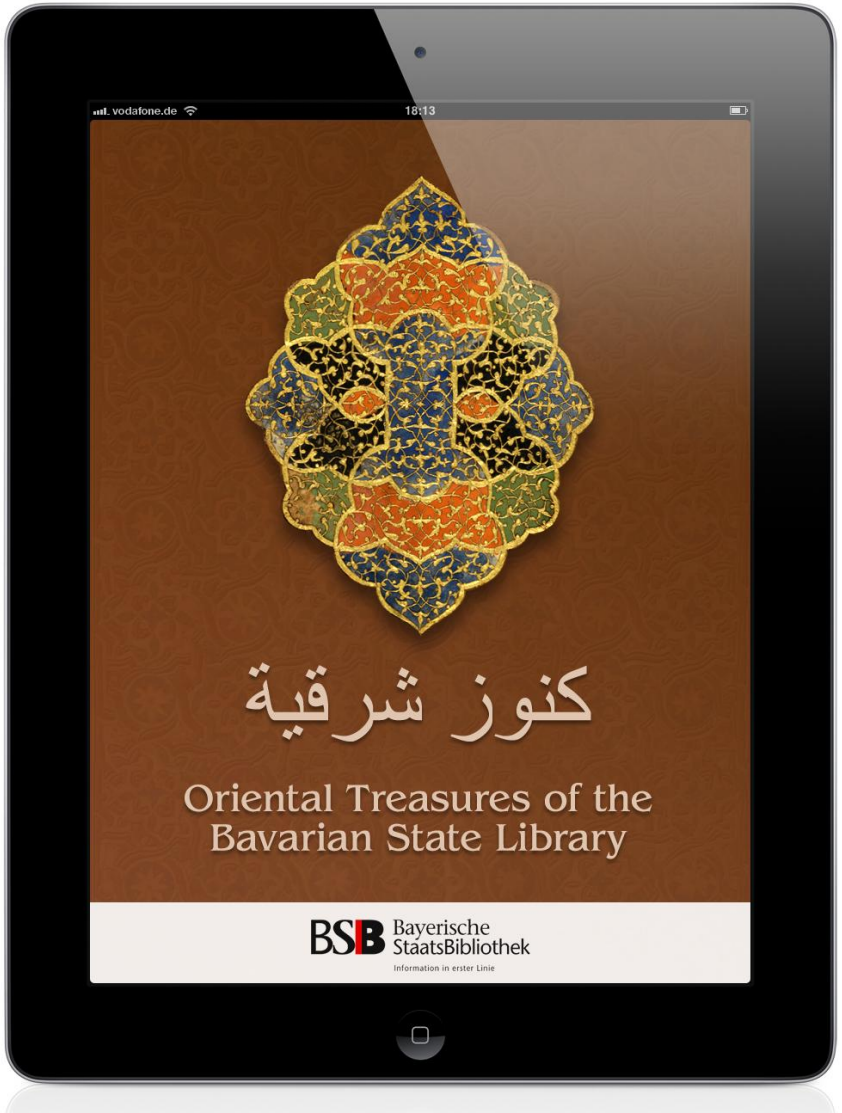
iPad/iPhone-Apps: “Famous Books” & “Oriental Books”

iPad/iPhone-Apps: “Famous Books” & “Oriental Books”

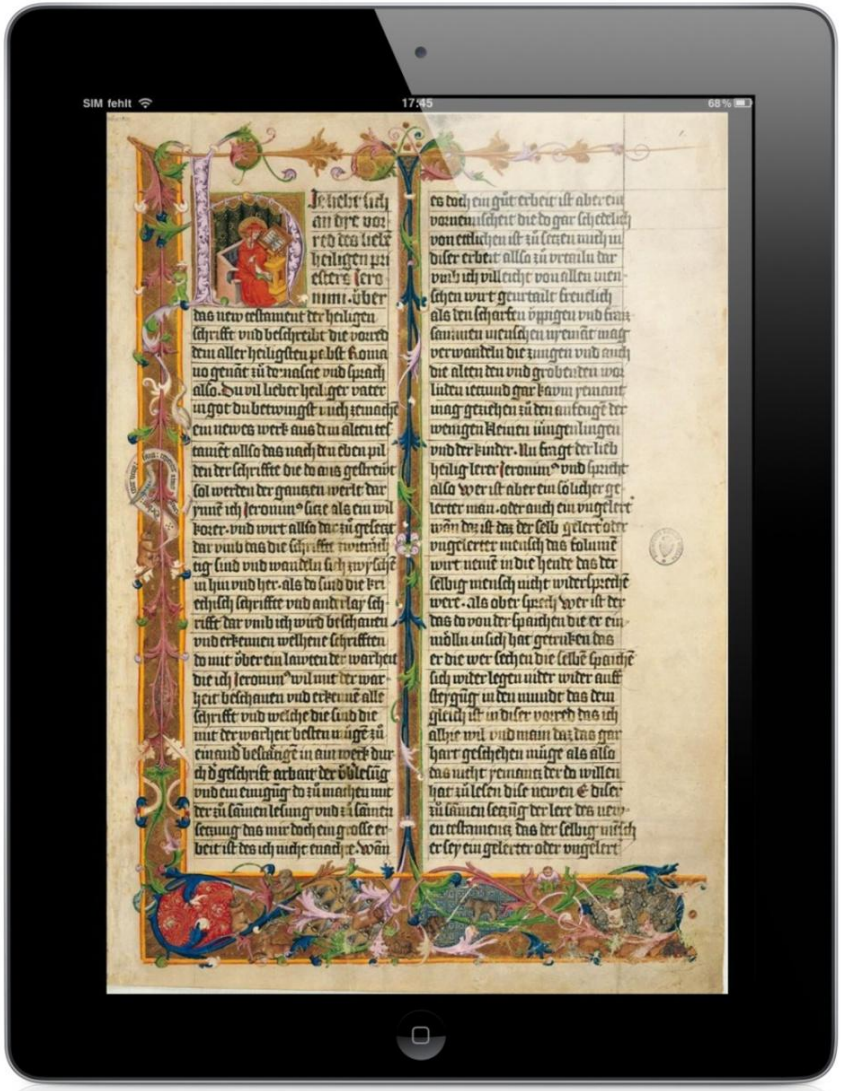
- **“Famous Books”**
  - Full Title: “Treasures of the Bavarian State Library” (released June 2010)
  - 50 unique, ultra-rare manuscripts & early printed books of world renown
  - Songs of the Nibelung, Gutenberg Bible, Ottheinrich Bible, Reichenau Evangeliar etc.

- **“Oriental Books”**
  - Full Title: “Oriental Treasures of the Bavarian State Library” (released May 2011)
  - 20 extremely precious Koran manuscripts and richly illuminated Islamic books
- Digital Books formatted for the high-res, colour-brillant displays of iPad and iPhone
- Both Apps provide the complete books, readable from the first to the last page (!), and: it ‘s free!

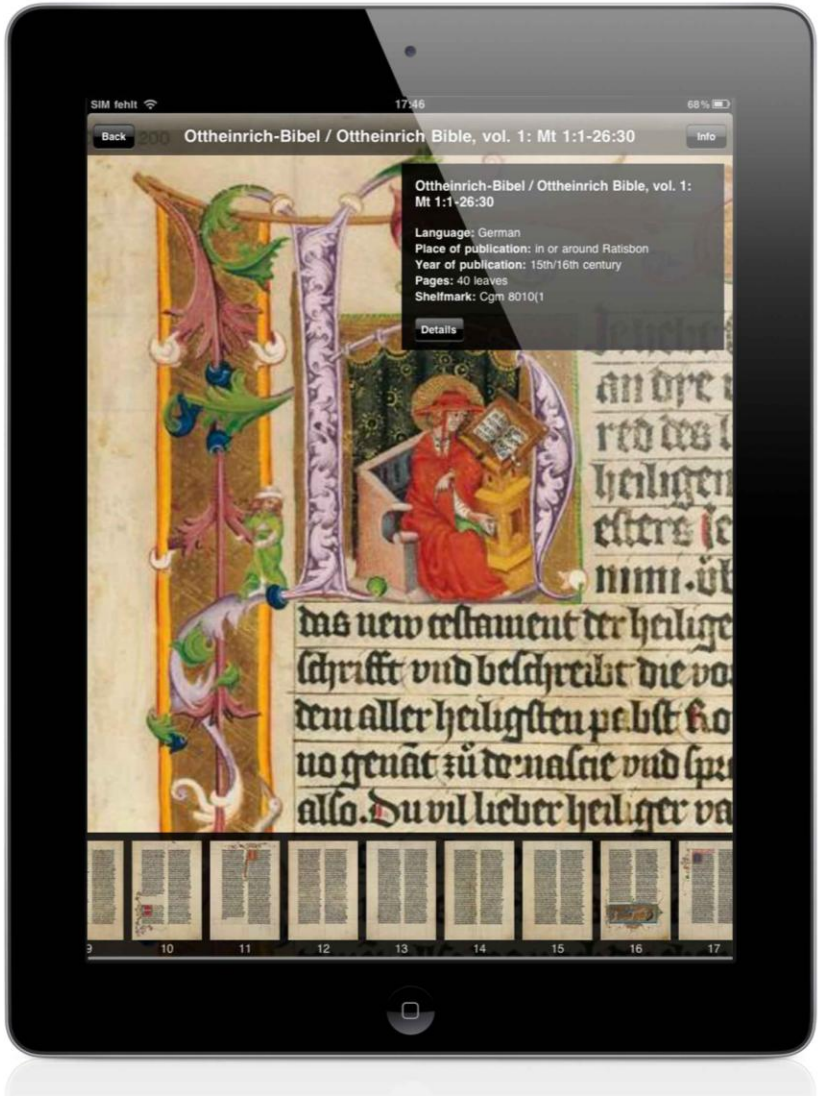
Cultural Heritage ‘on the Go’: “Famous Books” & “Oriental Books”

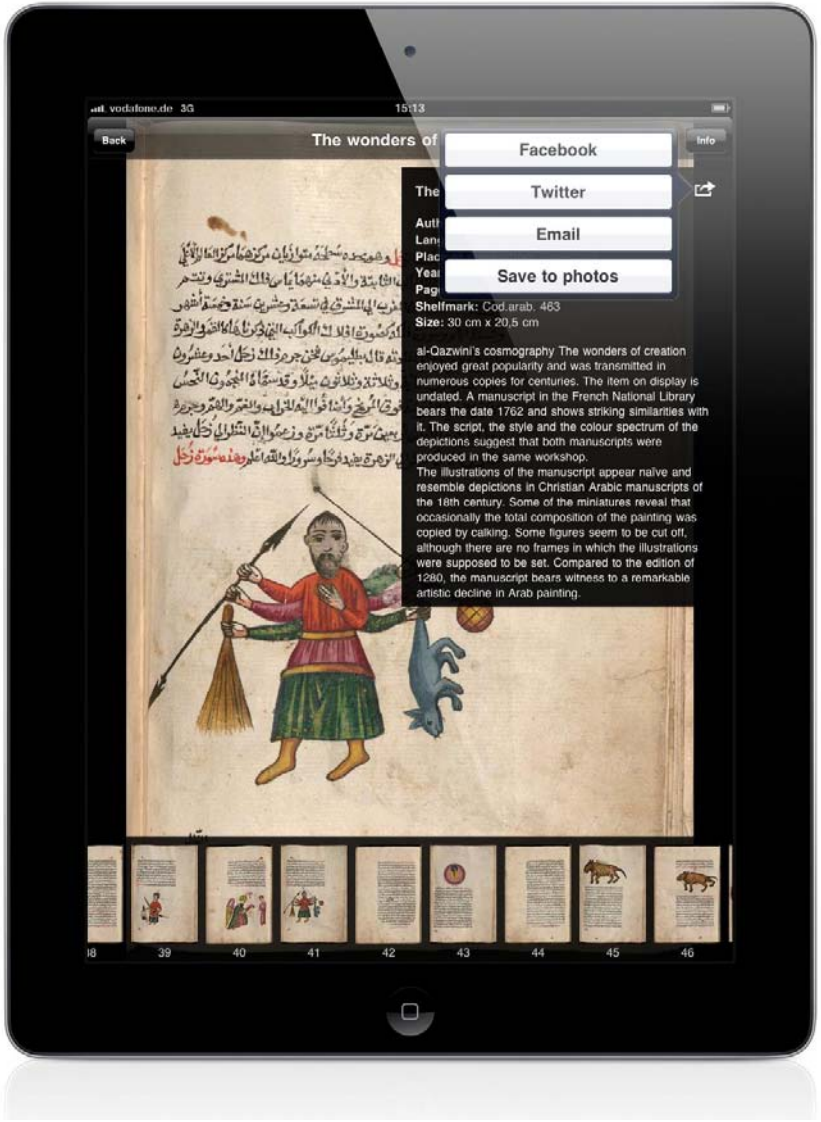


Cultural Heritage ‘on the Go’



Cultural Heritage ‘on the Go’





vodafone.de 3G 15:14

Oriental Treasures of the Bavarian State Library

The wonders of creation al-Qazwini (1203-1283)

Language: Arabic
Place of Publication: Palestine?
Year of Publication: ca. 1750-1770

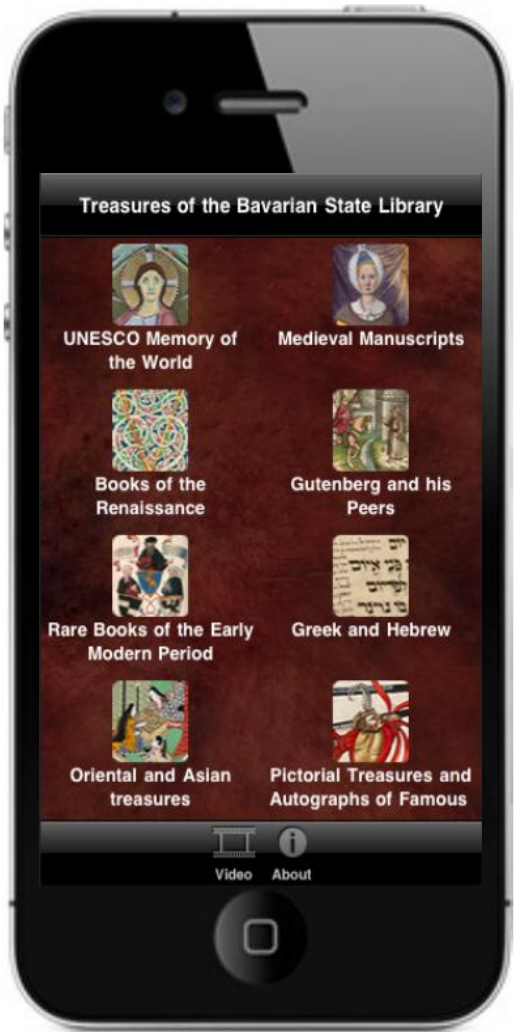
Pages: 200 leaves
Shelfmark: Cod.arab. 463
Size: 30 cm x 20,5 cm

Short Description: al-Qazwini's cosmography The wonders of creation enjoyed great popularity and was transmitted in numerous copies for centuries.

Video About Social

vodafone.de 3G
15:15
Back
The wonders of creation
Info
29
30
31
32
33
34
35
36
37
38
39

...also for the iPhone



SIM fehlt
00:12
Kategorien
Top-Charts
Suchen
18. My Kingdom for the Prin...
Spiele
Erschienen: 18.06.2010
0,79 €
38 Bewertungen
19. MaxiVista
Dienstprogramme
Erschienen: 12.07.2010
7,99 €
20. Fruit Ninja HD
Spiele
Erschienen: 14.07.2010
3,99 €
5 Bewertungen
21. Hotel Imperium HD
Spiele
Erschienen: 14.05.2010
5,49 €
58 Bewertungen
22. Flight Control HD
Spiele
Erschienen: 01.04.2010
3,99 €
64 Bewertungen
23. Zeichen Pad
Unterhaltung
Erschienen: 01.04.2010
1,59 €
25 Bewertungen
24. Real Football 2010 HD
Spiele
Erschienen: 27.05.2010
3,99 €
56 Bewertungen
25. Todo für iPad
Produktivität
Erschienen: 11.05.2010
3,99 €
49 Bewertungen
26. Star Walk for iPad - inter...
Bildung
18. Clinometer HD - bubble l...
GRATIS
40 Bewertungen
19. Famous Books - Treasur...
Bücher
Erschienen: 12.07....
INSTALLIERT
30 Bewert
20. Shazam for iPad
19 Bewert
21. Wondershare iDraft
Produktivität
Erschienen: 30.06....
INSTALLIERT
195 Bewe
22. AppDeals for iPad
Nachrichten
Erschienen: 10.04.2010
GRATIS
54 Bewertungen
23. Touch Hockey Extreme: ...
Spiele
Erschienen: 20.05.2010
GRATIS
346 Bewertunge
24. Drag Racer : Pro Tuner HD
Spiele
Erschienen: 17.05.2010
GRATIS
25. Google Earth
Reisen
Erschienen: 27.10....
INSTALLIERT
1359 Bew
26. MeinProspekt HD
Nachrichten
Highlights
Top-Charts
Kategorien
Updates
12

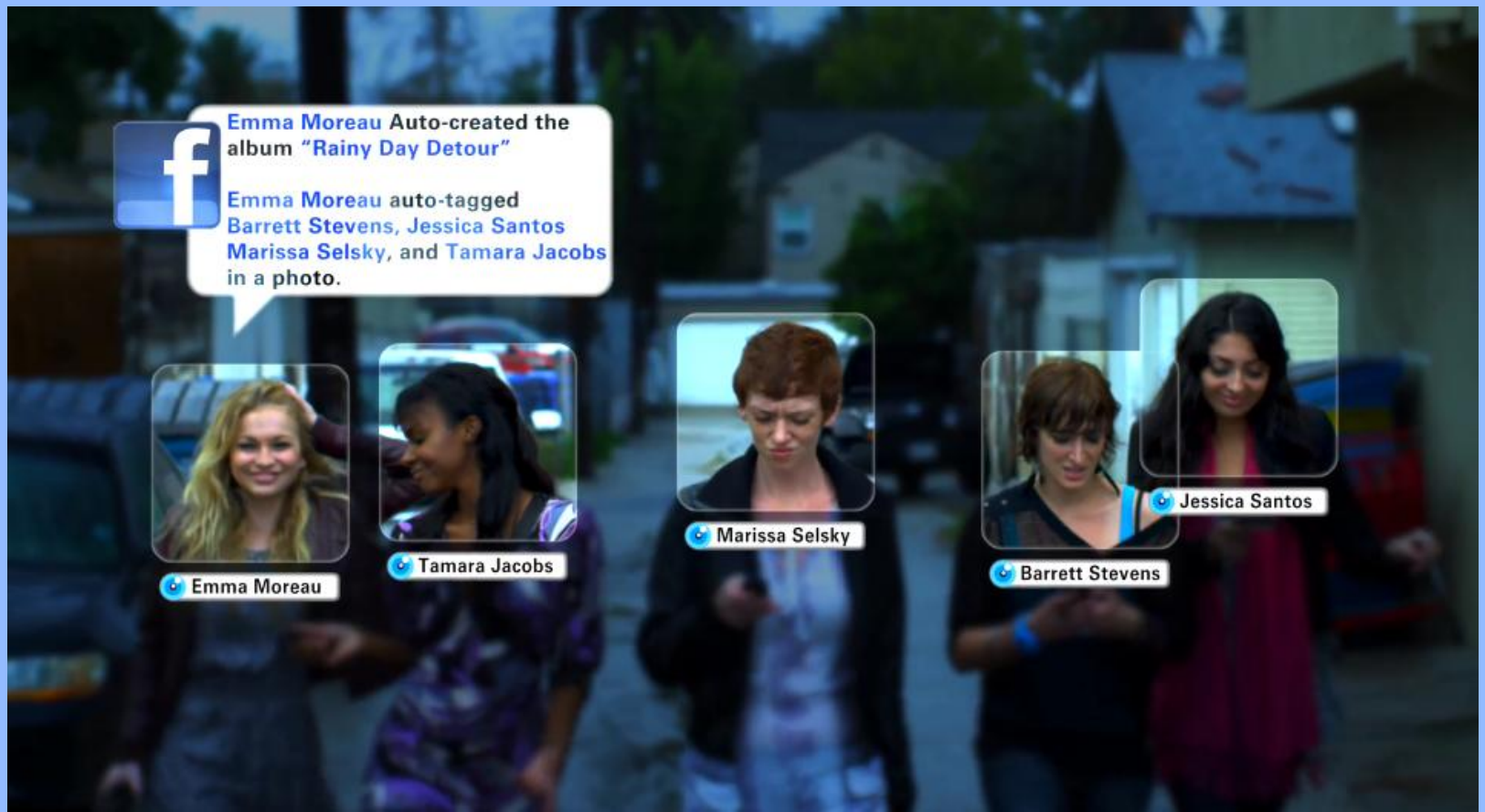
Kategorien: Bücher
Top-Charts
Suchen
TOP iPad APPS (GEKAUFT)
1. Die Elemente:Bausteine u...
Bücher
Erschienen: 21.05.2010
10,99 €
83 Bewertungen
2. The Elements: A Visual E
Bücher
Erschienen: 01.04.2010
18 Bewertungen
3. Knigge – Das Original – Ü...
Bücher
Erschienen: 12.07.2010
1,59 €
4. Alice for the iPad
Bücher
Erschienen: 01.04.2010
6,99 €
5. Enzyklopädie für iPad
Bücher
Erschienen: 30.04.2010
7,99 €
6. The Cat in the Hat - Dr. Se...
Bücher
Erschienen: 11.02.2010
2,99 €
7. Bis(s) zum ersten Sonnen...
Bücher
Erschienen: 12.07.2010
12,99 €
8. Das Ende der Weltwirtsch...
Bücher
Erschienen: 09.07.2010
16,99 €
TOP iPad APPS (GRATIS)
1. iBooks
INSTALLIERT
686 Bewe
2. Famous Books - Treasure...
Bücher
Erschienen: 12.07....
INSTALLIERT
18 Bewert
3. Kindle
GRATIS
187 Bewertunge
4. Globetrotter
Bücher
Erschienen: 24.06.2010
GRATIS
154 Bewertunge
5. Marvel Comics
Bücher
Erschienen: 01.04.2010
GRATIS
2669 Bewertung
6. DC Comics
Bücher
Erschienen: 23.06.2010
GRATIS
80 Bewertungen
7. Free Books - 23,469 class...
Bücher
Erschienen: 01.04.2010
GRATIS
81 Bewertungen
8. BMW Magazine
Bücher
Erschienen: 18.05.2010
GRATIS
252 Bewertunge
Highlights
Top-Charts
Kategorien
Updates

Datei Bearbeiten Anzeige Steuerung Store Erweitert ?
iTunes
Store durchsuc...
MEDIATHEK
Musik
Filme
Fernsehsendungen
Podcasts
Radio
STORE
iTunes Store
Ping
FREIGABEN
Privatfreigabe
GENIUS
Genius
WIEDERGABELISTEN
iTunes DJ
Klassische Musik
Meine Lieblingstitel
Meine Top 25
Musik der 90er
Musikvideos
Zuletzt gespielt
Zuletzt hinzugefügt
Musik Filme TV Sendungen App Store Podcasts Hörbücher iTunes U Ping Anmelden
iPhone iPad
Famous Books
Treasures of the Bavarian State Library
SPIELE MIT FREUNDEN
DIE SIEDLER
Apps fürs neue Schuljahr
iPad
APP STORE AUF EINEN KLICK
App der Woche
iWork
Apps für Kinder
Musik machen
Business Class
Bildbearbeitungs-Kit
Apps aus den iPad Werbe-S...
TOP-CHARTS
Apps (gekauft)
Alle anzeigen
Neu und beachtenswert
Alle anzeigen
Sudoku 2 HD Pro
Spiele
Funcard
Lifestyle
Venice Mystery
Spiele
Mooncake HD
Spiele
kaufDA Navigato...
Nachrichten
Intro to Letters, ...
Bildung
Blue Block for iPad
Spiele
Secret Writer
Lifestyle
Fish Eat Fish™ HD
Spiele
Manuscript for i...
Produktivität
SPORT1
Sport
Fotopedia Herita...
Reisen
1. Zombie Infection HD
Spiele
2. Die Siedler HD
Spiele
3. GoodReader for iPad
Produktivität
4. Pages
Produktivität
5. Pinball HD
Spiele
6. Numbers
Produktivität
7. Keynote
Produktivität
8. Weather Pro for iPad
Wetter
9. AirAttack HD
Spiele
10. Sudoku 2 HD Pro
ANGESAGTE NEUE SPIELE
iFitness HD
DIGITALE NOMADEN
Apps für mobile Kreativität
ZEITUNGSKIOSK

Augmented Reality: Digital Content in Real Life

Augmented Reality (AR)

Overlaying multimedial digital information over a visual representation of the real world, usually captured by a smartphone camera



Location-Based App

Erhältlich im App Store

Cooperating Partners

BSB Bayerische StaatsBibliothek

Information in erster Linie

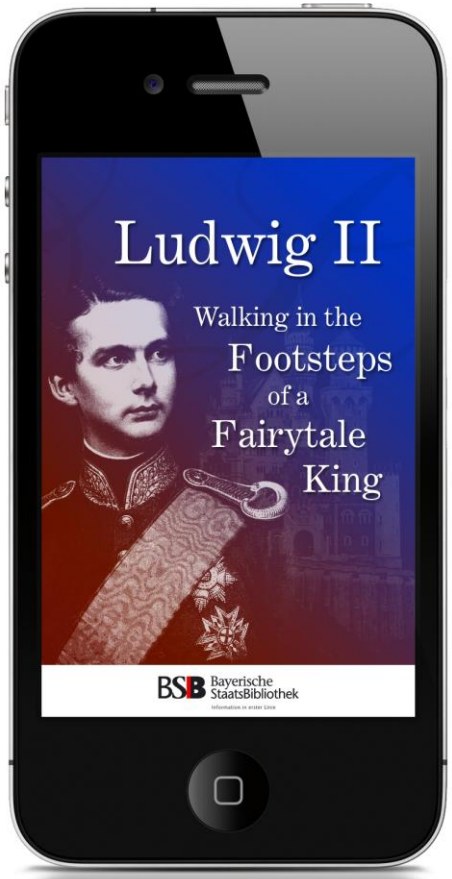
Bayerische Verwaltung der staatlichen Schlösser, Gärten und Seen

BOKOWSKI + LAYMANN

Marketing in Computer-Mediated Environments

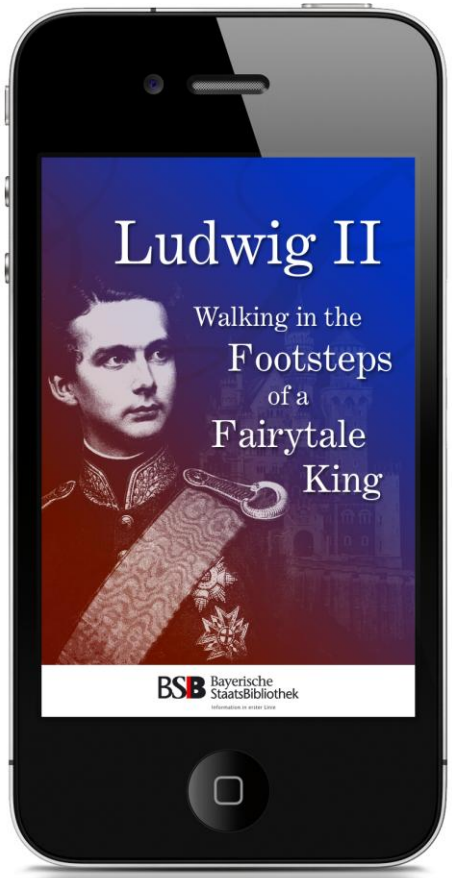
metaio

Unifeye Mobile SDK



Features

- Information about 140 locations, which appear **live in the iPhone camera view.**
- Multimedia descriptions of the 80 places which were most important in the king ‘s life, **optimized** for **iPhone reading habits**.

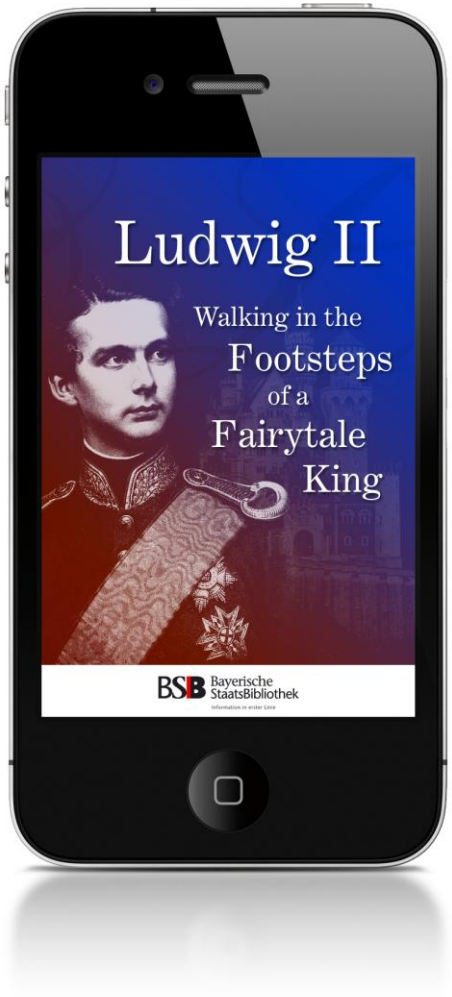


Karte
Kamera
Liste
Brienner Str.
Hofgartenstraße
Feldherrnhalle
Bayerische Akademie der Wissenschaften
Viscardigasse
Cuvilliés-Theater (Altes Residenztheater)
In diesem Theater begann Ludwig sich Privatvorstellungen geben zu lassen – insgesamt 209 Vorstellungen sah er sich von der Fürstenloge aus an.
Mehr
Entfernung:7.7 km
Orte
Personen
Themen
Kalender
25
Album

Karte
Kamera
Liste
294 m
287 m
Nationaltheater
285 m
Residenz München
225 m
156 m
Orte
Personen
Themen
Kalender
25
Album

Features

- **Picture galleries** with 600 photographs, many of them historic
- 25 **portraits** & 5 **special topics**
- 50 **video interviews with experts**
- 6 **audio features** & 47 audio quotes of **witnesses of the period**



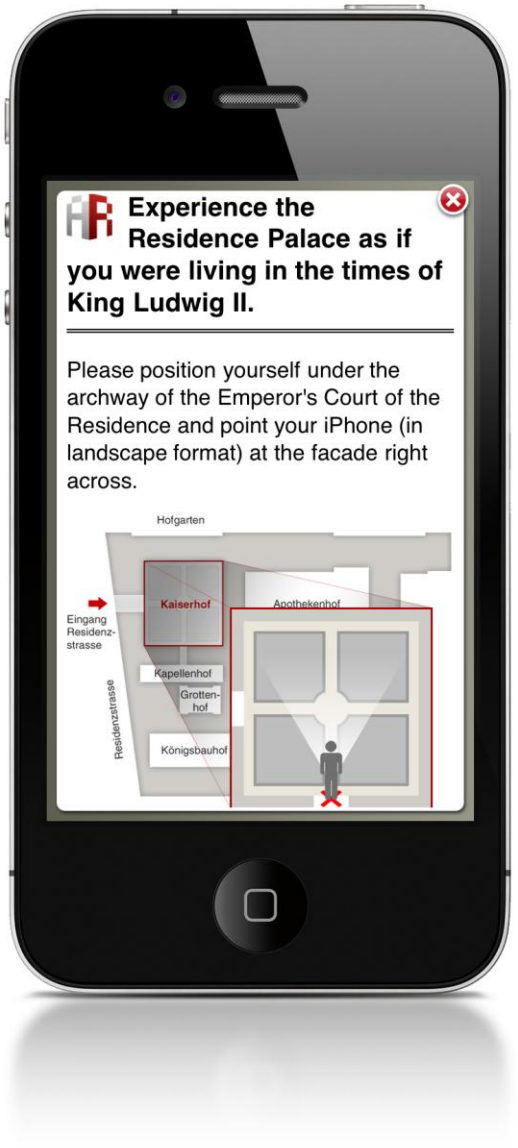
People
Prince Otto von Bismarck
* 01/04/1815 † 30/07/1898
Georg von Dollmann
* 21/10/1830 † 31/03/1895
Count Alfred von Dürckheim-Montmartin
* 21/07/1850 † 10/04/1912
Empress Elisabeth of Austria
* 24/12/1837 † 10/09/1898
Bernhard von Gudden
* 07/06/1824 † 13/06/1886
Places
People
Topics
Calendar
Album

Topics
Ludwig II.
and Architecture
Ludwig II.
Music and
Private Performances
Ludwig II.
and Politics
Ludwig II.
and Technology
Ludwig II.
Life and Myth
Places
People
Topics
Calendar
Album

Augmented Reality-Simulation

A world first: Winter Garden in 3D optical recognition

Augmented Reality (AR) simulation of Ludwig II ‘s famous Winter Garden (which no longer exists) in the Munich residence, appearing **in real time in the iPhone camera view**



11. 1891.

K. Residenz München.

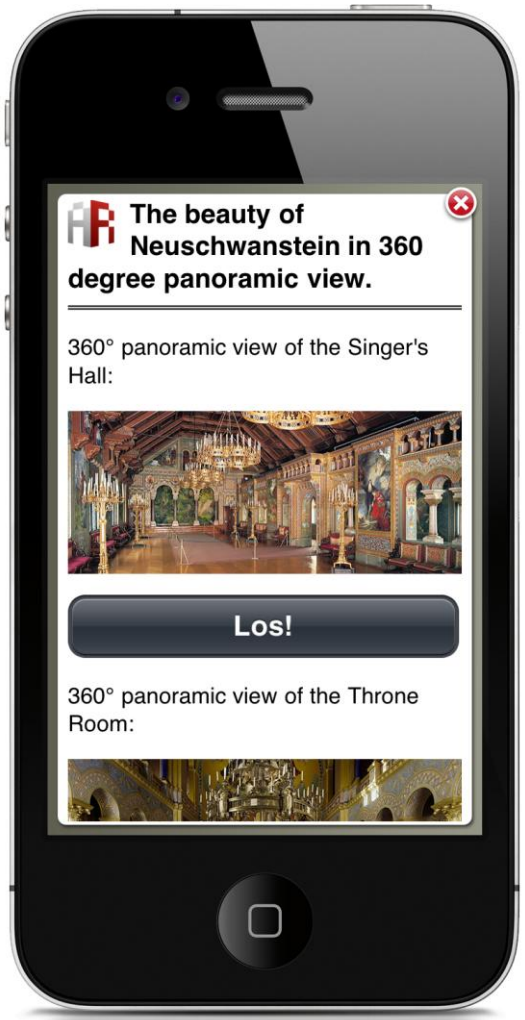
Festsaalbau.

Photograph. Kunstverlag von Otto Weihrauch, München.

Gesetzlich geschützt.

360 Degree Panorama View

360 Degree Panorama View of the Throne Room and Singers ‘ Hall at Neuschwanstein Castle as an Augmented Reality feature



3D Simulation

An admission ticket becomes alive – **digital thumbnails** of the royal palaces of Linderhof, Herrenchiemsee and Neuschwanstein as **3D simulation**.

HOF
SCHLOSS

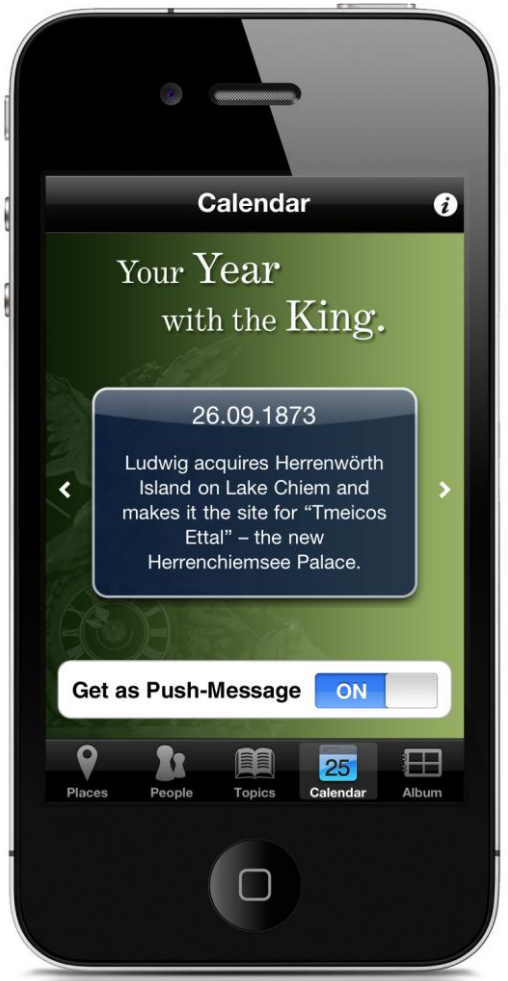
„Gamification“

Virtual „gifts“ from many of the places related to the life of Ludwig II, which can be stored in the **digital scrapbook of the App**, e.g. the hourly chime of the planetary clock at Herrenchiemsee Palace as a ringtone

Push Messages

Enhancing user loyality via push messages for the iPhone:

„Join the king day by day“ – historical events on 147 days of the year



Unique Content in Innovative Context

- In **English** and **German**
- Fully available **offline**, ideal for tourist applications
- All content compiled by **qualified experts**
- **Free of charge!**

Not only for the iPhone...

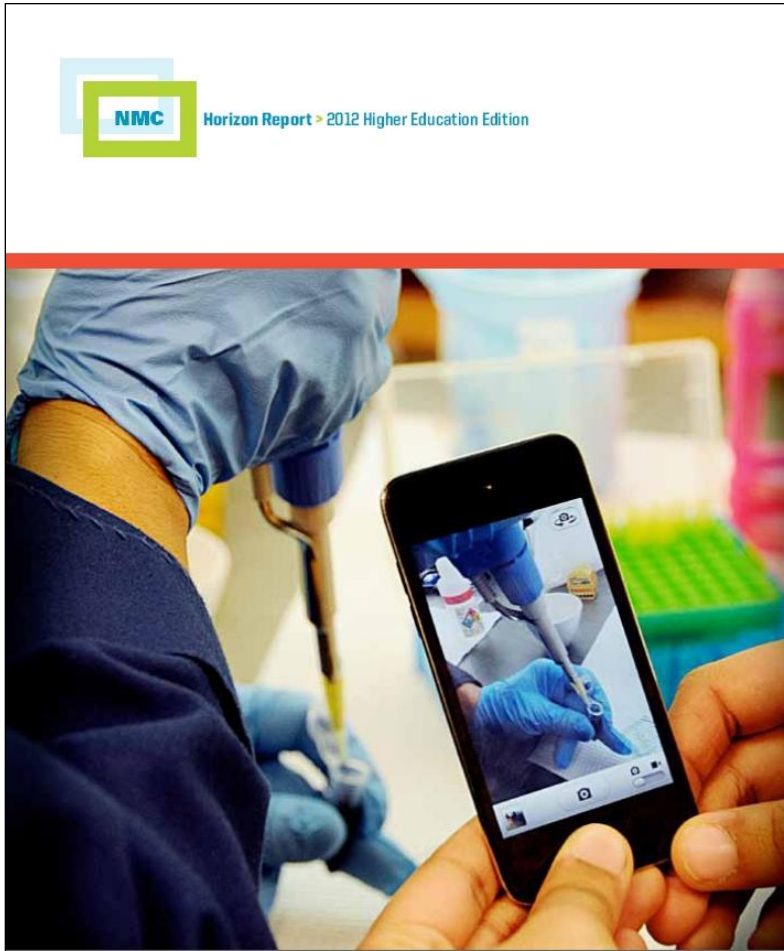
In a slightly reduced version also available for the Augmented Reality browsers **Junaio**, **Layar** and **Wikitude** for the platforms **iOS**, **Android**, **Symbian OS**, **BlackBerry7** and **Bada**!

Gesture-Based Computing

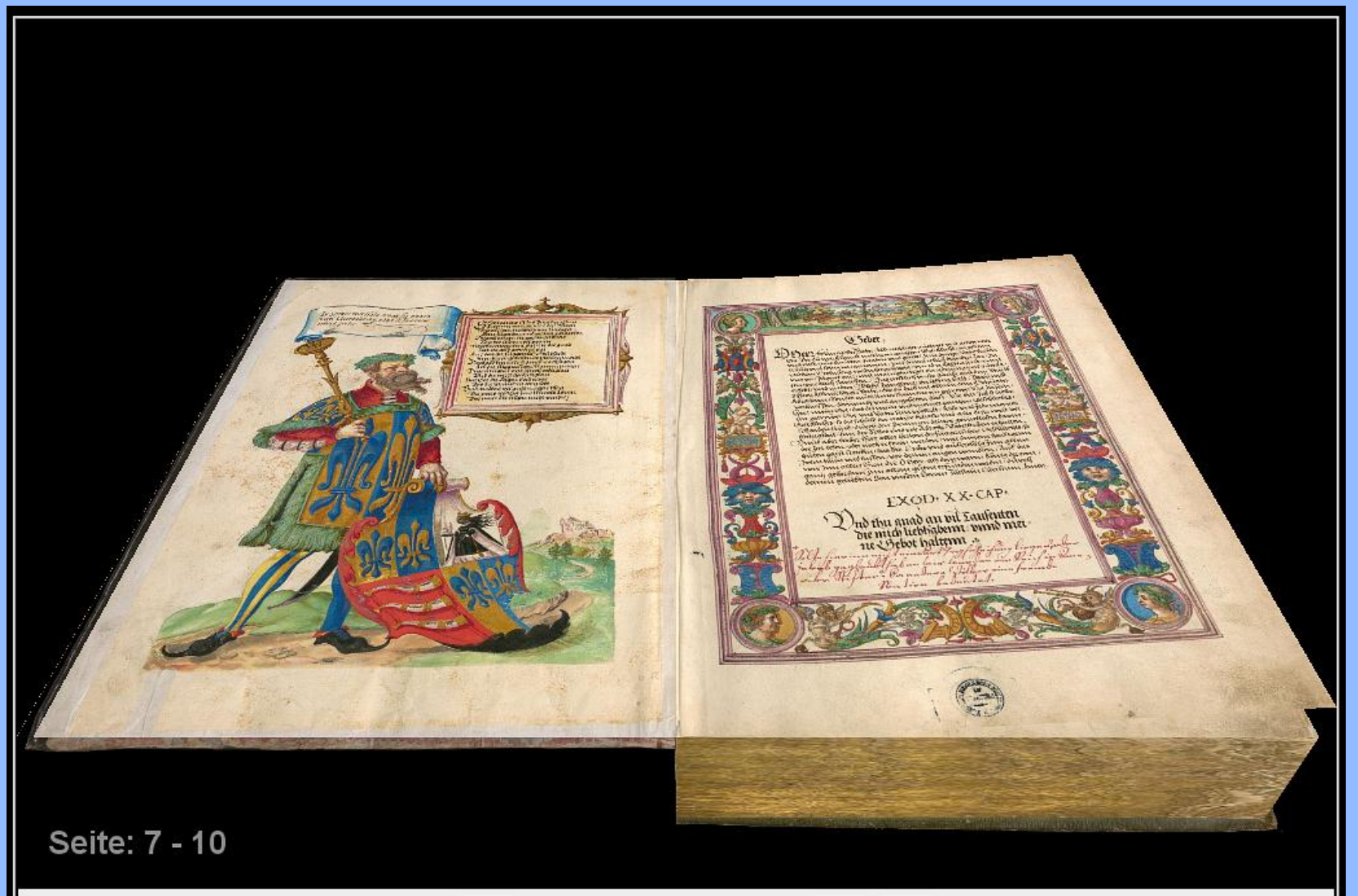
Gesture-Based computing

"Gesture-based computing allows users to engage in virtual activities with motions and movements similar to what they would use in the real world, manipulating content intuitively."

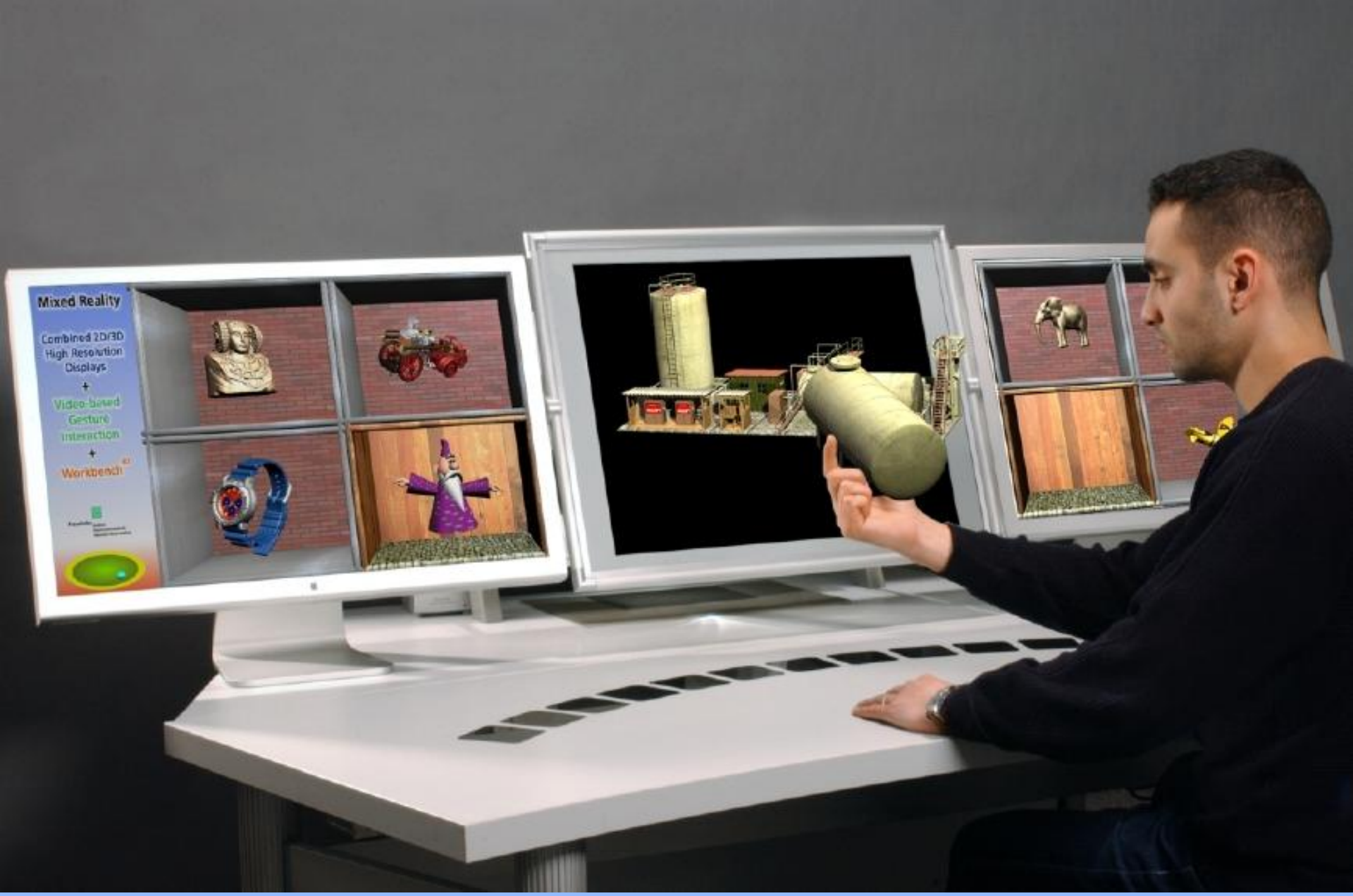
(Horizon Report 2012, p. 26)



3D – Digital Books



Gesture-Based Computing


Mixed Reality
Combined 2D/3D
High Resolution
Displays
+
Video-based
Gesture
Interaction
+
Workbench

Conclusion

„All-Pervasive Internet“

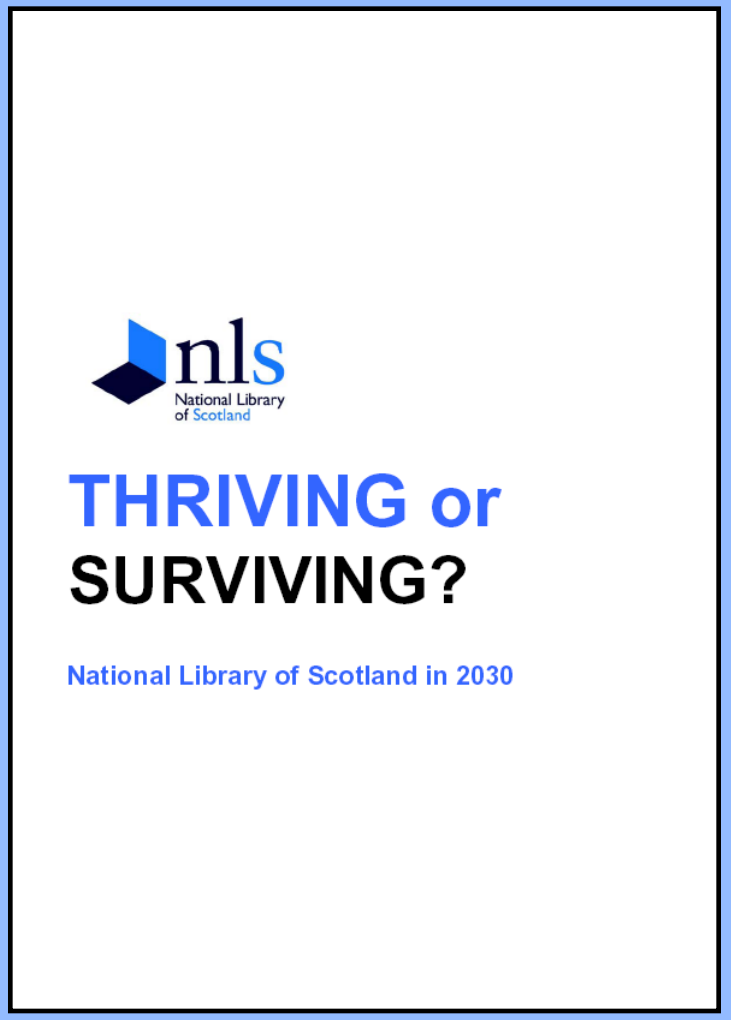
Complete Integration of Digital Information into Daily Life

Context-Aware Computing

- Connect information to real-world locations: **WHERE** people need it most!
- Connect information to individual activities and needs „on the spot“: **WHEN** people need it most!

“The library becomes not a centrist organisation but a highly distributed conceptual space for a nation´s cultural memory.”

National Library of Scotland (2010): Thriving or Surviving? National Library of Scotland in 2030, p. 47



Library Everywhere/ Anytime

Wired US, Aug 2009

Relax!
Future is bright for Libraries!

Thank you very much for your kind attention!

Website Bavarian State Library

http://www.bsb-muenchen.de

Mobile Website Bavarian State Library

http://m.bsb-muenchen.de

(mobile) Online Catalogue Bavarian State Library

https://opacplus.bsb-muenchen.de

(mobile) Bavarian Union Catalogue

https://opacplus.bib-bvb.de

Munich Digitization Center

http://www.digital-collections.de

Facebook

http://www.facebook.com/BayerischeStaatsbibliothek

Twitter

http://twitter.com/bsb_oea

Apple ‘s App Store:

- ”Famous Books“
- ”Oriental Books“
- ”Ludwig II“