





Contextualizing and Decontextualizing Adding Value to Collections in Digital Ecosystems

Dr. Klaus Ceynowa, Bavarian State Library



Agenda



Science & Research

Manuscript Workbench, Image Similarity Search

1

Culture

Location Based Service, GLAM Portal “bavarikon”

2

Library as Place

Inhouse Navigation

3

Preservation

Arts Technology

4

Founded in 1558

921 employees

10.4 million volumes

Third-party funds:
11,5 millionen €

Annual budget:
53.5 Millionen €

Acquisitions per year:
140,000 volumes

59,000
current periodicals

500,000 e-books

Document delivery:
295,000

112 hours open per
week

More than 1.1 million
digitized titles

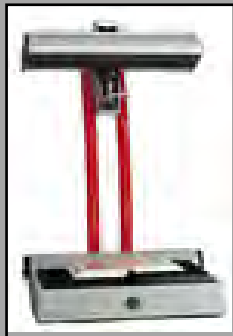
130,800 manuscripts

20,000 incunabula

116,000 printed books
of the 16th century

Bavarian State Library Digitization Center

Largest scanner fleet of cultural institutions in Germany (35 devices)



1x Zeuschel OS 11.000 A0

7x Zeuschel OS 14.000 A1

1x Zeuschel OS 14.000 TT A2

1x Zeuschel OS 15.000 Advanced

4x Trentus ScanRobot MDS 2.0

2x "Grazer Kameratisch" / Zeuschel OS 10.000

1x Traveller = kleiner, mobiler "Grazer Kameratisch"

1x Thermographische Kamera mit spezieller Buchwiege



1x Hasselblad H4D-200 MS

1x Hasselblad H5D-200 MS

1x Nikon Coolscan 9000

1x Kodak i4600

1x Polymetric QTSculptor -Farb 3D Scanner

1x Zoller + Fröhlich Laserscanner

1x Nikon D 70

1x Canon EOS 5 D

1x Canon EOS 5 D Mark II



1x Linhof mit PhaseOne-Back

1x Cobra V-Scan

1x book2net "Profi"



More than 900,000 PDF downloads of complete works from the Bavarian State Library Digital Collections per year (2,400 per day)

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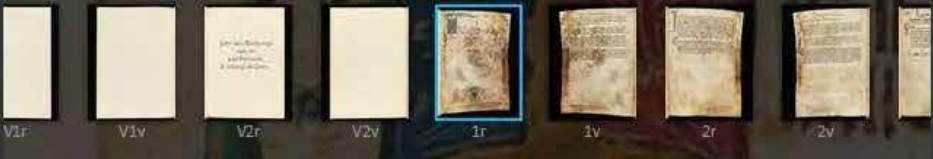
3

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Castro, Archivio parrocchiale, s. n.



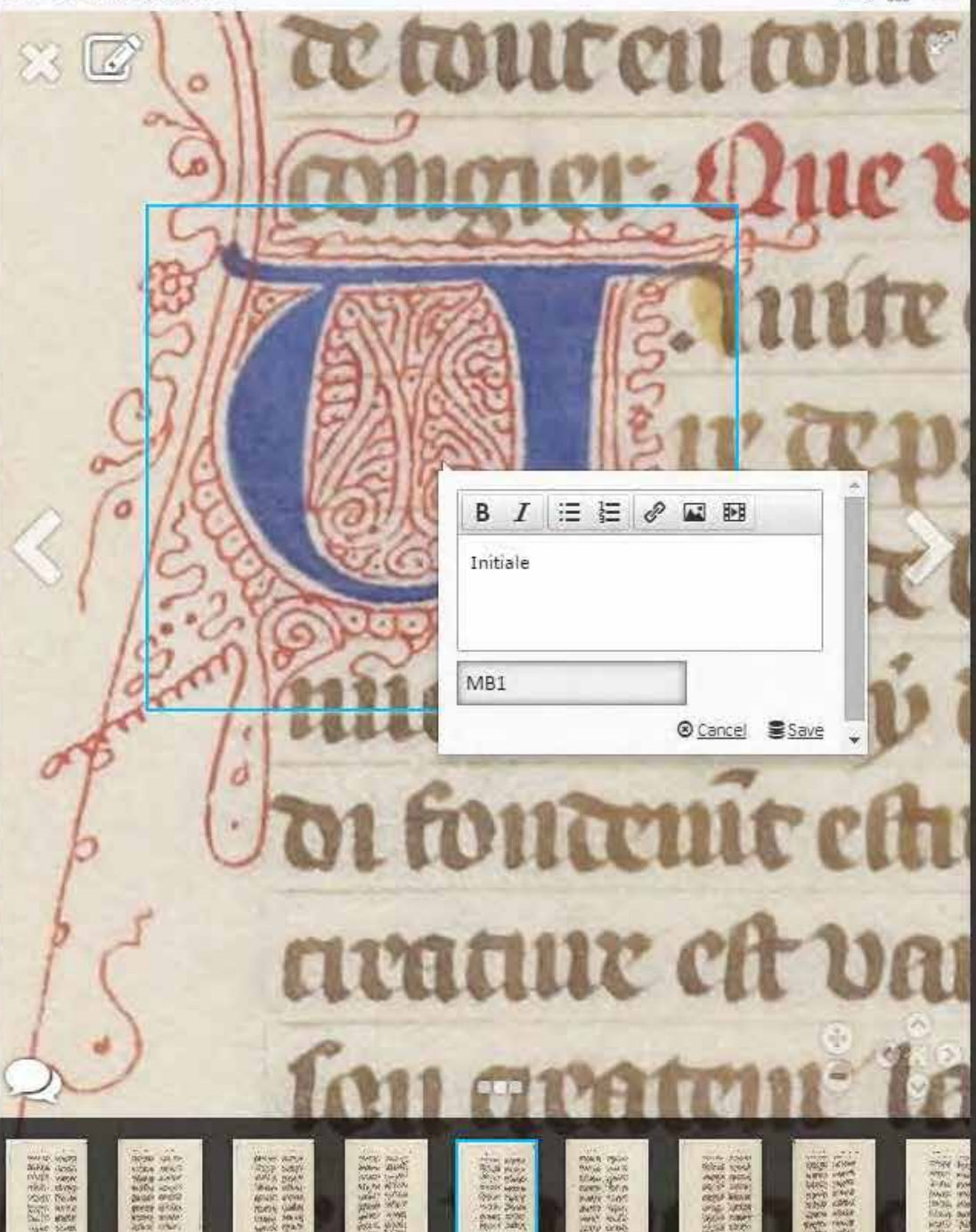
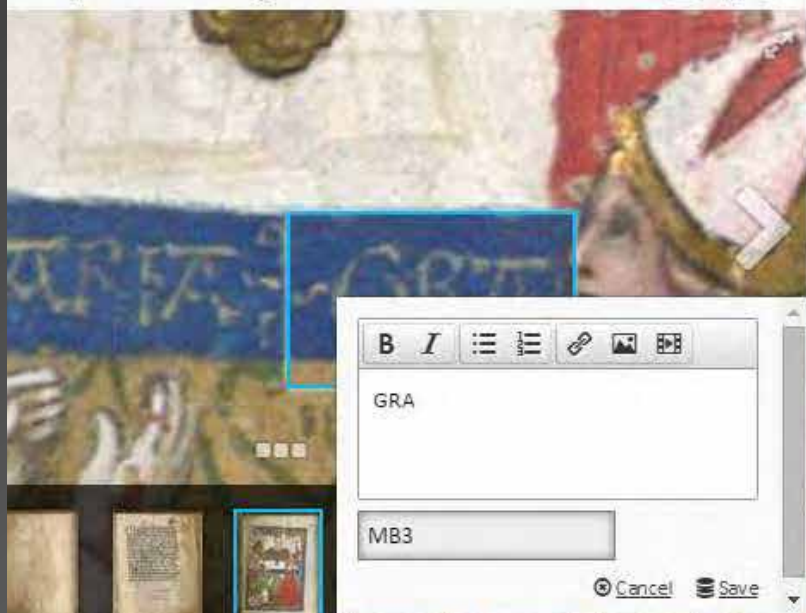
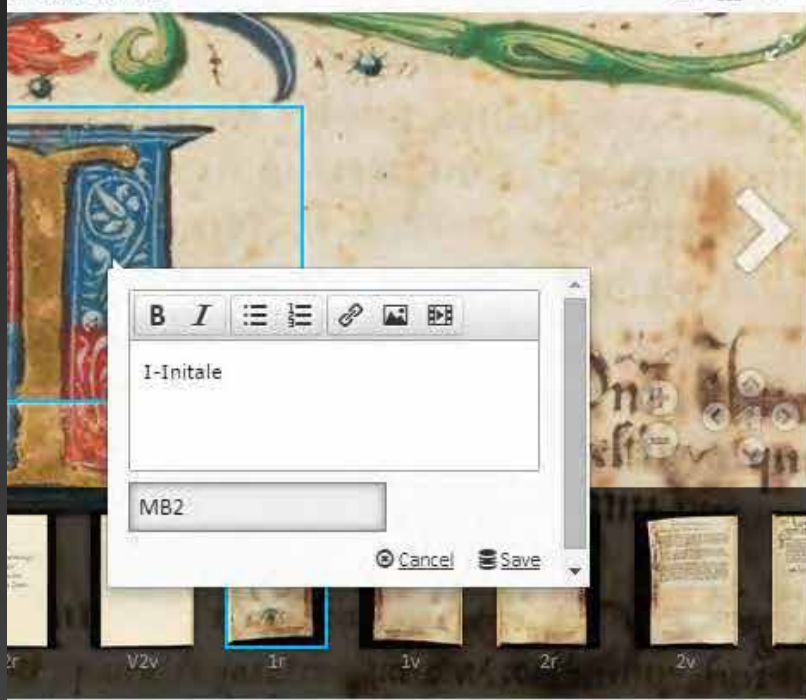
Besançon, Ms. 434

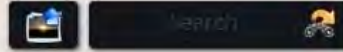


Breviarium Romanum, deutsch - BSB Cgm 85



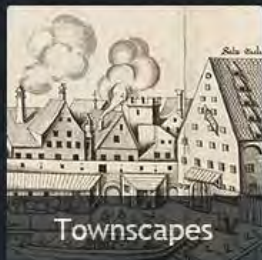
International Image
Interoperability
Framework (IIF)





Motifs

The Similarity based image search gives you the opportunity to search inside of more than 5 million images identified automatically from manuscripts, old prints, maps and other works from the holdings of the Bavarian State Library, published between the 9th and the 20th century. Please note that you can customize your search.



Options

Time frame

1013 - 1945



Color Edge Ratio: This controller weights the color edge ratio of the search. A value of 0.5 considers colors and edges equally.

0.55

Edges



Colors

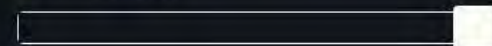
Minimum similarity: This controller sets the minimum similarity. The higher the value, the higher the similarity, while 1.0 would be congruence. It is recommended to set a value of at least 0.85 but not higher than 0.95.

Minimum similarity 0.85



Results: Maximum number of results to be displayed

150 Results



Reset to default

Image-based Similarity Search



Suchbegriff

Motive

Erkunden

Suchoptionen

Suchvorlage: Miniatur 28 und 29 (#)

aus: Mettener Regel - BSB Clm 8201 d [Clm 8201 d], Metten 1414



alle Bilder aus diesem Buch

Buch aufschlagen

Treffer: 9 ähnliche Bilder



Miniatur 10 und 11 (#)
Seite 36
aus Mettener Regel - BSB
Clm 8201 d ... (1414)

ähnliche Bilder finden



Miniatur 21 und 22 (22)
Seite 47
aus Mettener Regel - BSB
Clm 8201 d ... (1414)

ähnliche Bilder finden



Miniatur 17 (20)
Seite 43
aus Mettener Regel - BSB
Clm 8201 d ... (1414)

ähnliche Bilder finden



Miniatur 8 und 9 (#)
Seite 34
aus Mettener Regel - BSB
Clm 8201 d ... (1414)

ähnliche Bilder finden



Abbildung
Seite 139
aus *Guillelmus Postilla
Guillerini super
Epistolae & Evangelia de
ter...*

ähnliche Bilder finden

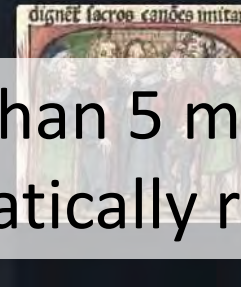


Abbildung
Seite 503
aus *Gregorius Decretales
... (1482.07.14)*

ähnliche Bilder finden

More than 5 million images
automatically recognized

Suchoptionen

Farb/Kantenähnlichkeit



Bei einem Wert von 0.5 wird gleichermaßen nach Ähnlichkeiten in Farb- und Kantenmerkmalen gesucht.

Mindestähnlichkeit



Je höher der Wert, desto größer die Ähnlichkeit. 1.0 bedeutet Deckungsgleichheit. Es wird ein Wert zwischen 0.85 und 0.95 empfohlen.

Alle Werte zurücksetzen

Ähnliche Bilder für bav:HBG-BAL-0000000000000166



Beckert, August
Alpspitze



Beckert, August
Wettersteingebirge



Beckert, August
Kreuzeck



Beckert, August
Garmisch



Beckert, August
Alpspitze



Kölbl, Franz
Hochalm, Wettersteingebirge



Beckert, August
Lermoos



Kölbl, Franz
Hochalm, Wettersteingebirge



Beckert, August
Wallfahrtskirche St.Anton,
Garmisch-P...

Ähnliche Bilder

Beckert, August: Kreuzeck



Über das Objekt



Bayerische Staatsbibliothek

Ähnliche Bilder

Beckert, August: Kreuzeck



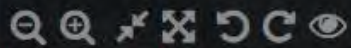
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Ähnliche Bilder

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App “Bavaria in Historical Maps” for iOS and Android



Information contextualised “on the spot”
Historical Google Maps

Bavaria in Historical Maps

5 maps with 260 map sheets

Phillipp Apian's land boards (1568)

Frederick de Wit, Circulus Bavaricus, Franconius, Suevicus (1670 - 1690)

Güssefeld maps (1782/1796)

Topographical atlas of the Kingdom of Bavaria (1812-1867)

Map of the German Empire (1876ff.)

2,500 points of interest (texts, images, audios, videos, information on locations etc.)

1,000 views of locations by Hartmut Schedel, Matthäus Merian d. Ä. and Michael Wening

15 location portraits

Special focus on Nuremberg



Stadtplan Nürnberg von 1808

1648

1730

1808

1830

1895

Jetzt



<http://www.youtube.com/watch?v=i3zF6CbwDz4>



Bayern in historischen Karten



Gekauft

Umsatzstärkste...

Gratis

- 1  **ForeverMap 2 - Weltweite Offline...**
Reisen
★★★★☆ (186) 1,79 €
- 2  **Flightradar24 Pro**
Reisen
★★★★☆ (66) 2,69 €
- 3  **ADAC Camping- und Stellplatzführer 2013**
Reisen
★★★★☆ (39) 8,99 €
- 4  **MarineTraffic Ships & Wind**
Reisen
★★★★☆ (74) 3,59 €
- 5  **GEO Special New York**
Reisen
★★★★☆ (81) 7,99 €
- 6  **GEO Special Hamburg**
Reisen
★★★★☆ (40) 7,99 €
- 7  **Mein Reiseplaner**
Reisen
★★★★☆ (10) 1,79 €
- 8  **Travel Voice Translator**
Reisen
★★★★☆ (20) 0,89 €
- 9  **GEO SAISON Mallorca**
Reisen
★★★★☆ (42) 3,59 €



- 1  **Bayern in historischen...**
Reisen
★★★★☆ (14) **ÖFFNEN**
- 2  **Google**
Reisen
★★★★☆ (109) **INSTALLIEREN**
- 3  **DB Navigator für iPad**
Reisen
★★★★☆ (249) **ÖFFNEN**
- 4  **HolidayCheck HD**
Reisen
★★★★☆ (565) **GRATIS**
- 5  **Hotel Suche HRS für iPad**
Reisen
★★★★☆ (23) **GRATIS**
- 6  **Lufthansa for iPad**
Reisen
★★★★☆ (26) **GRATIS**
- 7  **ebookers Reisen: Hotels, Flüge,...**
Reisen
★★★★☆ (14) **GRATIS**
- 8  **Booking.com Hotelreservierung...**
Reisen
★★★★☆ (204) **GRATIS**
- 9  **TripAdvisor Hotels Flüge Restaurants**
Reisen
★★★★☆ (10) **GRATIS**

Cultural Platform „bavarikon“



Orte



Glanzlichter



Themen



Literaturportal



Literatur zu Bayern



Bildähnlichkeitssuche



Karten



3D Objekte



Historisches Lexikon



Personen



Institutionen



Objekte

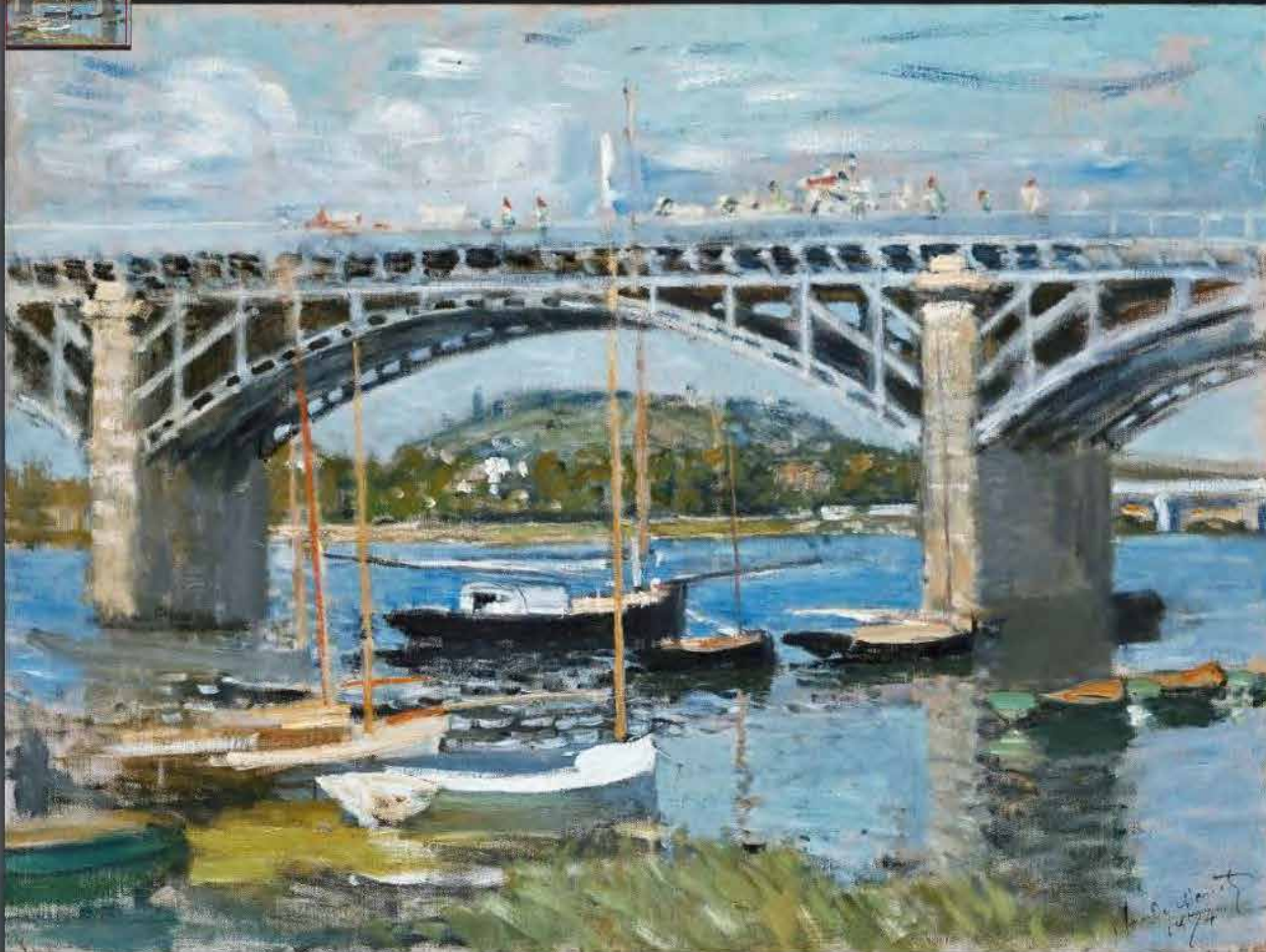
bavarikon
Kultur und Wissensschätze Bayerns

Ähnliche Bilder

Claude Monet (1840-1926): Seinebrücke von Argenteuil



Über das Objekt



Neue Pinakothek

← Zurück zur Trefferliste

Ähnliche Bilder

Karl der Große schenkt dem Regensburger Kloster St. Emmeram Land südlich des Klosters



Über das Objekt



Arboreus, Heinrich: Himmelsglobus – BSB Cod.icon. 186

Über das Objekt



Bayerische Staatsbibliothek

Arboreus, Heinrich: Himmelsglobus – BSB Cod.icon. 186

[Über das Objekt](#)<http://bavarikon.de/object/BSB-DDD-0000000000GLO002>[Himmelsglobus – BSB Cod.icon. 186](#)

Von: Heinrich Arboreus. Bemalung von Hans Donauer dem Älteren, Gestell von Hans Aernhofer, Mechanik und Armierung von Ulrich Schniep.

[Erweiterte Beschreibung](#)

Arboreus, Heinrich
Donauer, Hans
Aernhofer, Hans
Schniep, Ulrich

[S.l.]

1575

1 Globus 165 x 76 cm

Latein

Himmel
Globus
Himmelskugel
Geografie
Kartografie

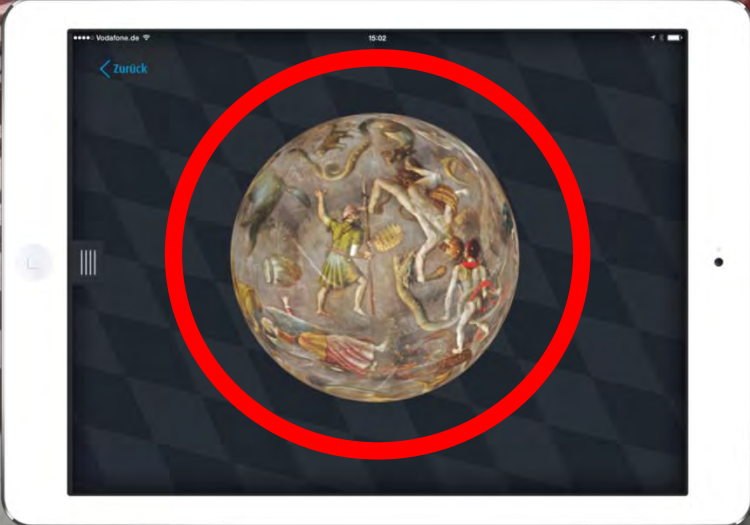
Bayerische Staatsbibliothek

Bayerische Staatsbibliothek

Bayerische Staatsbibliothek - Signatur:
Cod.icon. 186

<http://codicon.digitale-sammlungen.de/treff2feld.html?feld1=idno&anfrage1=%22Cod.icon.%20186%22&suche-in=bsb00001353&suche-in=inventicon&>

Bayerische Staatsbibliothek





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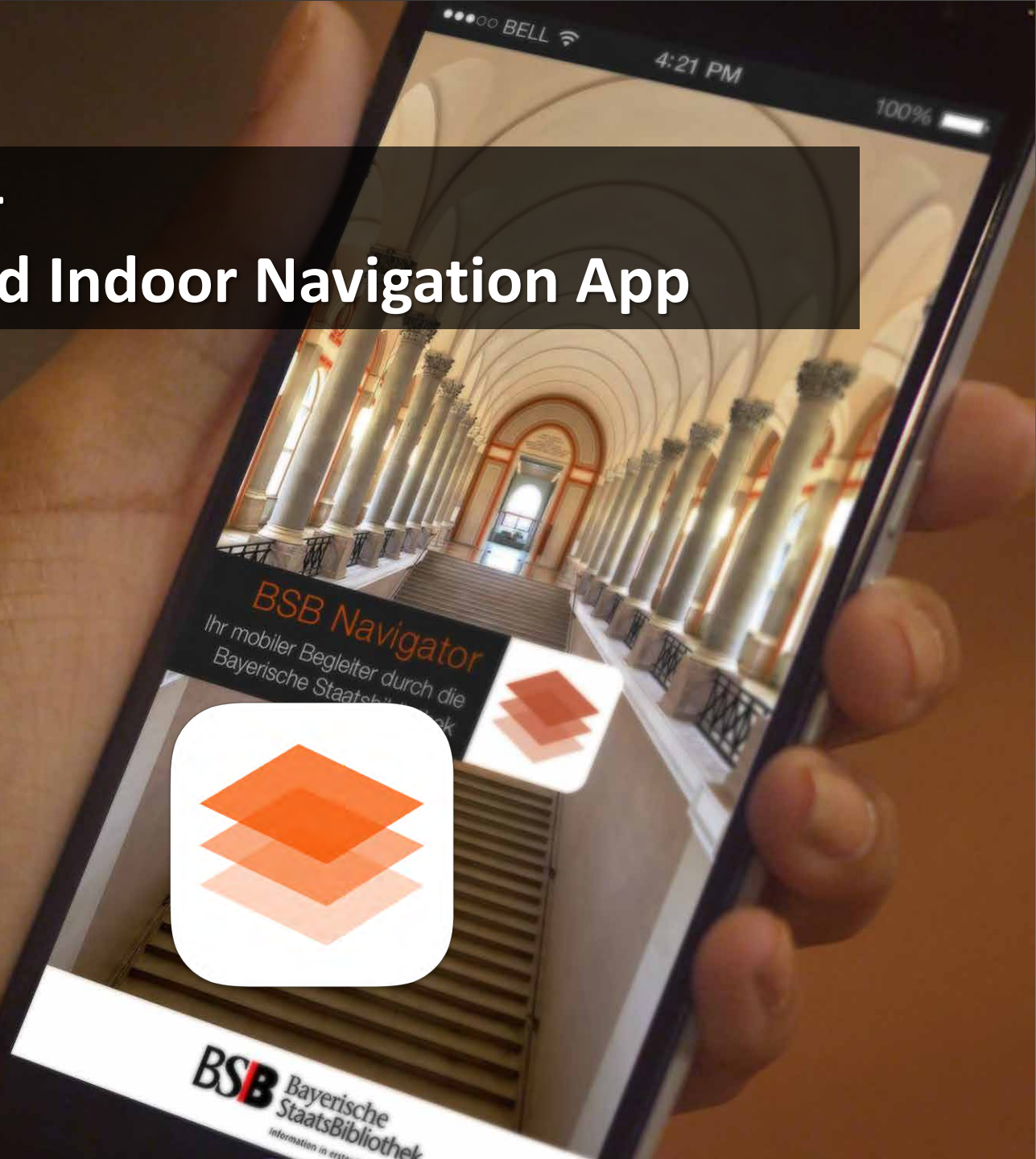
3

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BSB Navigator – A Beacons Based Indoor Navigation App

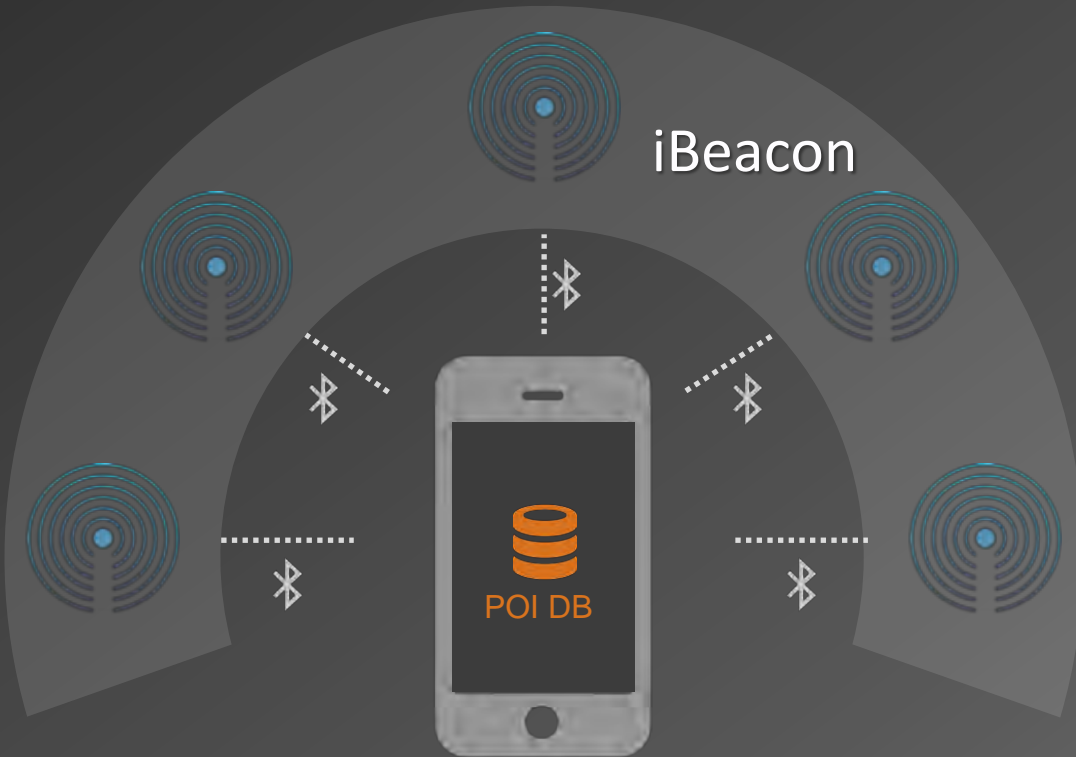


Beacons: Bluetooth Low Energy Signal Generators



245

How does it work?



Proximity



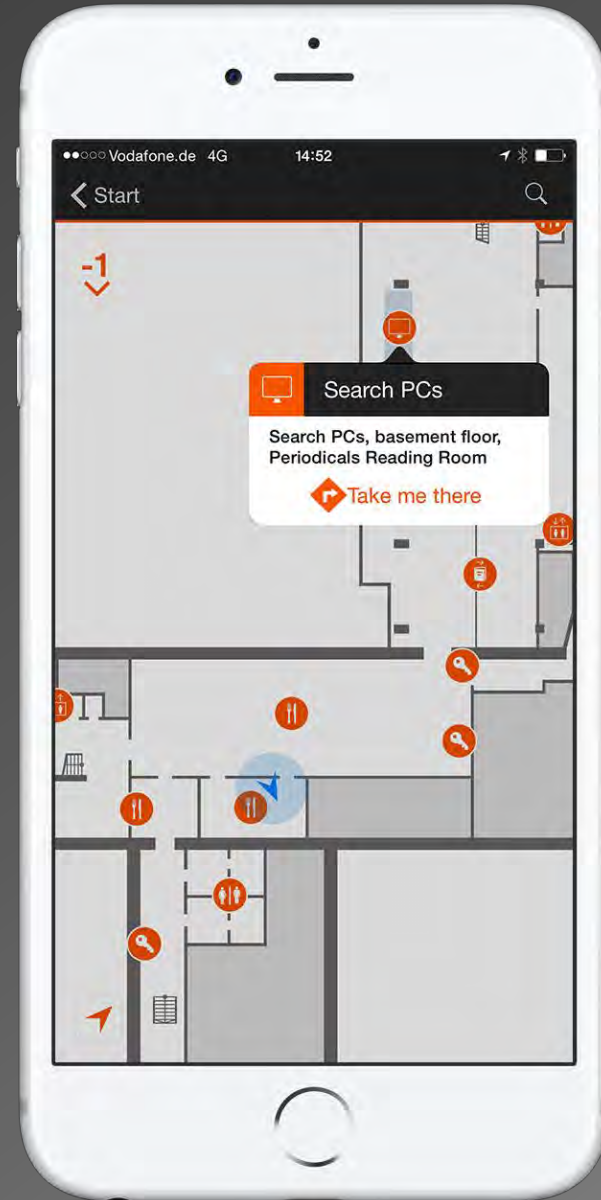
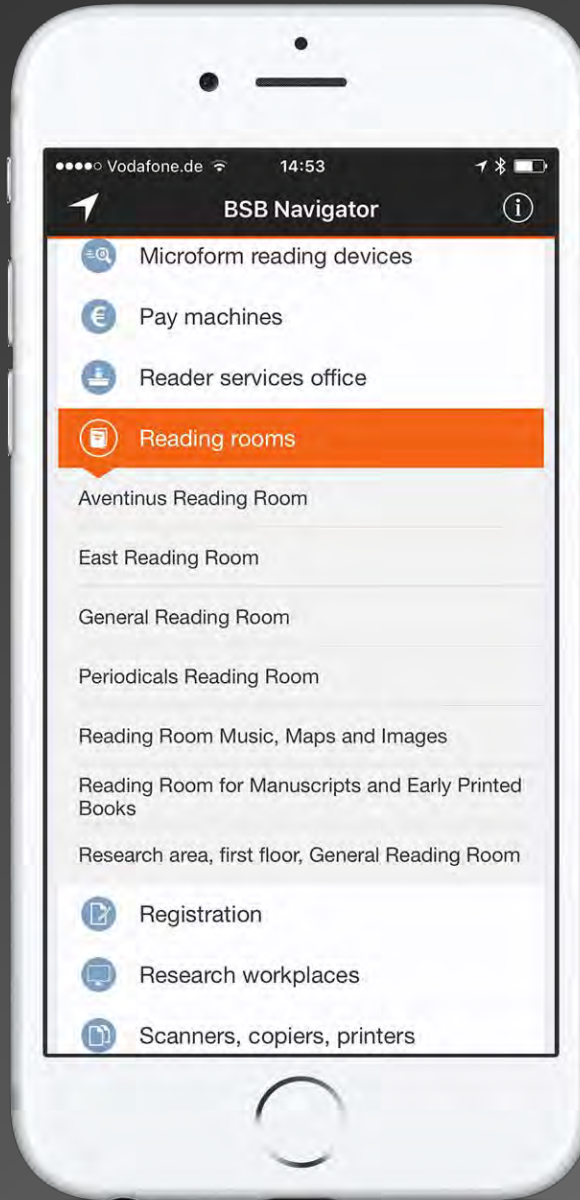
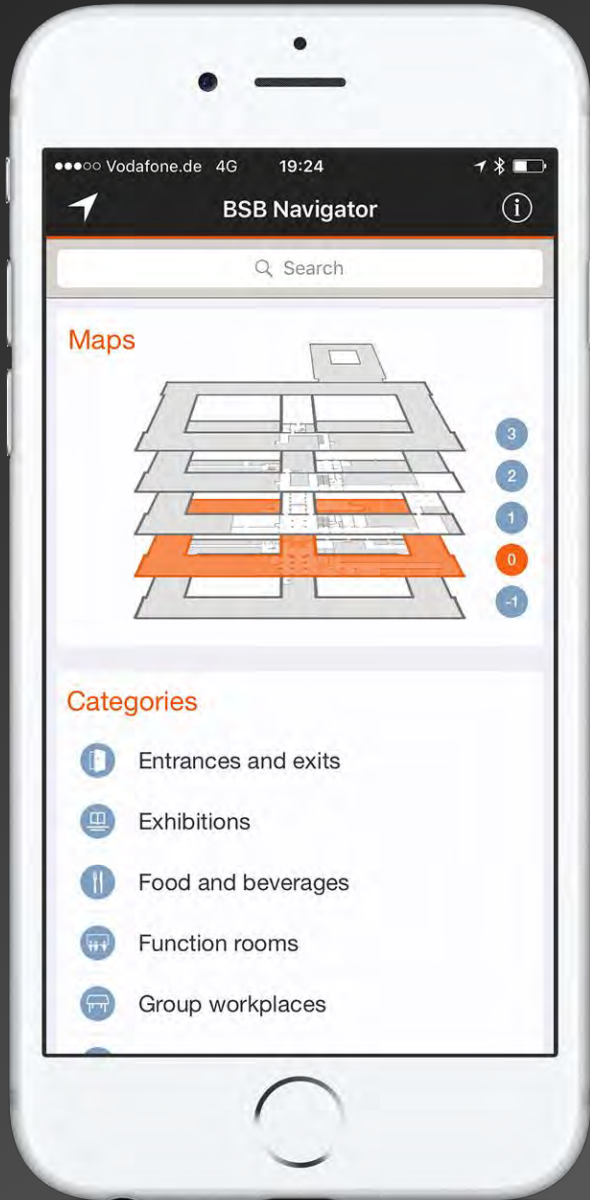
Trilateration

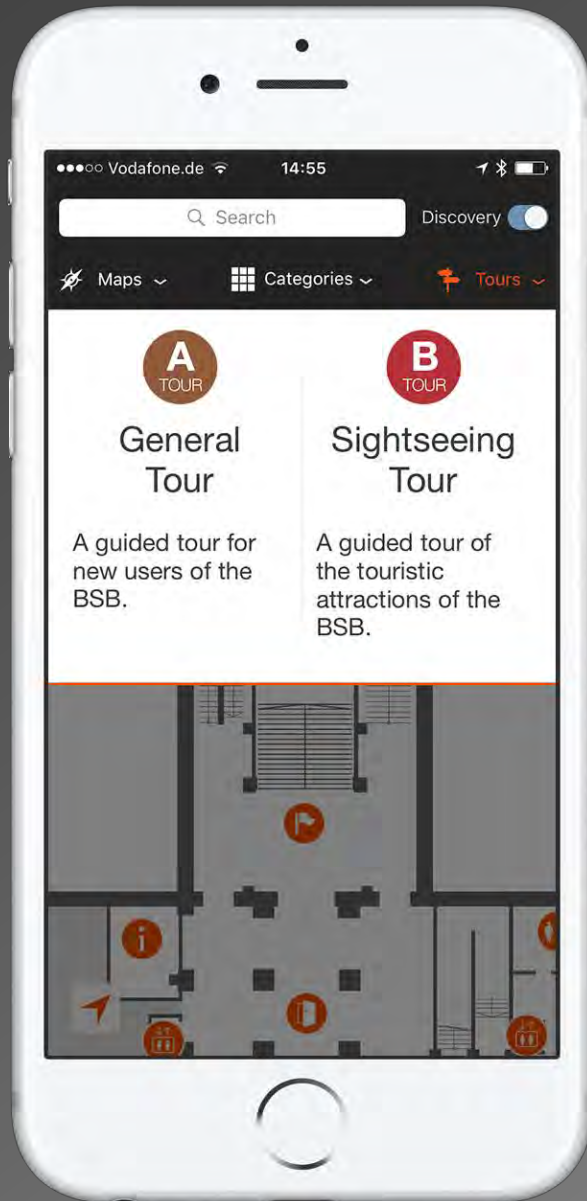
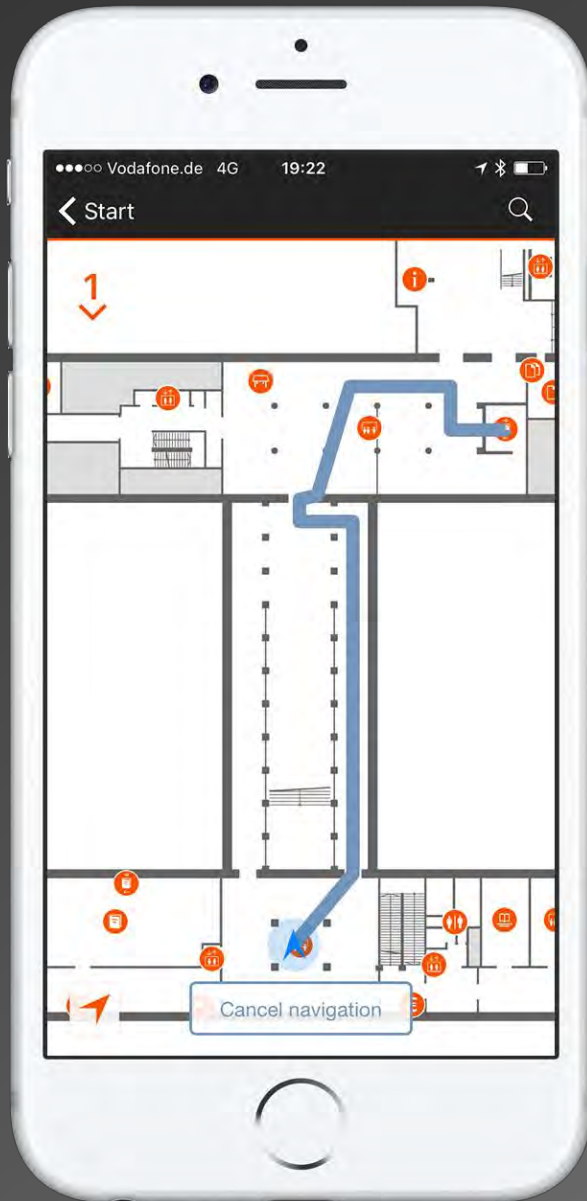
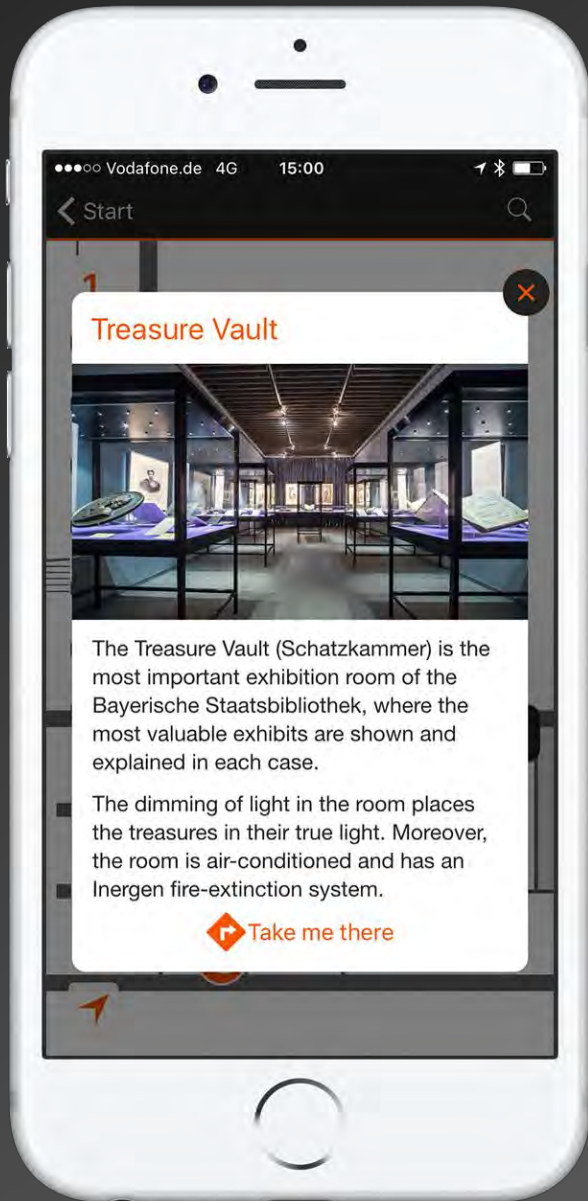


Fingerprinting

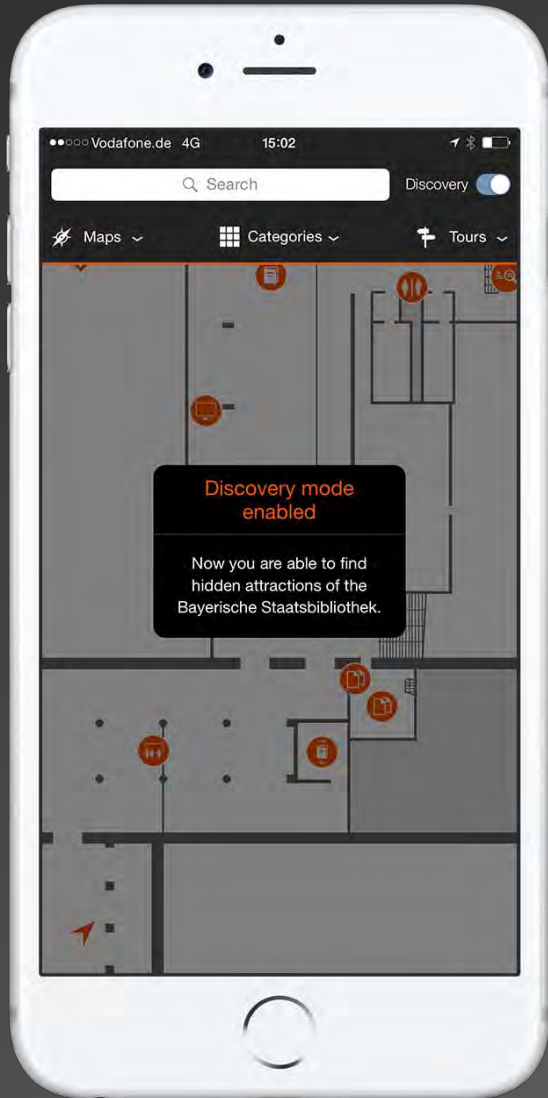


Sensor Fusion





Discovery Mode





https://www.youtube.com/watch?v=gdvb_4bynUw



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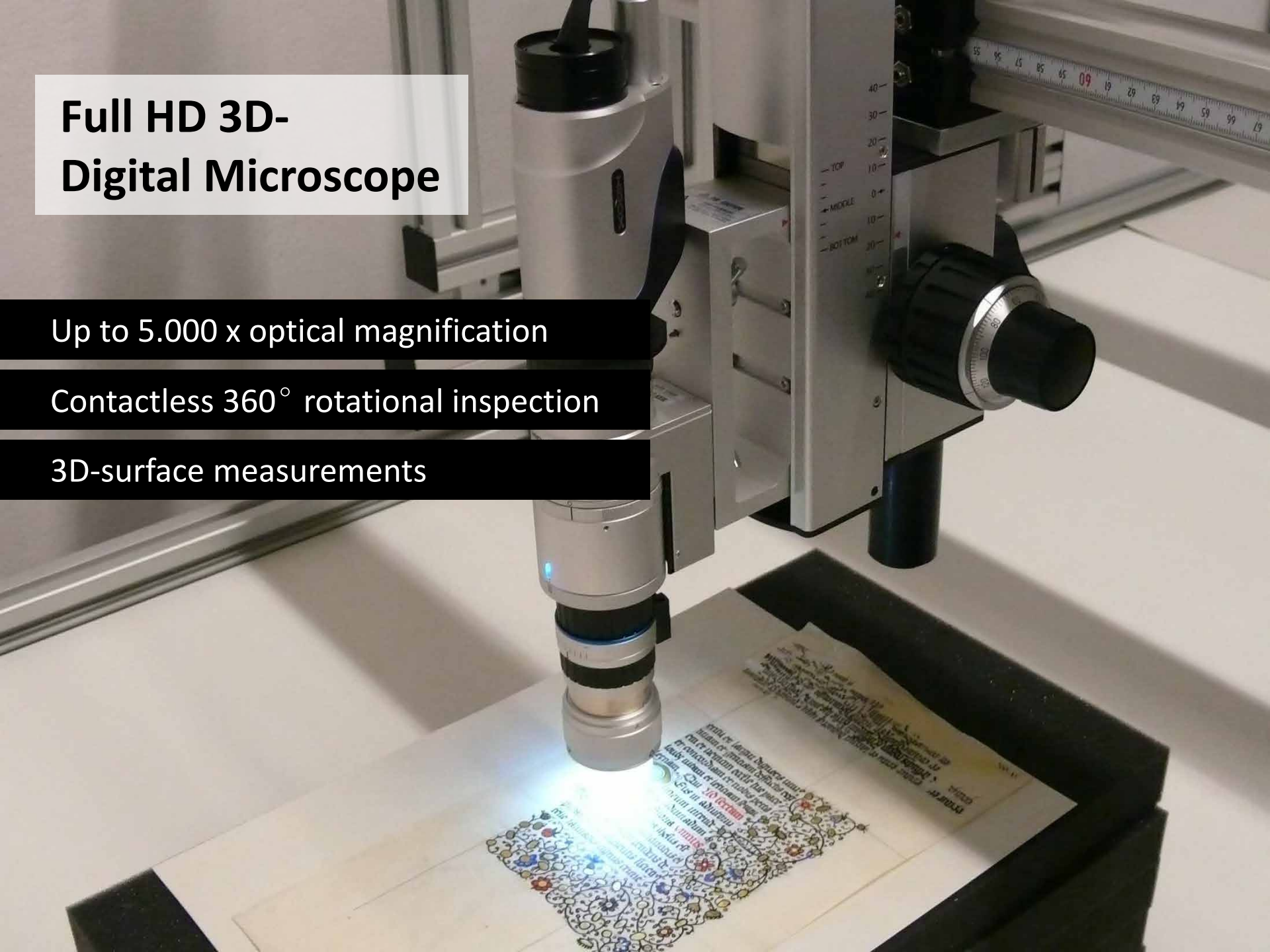
4

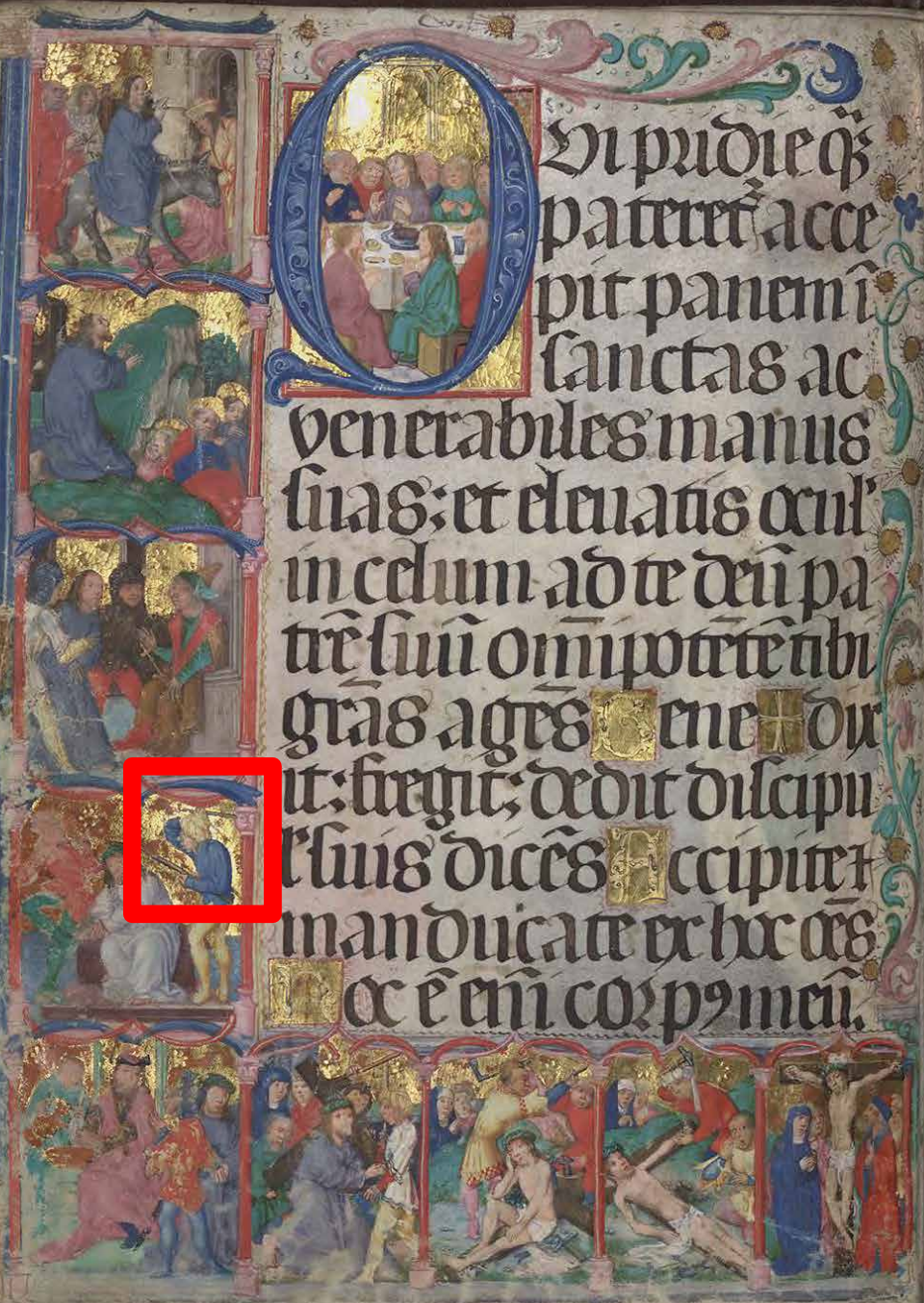
Full HD 3D- Digital Microscope

Up to 5.000 x optical magnification

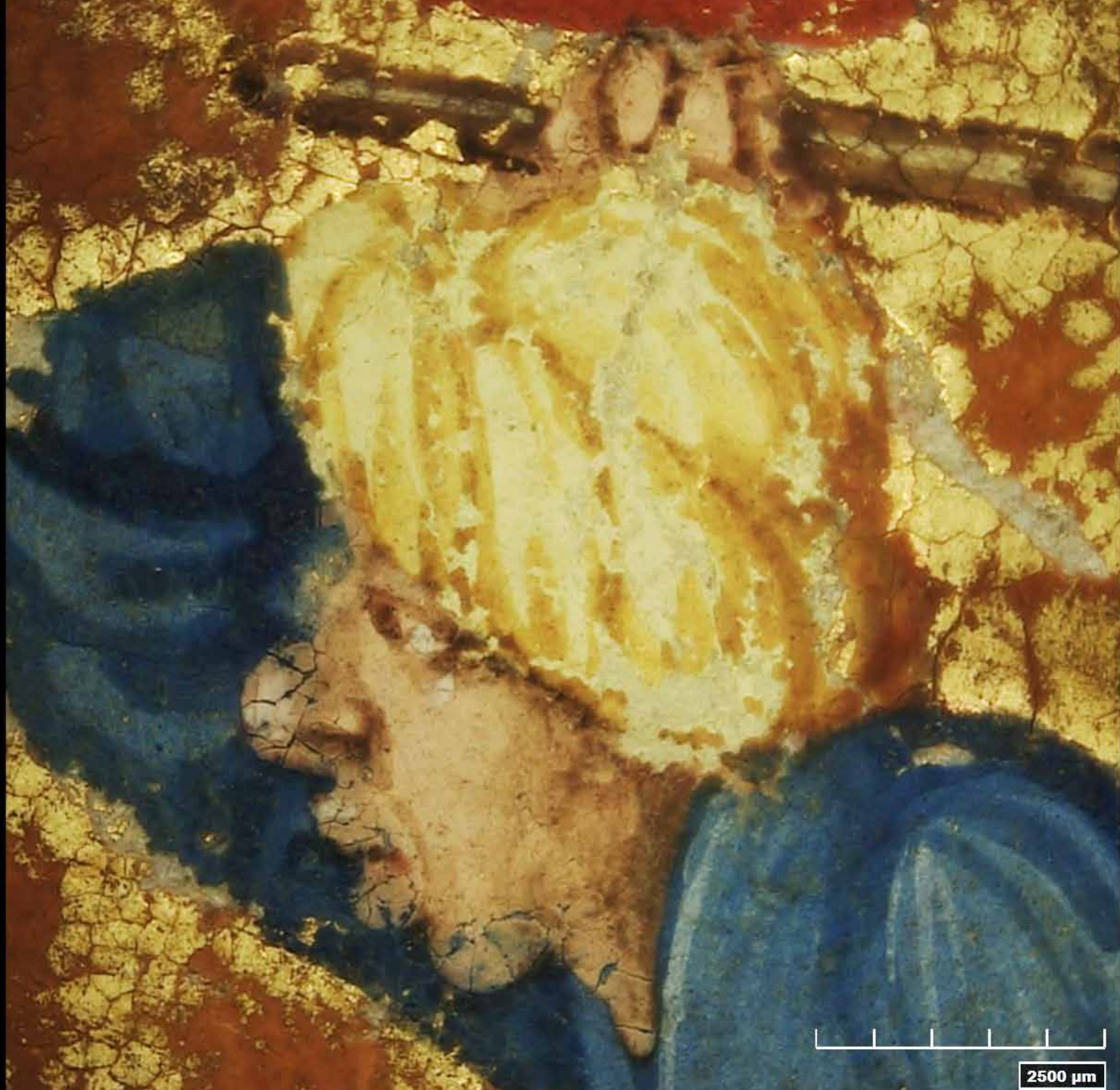
Contactless 360° rotational inspection

3D-surface measurements

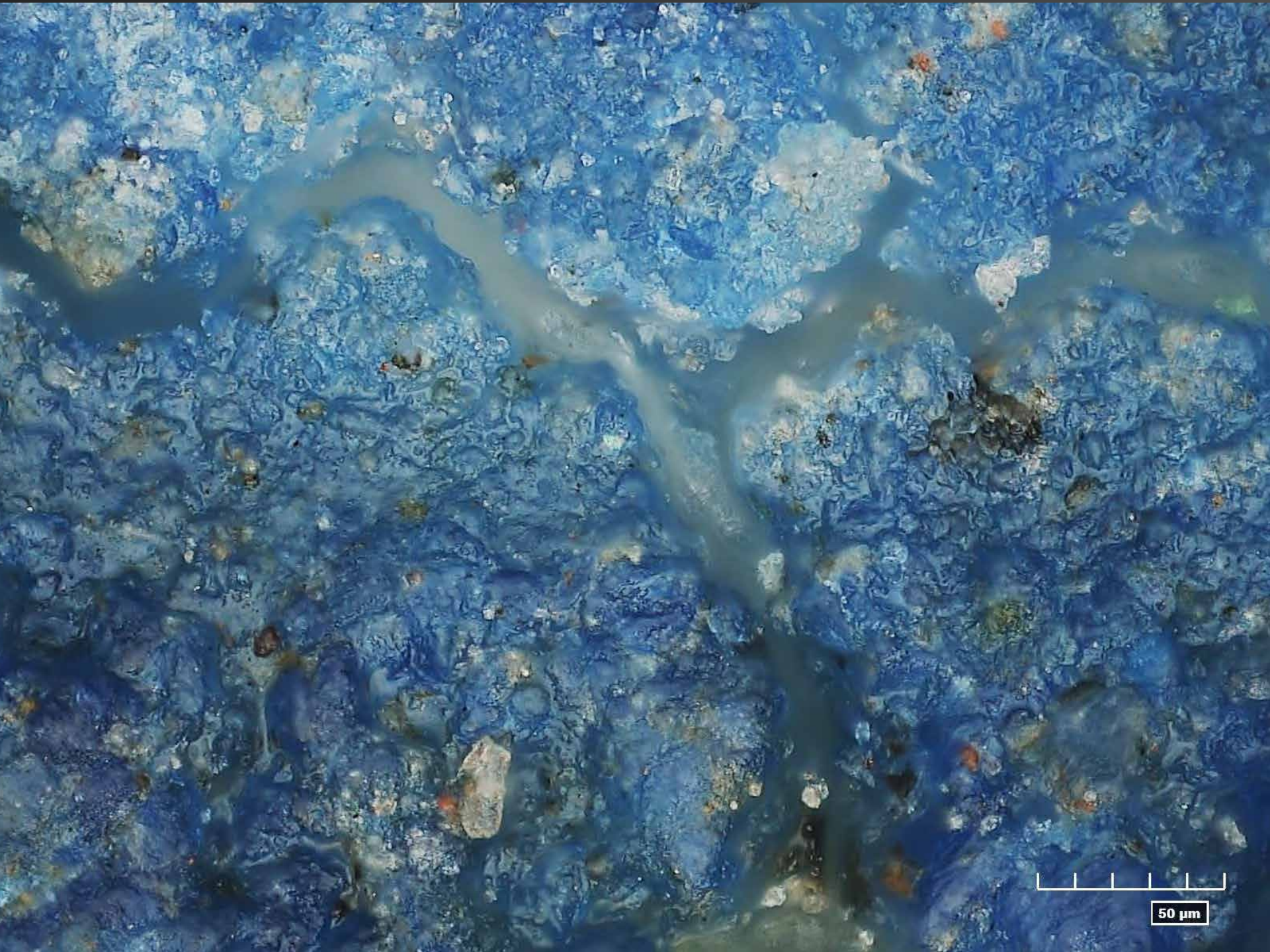


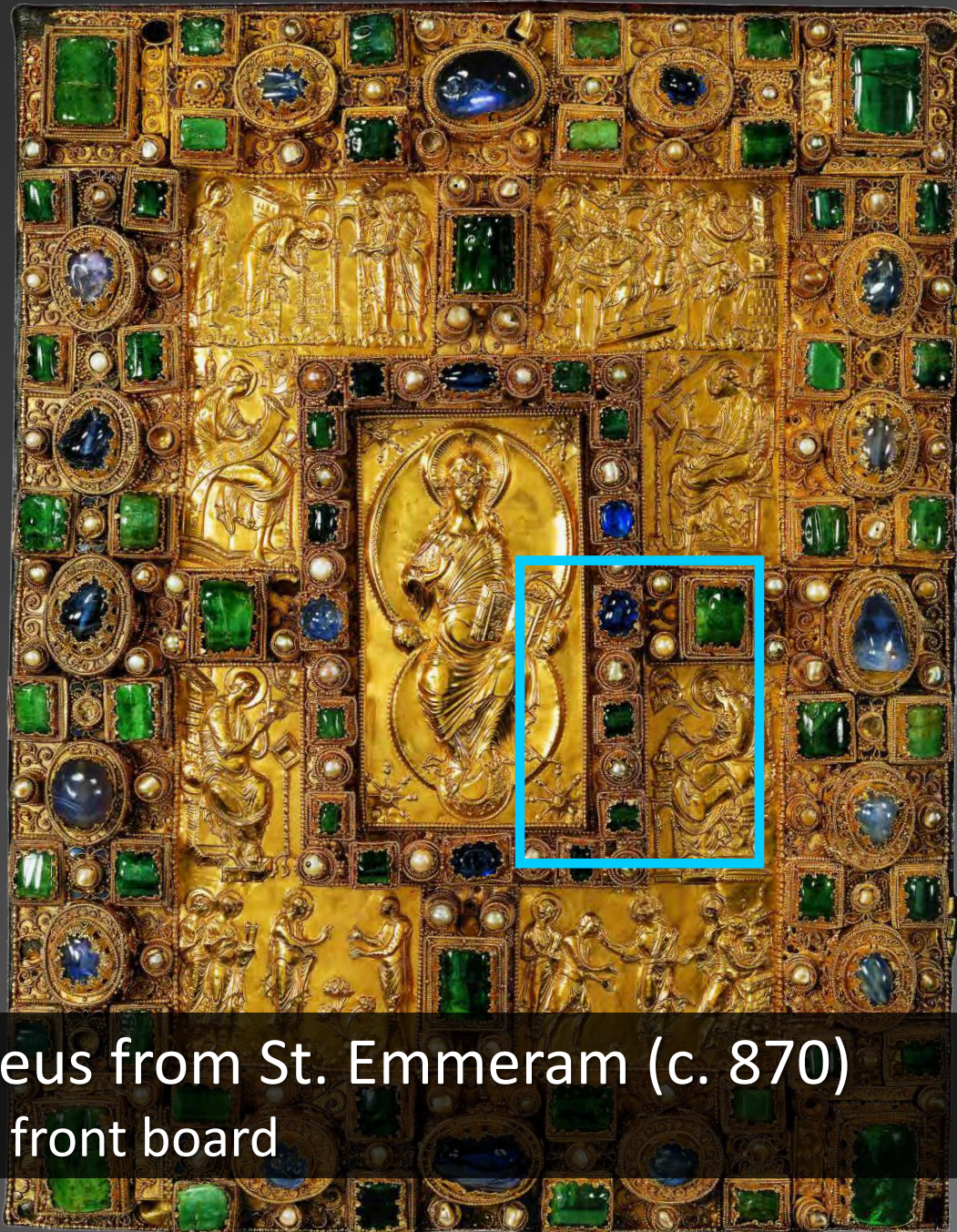


Si prouide q̄
pateret acce
pit panem i
sanctas ac
venerabiles manus
suas; et eleuatis ocul
in celum ad te deu pa
tre suu omnipotete tibi
gras ages. **D**ene **D**ix
it; fregit; dedit discipu
l suis dices **D**ccipite
manducate ex hoc oēs
oc e eni cor p̄ meu.



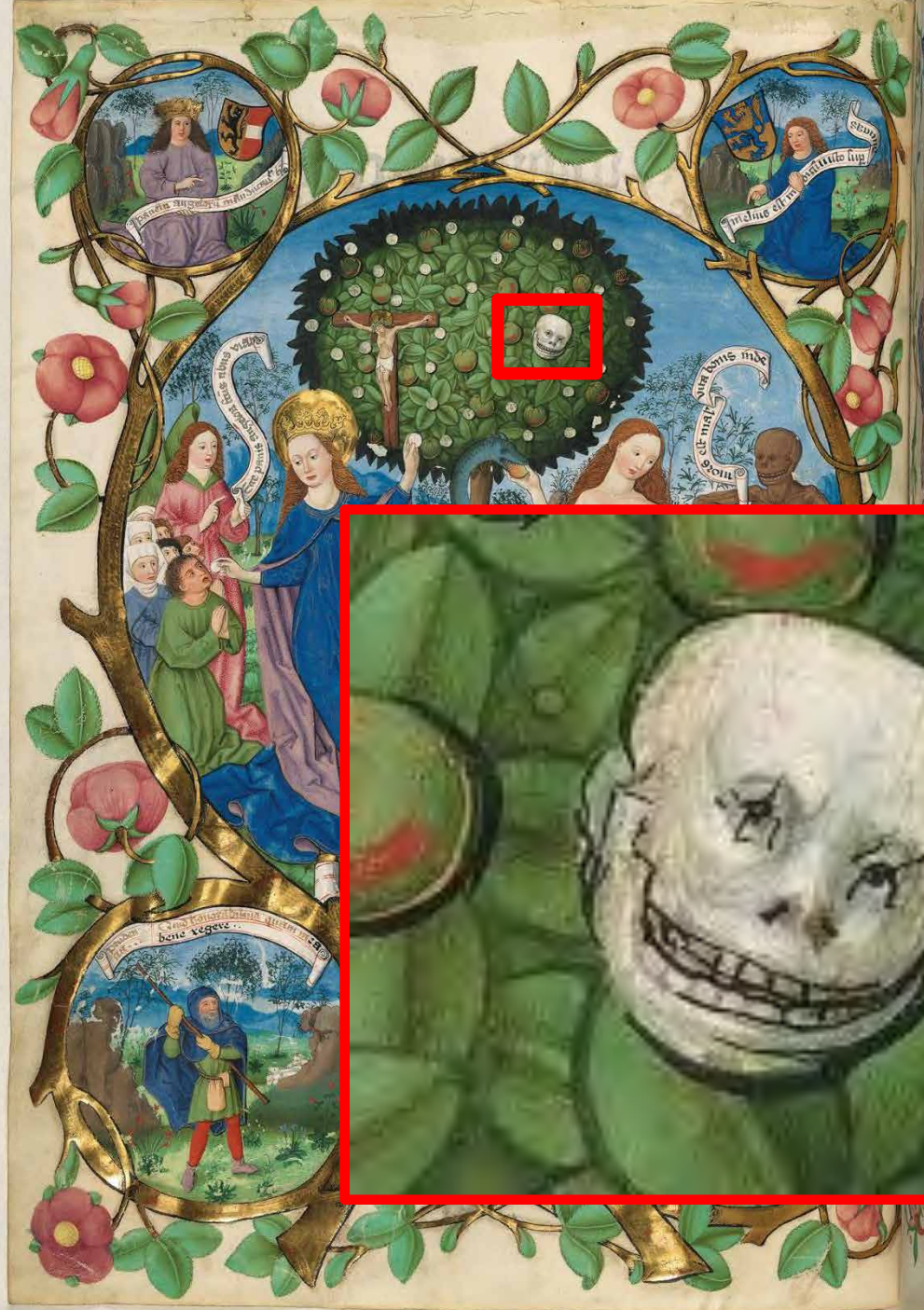
2500 μm





Codex Aureus from St. Emmeram (c. 870)
Top view on front board







Handwritten text on a scroll, likely a list of names or titles, including:

- David Luoto
- Shirley Rasmussen
- Sammy Bar
- Sammy - Enfantino



Content is King ...



...Context is Queen



Thank you for your kind attention!

Dr. Klaus Ceynowa

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Mobil: +49 (0)170 793 7463

BSB Bayerische
Staatsbibliothek
Information for Excellence

Website

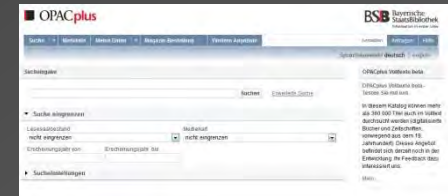
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<http://m.bsb-muenchen.de>



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<https://opacplus.bsb-muenchen.de>



(Mobile) Union catalogue
Bibliotheksverbund Bayern
<https://opacplus.bib-bvb.de>



MIDZ Münchener
Digitalisierungszentrum
Digitale Bibliothek

<http://www.digitale-sammlungen.de/>

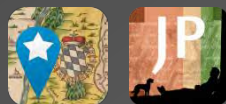


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<https://play.google.com/store/apps/developer?id=Bayerische+Staatsbibliothek>