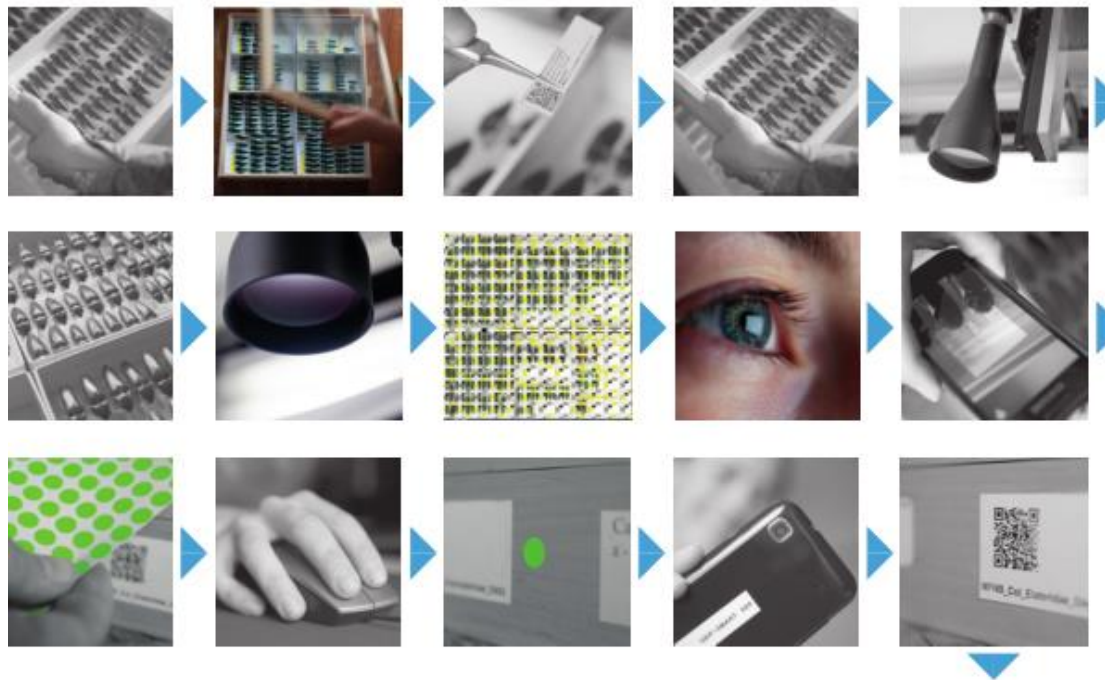


Digitization efforts at the MfN



Current Situation :

Location:

- Historical Building
- Ongoing restauration and reconstruction

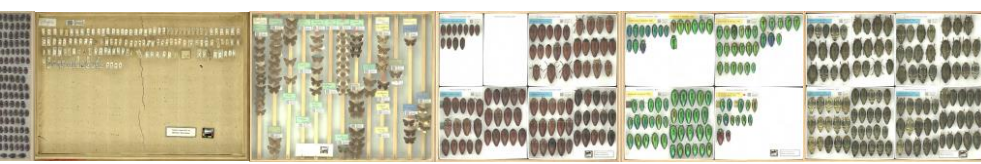


Collection:

30 Mio Objects in numerous collections

15 Mio Insects in 35 T Drawers





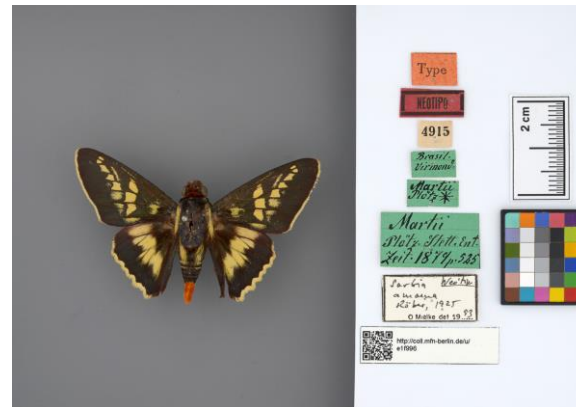
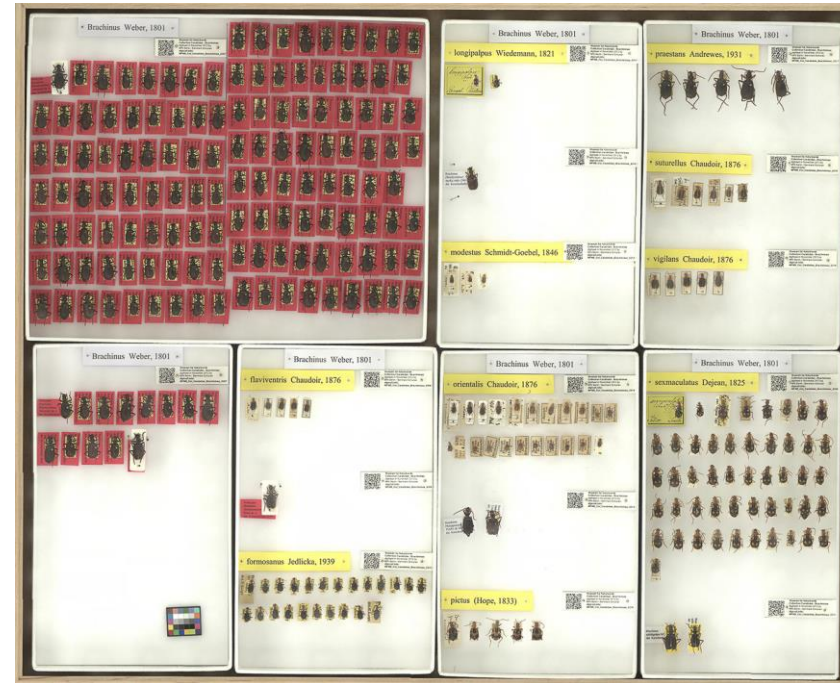
Research and Concept since 2012
 Start of Drawer Digitization in June 2012

Funding :

- GBIF – D (Federal Ministry of Education and Research)
- EoS- EFRE (Berlin Senate and European Union)

Goals (Sept 2015):

- Digitize 10.000 drawers
- Digitize 10.000 Type specimens



QR Codes at 3 levels:

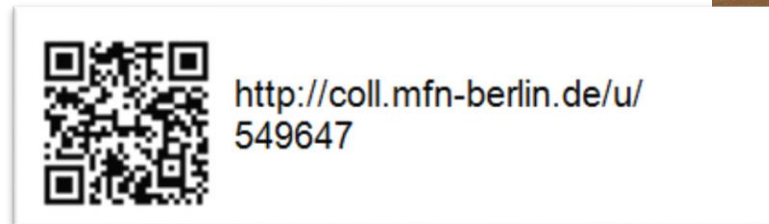
1. Drawers e.g. ZMB_Phasm_D001



2. Species e.g. ZMB_Orth_S2597



3. Specimens e.g. 549647





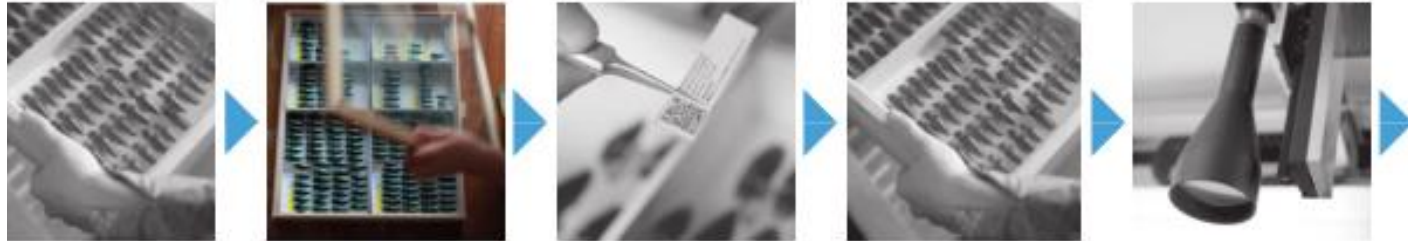
Drawers: 40 x 50 cm / 16" x 20"

Workflow Drawers

- Pick up from Collection

- Labeling

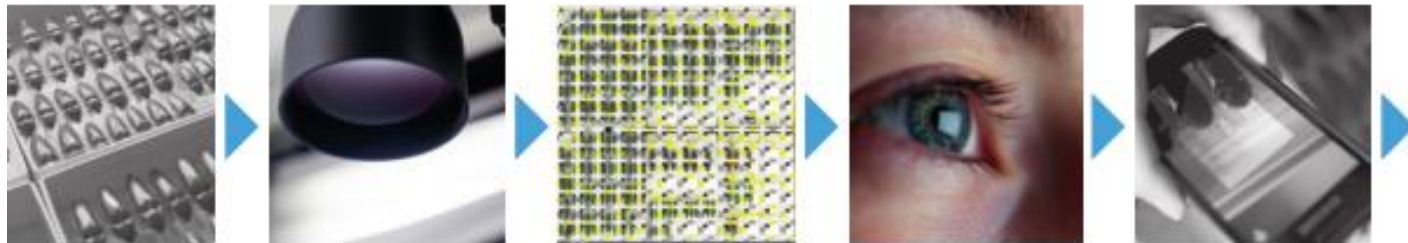
- Database :
Label Info to Specify /
Access



- Scanning

- Stitching

- Post-Production via
Lightroom



- Testing

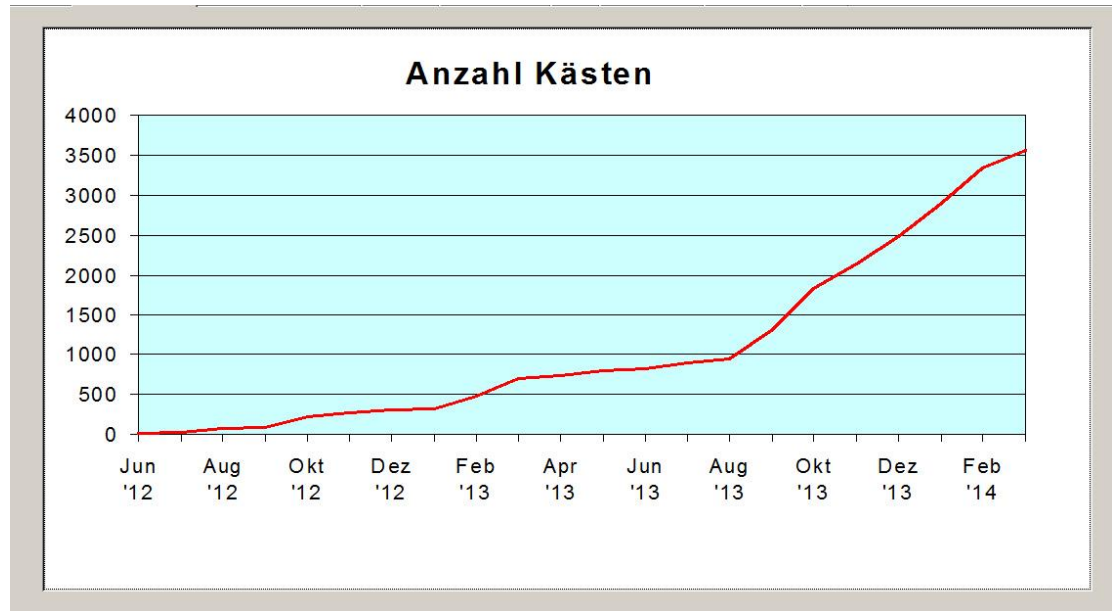
- Enter Images into
Cumulus (DAMS)



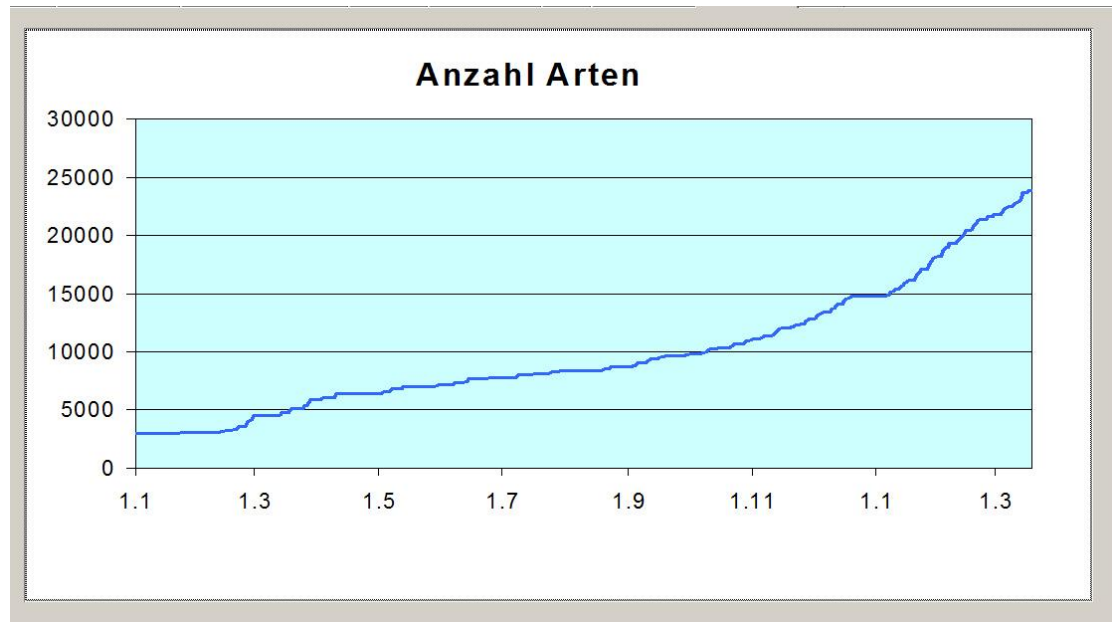
- Temp. Website :
<http://digicoll.info/>

Statistics

Drawers accumulated



Species accumulated from Jan 2013 (per 2 month)



Technique

SatScan:

- diffuse constant phosphorescent light
- creates 250 – 400 MB Files
- Takes 5 min for scanning
- Analyse 64 software 5 -10 min for stitching (network based)



Workflow Specimens:



- Selection of Type Specimens
- Designation of Labels
- Photography with SLR Camera (Nikon D800)
- Post Production with DNG via Lightroom

Type

5068

5068

pilatus
Pl. type



Genit. Prep.
SRS-1069

Allyn Museum Photo
No. 82100A-7, B

Lectotype ♂
Goniurus pilatus
Plötz 1880 selected
by S.R. Steinhauser
26 Oct. 1982

Zool. Mus.
Berlin



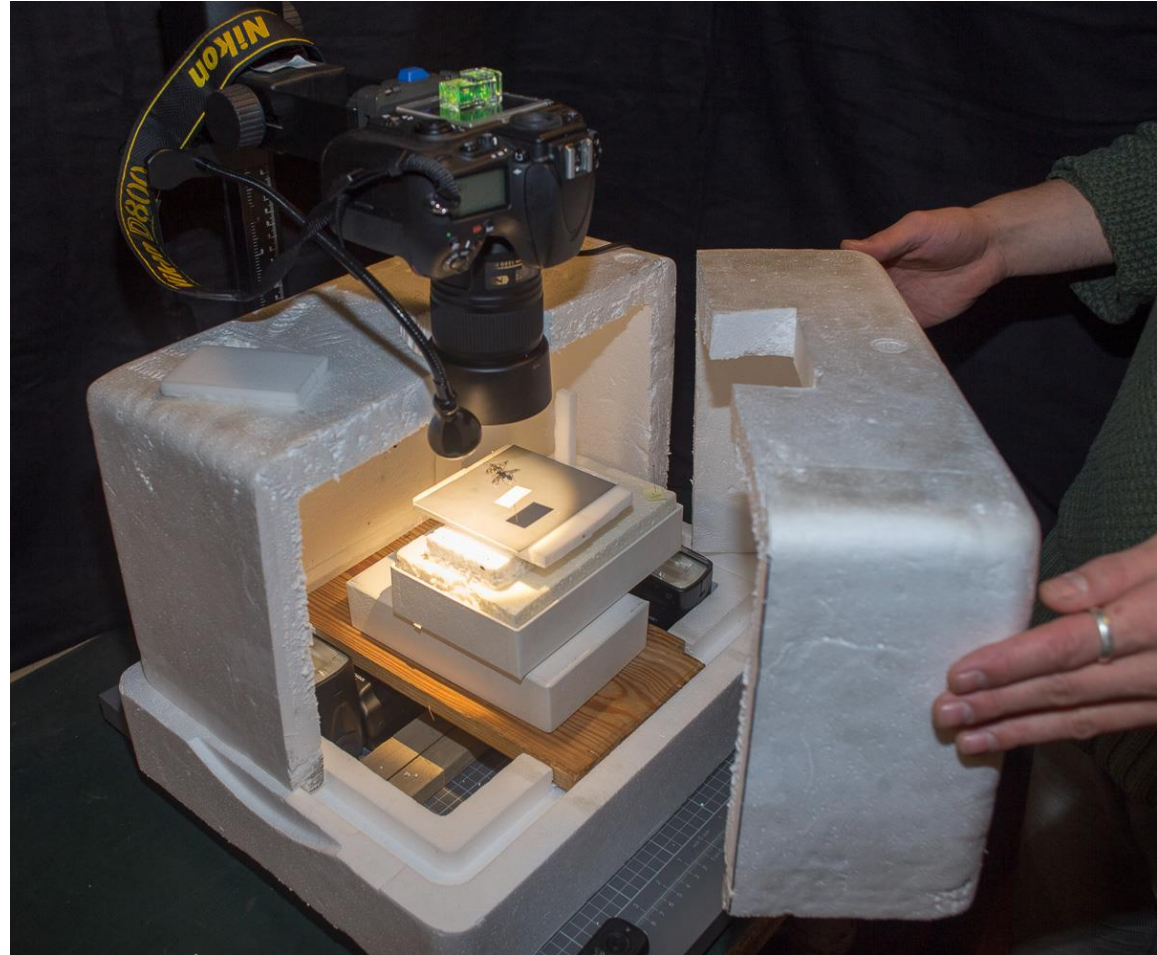
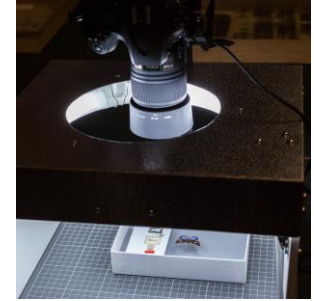
<http://coll.mfn-berlin.de/w/e1f9a1>



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SetUp Specimens

- Styrobox with Camera (Nikon D800)
- 2 System Flash Units
- Indirect light
- Data Transfer by Helicon Remote Software



Outlook :

- Specimens in 360° view
- <http://360grad.biodiv.naturkundemuseum-berlin.de/>
- <http://didaktik.physik.fu-berlin.de/impal/Naturkunde/IBE/biene/>
approx. 2500 images, 1 hour photography, 6 hours stacking / stitching
- Specimens digitization in assembly line : (<http://digitalium.fi/en>)
- Specimens in 3D

Acknowledgements

BMBF

- Project GBIF-D



EFRE

- Project EoS



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The Team

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Christina Kuhlmann
Alexander Kroupa
Mirko Lange
Bernhard Schurian
Mélanie Turiault

Questions ?

Staff

1 Project coordinator
1 IT / Database specialist
3 fulltime Digi staff
1 Digi Lab coordinator
2 student 4 days / week

Objectives:

- Aquisition of collection data and numbers
- Public and scientific accesibility
- Research on mass digitization and techniques
- Digital collection
- Loan reduction and collection preservation