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
SetUp Specimens

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

Method modified from Sam Droege / USGS: https://plus.google.com/events/c5569losvskrv2nu606lt0f8odo
Outlook:

- Specimens in 360° view
- [http://360grad.biodiv.naturkundemuseum-berlin.de/](http://360grad.biodiv.naturkundemuseum-berlin.de/)
- [http://didaktik.physik.fu-berlin.de/impal/Naturkunde/IBE/biene/](http://didaktik.physik.fu-berlin.de/impal/Naturkunde/IBE/biene/)

  approx. 2500 images, 1 hour photography, 6 hours stacking / stitching


- Specimens in 3D
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The Team
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Questions ?
Staff

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

Objectives:

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