PICTURAE

LET'S **UNLOCK**
YOUR
ENTOMOLOGY

www.picturae.com

ACCELERATING
DIGITAL ARCHIVES

Digitizing large numbers of specimens with precision, care and speed has been a need of the entomology community for years. Despite the solutions that are being used worldwide today in building a digital archive, being able to digitize in a technical smart way with accuracy wasn't possible, until now.

With the help of the Entomology Conveyor – built by Picturae – clients are able to process insect collections within a short time period to develop their digital archive. It is now also possible to simultaneously re-house the insects in new trays, re-label and re-group them.
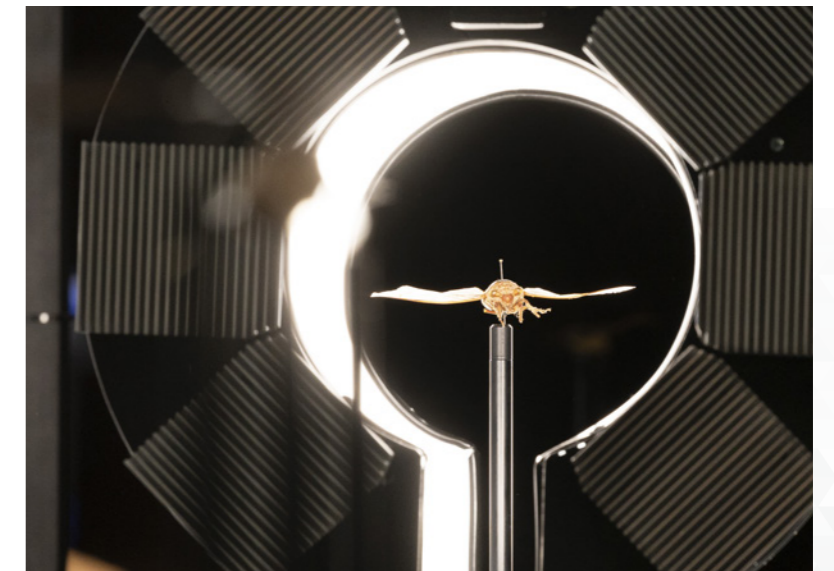
When it comes to the imaging itself, a lot can be automated and controlled

We combine the careful handling by trained professionals with a high-tech automated conveyor system. When it comes to the imaging itself, a lot can be automated and controlled, which creates reliability, continuity and quality. We capture multiple angles per view in dorsal, lateral and frontal perspective. Focus stacking - the processing technique of combining the captured images - delivers one single hyper sharp image per insect. And how do we handle labels when imaging? During the digitization process, the label information is also captured, both recto verso, with a clever flip technique.

After imaging a specimen with its associated labels, the insect specimen then continues its journey back to the workstation. The staff places the specimen back in the drawer. Following this, Picturae implements a Quality Assurance and Control process. This validates and approves batches for collection managers to ensure the digital collection is accurate and complete.

Re-housing the insects in to new trays.

Capturing multiple angles per view (dorsal, lateral and frontal).

Now the digitization journey of a specimen is almost complete. You have the image, reliable metadata, and your specimens were safe and handled with care throughout.

High-speed digitizing will quickly lead to specimen data bundles. Be prepared to continuously import this big data in your systems.
To help you unlock the data, we offer you a smart collection management system, 'Memorix', that you can combine with our ability to build user friendly collection websites to share your digitized collection. The collection journey of your Entomology collection is now complete.

Let's Unlock Your Entomology!

Museum Für Naturkunde

About the customer

The Museum für Naturkunde – Leibniz Institute for Evolution and Biodiversity Science – is an integrated research museum within the Leibniz Association. It is one of the most important research institutions worldwide in the areas of biological and geological evolution and biodiversity.
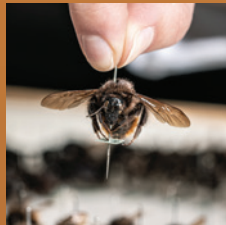
HAS A COLLECTION OF
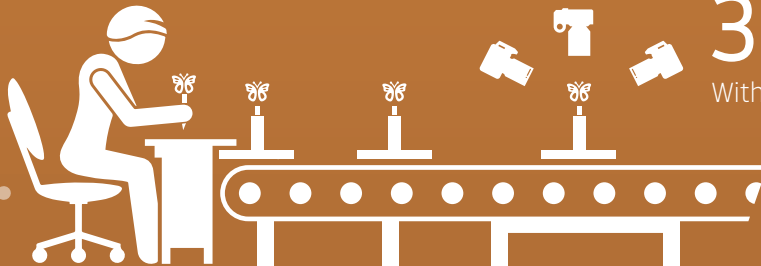## 30.000.000
OBJECTS

700.000+
VISITORS

About the project

We help to digitize 500,000 individual specimens of the Hymenoptera collection within 6 months. To this end, the museum is partnering with us, and we developed an automated digitization process - starting from re-housing insects in new trays, re-labelling them and re-grouping them.

500.000
SPECIMENS

3 DIFFERENT ANGLES
With all corresponding labels

DIGITIZED AT
625
INSECTS PER HOUR

The Result 1

"Our task is to open up our collection to science and society. In order to find answers to the questions surrounding insect mortality, for example, it is an enormous advantage if research on insects can be carried out worldwide at the click of a mouse," Director General Johannes Vogel.

The Result 2

500,000 individual specimens of the Hymenoptera collection digitized in 6 months. With a goal for people worldwide to be able to easily search, view and explore all objects by means of a database.

Building a digital archive within

6 MONTHS

Increase the impact of your collection?
Mail us at communications@picturae.com

Unlock your heritage.

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