Inselect
Lawrence Hudson & Ben Price
Natural History Museum, London
Acknowledgements

- Prototype and segmentation: Pieter Holtzhausen, Stéfan van der Walt
- Direction: Laurence Livermore, Vladimir Blagoderov, Vincent Smith
- Initial app development: Alice Heaton
- Testing: Louise Allan, Natalie Dale-Skey, Slide Project volunteers

Support from:

- SYNTHESYS European Community Research Infrastructure Action under the FP7 Integrating Activities Programme (Grant agreement number 312253)
- The U.K. Natural Environment Research Council
NHM collection:

- 80 million objects
- 1.2 million types
- 4% online
Levels of digitisation

- Diagnostic Images
- Georeferencing
- Transcription
- Label Images
- Basic Image
- Stub

Specimens per unit effort
Whole Drawer Imaging

- Diagnostic Images
- Georeferencing
- Transcription
- Label Images
  - Basic Image
  - Stub

Specimens per unit effort
Pinned Insect Drawers
Pinned Insect Drawers

Plugins

Segmentation & Refining

Metadata
Pinned Insect Drawers

Metadata
Live Demo

1. “Insect soup” & segmentation

2. Pinned insects & user-defined metadata

3. Microscope slide templates & barcode reading

4. Cookie cutters

5. Batch-processing using command-line tools
Automated workflow

Ingest
- Create .inselect file & thumbnail
- Optionally apply cookie cutter

Segment

Inselect app
- Refine boxes
- Transcribe label information

Read barcodes

Save crops

Export metadata
- CSV

Export metadata
- CSV
Thank-you!

https://github.com/NaturalHistoryMuseum/inselect

Lawrence Hudson l.hudson@nhm.ac.uk

Ben Price b.price@nhm.ac.uk