Quick summary:

• Est.1996 at the University of York (22 years)
• Core aim: the long-term digital preservation and dissemination of data
• Development-led (commercial) fieldwork alongside RC and National Agency-funded archives
• Host OASIS, Scottish Radiocarbon Dating Recording Form, England’s Rock Art...
• Partner in a number of EU projects past and present (ACE, CARARE, ARIADNE, NEARCH, …)
Current scale of ADS archive:

- c.1400 project archives
- Preservation data: 9.1TB
- Dissemination data: 1.3TB
- 74 archives released already this year
- Taking in more small archives via ADS-easy
Smaller archives:

- Regular weekly release of smaller archives (report, images, spreadsheets, plans) via ADS-easy
- Occasional ‘bulk release’
- e.g. BUFAU project – all born-digital material (CAD, GIS) and grey lit reports from 68 projects
Larger datasets:

- e.g. **Crossrail**.
  - MOLA (21) and Oxford Archaeology (7) datasets.
- Well defined archives: Images, spreadsheets, GIS, reports.
- Deposit linked more closely to OASIS records (main reports in library)
Larger datasets:

- worked closely with MOLA in run up to deposit, ensure we could reuse their existing registers to populate our metadata (avoid duplication)
Increase in no. of 3D datasets

- Largely using photogrammetry (in a variety of ways!)
- **ACCORD** project (10 sub proj)
  - 1-2 models per project
  - 40-700 images per model
- **Crystal Palace Iguanodon**
  - 87GB and 13,400+ images
- **ForSEAdiscovery**
  - 196GB and 12,000+ images
Assessing how we disseminate these:

- Largely straightforward to archive (images)
- Issues with giving access to large no. of images (and in knowing how people want to access them, granularity of access vs. use)
  - ACCORD – gallery (not ideal)
  - CP Iguanodon – multizipped (requires all images to be downloaded in order to access 1)
  - ForSEAdiscovery – batch zip, ‘best of both worlds’
Crystal Palace Iguanodon

Downloads
Please select the part of the archive you wish to view from the list below:

- **Reports**
  Crack report and thesis by India Carpenter

- **Spreadsheets**
  Spreadsheets containing the crack data from 2016 and 2017

- **Photogrammetry**
  - Photogrammetry metadata
    Metadata associated with the photogrammetry files, including the files used for calibration
  - **3D Models**
    3D Models of the whole iguanodon, the iguanodon leg 2016 and the iguanodon leg 2017
  - **Images**
    Images used to created the 3D models, divided into 10 sections
      - **A - Head and Neck**
        1692 images in 109 multi-volume ZIP files
      - **B - Body**
        1927 images in 136 multi-volume ZIP files
      - **C - Tail and Belly**
        1591 images in 48 multi-volume ZIP files
      - **D - Front Leg Left**
        1025 images in 68 multi-volume ZIP files
      - **E - Front Leg Right**
        661 images in 45 multi-volume ZIP files
      - **F - Back Leg Right**
        1411 images in 92 multi-volume ZIP files
      - **G - Back Leg Left**
        1057 images in 70 multi-volume ZIP files
      - **H - Plinth Front Feet**
        2856 images in 248 multi-volume ZIP files
      - **I - Plinth Back Feet**
        486 images in 38 multi-volume ZIP files
      - **J - Plinth Tail**
        703 images in 26 multi-volume ZIP files

Downloads
**A - Head and Neck**
1692 images in 109 multi-volume ZIP files

---

Image metadata (image Group)

<table>
<thead>
<tr>
<th>Image metadata (image Group)</th>
<th>CSV</th>
<th>1 Kb</th>
</tr>
</thead>
</table>

Iguanodon Body Plan

Image metadata (Head and Neck)

<table>
<thead>
<tr>
<th>Image metadata (Head and Neck)</th>
<th>CSV</th>
<th>69 Kb</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Image</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>100 Mb</td>
</tr>
<tr>
<td>002</td>
<td>100 Mb</td>
</tr>
<tr>
<td>003</td>
<td>100 Mb</td>
</tr>
<tr>
<td>004</td>
<td>100 Mb</td>
</tr>
<tr>
<td>005</td>
<td>100 Mb</td>
</tr>
<tr>
<td>006</td>
<td>100 Mb</td>
</tr>
<tr>
<td>007</td>
<td>100 Mb</td>
</tr>
<tr>
<td>008</td>
<td>100 Mb</td>
</tr>
<tr>
<td>009</td>
<td>100 Mb</td>
</tr>
<tr>
<td>010</td>
<td>100 Mb</td>
</tr>
<tr>
<td>011</td>
<td>100 Mb</td>
</tr>
</tbody>
</table>
ADS Update

(Re)Assessing how we disseminate these:

• Online viewing (and basic manipulation) of models
• Increased use of Sketchfab – user expectations?
• 3DHOP - [http://vcg.isti.cnr.it/3dhop/](http://vcg.isti.cnr.it/3dhop/)
• * update * have previously used a version since 2011 but have updated this within the recent ForSEA discovery project
ForSEAdiscovery

Downloads
Photogrammetry

Metadata
Bayo Area1 ExtData | TXT | 447 Kb
Bayo Area1 photogrammetry metadata | XLSX | 25 Kb

OBJ files
Bayo 04 obj | ZIP | 24 Mb

Source Images
A-BAY01-10-06-2015-1-MSC-P-001-018 | ZIP | 99 Mb
A-BAY01-10-06-2015-1-MSC-P-019-034 | ZIP | 95 Mb
A-BAY01-10-06-2015-1-MSC-P-035-050 | ZIP | 95 Mb
A-BAY01-10-06-2015-1-MSC-P-051-067 | ZIP | 99 Mb
A-BAY01-10-06-2015-1-MSC-P-068-083 | ZIP | 95 Mb
A-BAY01-10-06-2015-1-MSC-P-084-096 | ZIP | 95 Mb
A-BAY01-10-06-2015-1-MSC-P-099-113 | ZIP | 94 Mb
A-BAY01-10-06-2015-1-MSC-P-114-128 | ZIP | 94 Mb
A-BAY01-10-06-2015-1-MSC-P-129-144 | ZIP | 97 Mb
A-BAY01-10-06-2015-1-MSC-P-145-160 | ZIP | 99 Mb
A-BAY01-10-06-2015-1-MSC-P-161-175 | ZIP | 94 Mb
A-BAY01-10-06-2015-1-MSC-P-176-191 | ZIP | 96 Mb
A-BAY01-10-06-2015-1-MSC-P-192-207 | ZIP | 97 Mb
A-BAY01-10-06-2015-1-MSC-P-208-225 | ZIP | 98 Mb
A-BAY01-10-06-2015-1-MSC-P-226-243 | ZIP | 99 Mb
A-BAY01-10-06-2015-1-MSC-P-244-261 | ZIP | 99 Mb
A-BAY01-10-06-2015-1-MSC-P-262-278 | ZIP | 96 Mb
A-BAY01-10-06-2015-1-MSC-P-279-296 | ZIP | 95 Mb
A-BAY01-10-06-2015-1-MSC-P-297-315 | ZIP | 95 Mb
A-BAY01-10-06-2015-1-MSC-P-316-333 | ZIP | 98 Mb
A-BAY01-10-06-2015-1-MSC-P-334-350 | ZIP | 97 Mb

http://archaeologydataservice.ac.uk
Guides:

• Also actively working on ensuring that these datasets are properly preserved and documented
• Community Standards for 3D Data Preservation (CS3DP) - http://gis.wustl.edu/dgs/cs3dp/
• Update / merge of current G2GP 3D requirements with HE, HES, RCAHMW - “In train”
OASIS / HERALD & Library / Grey Lit:

- OASIS becoming more integrated in our archives (ADS-easy archives linked file & metadata)
- HERALD project - Functional Specification available
  - [http://oasis.ac.uk/pages/wiki/Heralddownload](http://oasis.ac.uk/pages/wiki/Heralddownload)
- OASIS feeds into our Library (dev. of the GLL and BIAB). 45,531 reports available.
- New Library also far more automated.
- New and updated journals: East Ang. Arch., JCAS, SAIR and PSAS updates
Other projects:

- ArchAIDE (ARCHaeological Automatic Interpretation and Documentation of cEramics)
- EU Horizon 2020 research and innovation programme funded
- Aim: automatic recognition of archaeological pottery
- develop an app using the latest automatic image recognition technology to aid in the identification of ceramics.
- [http://www.archaide.eu/](http://www.archaide.eu/)
Other and Upcoming EU projects:

Partners in two invited EU e-infrastructure proposals:

• UK lead & Deputy Coordinator for ARIADNEplus.
  • Cont. of ARIADNE, 40+ partners, extended scope to inc. archaeological sciences.

• Archaeological partner in SSHOC (Social Sciences and Humanities OpenCloud)
  • pulling together main e-infrastructures in those sectors (DARIAH, CESSDA, CLARIN, E-RIHS etc) and part of European Open Science Cloud.
archaeologydataservice.ac.uk

kieron.niven@york.ac.uk