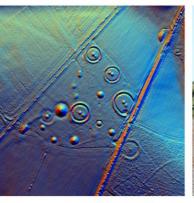
Cranborne Chase and Chalke Valley Landscape Partnership Scheme

Champions of the Past: Lasers and Landscapes













Made possible with

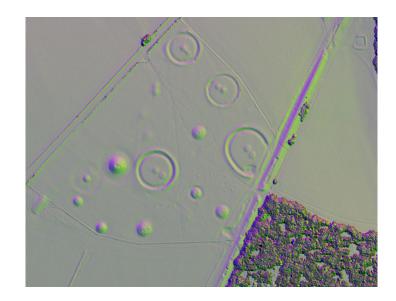
Heritage Fund

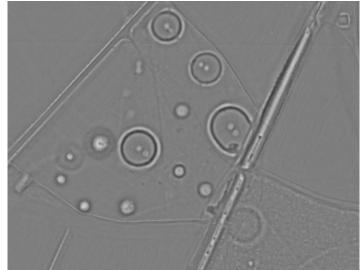




Lidar Portal Introductory Webinar

- Introduction to the Chase and Chalke Archaeological Projects "Champions of the Past"
- Lidar Data Collection
- Citizen Science and the Lidar Portal
- Training Taster: Archaeology from the Air: Core Concepts
- **Project Outcomes**
- What's next?
- Any Questions?





Oakley Down lidar Surface and LRM models









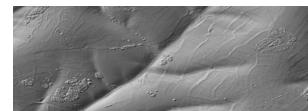
Champions of the Past: Lasers and Landscapes









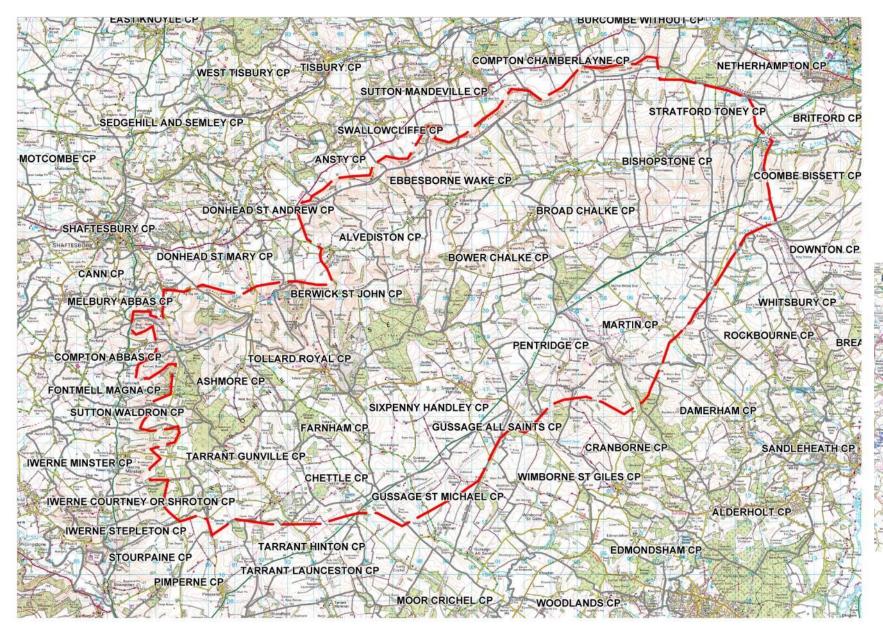








Chase & Chalke Landscape Partnership Scheme: Our Area



- 254 square km
- Rural communities
- Agricultural landscape
- Naturally, historically and culturally significant







Champions of the Past





Summary

To engage with all communities around and within the Chase and Chalke LP to raise awareness and inspire at least 200 new volunteers, train them in new skills, deliver a programme of survey, research and conservation across one of the richest archaeological landscapes in Britain.

Outputs

- 15 archaeological sites in better management and improved condition
- 200 new sites identified, recorded and investigated
- 2 new volunteer groups established
- 475 archaeological volunteers involved in the project
- 30 landowners engaged
- 500 people involved in experience days
- 5,800 people engaged in roadshows and 'Big Dig' events
- 10 events run by volunteers

Outcomes

- ☐ Improved conditions of archaeological sites.
- ☐ New archaeological
- sites identified and recorded; existing sites better understood
- ☐ This project will create a body of trained volunteers supported on the ground by local leaders.
- ☐ Reports disseminated in archaeological publications and through local networks
- ☐ Story of area better understood

Champions of the Past

CHASE & CHALKE LANDSCAPE PARTNERSHIP



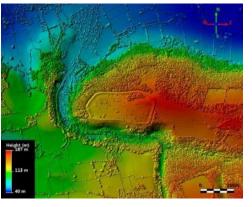
Phase 1: LiDAR Data Collection

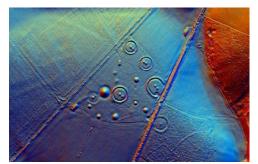
Phase 2: Community Engagement

Phase 3: Cranborne Chase LiDAR Portal

Phase 4: Volunteer training and on site surveys

Phase 5: Geophysical Survey & small-scale excavation















Phase 2: Community Engagement

- Local pop-up events and hands-on activities
- Archaeology walks and talks
- Local Festival of Archaeology events at Salisbury Museum and Blandford Museum
- Online talks (during Covid restrictions)
- Workshops in local schools and with community groups
- Parish presentations to highlight what might be on people's doorsteps that they never know about





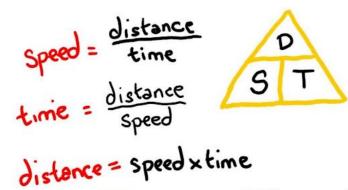




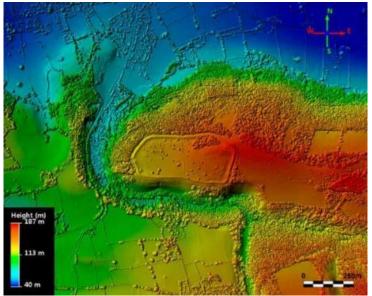
Phase 1: LiDAR Data Collection

- What is LiDAR?
- Aerial LiDAR data from a 351km2 area within the Cranborne Chase AONB and Chalke Valley.
- 16 laser pulses per metre
- LiDAR data was then processed into digital terrain models and digital surface models 25cm resolution





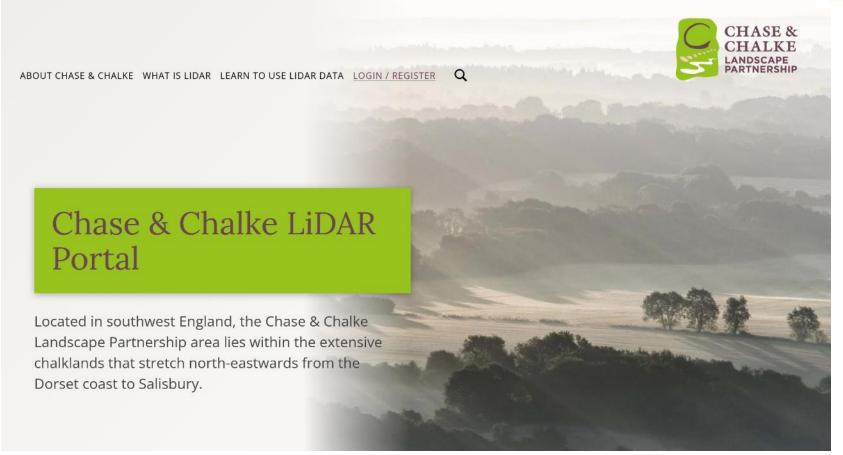




Phase 3: Cranborne Chase LiDAR Portal





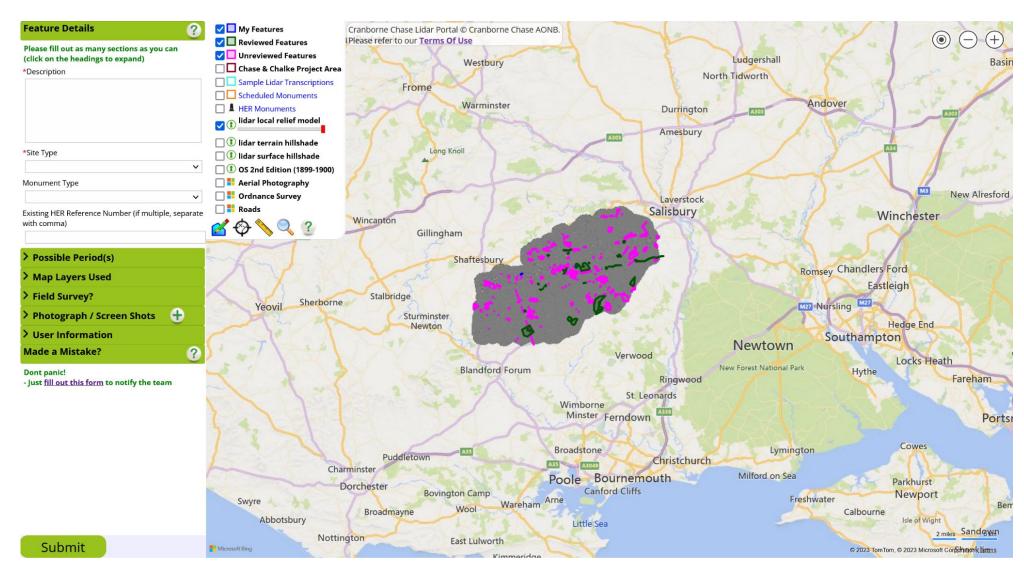


- Lidar visualisations as seamless layers
- Historic Environment Record data from Dorset, Hampshire and Wiltshire
- Background modern satellite imagery, Modern and Historic OS mapping
- Professional transcription of four areas
- Online training modules embedded

Phase 3: Cranborne Chase LiDAR Portal



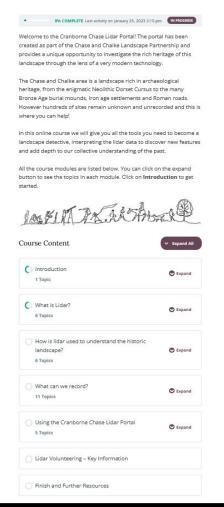






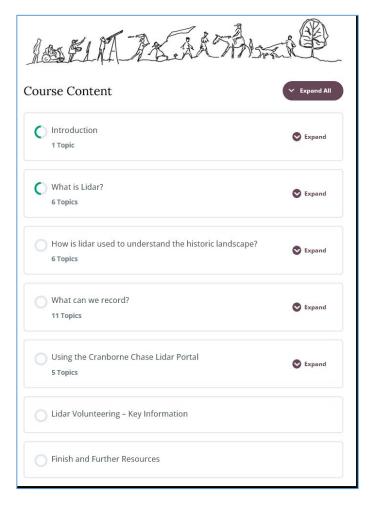


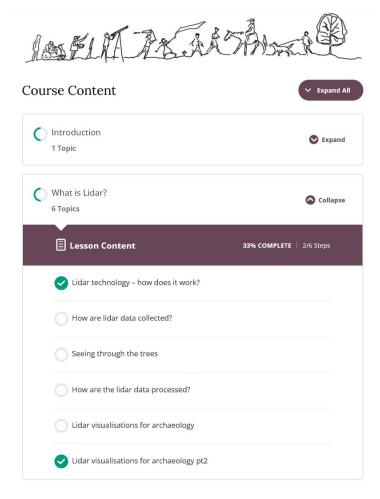
Chase & Chalke Lidar Training



How does it work?

To identify 200+ new sites we need to recruit and train 200 volunteers to the portal and support 25 of these to develop expert skills in the interpretation of lidar and landscapes









Training Taster: Archaeology from the Air Core Concepts

Archaeology from the Air - What are we looking for?





1. Topographical features

e.g. Structures, Shadow marks



2. Proxy indicators

e.g. Crop marks, Soil marks



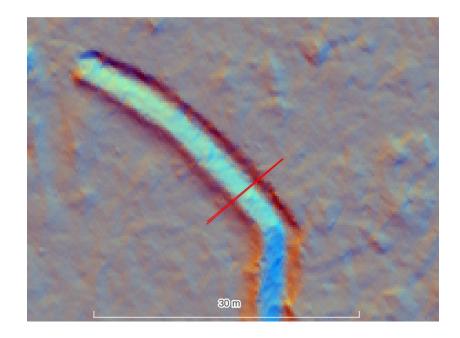
Archaeology from the Air - What are we looking for?





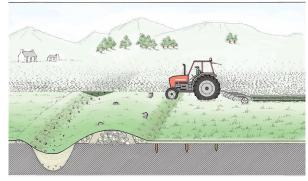
1. Topographical features

194 193 194 195 196 197 198 199 191 191 191 191 192 191 192 193 194 195 196 197 198 198 199 191 191



2. Proxy indicators





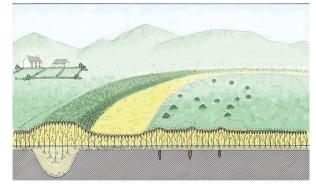


Illustration © RCAHMW

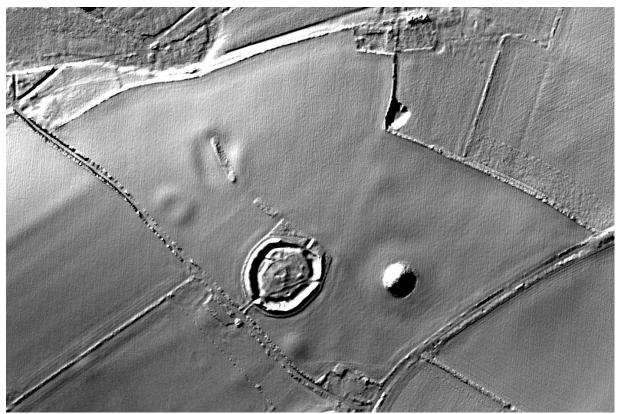
Archaeology from the Air - What are we looking for?







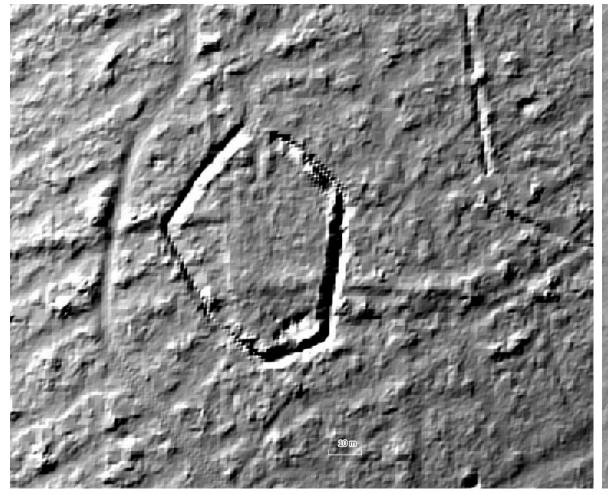
Knowlton

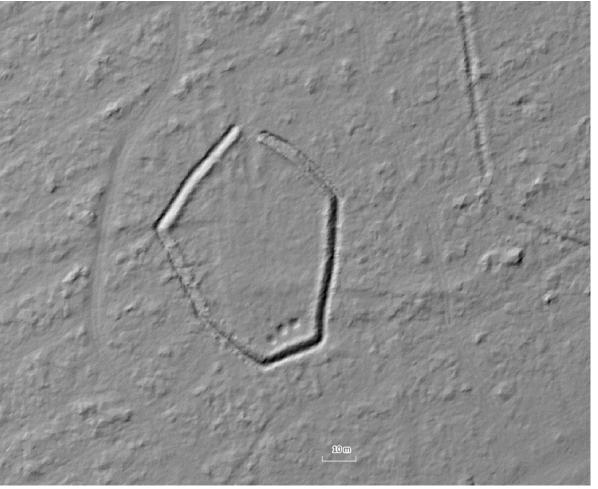


Why does resolution matter?





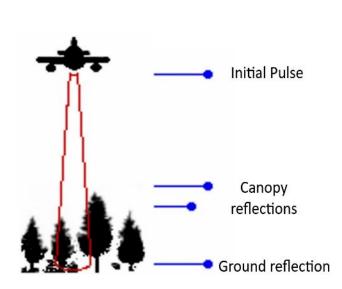




Can lidar "see through" trees?

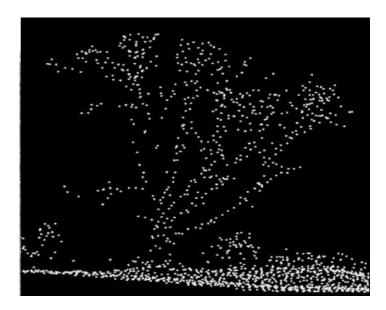






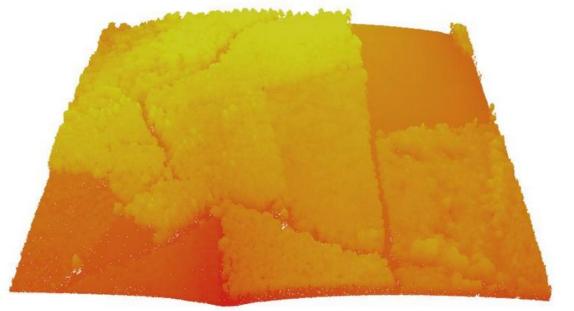




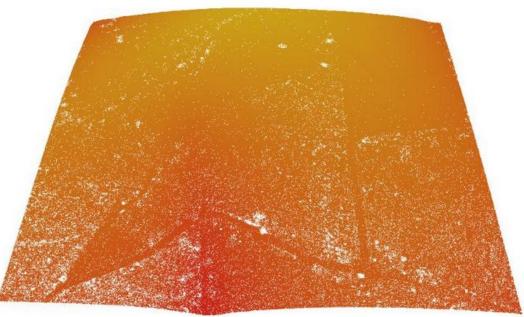


Komorebi the light that shines between the leaves of the trees

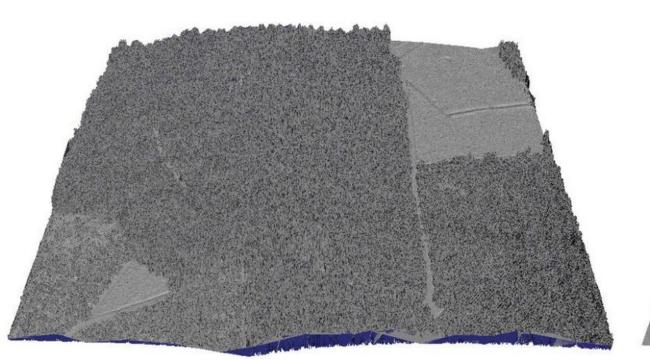


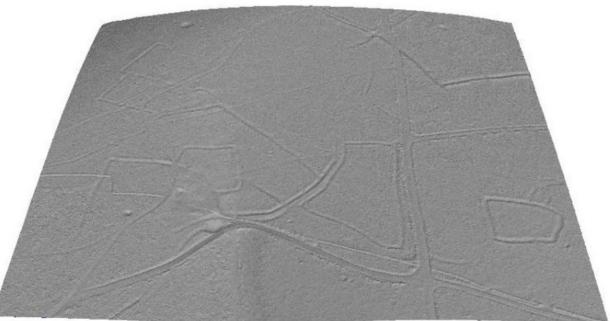


Digital Surface Model

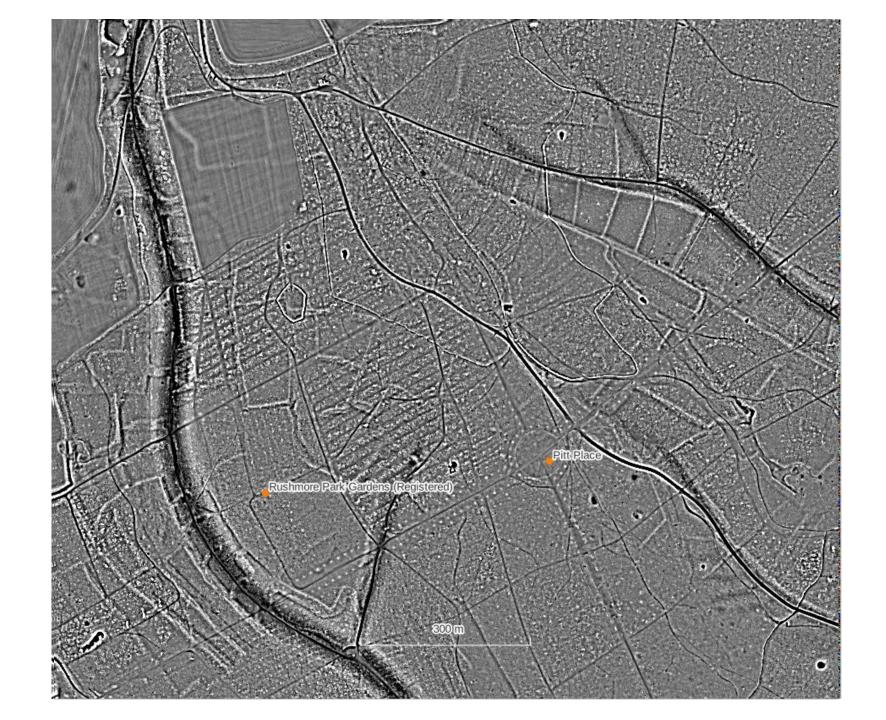


Digital Terrain Model





Aerial Photograph
Lidar Surface Model
Lidar Terrain Model
Specialist visualisation
Known Sites



Online Training & Volunteer Support

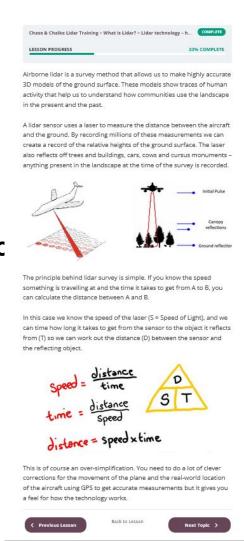
Lidar technology – how does it work?

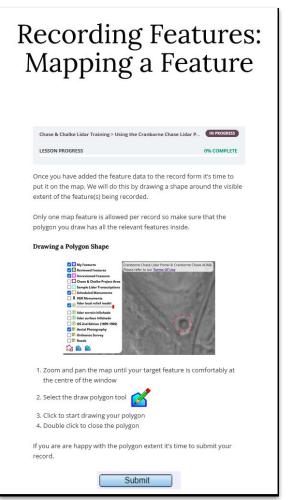
Detailed online training course

16 lessons3hrs to complete

Portal Instruction also available as a pdf

Monthly informal catch ups / mapathons online



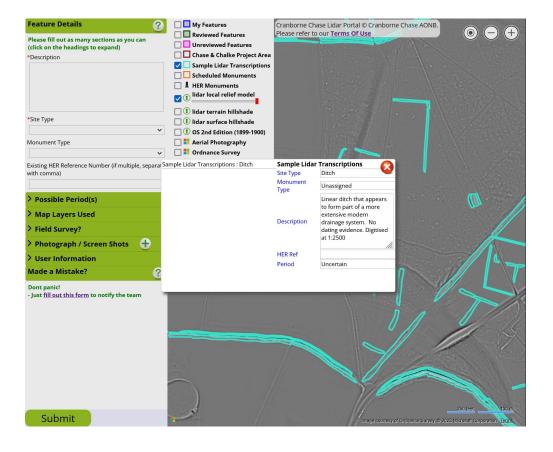




Online training materials preview

Online Training & Volunteer Support

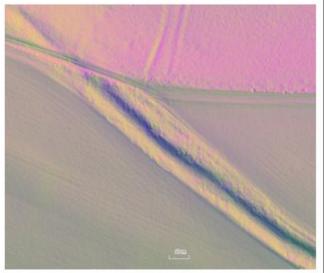
Sample Transcriptions and Illustrated Monument Thesaurus



Ditch



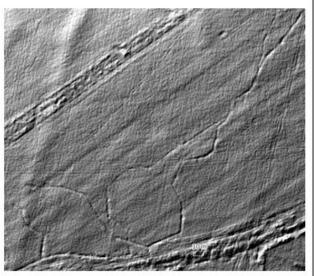
A long and narrow hollow or trench dug in the ground, often used to carry water though it may be dry for much of the year.



Woodland Down Ditch

Within this category you have the following sub-types:

- · Practice Trench
 - · A system of trenches dug by troops for practice purposes.
- · Ring Ditch
 - Circular or near circular ditches, usually seen as cropmarks. Use
 the term where the function is unknown. Ring ditches may be the
 remains of ploughed out round barrows, round houses, or of
 modern features such as searchlight emplacements.



Practice Trenches, Salisbury Plain



Ring ditches showing as crop marks and not visible in the lidar

< Previous Topic

Mark Complete 💉

Next Topic

Phase 4: Volunteer training and on site surveys





- Recruit around 200 new volunteers to be involved in the project at some level
- Professional training and guidance for volunteers
- Hands-on experience of recognising and recording archaeological sites in the landscape
- Data collection in the form of written and photographic records
- Further our understanding of the archaeological landscape
- Support local people and individuals to learn more about their landscape





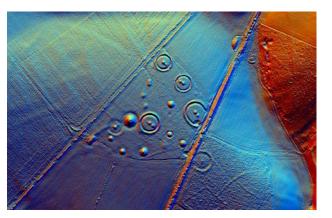


Champions of the Past Legacy





- **2 new volunteer groups** established to secure the longer-term community involvement in the archaeological heritage of the area.
- New local research group focussing on the archaeology of their area, a new volunteer survey group perhaps supported by existing groups (AVAS and EDAS), a practical conservation group focussed on protecting and conserving archaeological sites.
- 15 archaeological sites will be in better management and improved condition.
- **200 new sites identified**, recorded and investigated as a result of the LiDAR survey results and ground-truthing, being better understood and appreciated.
- A total of **475** archaeological volunteers involved in the project, with **30** landowners engaged, **500** people involved in experience days and **5,800** people engaged through community engagement activities (pop-ups and events)
- A target of **10 events being run by volunteers** and members of the local community supported by the Chase & Chalke team.







Become part of the story

CHASE & CHALKE LANDSCAPE PARTNERSHIP



• Sign up to the portal

https://cranbornechaselidar.org.uk

 Register to become a volunteer on the Chase & Chalke Volunteer & Training Hub (for info about other LSP and Champions of the Past events)

http://bttr.im/cnmw2

- Do the Online Training https://cranbornechaselidar.org.uk/courses/chase-and-chalke-lidar-training/
- Any problems? Email the portal team rebecca@pushingthesensors.com











