

Innovation in Archaeology and Minerals Development

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Key Challenges

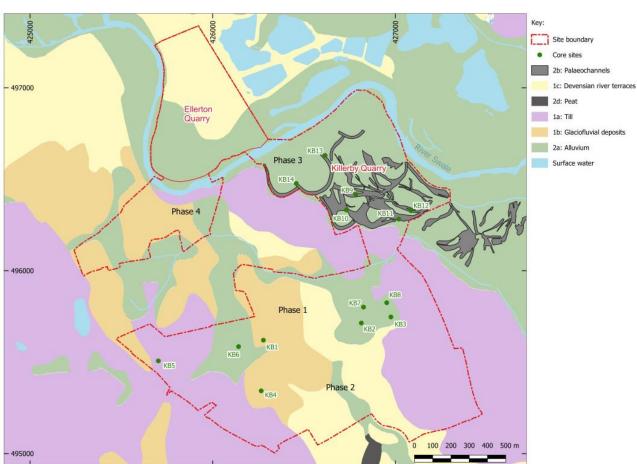
- Current methods can miss significant archaeology
- Same old approach finds same old archaeology
- Expansion of trenching works at pre-determination evaluation stage drives up cost at highest risk stage of a project
- Increased trenching damages soil, archaeology and increases carbon footprint
- Failure to deliver / recognise social value commensurate with scale of archaeological works undertaken

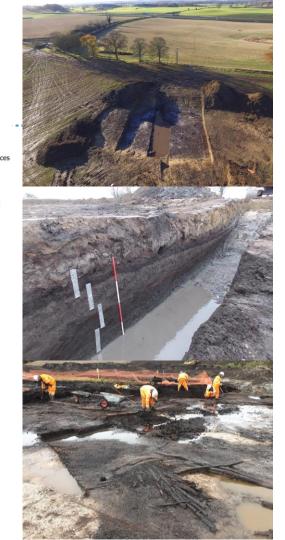




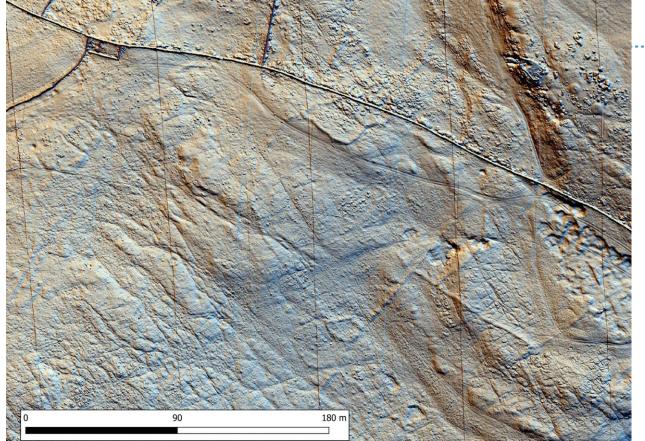


Geoarchaeological Mapping





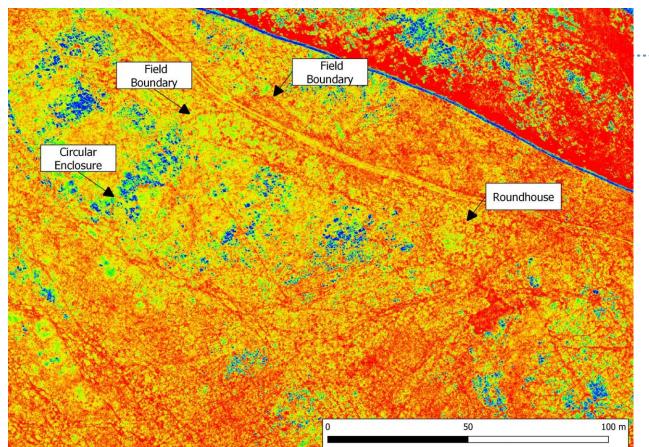
High Resolution Lidar and Multispectral Survey







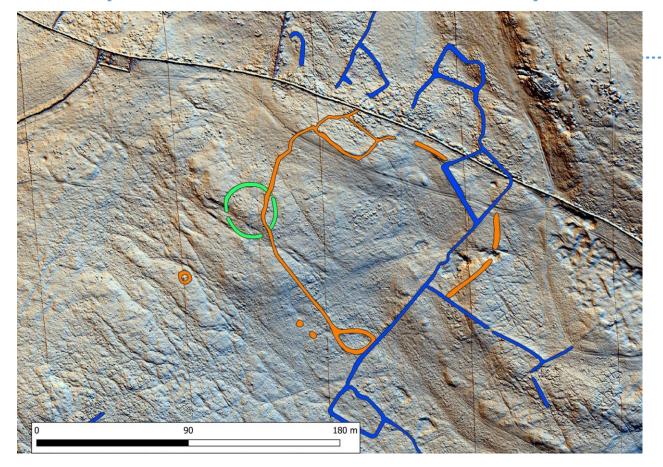
Multispectral Survey

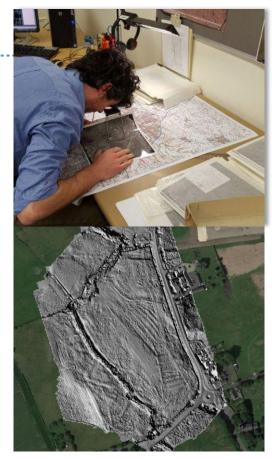




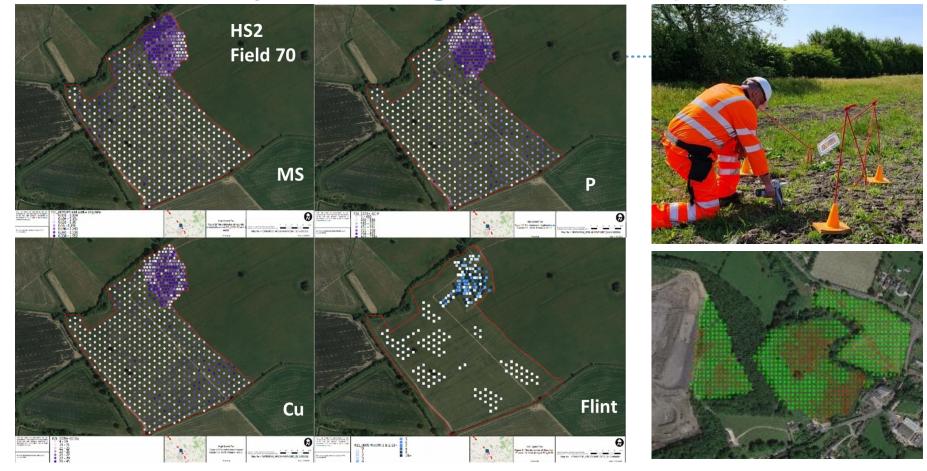


Interpetive Lidar and Multispectral Survey

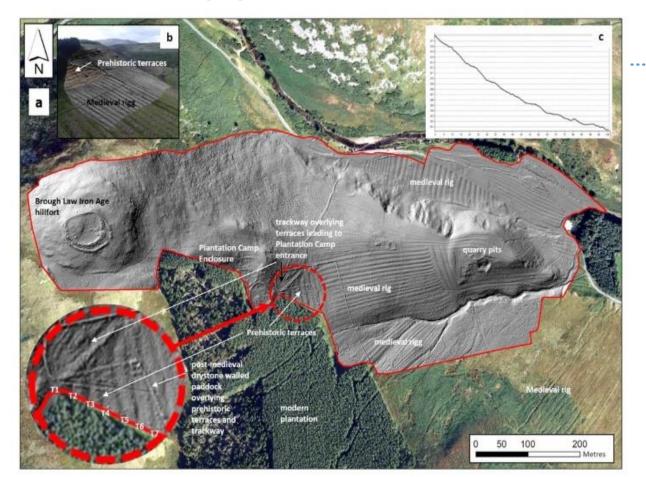




Geochemistry and Magnetic Susceptibility



Portable OSL







Maximising Social Value

- 'Living History' (experimental archaeology) on site as part of open days *etc*.
- Use of digital 'reconstructions' and video and disseminate via social media
- Improved use of volunteer and local community input
- Popular as well as academic publications
- School visits and involvement
- Minerals industry to recognise what it achieves, both internally and externally



Innovation Benefits.....

- Improved identification of archaeology and this allows targeting of what is significant
- More of work can be done throughout the year and in difficult terrain
- Better, faster and usually cheaper than high % trenching
- Reduces carbon footprint
- Buy once, use many times
- Maximisation and recognition of social value created by minerals industry via archaeological works





Thankyou

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