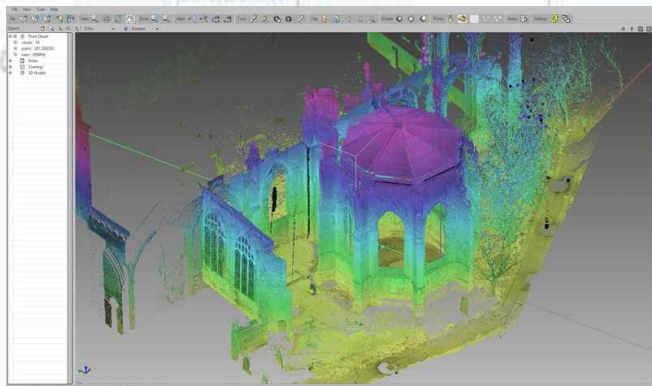




### Summary

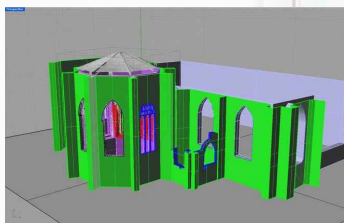
Deri Jones & Associates (DJA) were approached by English Heritage to assist



in the processing of scan data of Howden Minster church that had been gathered by another company. English Heritage had been given a large amount of raw scan data and were looking to use this data to create a 3D model of the chapter house for further investigation.

### History

Howden Minster is a Grade I listed Church of England church in the Diocese of York. It is located in Howden, East Riding of Yorkshire, England and is dedicated to St Peter and St Paul. It was owned by

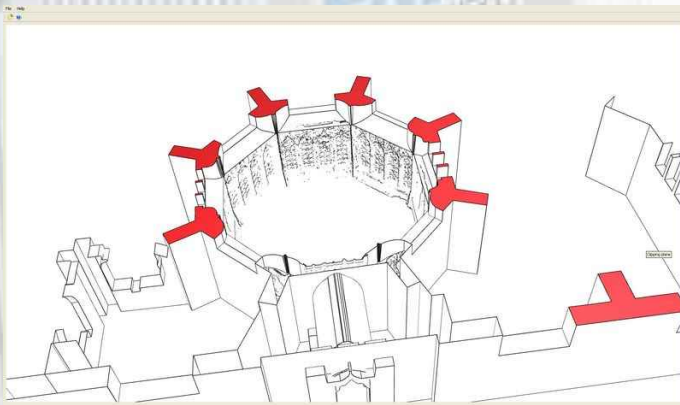


monks from Peterborough Abbey in Saxon times, but in 1080 it was gifted to

William of Calais (Bishop of Durham). The small octagonal Chapter House was built after 1388, the last of its kind to be built in England. As it was not an abbey, the site survived the dissolution of the monasteries in 1536, but fell victim to the later dissolution of Collegiate Churches and Chantries in 1548. Falling in to disrepair, with the roof of the church collapsing in 1696 followed by the chapter house roof in 1750, the site remains in the condition of a 'safe ruin', with the chapter house regaining a roof in 1984.

### Processing

Working with data gathered by another company created challenges in accurately registering and aligning the scan clouds, with no reference objects. Using Faro Scene, we managed to identify sufficient common points from a photogrammetry survey carried out earlier to give a sufficiently good result. 3D modelling from the pointcloud was carried out in Rhino, adding content from meshed details of the fine carvings to a key structure modelled using CAD. We delivered a DVD containing Pointclouds,



interactive 3D model and viewer and 2D PDF drawings of the site, showing scan locations and quicktime VR images from each scan.

If you have any queries about this project or would like to discuss a possible project, please contact Deri Jones on +44 (0)870 762 0089 or [info@djaweb.co.uk](mailto:info@djaweb.co.uk)

