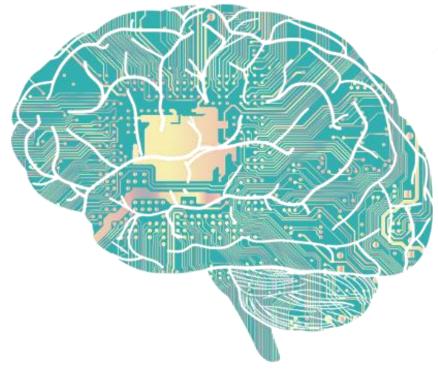


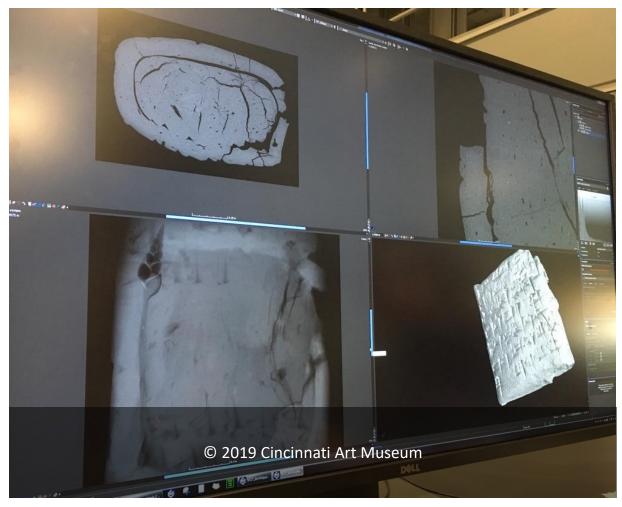
Propelling us to the future of the Past



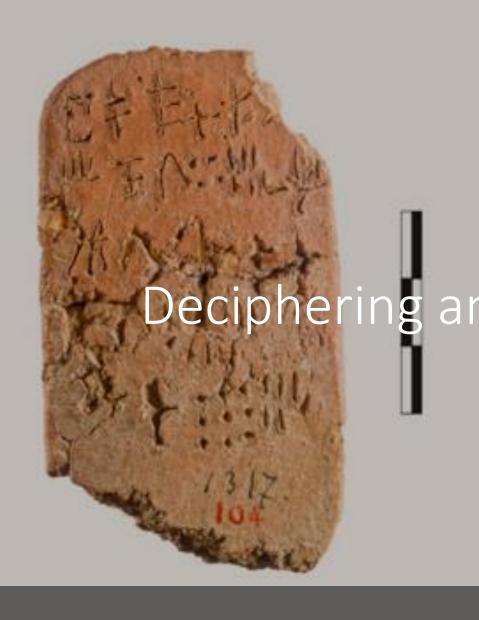


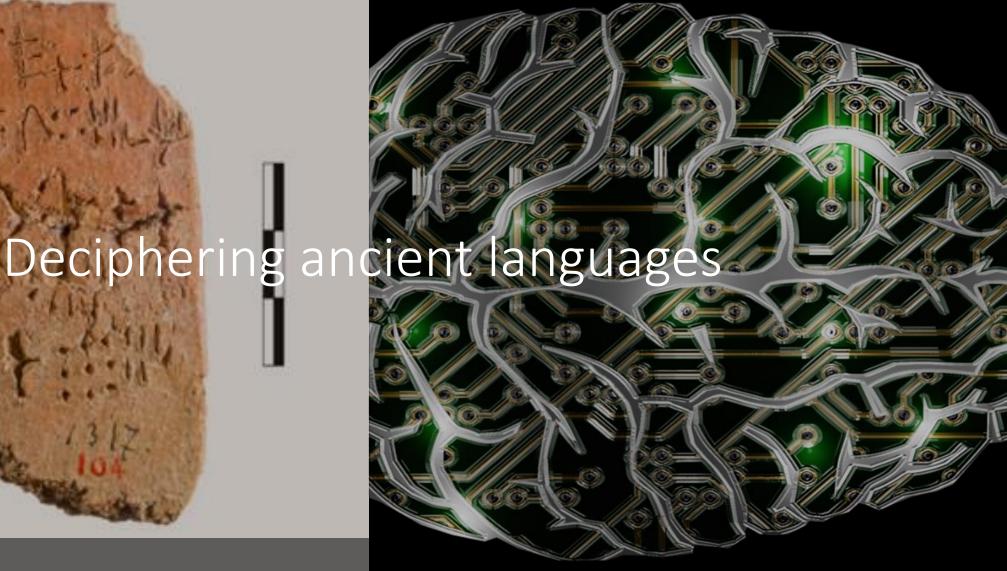






Deciphering ancient languages

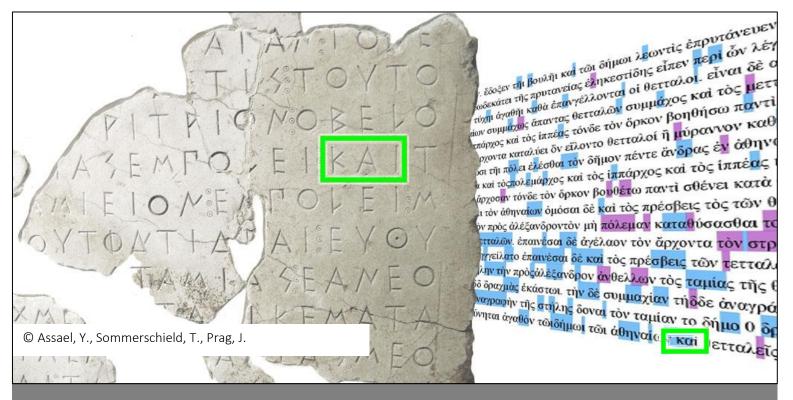




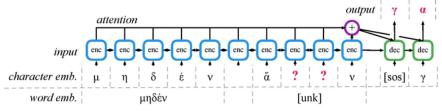
Restoring Ancient Text Using Deep Learning







Model architecture:

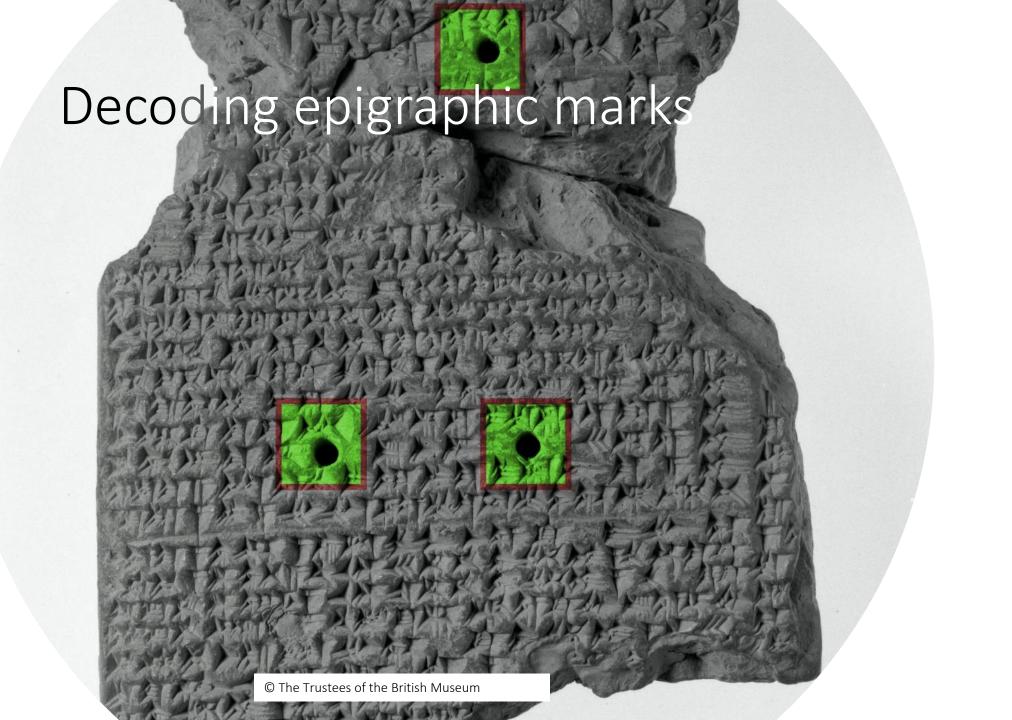


Restoration performance:

Method	CER	Top-20	
Ancient Historian	57.3%	_	Lower is better
Pythia-Bi-Word	30.1%	73.5%	

70% restoration accuracy
Top-20 predictions were correct 73% of the times

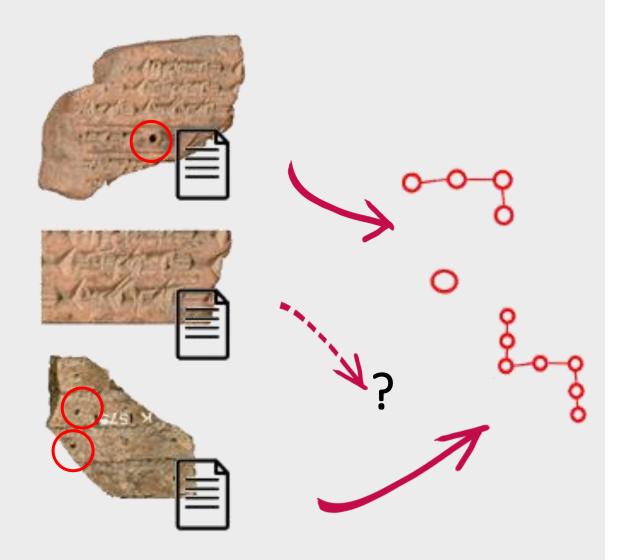
Sample restoration of the inscription IG II 2 116. Restorations are in blue when correct, purple when incorrect.

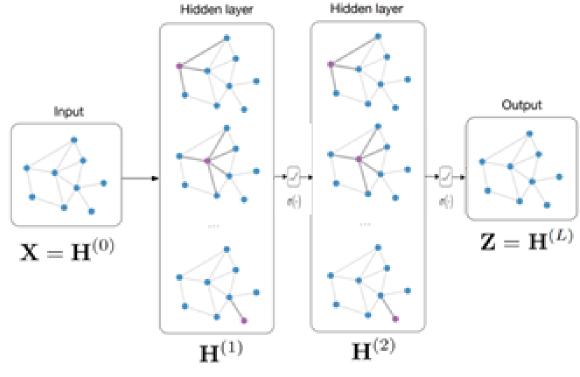






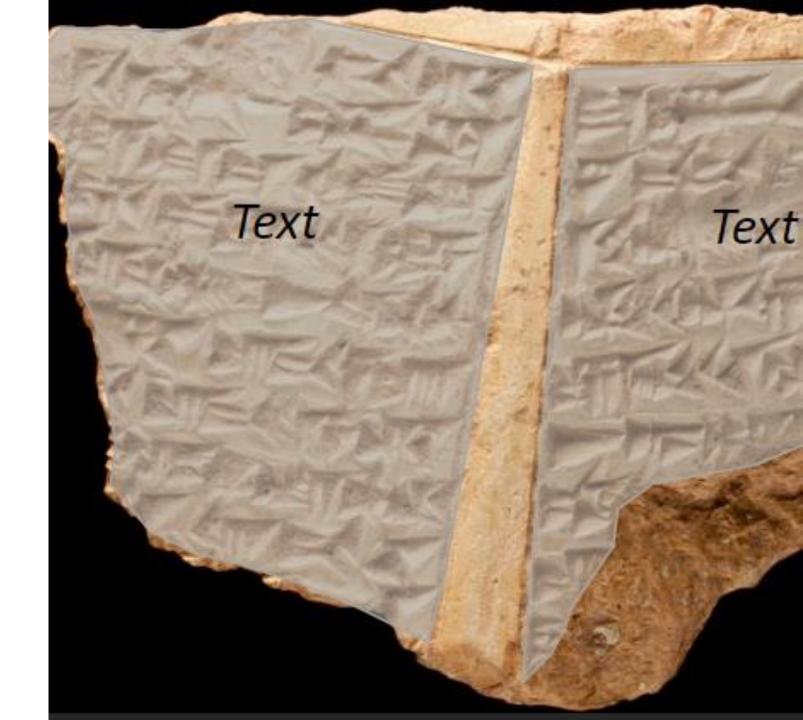
Decoding epigraphic marks





Extracting layout from Cuneiform tablets

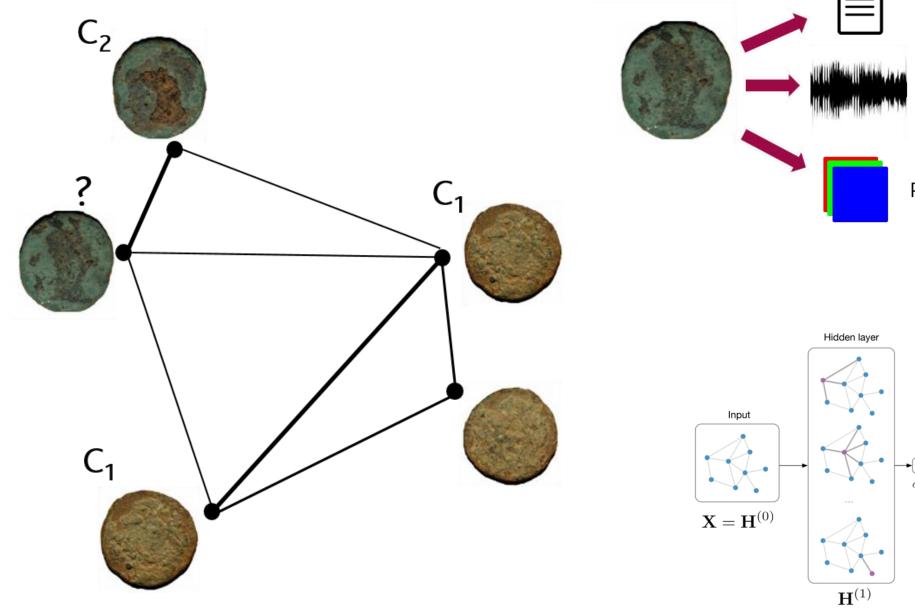
Segmentation of 2D tablet images: text part, degraded part, etc.

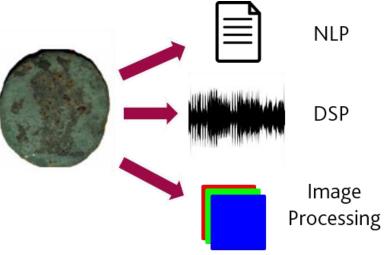


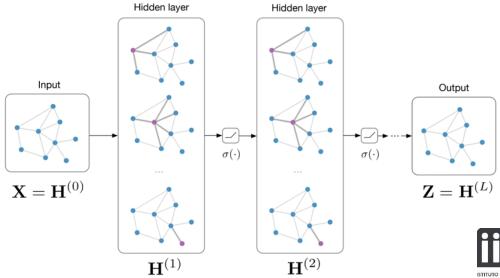


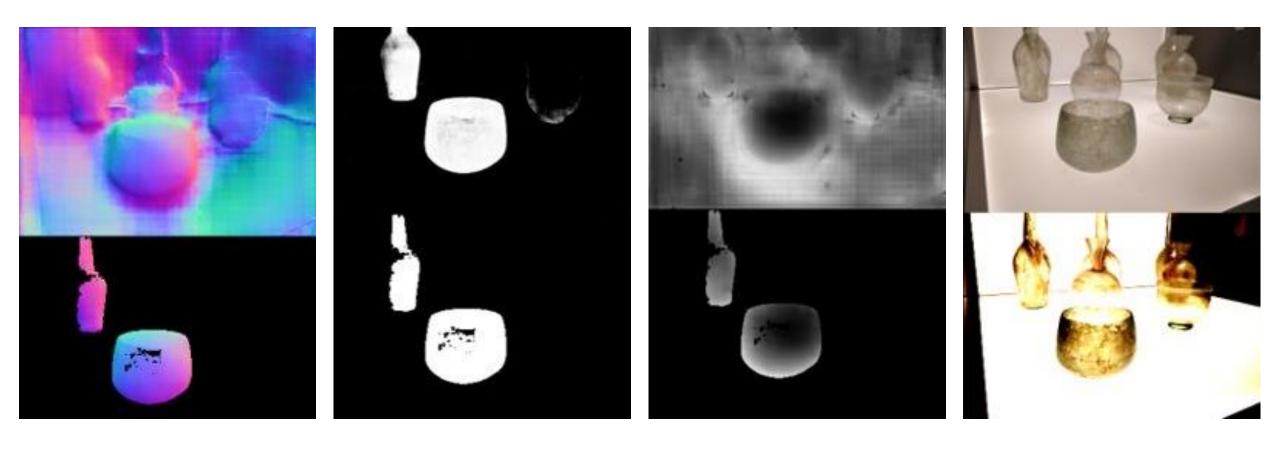
Automatic identification





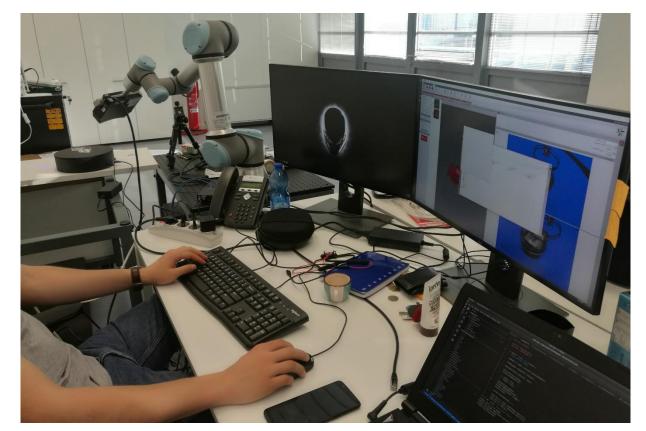


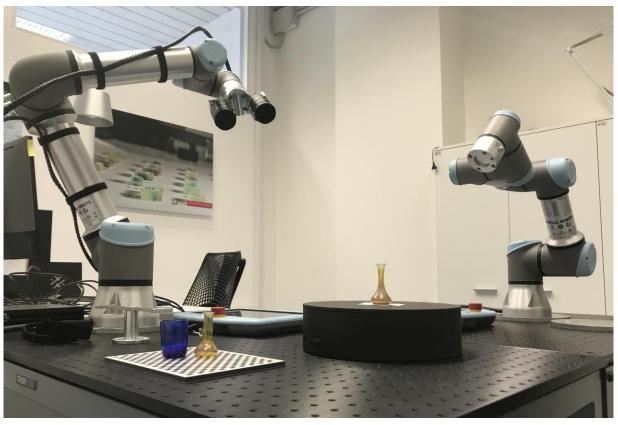




Automating 3D digitisation procedures

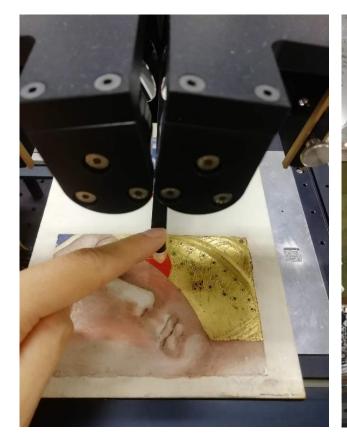






Al and Robotics



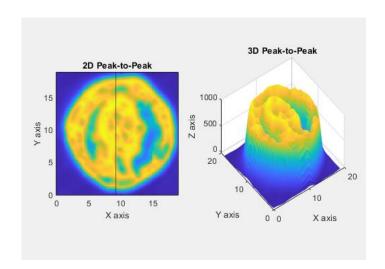


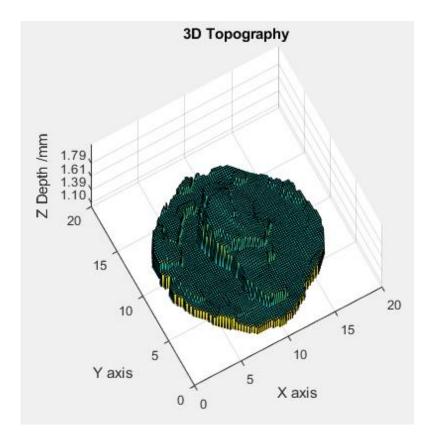


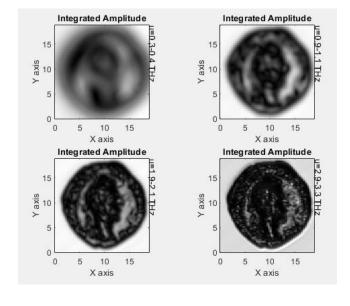


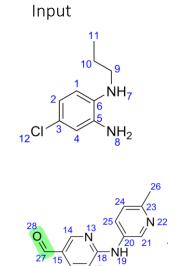
Chemical-physical analysis

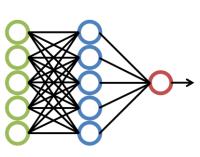




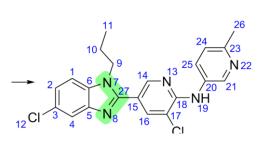








ΑI

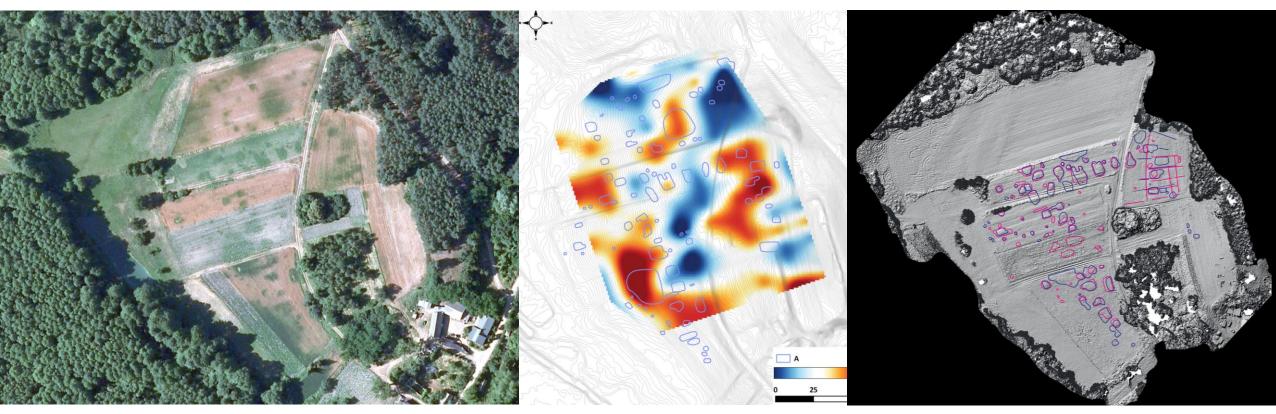






Output

Detecting unknown Cultural Heritage through Al





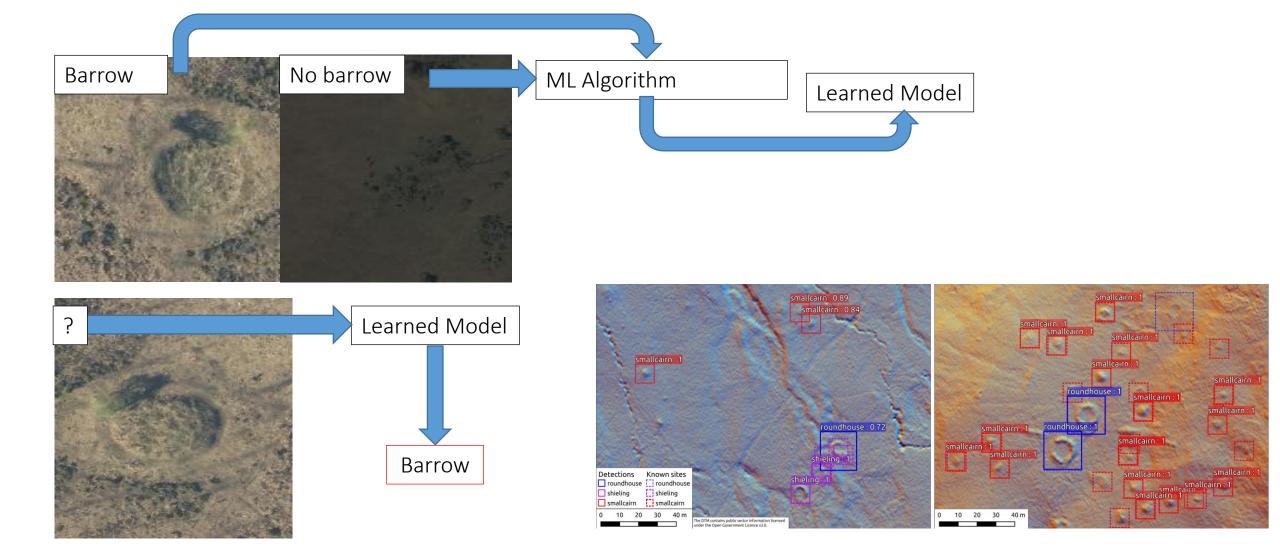
Detecting

Soil and vegetation act as 'markers' of underground archaeological deposits

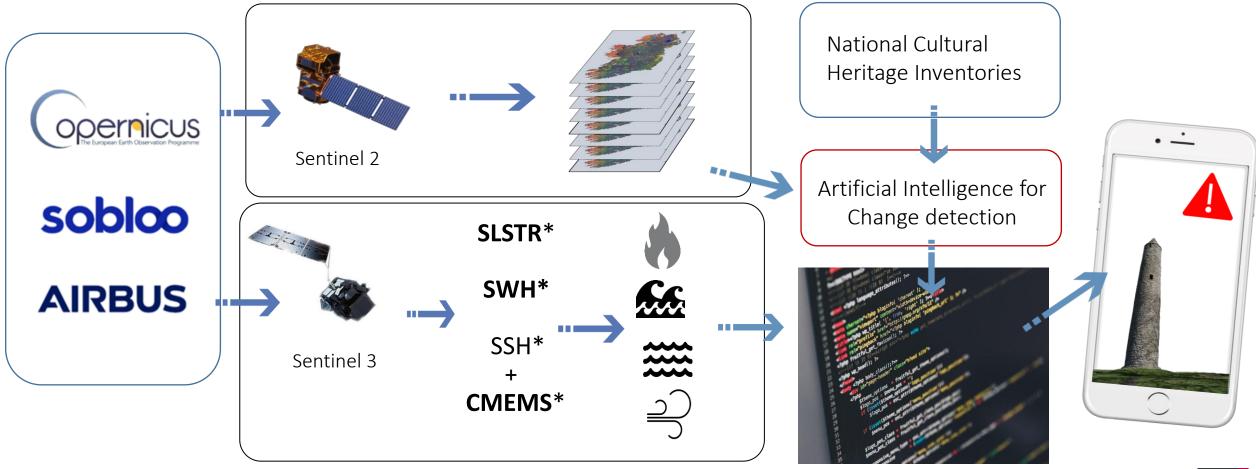




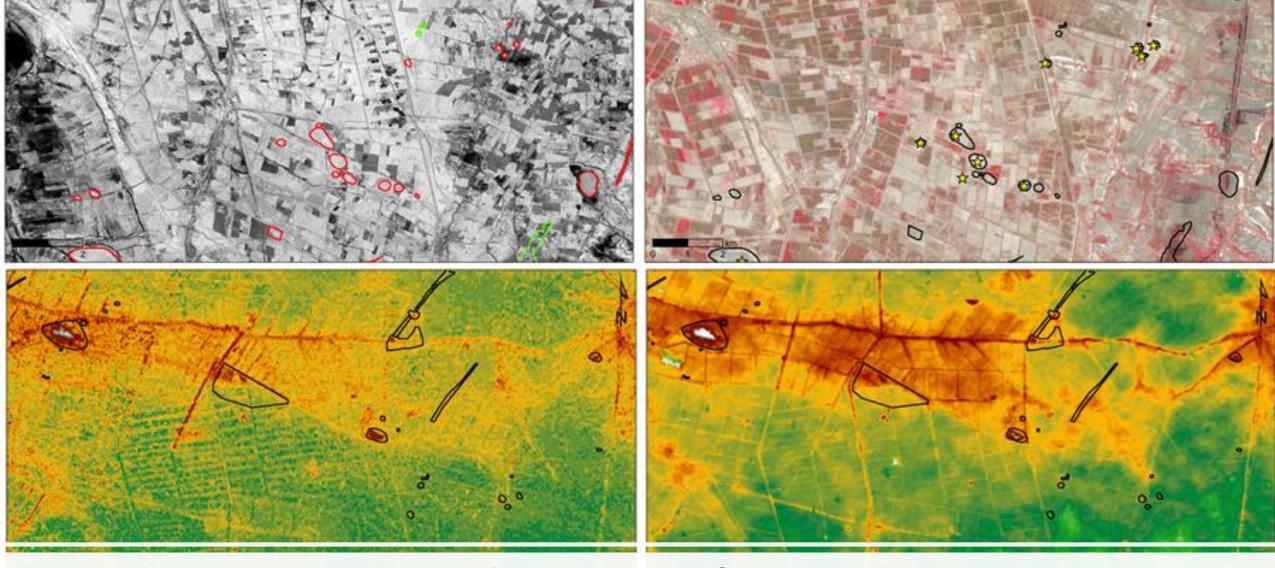
Detecting Cultural Heritage through Al



Climate change, Cultural Heritage and Al

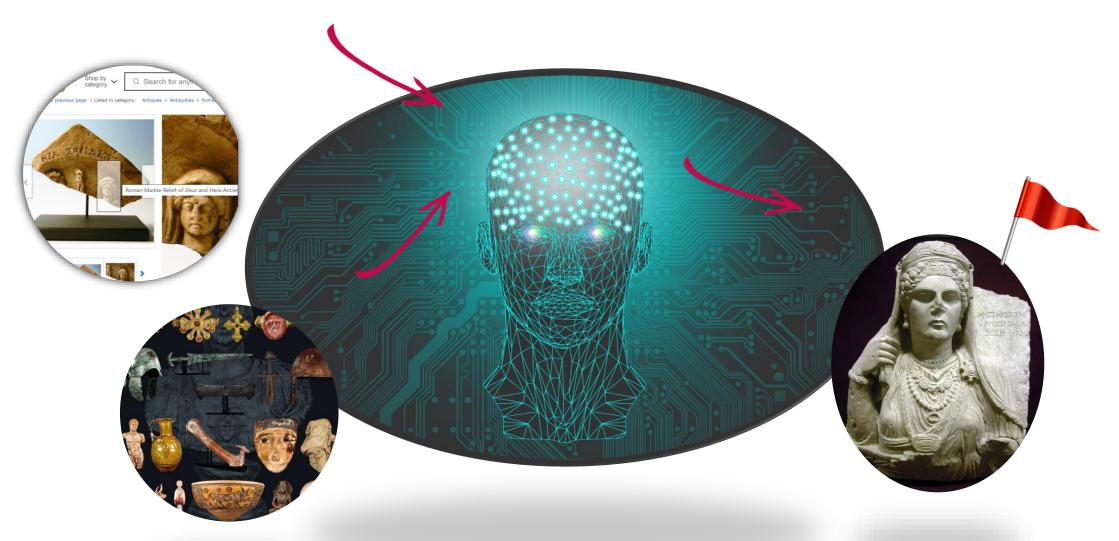






Crime detection from space

Crime detection on the Internet





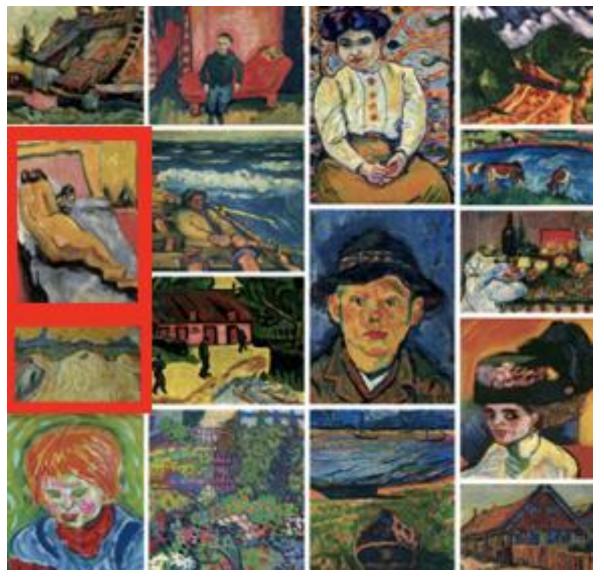
Art crime detection



Art Recognition AG



Collage of artworks by German expressionist painter Max Pechtstein. The images within red rectangles are fakes and have been identified as such by the Art Recognition algorithm.



Courtesy of: ArtRecognition (Zurich, Switzerland) www.art-recognition.com

Exponential technologies and their pervasiveness



