

Artificial Intelligence

ARTIFICIAL INTELLIGENCE (AI)

Any technique that enables computers to mimic human behaviour



MACHINE LEARNING (ML)

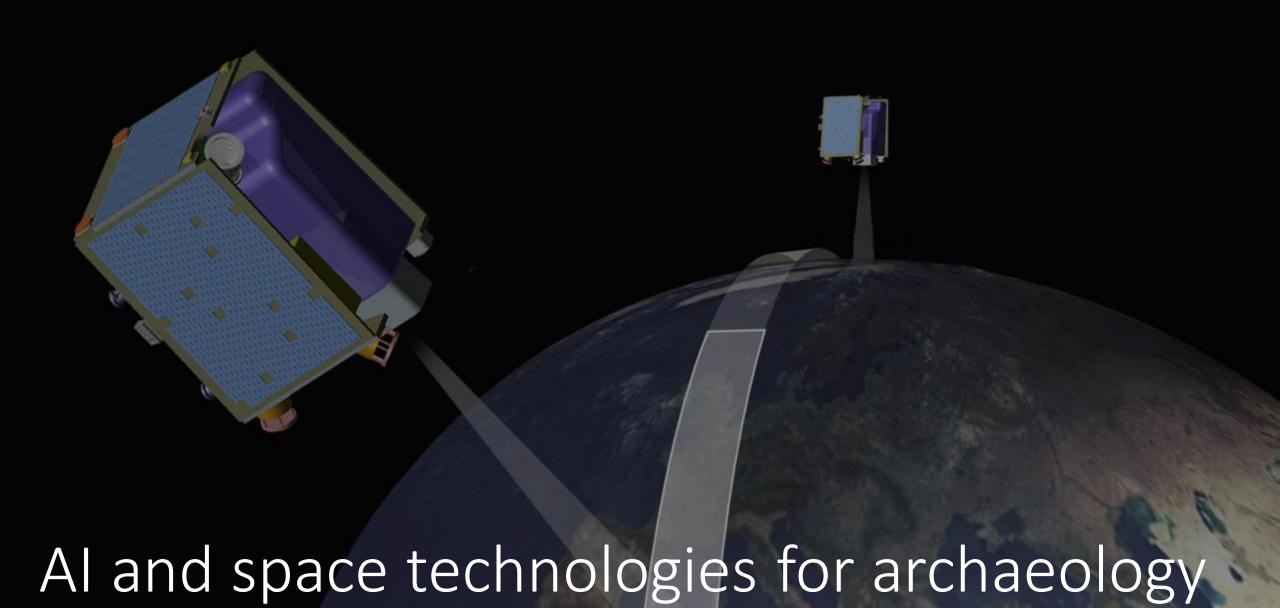
Ability to learn without explicitly being programmed



DEEP LEARNING

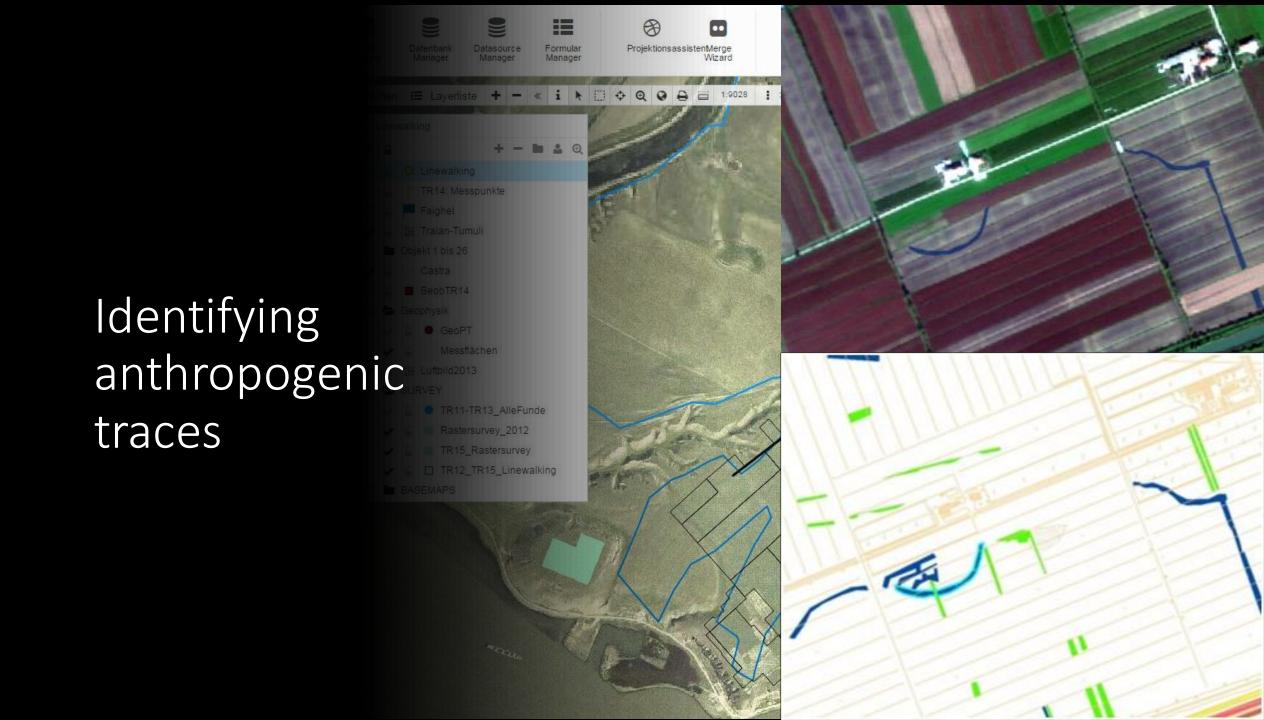
Extract patterns from data using Neural Networks

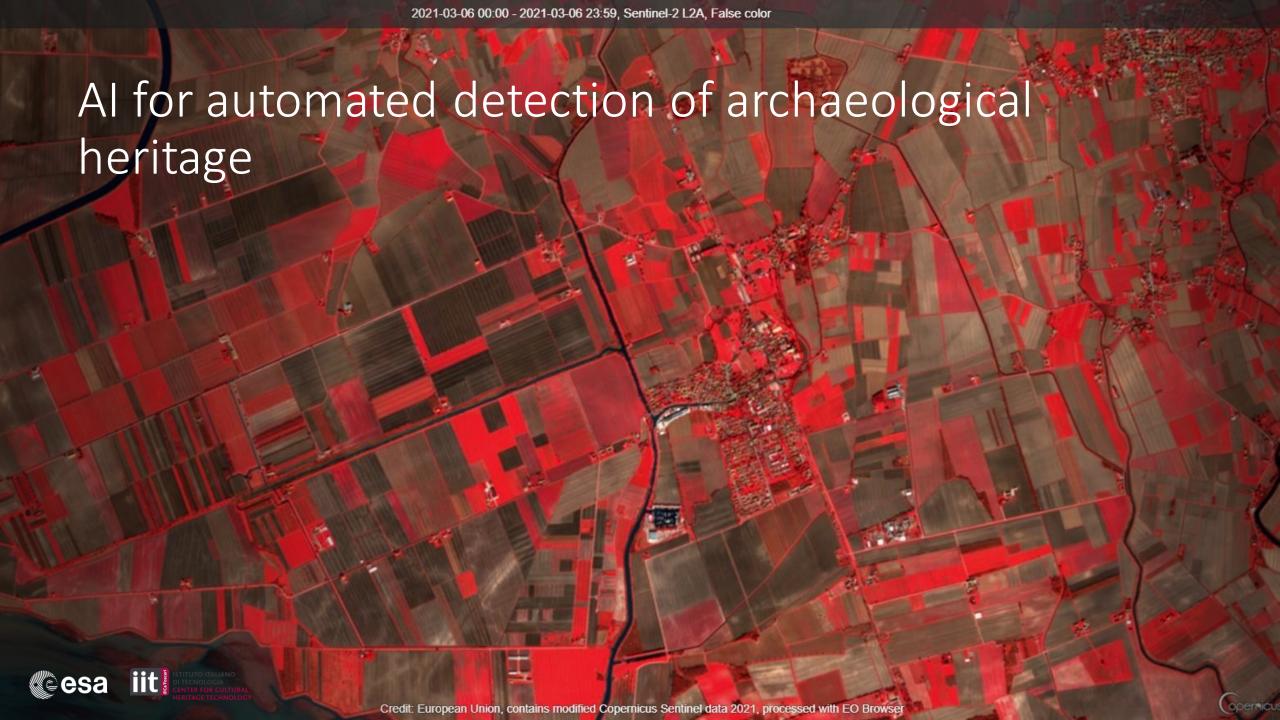


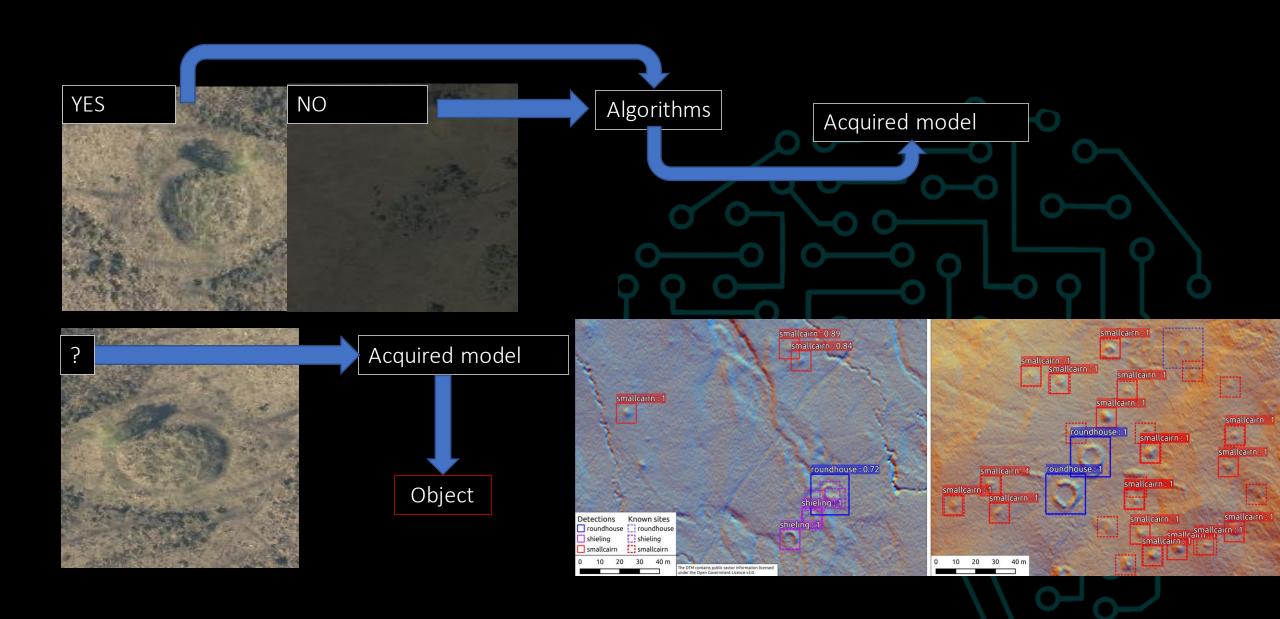


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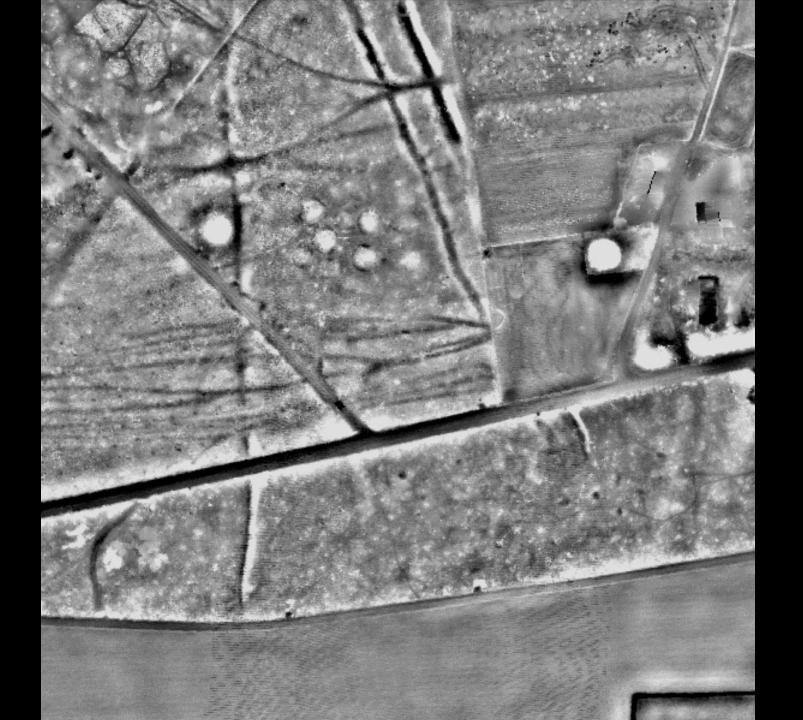




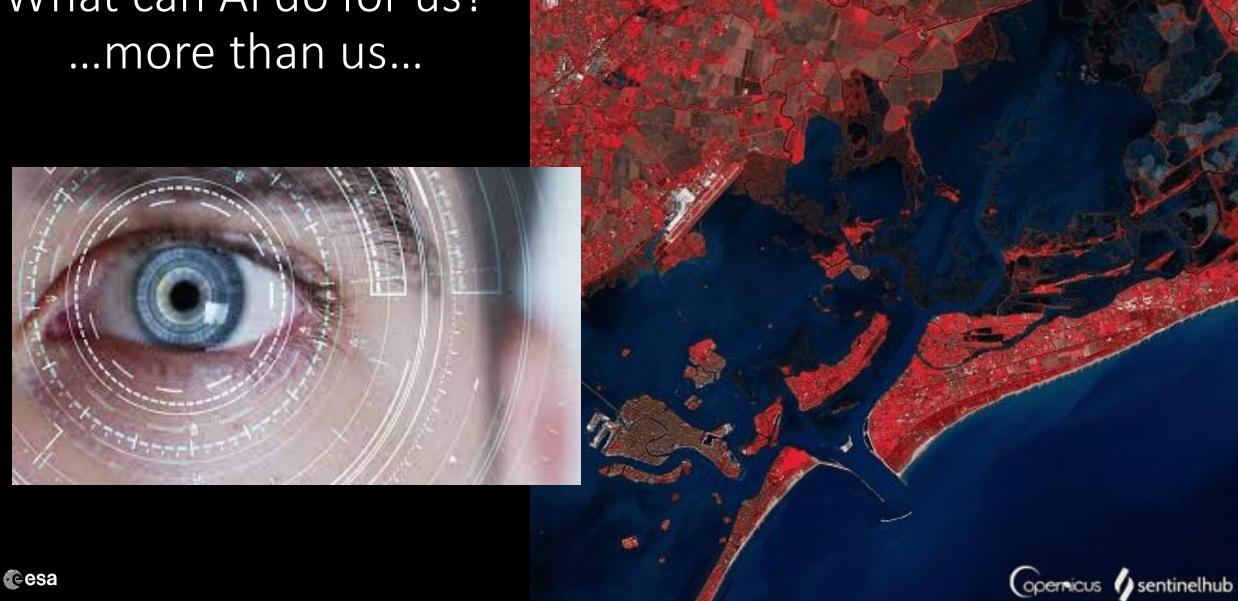








What can Al do for us?



2016-11-15





Challenges

- Protect and preserve still-buried archaeological heritage that has been identified using advanced detection methods (remote sensing, geophysics, Al etc)
- At National level: promote digital integrated platforms that can used, integrated, updated from all the actors involved in planning policies and activities archaeologists, town and regional planners and enable them to consult one another more actively so that they can design infrastructures that do not negatively impact archaeological sites
- At broader pan-European level: promote digital data sharing across MS especially in border areas where they can provide useful information to better understand cultural landscapes across our current borders.

• Increase availability of remote sensing data. Copernicus platform promises enormous opportunities for heritage protection and its use should be incentivised.

Not only scientific discovery...



Challenges and needs

- Promote availability of data from remote sensing and other sources to be processed via AI to stop looting
- Support the exchange via protected digital platforms of information from scientific institutions to relevant public authorities to pool information on any illicit excavations identified;
- Support the appropriate training both on AI aspects and remote sensing

Al and trafficking of cultural heritage

