[1] Scanning evolution

A shift from imaging to material identification

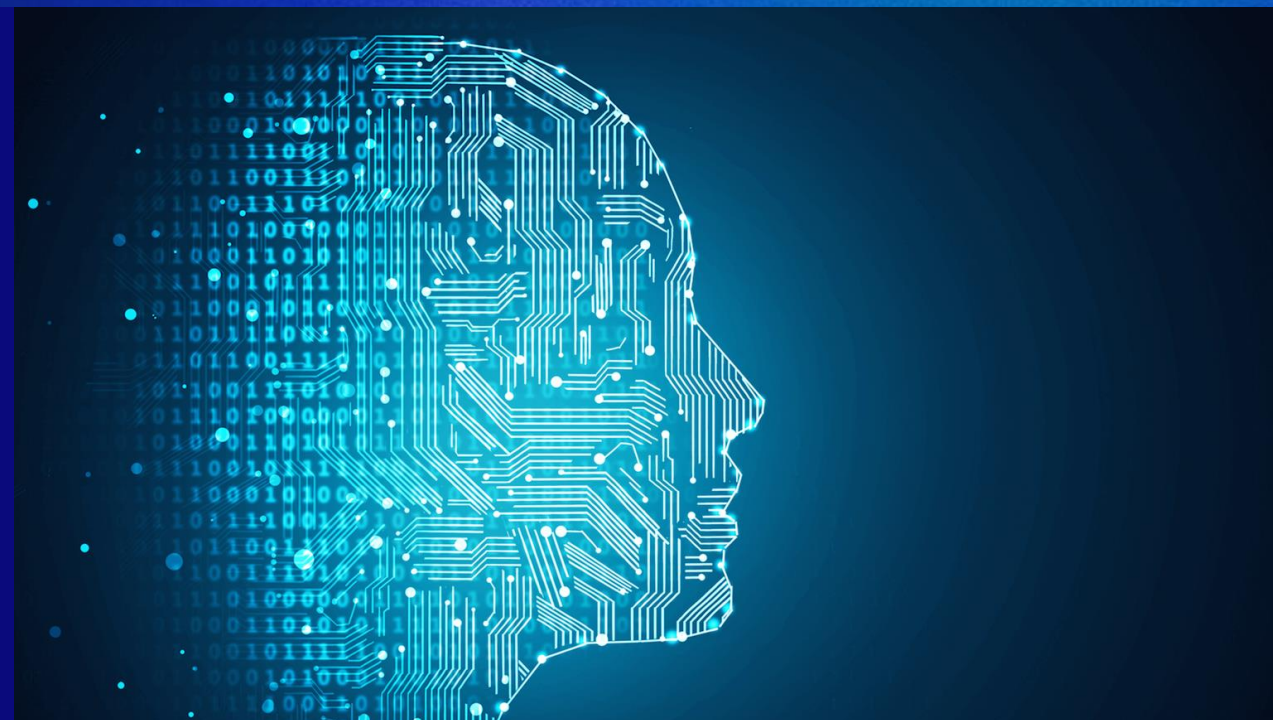## What is ART?

Atmospheric Ray Tomography (ART)

- applying only natural atmospheric radiation

- https://silentborder.eu

- https://arxiv.org/abs/2102.12542

2 AI-based analysis

- Machine Learning is integrated from scratch

- Identification of the chemical composition of scanned objects

- Other AI-based components:
  -- object reconstruction
  -- classification of 3D images

- Fast automated analysis much faster than human image interpretation

GSCAN

3 Digital data integration

Accurate material ID powering risk

- Material identification though any shielding

- Secures supply chain at any point

- AI powered interface to Customs risk engines

- Automated processes alleviate trade complaints