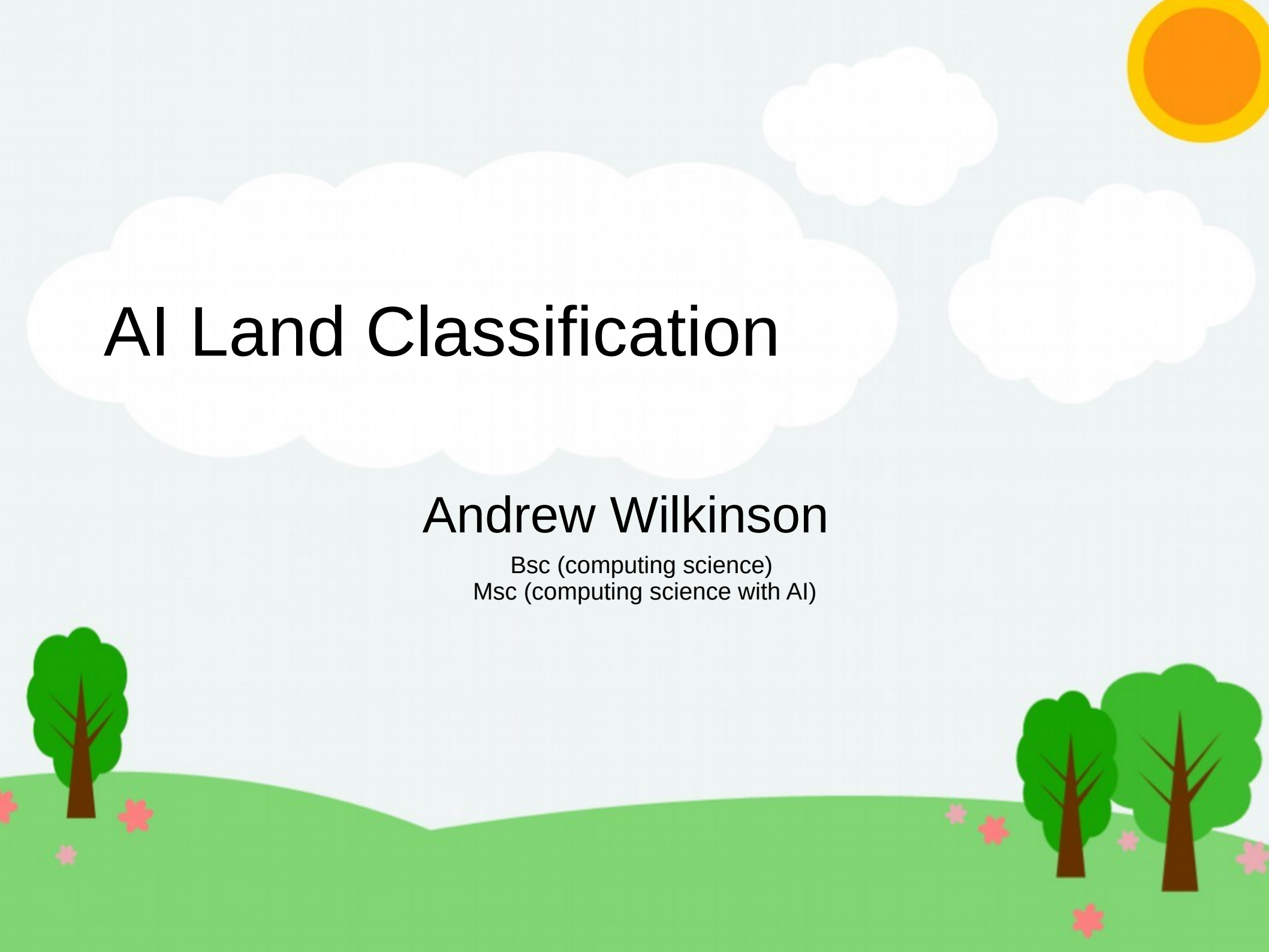




AI Land Classification

Andrew Wilkinson

Bsc (computing science)
Msc (computing science with AI)

Garbage - Growing Issue

- Impromptu garbage dumps
- Environmental Challenges
- Difficulty Tracking
 - Time-consuming
 - Labour intensive => Expensive



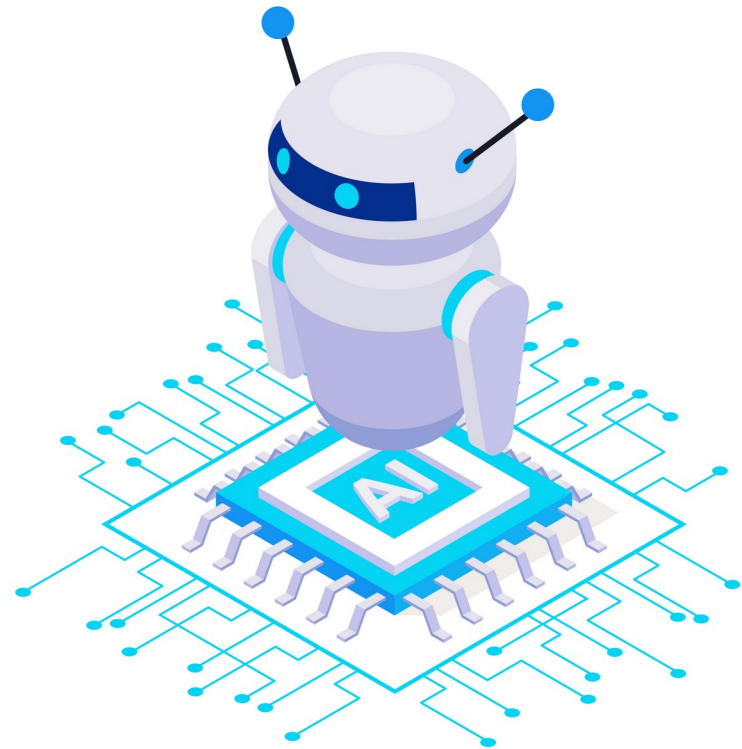
Satellite Imagery

- High resolution
- Multiple sources:
 - ESA
 - NASA
- Free or subscription

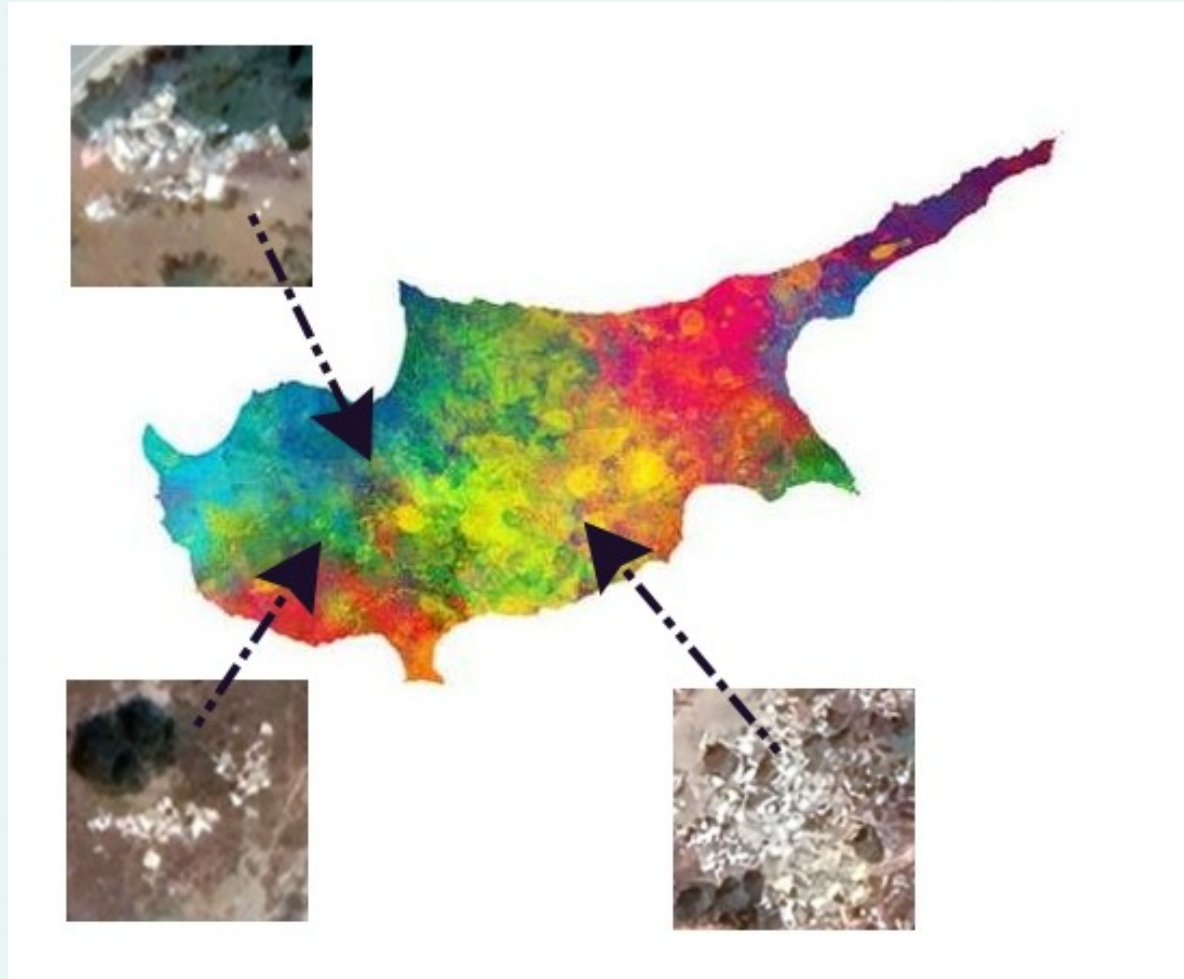


AI-Powered Solution

- Neural networks
- Identify garbage dumps
- Satellite images
- High Accuracy



Nationwide Mapping



Pay As You Throw

- Historical data
- Future data
- Monitor impact



Fire Risk Assessment

- Combustible material
 - organic matter
 - chemicals
- Infrared satellite data
- Regular data monitoring
 - Heat changes
 - Dumps at risk



Broader Applications

