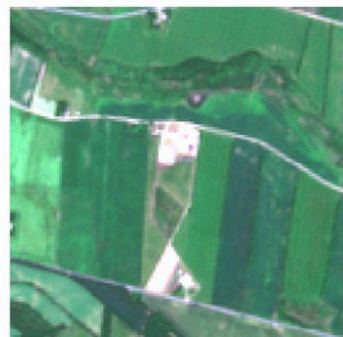# CAS: Confidence Assessments of classification algorithms for Semantic segmentation

Perform fine-tuning on ESA WorldCover data
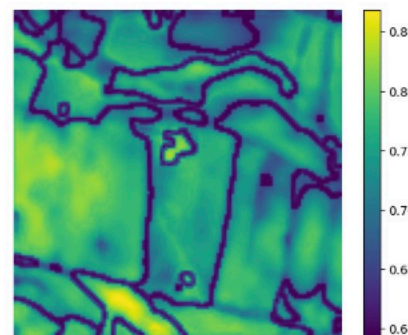

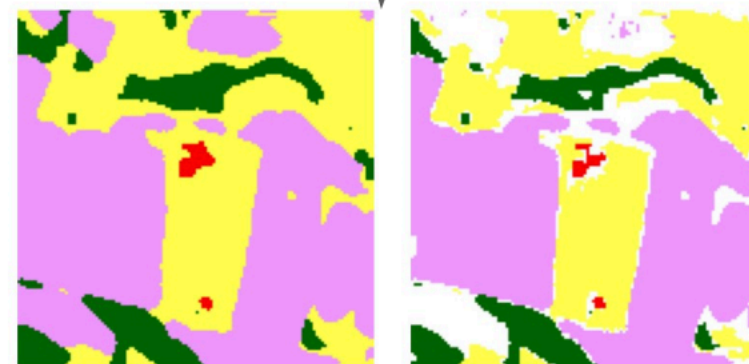**Base model: Geo-aware all-spectral-bands Foundation Model PhilEO Version 1.0**

Input data: Satellite Sentinel-2

Confidence assessments per segment and pixel

Confidence map

Compute statistics that can be used as proxy for correct classification, including entropy, gradient, and logits: Combined confidence metric

Evaluation metrics: IoU; Correlation coefficient; AUROC; Divergences

Output prediction: Classification