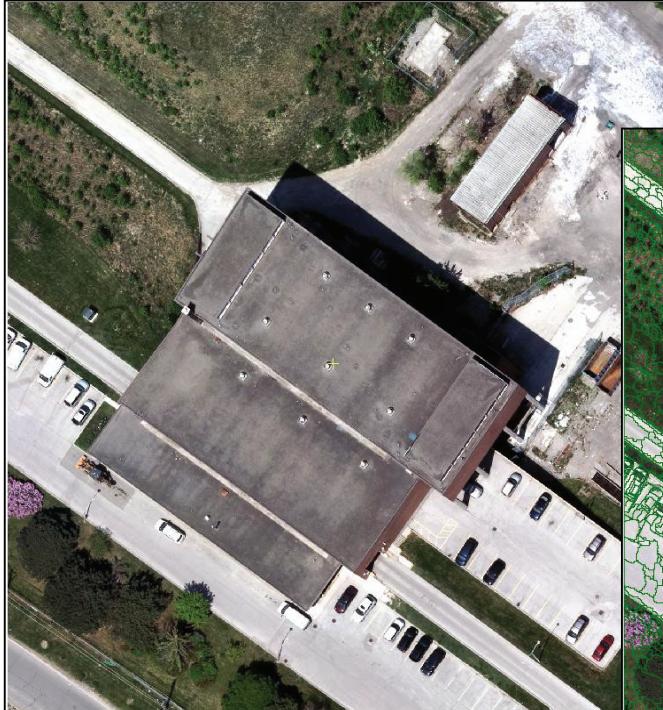


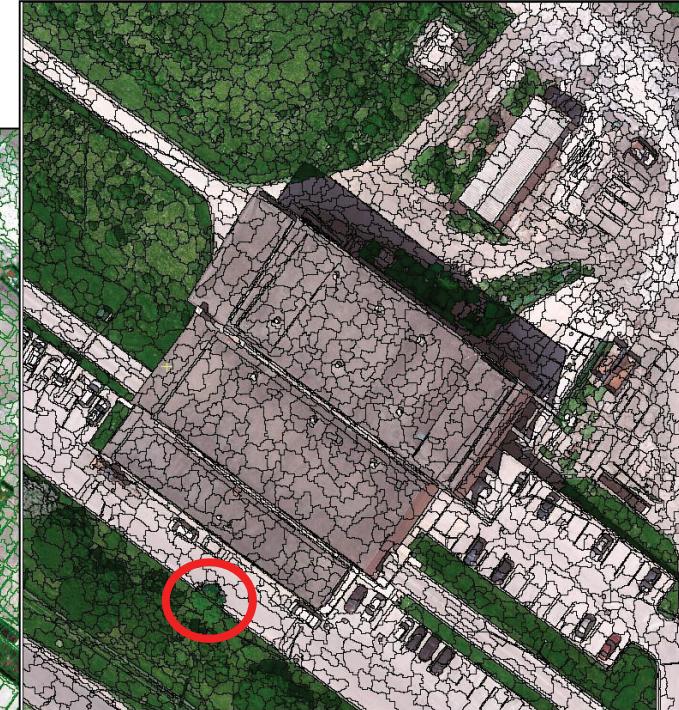
Object Oriented Extraction of Permeable and Impermeable Surfaces



Test area from Toronto



Segmentation using Red and NDVI bands
from 2015 and 2016 aerial imagery



Post classification of permeable and
impermeable surfaces with a tree
overhanging above impermeable surface

Road Extraction Index (REI) = $\text{NIR} - \text{B}/\text{NIR} + \text{B}^*\text{NIR}$ (detects asphalt well)

Building Area Index (BAI) = $\text{B} - \text{NIR}/\text{B} + \text{NIR}$ (detects concrete well)



Post rule-based classification:
Clear of overhanging tree
with the use of REI

Vector features dissolved
from the classified
segments

