

Empowering Citizens. Smarter Societies.

**Insight**  
Centre for Data Analytics



# *99 Problems But a Birch Ain't One*

Predicting canopy coverage in urban areas

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A World Leading SFI Research Centre



# Welcome to the Concrete Jungle

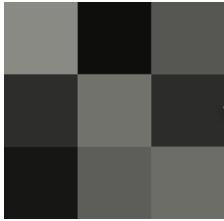


- 10,000 Trees
- 9 Months

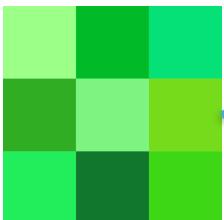


# What Roots Can We Take ?

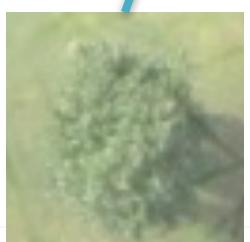
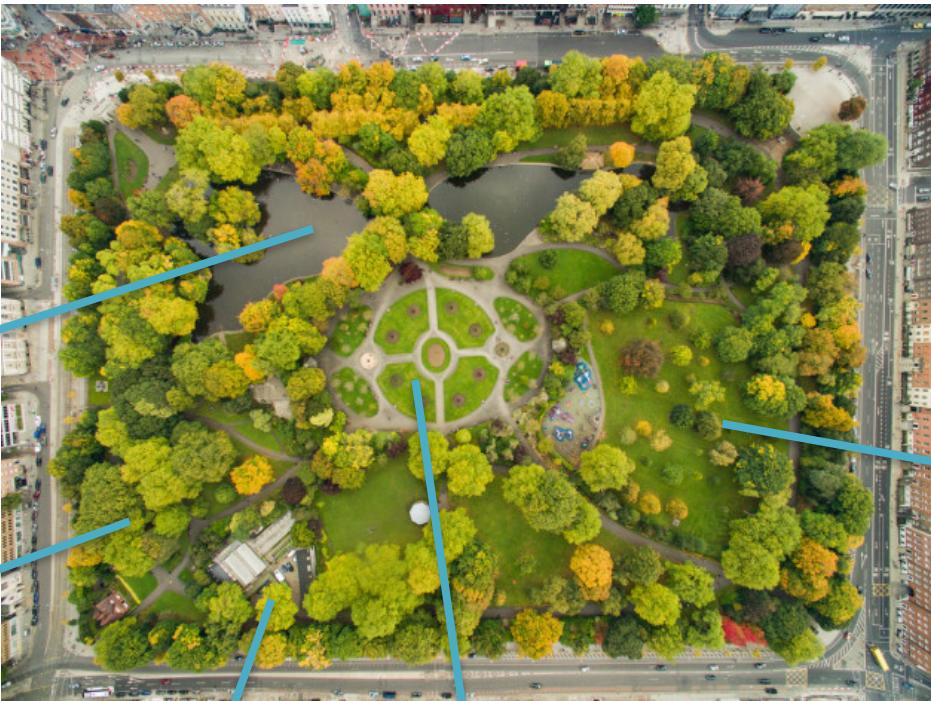
2. Traditional  
Machine  
Learning



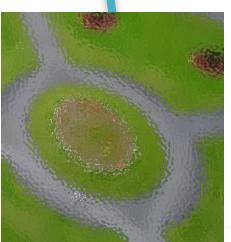
Non  
Tree



Tree



Tree



Non Tree

1. Manual Labelling

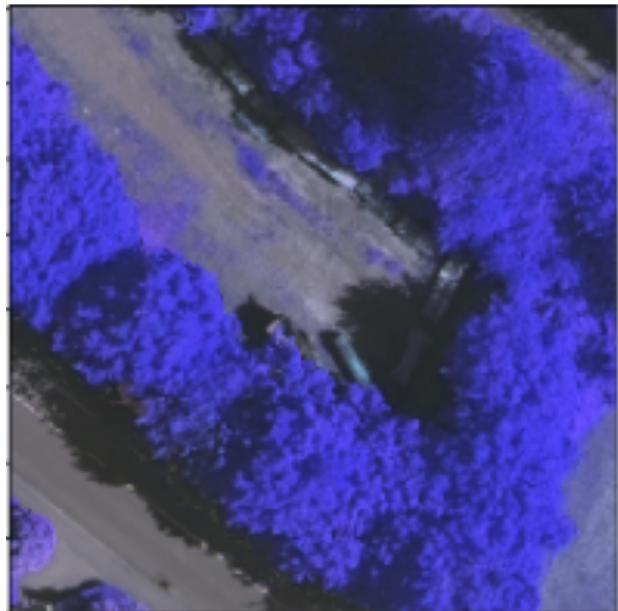
Yup, it's  
a tree.



3. Deep  
Learning

# You Wood Not Believe the Results

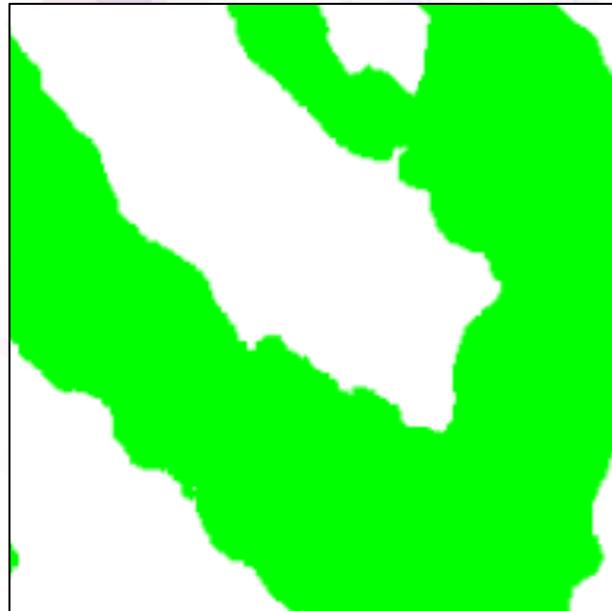
85% Accuracy



Aerial Image



Human Interpretation



Model Result

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*Thank You*

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