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DLRV Project proposal

# Semantic Segmentation of aerial images of forest scenery

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## 1 Introduction

The objective of the project is to perform semantic segmentation using Deep learning techniques. The project will use labelled data of forest scenery captured from an aerial view most commonly by unmanned aerial vehicles. An Example of the the data that will be used for the project is given in the Figure1.



Figure 1: Forest imagery

The expected final result is to have a pixel-wise segmentation of the forest into the following categories

- Empty forest area
- Trees
- Shrubbery
- Logs(cut down stacks of trees)
- Roads(dirt and tarmac)

### 1.1 Project Plan

### 1.2 Models and tools

### 1.3 Data sets

### 1.4 Potential problems

## 2 Related Work

- What have other people done?
- Why is it not sufficient?

## References

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