

## **Abstract**

The usage of drones has been increasing rapidly in recent years and will keep increasing in the coming years. Nowadays, drones are finally being deployed within the port of Antwerp, but still it seems to be going more slowly than in other industries.

In this thesis, the various applications that can be used within the port of Antwerp are being analysed based on; the drone and payload that is being used, the pros and cons of the drone application and last but not least the way of implementing these applications. Also we analyse the evolution of the legislation and the legislation itself in detail to highlight its importance.

From this analysis we can clearly see that the legislation and the analysis of the data collected by the drones are emerging as the weakest link. Collecting the data is not the problem anymore.

So the usage of drones within the port of Antwerp is currently not limited by the maturity of the drone technology, but by the applicable legal framework and the limited possibilities of the data processing.