Hello, my name is Martijn Guilliams and I am a student at the Hogeschool PXL. I am doing my internship and bachelor thesis at DroneMatrix, a Belgian company that specializes in developing and applying autonomous drone solutions. In this video, I want to tell you briefly about the company and my research project.

DroneMatrix was founded in 2015 and is a pioneer in the drone-in-a-box industry. A drone-in-a-box is a fully integrated autonomous drone system that can be deployed remotely for various purposes, such as security, inspection, logistics and more. DroneMatrix has developed its own drone platform, called YACOB, which uses the most advanced artificial intelligence on board for live interpretation and evaluation of the images. YACOB is safe, reliable and flexible to use in any industrial environment. DroneMatrix offers its customers a drone-as-a-service, where they only pay for the effective flight time and the data they need.

My research project is about designing and building a testbench. The testbench will measure different aspects of the drone, such as vibrations, efficiency, and quality. These measurements will then be used to improve build quality resulting in less vibrations and possibly a longer lifespan of the drone. Other measurements are also very important to calculate the efficiency and to check if every motor is working up to the specifications.

I hope you have a better idea of what DroneMatrix does and what my research project entails. I look forward to telling you more about my progress and results in the Kick-off presentation next week. Thank you for your attention and see you soon.