

Remote Condition Monitoring à Manchester Remote Condition Monitoring à Manchester

So we have several remote condition maintenance initiatives in place to allow us to detect potential failures and improve the way we measure wear of safety critical assets, example the wheel, pantograph, the overhead lines. Our Pantobot allows us to capture issues with the pantograph while a vehicle is in service which could cause a rip down of the overhead lines. Our wheel measurement equipment uses a set of lasers to measure the wheel profile and our tram mounted equipment measures the wear of the overhead lines and the track. So the Pantobot alerts us of potential issues with the pantograph of the vehicles, this can reduce the risk of the overhead line rip downs. The wheel profile equipment allows us to predict where of the wheel so that intrusive maintenance can be carried out and planned. Moreover the Pantobot automatically checks every five days instead of every two months and removes the need for manual measurements. The overhead and track measurement equipment gives us data points every 5 millimetres, this allows us to get a better understanding of how our linear assets are wearing and removes the need for manual measurements again. So this innovation can be operated on the whole Keolis tram network whilst remote condition monitoring in their first stages the results we have seen so far are very encouraging and will only get better over time as we understand the system and make tweaks to the alerts and alarms.