SNCF Réseau – Assistance mission for the visual inspection of catenary anchor points

Thanks to the mastery of LiDAR remote sensing technology embedded in drones, Altametris offers digital models of unparalleled density, even under plant cover, which contribute, by revealing the slightest anomaly in the field, to renew, in a simple way and fast, reading and understanding of historical developments.
SNCF Réseau wanted to visit the anchor points and catenary gantries located at the rail mouth of the Gare de l'Est. These elements essential to the performance of the network had not been the subject of a detailed inspection for several years, in particular because of their difficulty of access, the density of traffic and the danger associated with high voltage cables. . A pedestrian inspection tour would have required long weeks, traffic stops and the deployment of heavy equipment (nacelles, advertisers, etc.)

ALTAMETRIS addressed this problem by proposing to SNCF Réseau to carry out the visual inspection of 250 catenary gantries by drone. The acquisition methodology was developed to ensure the safety of goods and people while maintaining normal site activity.

Our remote pilots, equipped with a drone equipped with a high-definition camera, thus flew over all 250 anchor points in 5 days at a distance of around one meter, without ever engaging the railway gauge and without logging the catenaries and without traffic disruption.

The georeferenced shots were superimposed on the staking plan provided by the client, thus allowing him to carry out the virtual visit of the anchor points and to precisely target the areas of interest requiring an in-depth examination by a business expert.