



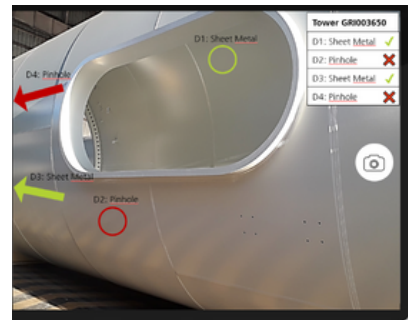
# AR ENHANCED INSPECTOR

Fully automated inspection of wind turbine towers for painting defects in production, providing defect-detection of over 95%

## SOLUTION DESCRIPTION

The AR-Enhanced Inspector facilitates the **identification and visualization of painting defects on wind turbine towers** through augmented reality, utilizing a handheld device. Its functionality encompasses initial accurate defect detection via a fully automated computer vision system.

The system **aids workers in effectively addressing detected defects by guiding them through navigational overlays**, enhancing their real-world environment. For seamless traceability of the repair process, workers can document repair activities by capturing pictures and adding textual or graphical annotations.



## MAIN BENEFITS

- ▶ Makes inspection less error-prone, as machines are more reliable than humans
- ▶ Makes the repair-process traceable by allowing easy documentation and annotation
- ▶ Makes fixing defects more precise, by reliably guiding workers to defect locations via augmented reality
- ▶ Saves time for workers, as they can quickly locate defects

PRODUCT OWNERS:



The ZDZW project has received funding from the European Union's Horizon Europe programme under grant agreement No 101057404.