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H³Zoom.AI

Press Release

H3 Zoom.AI Façade Inspector Introduces PE Portal for Professional Engineers, Inspectors, and Façade Specialists

Analyze "Rust Data"



Software interface for analyzing rust data on a building facade. The interface includes a toolbar with buttons for "Add defect type", "Zoom in or press 'q'", "Zoom out or press 'w'", "Complete and go to next Image", "Mark as completed", and "Test". A menu of defect types is visible, including "Comment", "Eraser", "Paint Peeling", "Concrete Crack", "Wall Tile Crack", "Water Ponding", "Water Stain", "Vegetation", "Buckling", "Rust", and "Stain". The main image shows a large building facade with a rusted area highlighted in brown. The word "Corrosion" is overlaid on the rusted area. The interface also shows "Completed 3 of 3" and "Add defect type" buttons.

Singapore – October 22, 2018: [H3 Zoom.AI](#), a subsidiary company under [H3 Dynamics](#), announces the launch of PE Portal – a new cloud-based platform that enables professional engineers, inspectors, and façade specialists to digitally and remotely review, annotate, and verify façade defects / anomalies as precedently identified by the Façade Inspector A.I. engine.

PE Portal is one of the key enhancement features that enables Façade Inspector to become a fully complete end-to-end solution for the various stakeholders within the façade inspection industry, including building owners, facility management companies, and professional engineers.

As regulations mandate that building façade inspections are verified and certified by qualified engineers, the PE Portal accentuates the role of façade inspection professionals and integrates their knowledge and expertise into the review, identification, and verification process of defects / anomalies. Furthermore, this process also provides continuous learning opportunities for the A.I. engine to identify new defect types, learn and improve its data analytics accuracy and efficacy.

In a nutshell, Façade Inspector A.I. engine and the PE Portal help streamline the entire façade inspection process and addresses the scalability challenge by introducing an integrated and fully digitized process that can scan high-rise buildings and produce certified inspection reports within days instead of weeks.

Façade Inspector is a visual inspection tool developed by H3 Zoom that leverages on artificial intelligence and scanner drones to transform the way high-rise building facades are inspected and maintained. The A.I.-enabled software automates and digitizes the entire inspection process through the use of camera drones for data collection and proprietary machine learning algorithm for data processing and visual analytics. The A.I. engine can sort through thousands of HD images to precisely identify, qualify, and localize different types of defects, which are then represented through interactive inspection reports.

Building owners and facility managers can now log in to H3 Zoom.AI, select the building elevation diagram they want to review, see a summary of defects found by severity levels and types (surface cracks, paint peels, corrosion marks, and other defects), all of which can be visualized as an overlay onto the elevation maps. Each defect description also comes with a severity grading, which the A.I. engine has learned over time from experts' inputs.

H3 Zoom Pte. Ltd. <http://www.h3zoom.ai/>

H3 Zoom is a cloud based and A.I.-powered digital services platform that addresses specific infrastructure maintenance use cases across several industry verticals. The platform will feature a range of digital subscription services that feature automated anomaly reporting systems based on visual, thermal or chemical sensor inputs gathered by drones and a variety of other remotely operated sensor robots.

H3 Dynamics Holdings Pte. Ltd. <http://www.h3dynamics.com/>

H3 Dynamics, parent company of H3 Zoom.AI, is a holding company with businesses that combine cloud-based artificial intelligence / machine-learning data services with internet-connected, automated inspection & monitoring robots and drones so that data collection in the field, data transfer and data processing can be fully automated end-to-end. H3 Dynamics is a Singaporean company with a European subsidiary in Paris France, a US subsidiary in Austin Texas, as well as representation in Japan and Brazil.