



# | Runway



## The Challenge

The continual monitoring of runway surfaces is not only mandatory under international guidelines but important for whole-life management of an airports most critical asset.

With ICAO Annex 14 changing, a greater emphasis is being placed on pavement condition. This includes the mandatory assessment of Pavement Condition and the extra importance on airports operating a scheduled Pavement Management System (PMS). Part of this includes the move from the old ACN/PCR calculations to ACR/PCR.

A PMS will combine Heavy Weight Deflectometer, Pavement Condition Index (PCI), Friction and Roughness (IRI/BBI) surveys to give a snapshot of the condition of the pavement.

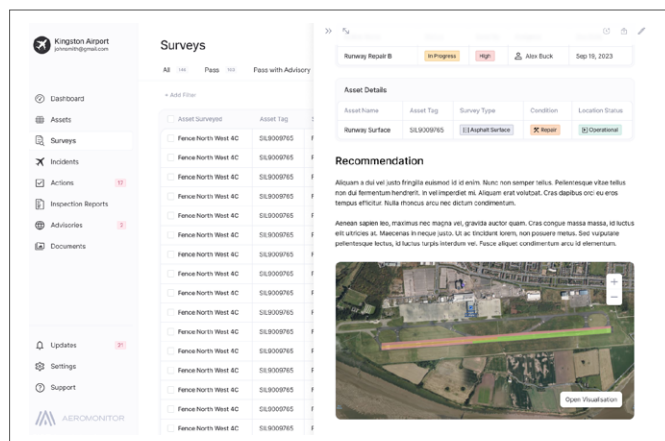
The management of the large volumes of data produced by a PMS creates a challenge for airports as this data needs to be viewed, analysed and used to make maintenance decisions.

## The Solution

R3 can help you with this by providing standard testing services for airport Pavement Management Systems (PMS) as well as specialised testing services for runways around the globe. Our team have carried out surveys around the world to ICAO, UK CAA and FAA legislation. All our airport surveys are completed to the highest standard in accordance with legislative authority regulations

**Our reports are all accredited by experienced industry professionals in which we provide:**

- Pavement Condition Index (PCI) survey in accordance with ASTM D340 for airport pavements.
- Pavement Condition Rating (PCR)
- Friction Testing
- Heavy Weight Deflectometer (HWD)
- 3D Surface Modeling
- Profilometer
- International Roughness Indicator (IRI)



R3's AeroMonitor Airport Pavement Management System manages all your pavement data in one place. The cloud-based software allows airport operation managers to take a data driven approach to pavement maintenance.

AeroMonitor is also an asset management system that combines pavement data with the comprehensive SaaS solution that streamlines Airport Asset Management, providing you with intelligent insights to predict, protect, and perform efficiently. Harnessing advanced technologies, AeroMonitor minimises downtime, reduces maintenance expenses, and enhances safety protocols, keeping your airport operation ready round-the-clock.



## Benefits

- The airport operators have a full understanding of the condition of their aerodromes.
- Pavement deterioration modelling, our predictive modelling allow you to anticipate pavement deterioration and effectively plan maintenance schedules.
- Automation of daily, monthly, and annually runway inspections.
- Workflow to assign actions and tasks to team members to stay on top of airport operations and ensure your runway is operation and safe for movements.
- Full Maintenance & Rehabilitation (M&R) options are produced to provide cost effective procedures.
- Airport operators save money through targeted maintenance.
- Survey data ensures the safe operation of aerodromes.
- Airport operators have a full understanding of the condition of their aerodromes.
- Analysis of suitable treatments and areas help reduced maintenance costs.

Please get in touch with us to discuss how we can help you

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