



ENGINEER

# AIRFIELD LIGHTING INSPECTION & MAINTENANCE

MEASURES THE  
CURRENT STATUS OF AN  
AIRFIELD'S ASSETS AND  
PLANNED PREVENTATIVE  
MAINTENANCE KPIs.



MALMS ENGINEER

# MALMS ENGINEER DESIGNED TO MANAGE AIRFIELD LIGHTING & PAVEMENT MAINTENANCE DATA



MALMS Engineer is designed to manage all airfield assets and pavement maintenance data recorded during inspections. This allows real-time reporting including runway serviceability, cleaning status, torque management, fault status, inspection status and any pavement issues. MALMS Engineer has been developed following several incidents where airfield ground lighting fixtures have suffered bolt failures resulting in aircraft damage. ICAO Annex 14 section 10.1.1 states “a maintenance programme, including preventive maintenance where appropriate, shall be established at an aerodrome to maintain facilities in a condition which does not impair the safety,

regularity or efficiency of air navigation.”

MALMS Engineer incorporates a 4G/WiFi capable PC tablet for the recording of maintenance and inspection tasks. All maintenance and inspection activity including scheduled and remedial tasks are synchronized in real-time with a traditional or cloud based server.

MALMS Engineer incorporates a work scheduling and reporting tool that may be operated independently or integrated with the MALMS range of products to deliver the MALMS Differential Maintenance Strategy or with an airport’s existing asset management system.



# WHY AIRPORTS CHOOSE MALMS ENGINEER TO MANAGE THEIR AIRSIDE ASSETS

BECAUSE YOU CAN'T MANAGE WHAT YOU DON'T MEASURE

Selecting an asset shows all saved information such as CCR, Pit location, transformer, Asset status, photometric test result, torque status

Recording a civil/pavement fault will automatically drop a GPS Geotag for fault recording

Each user has their own login details and permissions assigned for completing various tasks

Individual assets can be identified either using GPS or RFID

AGL, Signs  
PAPIs, Pits,  
Transformers  
& other airside  
assets

Coloured dots can be used to identify asset status

Inspection routes can be set up- similar to a MALMS Mobile inspection and each task can be recorded

Provides an audit trail for regulators and to demonstrate compliance

Electronic, ergonomically friendly torque wrench allows 'smart torquing' of lights

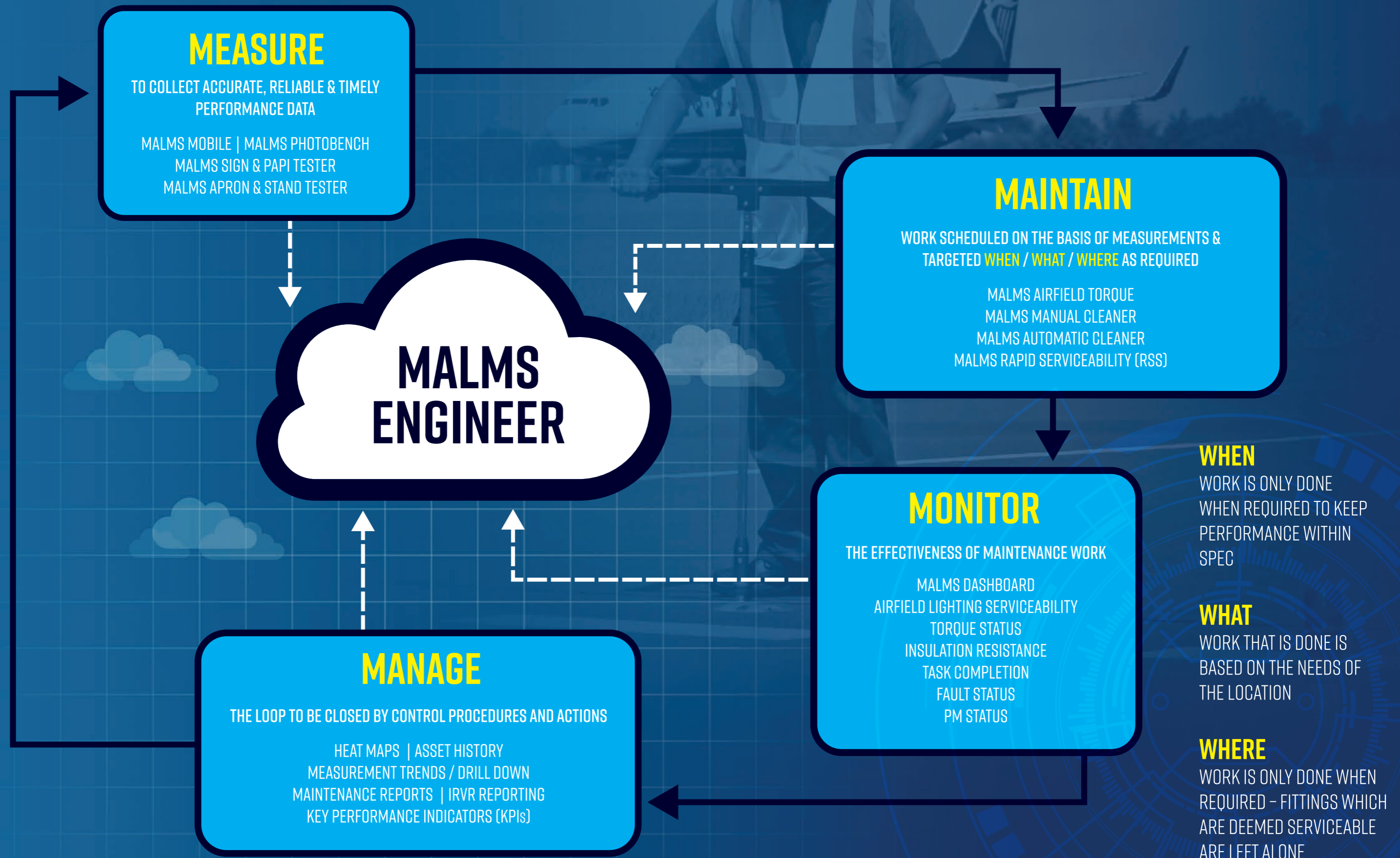
Work done and individual asset information can be accessed locally or via the cloud

Navigation via GPS and a map allows users to know their location at all times

Faults can be filtered by location, type, asset or severity

# MALMS DIFFERENTIAL MAINTENANCE

## BASED ON MEASUREMENTS & STANDARDS



# MALMS ENGINEER - TORQUE MANAGEMENT AIRFIELD LIGHTING INSPECTION & MAINTENANCE



Adopting MALMS Engineer will provide airports with the assurance that all their light fittings are being inspected and maintained in compliance with ICAO annex 14, FAA AC 150/5340-26C and FAA Engineering Brief #83, In-pavement Light Fixture Bolts – mandatory for all airport projects funded with federal grant monies.

## WHY DO AIRPORTS CHOOSE MALMS ENGINEER TO MANAGE THEIR AIRSIDE ASSETS?

- MALMS Engineer incorporates an innovative range of MALMS electronic torque wrenches that can be used as part of an airports planned preventative maintenance system to reduce the risk of foreign object debris (FOD).
- Supports the provision of airfield lighting inspection and maintenance services in accordance with best practices leading to a higher standard of runway maintenance.
- RFID tagging of fittings ensures only serviceable lights are installed and the right model of the light is fitted in the correct location.
- Supports many of the recommendations set out in National and International Standards and provides the means to demonstrate that an airport is operating safely.
- Replaces paper recording methods with an accurate digital solution.
- Incorporates extensive reporting to alert management with key performance information concerning asset performance, list of work undertaken as well as outstanding or overdue maintenance.
- Provides a maintenance audit trail to evidence what work was done, who did it and the results.



YOU CAN'T MANAGE WHAT YOU DON'T MEASURE

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