

Smart Airfield

'Feel your Airport'

By GRP

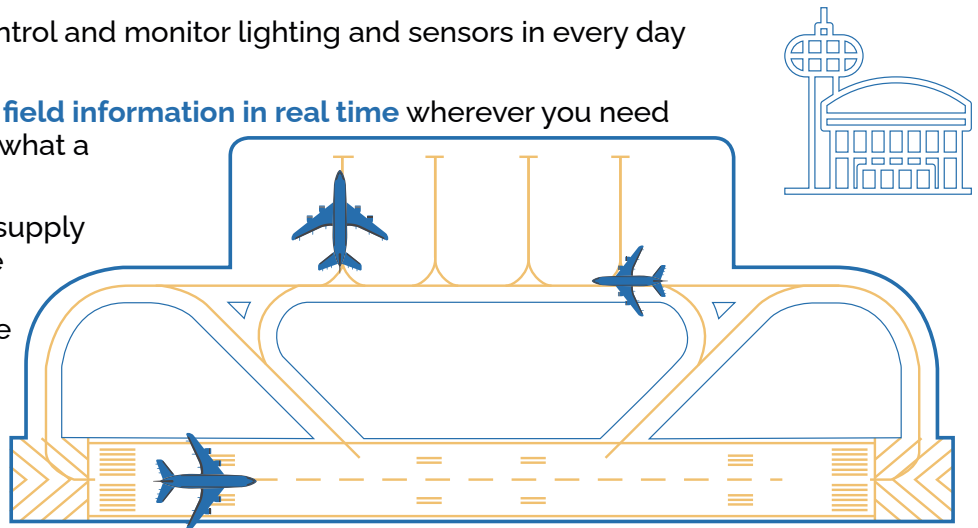
Primary Cable is the Backbone

Prevention and Efficiency

Today technology allows to control and monitor lighting and sensors in every day life, in a building, in the street.

Why not on a runway? **Provide field information in real time** wherever you need and control accordingly, this is what a smart airfield would look like.

Airfield ground lighting power supply network spreads all around the airfield and will allow easy communication with any device involved in airport operation, safety or maintenance tasks thanks to GRP cutting edge power carrier communication technology.



Providing innovative solutions



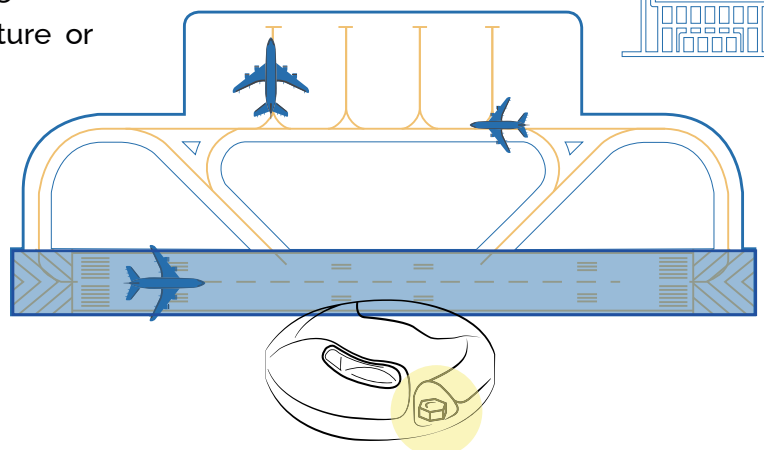
GRP has been an AGL turnkey solution provider for decades. In this communication oriented world, GRP has designed **innovative solutions to efficiently and reliably reports field information**.

Thanks to its highly reliable communication technology, GRP will allow AGL control and monitoring but also other application such as collapsing MAG signs detection or inset lights bolts and deep bases monitoring in order **to prevent FODs**. **Assessing electrical infrastructure and runway conditions** is also easily implemented and will support your inspection teams in a reliable and efficient way.

Runway Safety

FOD prevention is at the core of runway safety. Using proper sensors, GRP has developed a mean to monitor bolts status, deep base structure condition or signs structure integrity. Providing alarms and warnings **before a potential FOD appears** or as it appears in the case of collapsing signs.

This concept can spread to any structure or equipment in the vicinity of the runway and the taxiways.



AGL control and monitoring

Originally required for stop bar control systems, GRP technology provides more and can integrate efficiently other sophisticated functions such as RETIL (Rapid Exit Taxiway Identification Lights) management, or enhanced **aircraft guidance systems** based on follow the greens concept. Simple AGL monitoring can be available at any time, and provide information to maintenance team without impacting operations.

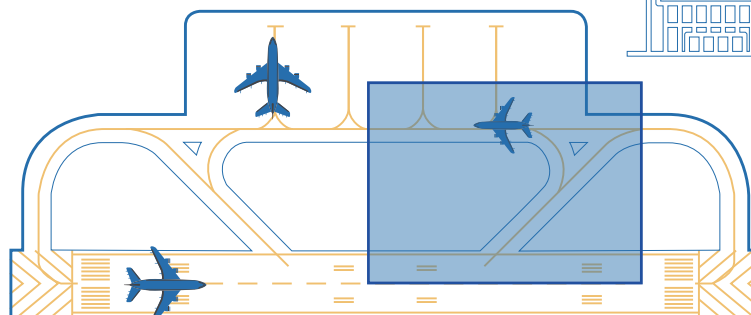


Other equipment such as flashing lights or windcones that are not specifically designed to work on an AGL series circuit, may be integrated and benefit from GRP technology.

Maintenance support

AGL maintenance operation are by definition difficult to implement and time is a real issue due to aircraft operations. Thanks to its close connection with AGL circuit, GRP solution provides reliable status on its **AGL infrastructure** without the need to go on the field and provides accurate information concerning potential problem location.

Lamp failures, primary cable insulation faults, open pits are, among other things, information that can be shared and logged for maintenance purposes.

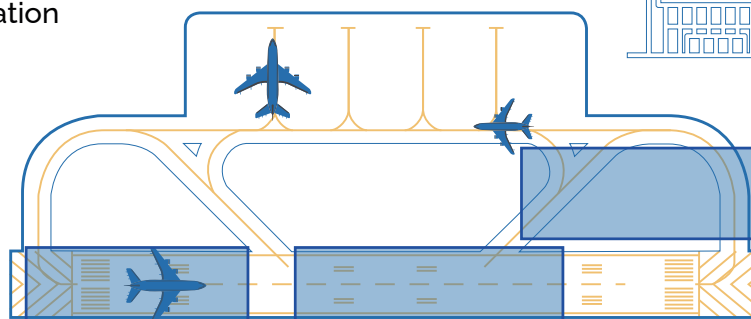


Runway status assessment

Pavement temperature or runway contaminant detection require spreading sensors throughout the runway, involving civil work and dedicated equipment installation.

As soon as you reach the runway, an AGL light fixture is nearby, providing easy access to power supply and communication using GRP technology.

GRP basic field information are now within arm's reach.



The smart runway is just one step ahead, make it happen!



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