S-PLANE

Reliable | Proven | Certification-ready

Applications

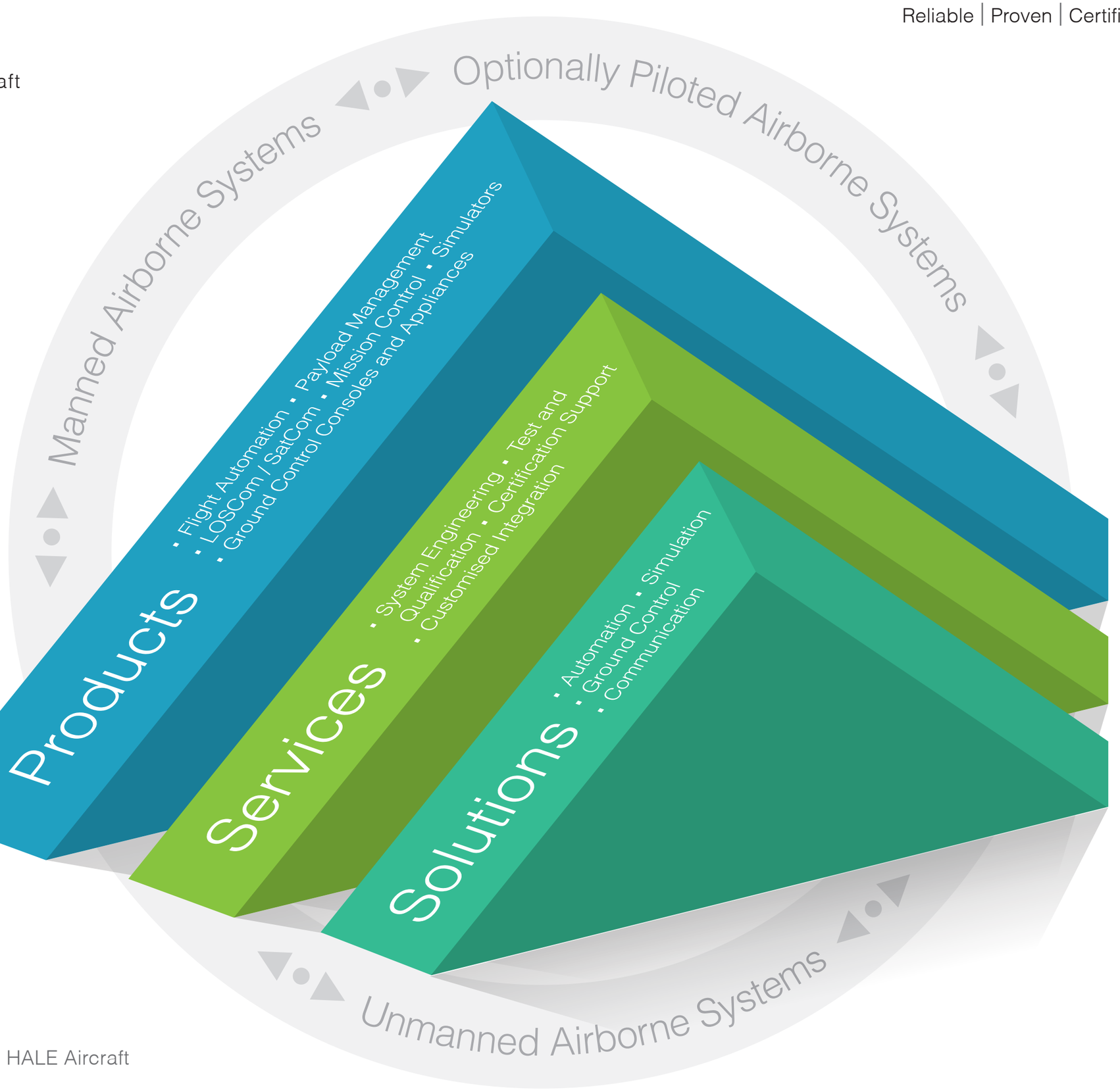
Manned & Unmanned ISR Aircraft

S-PLANE's Aircraft Automation, Communication and Ground Control Solutions, combined with suitable buyer-furnished sensor payloads, are integrated onto rotary-wing and fixed-wing manned and unmanned aircraft in order to create powerful Manned, Unmanned and Optionally Piloted airborne ISR and cargo transport Systems. Integration can be performed for new aircraft or as modernisation and upgrade projects for an existing fleet. Manned systems converted by S-PLANE products are easily upgraded to state-of-the-art certification-ready Optionally Piloted or completely Unmanned Systems. S-PLANE supplies the necessary equipment and provides the system engineering, customisation, integration, testing and certification support you need to make your aircraft system integration a success.

Applications

Manned & Unmanned ISR Aircraft

- Standards-based
- Redundant
- Flight-critical Design
- Fully Customisable



- Rotary- and Fixed-wing Aircraft
- Tactical mini-UAVs to MALE and HALE Aircraft

Aircraft Automation
Solutions

Airframes designed for manned or for unmanned operation are fully automated to become Unmanned or Optionally Piloted Systems (UAS and OPS). This includes mini-, Tactical, MALE and HALE UAS/OPS and extends to manned aircraft. The core building blocks of these solutions are S-PLANE's state of the art, reliable and redundant NX-FCU and X-FCU certification-ready products, combined with system engineering, integration, flight testing and certification support.

Communication
Solutions

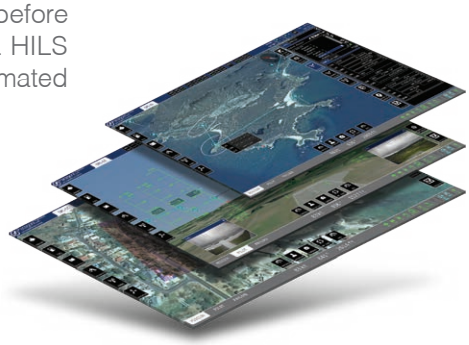
Manned and unmanned aircraft enjoy exceptional RF link connectivity in both Line of Sight (LOS) and non-LOS environments. The primary building blocks of these solutions are S-PLANE's TRACKER 100+ LOS tracker and industry-leading Satellite and LOS communication links. S-PLANE provides system engineering, integration, flight testing and certification support in order to realise complete Communication Solutions.

Ground Control
Solutions

Multi-vehicle Ground Control is provided via a rugged and transportable Tactical Deployment Unit (TDU) serving as the heart of any ISR Ground Control Station (GCS). The TDU provides Command and Control (C2) functionality, connectivity with pilots and mission and payload situational awareness to operators via S-PLANE's ParagonC2 and ParagonISR appliances and operator stations.

Simulation
Solutions

S-PLANE's Automation Solutions are supported by Flight and Mission Simulation and Hardware-In-the-Loop Simulation (HILS). Flight and Mission Simulation is integral to S-PLANE's Tactical Deployment Unit (TDU), normally installed within a Ground Control Station (GCS). This type of simulation is used for training purposes and to allow operators to optimise and practice real missions before they are flown. HILS supports automated execution of acceptance tests as part of an efficient system engineering tool chain.



S-PLANE

Contact Details
9B Cyclonite Road, The Interchange, Somerset West, South Africa, 7130
Phone: +27 21 851 9282, Fax: +27 86 298 4587
Email: info@s-plane.com, Web: www.s-plane.com