**UPGRADE PHILOSOPHY**

- Provide premium performance with value for money
- Modular design to fit multiple radar types
- Process minimum of 2 beams, True 3D for all upgrades
- Low Tp power maintaining performance through high signal processing gain
- Cost saving concepts for installation, validation, maintenance and support
  - Closed Loop Installation Concept
  - Shadow Mode Validation Concept
- Work with partners for their sales channels and as project prime contractors
  - Next Generation Signal Processor (NGSP)
  - Vertical clutter cancellation (VCC)
  - Doppler independent clutter cancellation (ground clutter and wind turbines)
  - 3D height extraction
  - Accurate measurement of RCS
  - Calibrated weather reports
  - Next Generation Transmitter (NGTs)
  - RF Receivers
  - User workstations and displays
  - Use of 3rd party subsystems
  - Antennas (to Intersoft design), Towers, Radomes, SSR Interrogators/decoders, cooling, racks and PSU
- True 3D coverage/height extraction even with legacy antennas
- Effective proven wind farm mitigation
- Weather, Bird and Drone detection
- Protection against interference and jamming
- Operation in NGZC11 environment and in LOS of other Radars operating on the same frequency
- Advanced ECCM

**THE BENEFITS**

- Next Generation Signal Processor (NGSP)
- Vertical clutter cancellation (VCC)
- Doppler independent clutter cancellation (ground clutter and wind turbines)
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See the RADAR UPGRADES-SLEPS catalogue for more detailed information!

IE-CD-01075-001 Radar Upgrades leaflet
When a radar system reaches a certain stage in its planned life, owners are faced with the difficult and expensive challenge of maintaining operational capability. Emergent environments and changing requirements provide additional challenges such as:

- Windfarms
- Increased EM pollution from industrial, commercial and domestic sources
- Heightened demands from mobile phone service providers and other microwave spectrum users
- Increased air traffic densities

Service Life Extension Programs (SLEP) are a cost effective solution to alleviate component obsolescence, which can cause soaring maintenance and support costs and in turn can reduce the performance and reliability of an ageing radar system. A SLEP can also enhance the performance capabilities of a Radar to meet the changing environment.

Intersoft Electronics has many years of experience producing test equipment which is the background for the development of a range of Radar subsystems which are now used as the building blocks offered in Radar upgrades, Service Life Extension Programs (SLEPs) and modular Radar solutions.

- Background in land based air surveillance Radars
- Civil and military systems
- Experience at L, S, C, X frequency band Radar systems