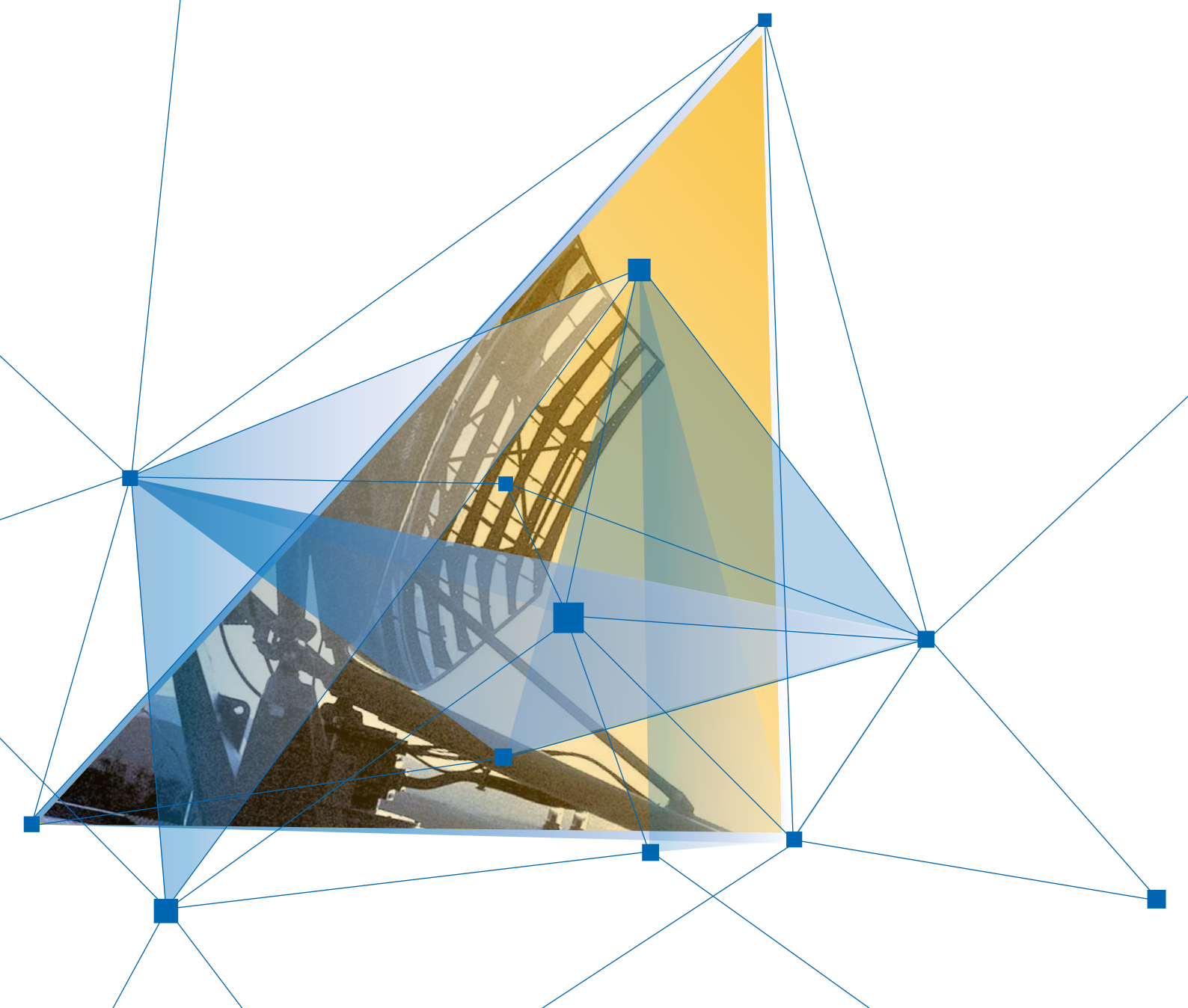




■ RADAR UPGRADES

Intersoft Electronics' System Life Extension Programmes |
SLEPS





□ Why Upgrade?

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

□ The Solution

Service Life Extension Programs (SLEP) are a cost effective solution to alleviate component obsolescence, which can create 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.

PAR-80 PRECISION APPROACH

BELGIUM

2006

2007

2008

2009



TA-10
TERMINAL APPROACH
BELGIUM

TPQ-36 FIREFINDER

THE NETHERLANDS

□ Intersoft's Upgrades

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.

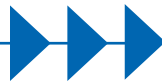
- Background in land based air surveillance Radars
- Civil and military systems
- Experience at L, S, C, X frequency band Radar systems



ASR-8
AIRPORT SURVEILLANCE

USA

2010



2015

2016

S723/743D
3D LONG RANGE

GREECE/BELGIUM



TPS-70/75
3D LONG RANGE

COLOMBIA |
SWITZERLAND

2017

2018

2019

2020

SRE-M5
ATCR
BELGIUM



TA-10
TERMINAL APPROACH
BELGIUM



S723-743D | 3D LONG RANGE | MALAYSIA - DENMARK



■ 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 Tx 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'

■ UPGRADE 'BUILDING BLOCKS'

- 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 (NGTx)
- RF Receivers
- User workstations and displays
- Use of 3rd party subsystems:
 - Antennas (to Intersoft designs), Towers, Radomes, SSR Interrogators/decoders, cooling, racks and PSU

■ THE BENEFITS

- 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 4G/LTE environment and in LOS of other Radars operating on the same frequency
- Advanced ECCM



■ GLOBAL PRESENCE



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