

PROJECT SNAPSHOT



12
PARTNERS



137
JOBS
SAFEGUARDED



£5M
PROJECT VALUE



GaNforCS

Partners:

Cardiff University, Arralis, CSA Catapult, Compound Semiconductor Centre, Filtronic, IconicRF, IQE, Leonardo, MBDA, Mesuro, Newport Wafer Fab, SPTS, TT

CSA CATAPULT ROLE

SUPPLY CHAIN DEVELOPMENT | CHARACTERISATION



GaNforCS: GaN on SiC for Connectivity and Security (SMART Expertise)

Gallium Nitride (GaN) is a compound semiconductor that is quickly becoming the technology-of-choice for many emerging applications and particularly for the microwave and mm-wave technologies needed for 5G communications systems. The objective of this project is to exploit a unique grouping of South Wales semiconductor industries and research institutions, to dramatically accelerate UK-based GaN development.

- Large Consortium: A £5.1m project, incorporating 12 partners.
- Next Gen Tech: will develop high-frequency electronic devices for 'next generation' technologies - from 5G and radar satellite systems.
- Supply Chain: working in chip design, fabrication, innovative waveform-based characterisation, testing and production.
- Higher Performance: will help researchers develop Radio-Frequency Gallium Nitride (RF-GaN) technologies to produce high-speed, cost effective, higher reliability and smaller chips that out-perform silicon.

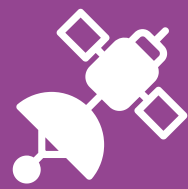
RANGE OF APPLICATION



5G



Phased-array



Space