

SIP# 327 Round 2

Title: Smart structures and materials, sonar, ultrasonics and electro optical sensing and imaging

Acronym: SST

Submitted by:

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Theme: Security and Space

Focus Area: Security and society

Type of project: R&D project, including technology demonstration (large scale)

Summary: Experience with solid state actuators, guided wave ultrasound, sonar acoustic devices, piezoelectric materials, power ultrasound, integrated imaging systems for simultaneous visible, infra red and ultra violet detection, image processing. In each area, experience in the design, modelling, development, prototyping, test and evaluation of devices and systems. Numerous applications working and sold internationally.

Expertise offered: Finite element modelling, solid state actuators, acoustic transducers, ultrasonics, piezoelectric ceramics and composites, power ultrasound, acoustic modelling, underwater sonar transducers and arrays, high frequency ultrasound, ultra violet and infra red imaging systems, assest security.

Previous FP involvement: None

Consortium status: Looking to locate a suitable consortium

Expertise sought: Not applicable at this stage

Related projects: South African national R&D programmes