

Over the last 10 years there has been a growth in nanotechnology that can be applied to defence and security applications. A good example of this is in the field of energetic materials where nano scaled materials have been investigated for many years, their large surface area and enhanced reactivity offering the formulator new ways to address performance issues, whilst opening up the new applications and effects.

Similarly, and in parallel with the general move to the use of commercial off the shelf equipment (COTS) where relevant in these areas, the growth of printed electronics also offers some new

opportunities for the development of new and enhanced applications.

Based on conventional print technologies, but with the use of nanomaterials to offer new capabilities, these structures and devices offer the potential to create new cost effective sensors and detectors and can enhance weapon and platform effectiveness, based on a cost effective and green production method. Much work still needs to be done, however this paper will examine some of the options and approaches that can be considered.