

‘Defence and First-responder Markets’

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Intelligent Textiles Limited is a UK company that develops woven fabrics that also function as various types of electrical component- for instance keypads, heaters, sensors and wiring looms.

This presentation will describe some of the applications these fabrics are finding within the defence and related sectors, where the demand to integrate cutting-edge electronic systems is at odds with the harshest of environments and human factors requirements.

After an update on the company and its electrical textile technologies, the latter will be illustrated with a number of products and projects from the defence marketplace, including:

- HMIs (human-machine interfaces) for soldiers and first responders;
- ballistic instrumentation;
- wearable heating;
- power and data distribution for soldier systems.

These examples will serve as a platform from which to explore the wider issues that confront the developers, fabricators and professional users of wearable technologies.