

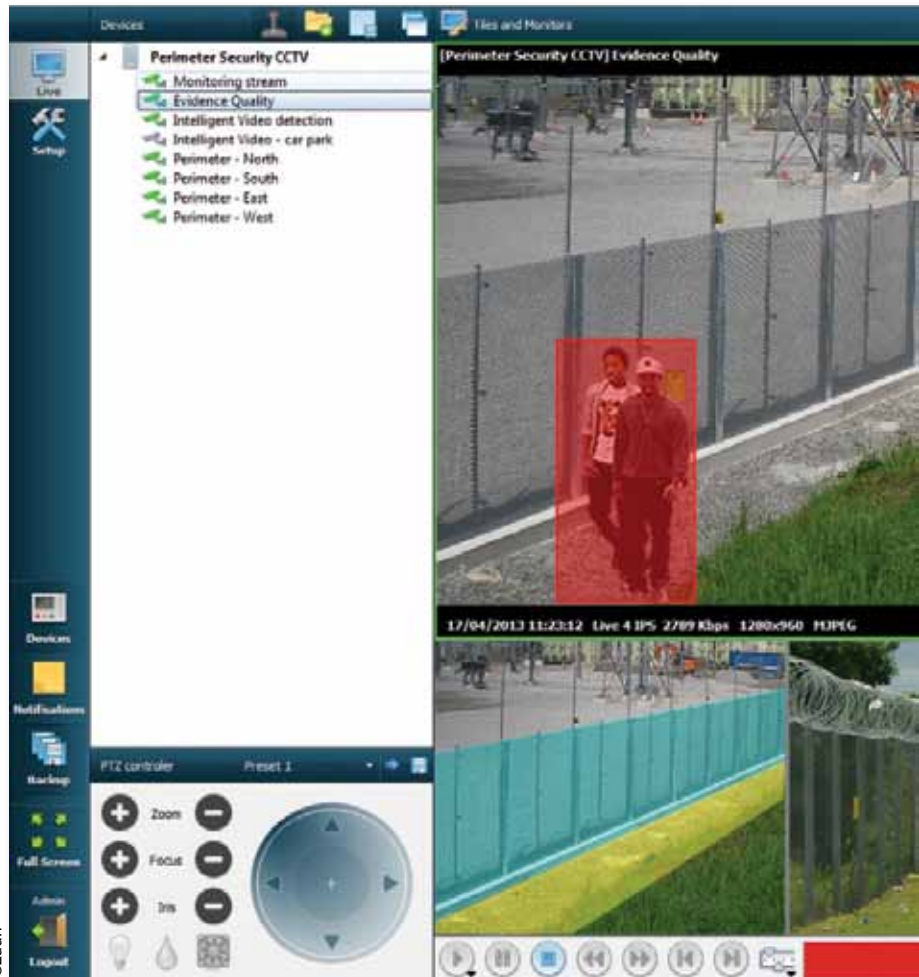
Paul Painter calls on the security industry to get really creative, even in the face of budget constraints, in order to mitigate ever-evolving security risks

INNOVATE OR

Question: What's the similarity between a school, a gas pipeline, the Olympics and the G8 summit? Answer: They all carry security risks that the likes of you and me have to try to foresee in an uncertain world. And that's a mighty difficult task when you consider the total unpredictability and randomness of attacks on school kids as far afield as Beslan, Columbine High School, Dunblane and Utøya in Norway. Add to that the publicity-hungry ingenuity of international terrorists and it becomes apparent that the security industry has to be as creative and innovative as possible to mitigate the risks.

Whether securing schools, sports stadia or sites of critical national infrastructure on a permanent or temporary basis, specifiers are looking for effective solutions to ensure sites are protected against the potential security risks of a site. More than ever, these potential risks are being considered and reviewed by professionals; the difficulty, as we all know from our professional lives, is effectively anticipating this risk. I think that is why working within the security industry is so enjoyable for me personally, and why I feel innovating is key to ensuring growth for businesses.

Each of the security challenges I mentioned earlier throws up varied circumstances and threats that require wholly specific solutions to mitigate risks. And that's before one



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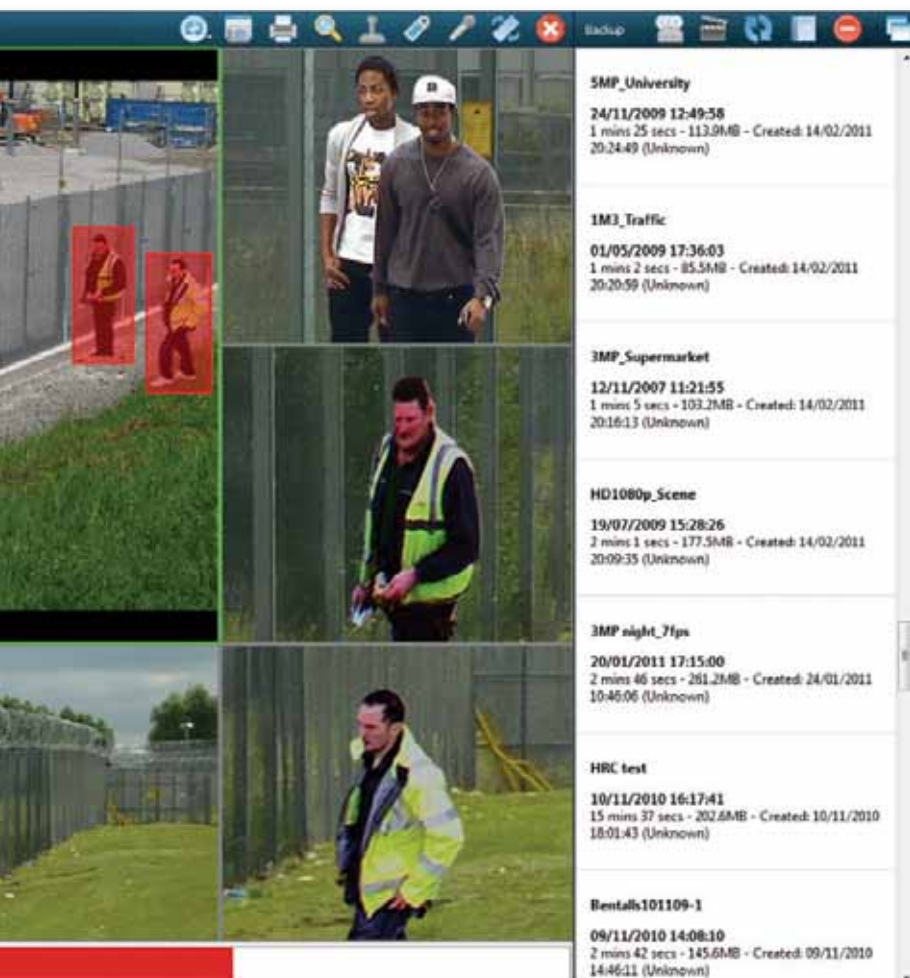
factors in the ever-evolving threat level, the politics of the moment and the attitude to financial investment at a time of an ongoing squeeze in public spending.

Against this backdrop, the providers of security products, systems, services, software and people that protect the public, their leaders, vital services and businesses must ensure they remain up-to-date and are effectively designed to provide appropriate solutions. If you consider again the potential threats to a business you can, in the main, make informed decisions to mitigate these risks. But when security companies try to innovate and design advanced systems that anticipate future risks, it becomes increasingly difficult to achieve this. The requirement for businesses to address immediate threats is much more apparent than considering what security risks may emerge in a year or two's time.

All of this is argument enough for the need to innovate – and that's even before considering the proven ingenuity and ability to surprise and shock shown by terrorists and protesters alike, and even psychopaths like Anders Breivik, the perpetrator of

Without innovation and co-operation within the security industry, our ability to detect and mitigate threats will be greatly diminished

R CAPITULATE



the 2011 Norway attacks. Intelligence agencies never sleep and constantly monitor, so why should the manufacturers of physical security and cybersecurity think they can stop creating new solutions? What we don't want is to have to experience another massive tragedy or security threat to catalyse the creativity. I certainly don't think we have become complacent, but are we innovating enough?

A cautious attitude to investment has spread in the past five years, partly due to a pragmatic approach in a time of economic stagnation, but also reinforced by a fairly recent phenomenon, perhaps Lottery-driven, of people genuinely believing it is possible to get rich quick without risk. In the past it has sometime taken the ultimate threat of a world war to dismantle such risk-aversion. After all, many step-change innovations, such as the Internet, have stemmed from the military in a time of war or when national security was under threat – as governments and corporations will only commit effectively unlimited budgets and attention in such dire circumstances.

But I'm glad to witness that the global security

community has not sat idly by waiting for such a crude wake-up call. Through careful strategic planning and effective use of resources to address real life issues and perceived risks, innovation is still being seen. And, perhaps as one of the positives that has stemmed from the world recession, it no longer needs to be as capital-intensive as it has historically proven to be.

Rapid advances in modelling and simulation techniques enable us to gather useful insights about product performance in real life without actually having to build and develop the innovation. Rapid prototyping has also taken a giant stride further forward with the advent of three-dimensional printing, so we can now quickly make a scale model of a physical part or assembly directly from 3D computer-aided designs. Similar progress in computer modelling, simulators, emulators, and stimulators, either statically or over time, has massively enhanced our ability to develop data cost-effectively as a basis for making managerial or technical decisions.

Other creative approaches exist to ensure innovation continues apace in the security industry. Collaboration on research and development, manufacturing capability and the investment in plant and machinery it requires will enable each partner organisation to cut its costs, reduce product inventories and benefit from complementary resources and technology transfer it could not otherwise afford by operating in isolation.

Programmes do exist to support and part fund innovation too. In the UK, for instance, a government initiative called Growth Accelerator entitles organisations looking to grow through innovation to access coaching, know-how, an intellectual property audit, innovation masterclasses and match funding for leadership and management training. Similar programmes exist from UK Trade & Industry to support exporters and the Manufacturing Advisory Service to help manufacturers shape their business strategy, create new products, reduce waste and review supply chains.

What is certain, however – in the political jargon of the era – is that we need a "coalition of the willing" of informed and skilled professionals in the security firmament, including commercial enterprises, governments, security forces and academia, to proactively mitigate the very evident and common risks we face with whatever our collective creativity can conjure. While there has been supposed "world peace" for almost 70 years now, this age will surely be remembered as one of "global terror", where both the physical and cyber threat to our very existence became real and ever present. We owe it to ourselves and the generations to come to conceive new ways to protect our citizens. Anything less amounts to capitulation.



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CASE STUDY: intelligent cameras for party conference perimeters

A quick-install, high-security PAS68 perimeter fencing system that has already won police accolades and industry awards for innovation has been further enhanced for this autumn's party conference season. Zaun has incorporated the latest Video Content Analysis (VCA) system using high-performance pan, tilt and zoom (PTZ) cameras into its Rapid Deployable System (RDS) that captured the Security Innovation Award 2013 and was a double award winner at the Counter Terror Expo Excellence Awards, including being named the Best Physical Security Innovation.

RDS saved up to 90 per cent of police time and proved its rapid-install-with-high-security credentials during a whistle-stop tour from Brighton to Birmingham via Manchester for the three main political parties' autumn conferences in 2012 and at the G8 summit in Northern Ireland in May. After the Labour party conference, Inspector Steve Worth, Specialist Operations Branch, Conference Planning Unit, Greater Manchester Police, said: "RDS is now firmly the preferred product for the delivery of security operations for party political conferences we police, fully supported by The Home Office."

RDS will again be used at the current Labour party conference in Brighton and when the Conservative party hits Manchester at the end of this month. This year, a fully integrated perimeter and intelligent CCTV system will be deployed. Zaun has teamed up with video intelligence experts EyelynX to integrate their all-in-one rapid deployment Pharos system onto its RDS.

Pharos is the only true rapid deployment high definition (HD) surveillance system on the market, with Edge Recording Cluster (ERC) capability to

incorporate an intelligent recorder, management software and wireless communications all in the same unit. It uses the SharpView VCA recording engine, which can accommodate multiple slave PTZ cameras of any make connected in to the master. Indeed, the number of "slaves" is limited only by power and bandwidth requirements.

Cameras record HD video 24/7, and whenever the perimeter is compromised or a potential intruder approaches too close to the fence Pharos will send a snapshot alert to the control centre for visual verification – or even to assigned personal mobile devices, such as the police chief or nearest constable to the breach.

Zaun and EyelynX have developed a technique for embedding the cabling into the fence posts and have created an integrated power cabinet in the post base to enable quick and easy on-site deployment without the need for heavy machinery. Only the master unit needs a SIM card, which beams the video intelligence to a workstation, into which anyone authorised can dial and view live footage, or rewind and replay from any of the cameras. This new innovation will be used at the party conferences as an add-on to existing security arrangements to help better cover specific strategic positions on the perimeter.

Zaun co-founder and director Paul Painter said: "RDS was already unique in providing hostile vehicle mitigation up to 30mph in a rapidly-deployed temporary fencing solution with no below ground foundations. But we haven't rested on our laurels. This integration of advanced electronics and top end CCTV also designed for rapid deployment lifts temporary high security perimeter protection to new heights."

The innovative RDS incorporating video content analysis provides high-security perimeter protection

Paul Painter is a director and co-founder of Zaun Limited, a British manufacturer of high security perimeter protection systems with regional offices in France and Dubai, and a founding member and director of the Perimeter Security Suppliers' Association (PSSA).