



AN INTRODUCTION TO CENNOX

A Leading Provider of Banking & Security Solutions



WELCOME TO CENNOX

COMMITTED TO SUPPORTING CUSTOMERS ACROSS EUROPE

" The Cennox story is unique in the industry. Our mission to build a customer model to support the operational needs of our customers, has resulted in the world's largest banks using Cennox to deliver their critical services.

Cennox is a global brand in banking services, with major operations in Europe, the UK and US. Working with the world's largest banks, Cennox can provide a full portfolio of products and services aimed at supporting our customers through the use of our own staff, facilities and enviable in-house capabilities.

With hundreds of customers across Europe, our European Headquarters in Brussels, supports teams across the continent to deliver mission critical services. Closely supported by our Group Headquarters in the United Kingdom, Cennox Europe looks forward to working with customers across this exciting region.

SIGNAGE SOLUTIONS

Our in-house teams can support you with your ATM signage requirements, from the design stages, through to their manufacture and managed installation.

SECURITY SOLUTIONS

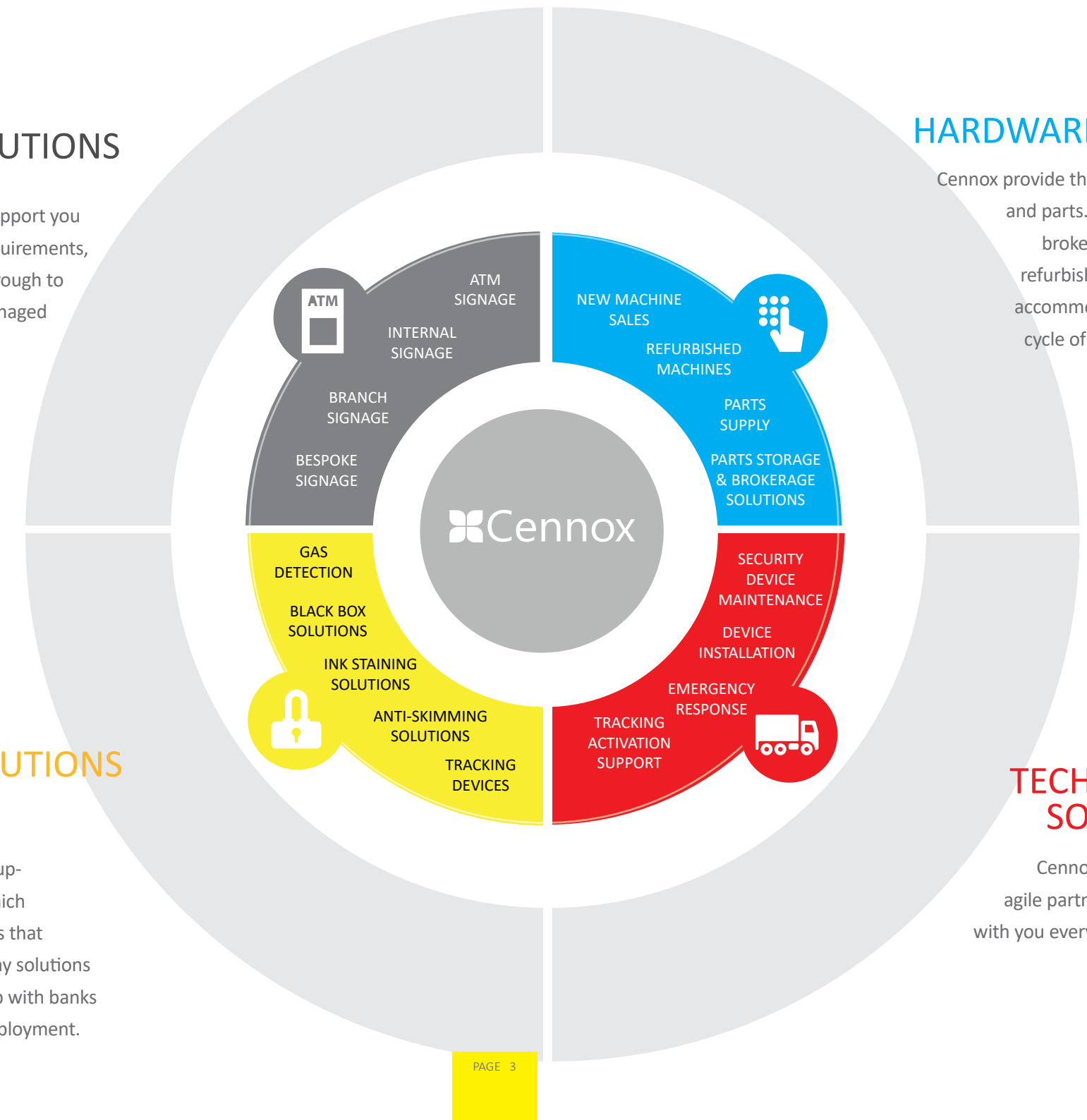
Cennox supports our customers with the latest, up-to-the-minute solutions which address the security threats that exist. We manufacture many solutions in-house and in partnership with banks from design, through to deployment.

HARDWARE SUPPLY

Cennox provide the latest hardware and parts. We also provide, brokerage, storage and refurbishment services to accommodate the full life-cycle of your ATM estate.

TECHNOLOGY SOLUTIONS

Cennox is a flexible and agile partner who can work with you every step of the way.





ACTIVE IN THE HEART OF EUROPE

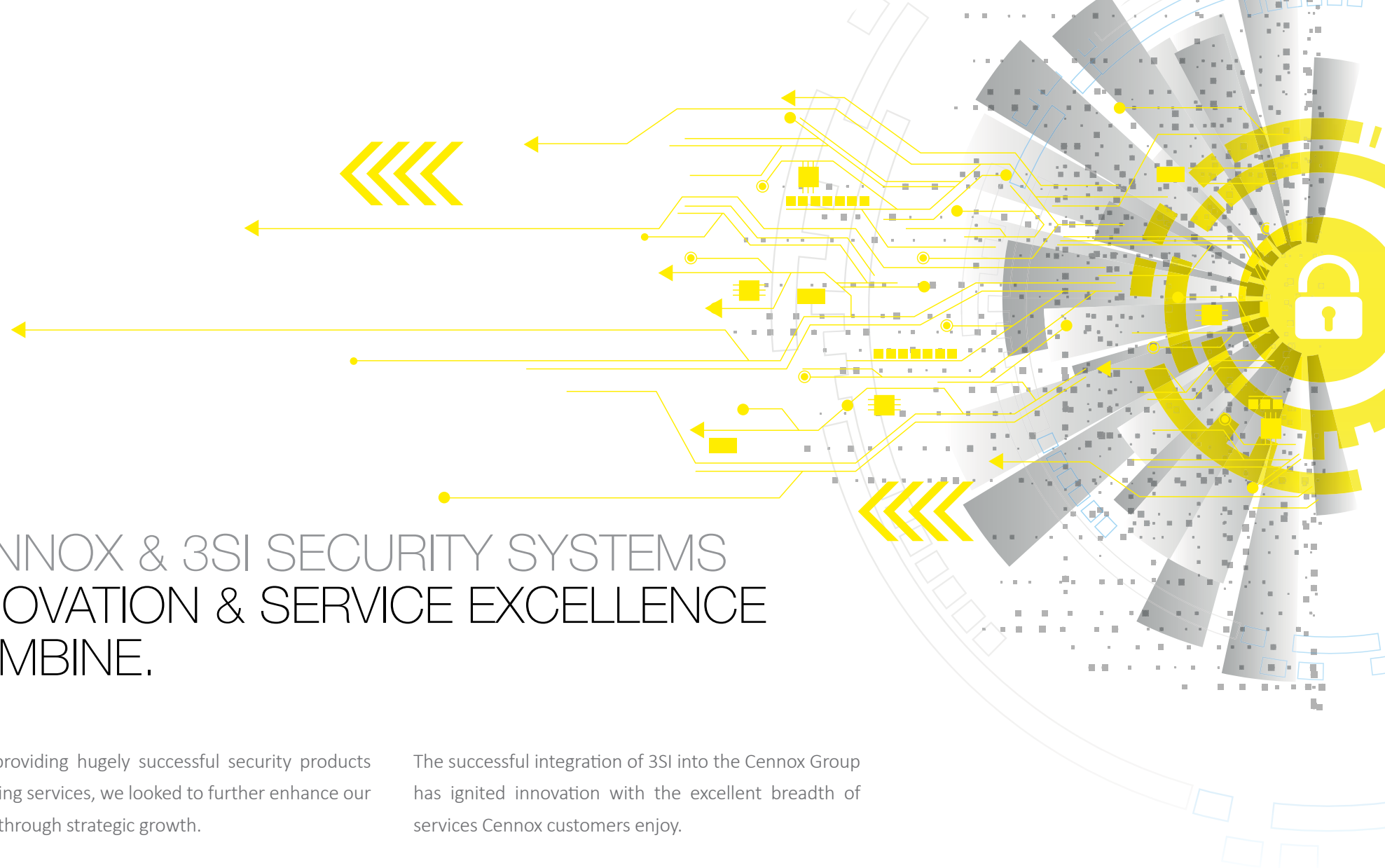
CENNOX & 3SI SECURITY SYSTEMS INNOVATION & SERVICE EXCELLENCE COMBINE.

Already providing hugely successful security products and banking services, we looked to further enhance our portfolio through strategic growth.

In 2017, Cennox acquired 3SI Security Systems' European division. This crucial acquisition added the innovation of the 3SI product range and experienced staff, as well as their infrastructure and field teams.

The successful integration of 3SI into the Cennox Group has ignited innovation with the excellent breadth of services Cennox customers enjoy.

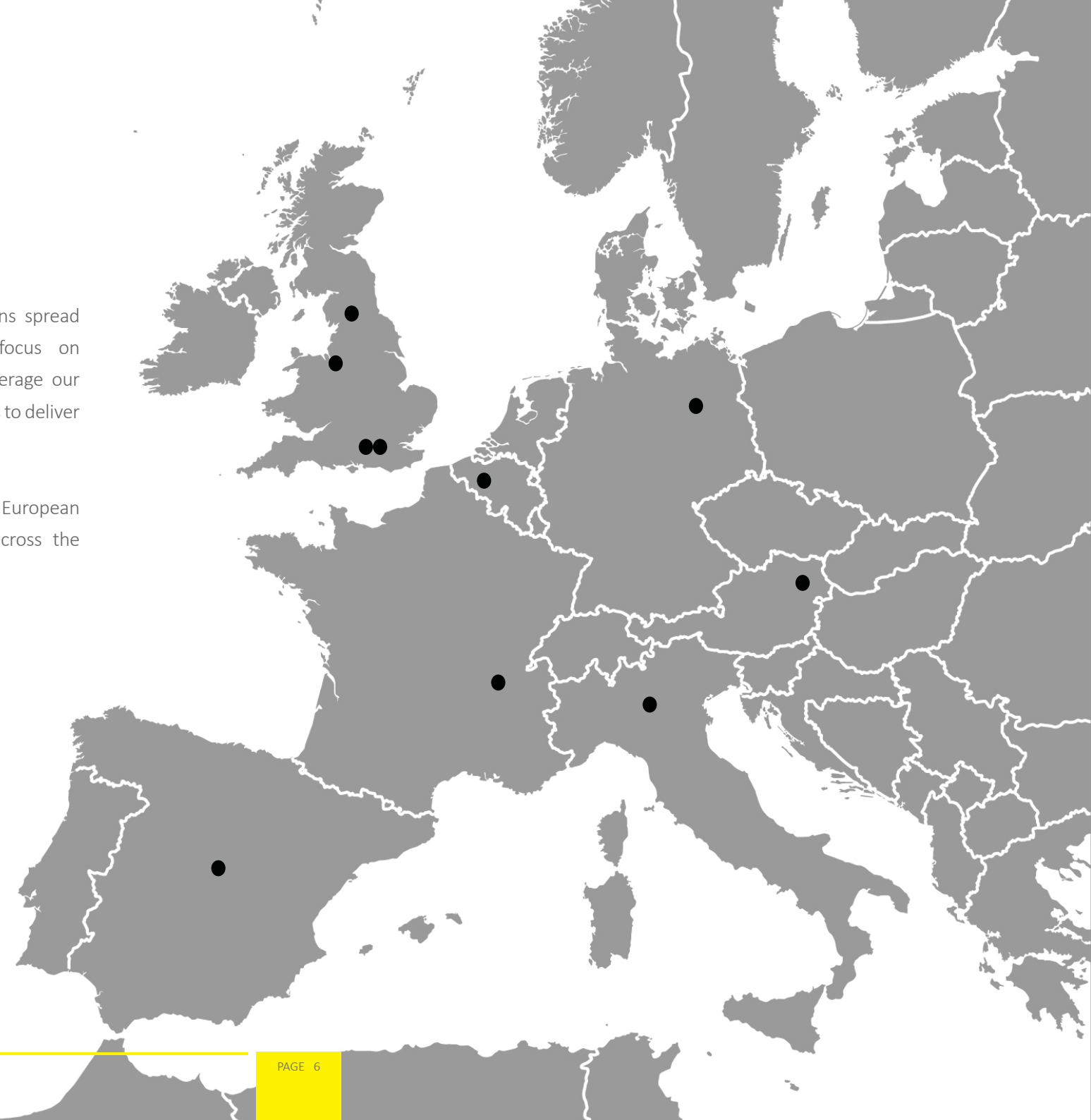
Together as one, Cennox in Europe is able to provide our customers across the region with a well supported portfolio of products, services and industry expertise.



OFFICES

Cennox is an industry pioneer with operations spread across Europe. Through an unmatched focus on strengthening customer relationships, we leverage our deep portfolio of customised in-house solutions to deliver unique, personalised services to every client.

With hundreds of customers across Europe, our European Headquarters in Brussels, supports teams across the continent to deliver their critical services.



CENNOX SUPPORTING YOUR CUSTOMERS

Positioned in the heart of Europe, our strategically placed teams service our customers across the region and beyond.

Our customers in Europe benefit from a network of skilled Cennox engineers who can respond your service needs and protect and support the needs of your customers.

We provide a product and service portfolio which includes security, machine & parts provision, as well as signage solutions. Cennox customers benefit from our experienced teams, supported by a global organisation with access to the best industry skills, infrastructure and hardware available.





SECURITY

AN INTRODUCTION TO OUR SECURITY SOLUTIONS

Cennox provide a number of ground breaking security solutions designed specifically for the banking, retail and commercial sectors. Our in-house Research & Development team delivers an on-going fight against the various threats our customers face. In addition, our acquisition of 3SI Security Systems' European Division, has added some fantastic products to our impressive portfolio.

SOLUTIONS THAT WORK

Around the world, the products that Cennox supply are delivering real results. From ATM machines protected against skimming or the threat of gas attacks, to the destruction of bank notes due to criminal activity, Cennox is working in partnership with our customers and achieving excellent results.

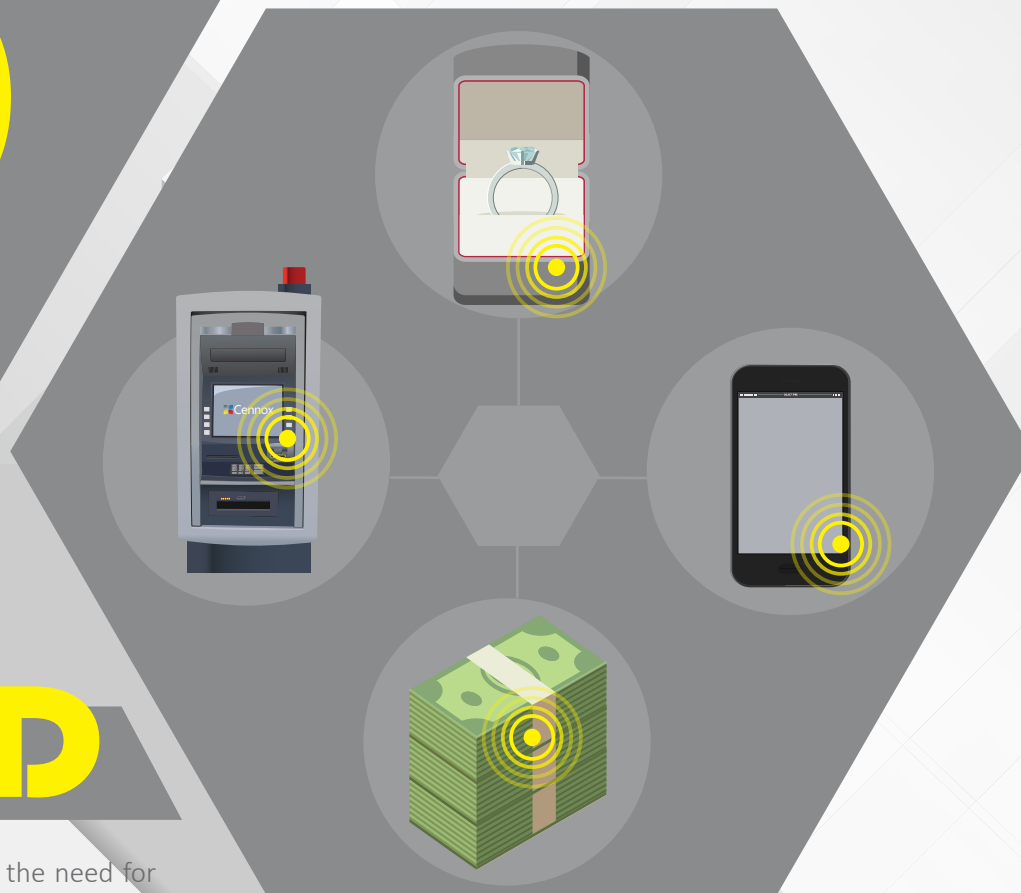
Our solutions secure successful arrests and convictions, with numerous case studies of criminals being apprehended through the use of our incredible tracking products and the stolen goods recovered.

CENNOX 4D

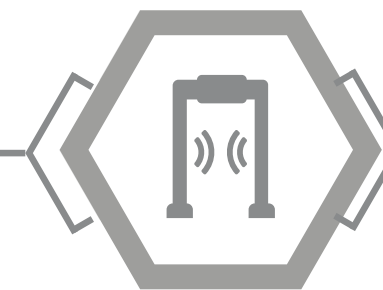
A NEW SECURITY PHILOSOPHY

CENNOX4D

As crime continually evolves, Cennox is driving the need for a more 'intelligence based' approach to security. Our Cennox **4D Philosophy** encompasses an end-to-end attitude to the protection of assets and apprehension of criminals.



4D is our philosophy of delivering the ultimate in asset and infrastructure protection. **Detect > Deter > Deny > Detain**

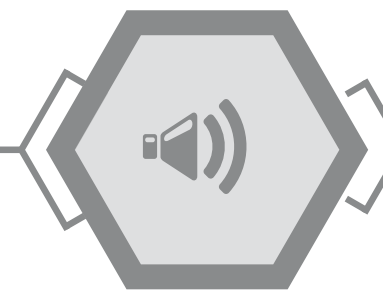


DETECT

Cennox security products sense the attack and can raise the alert.

INSTRUMENT

- Shutter sensors
- Point of entry
- Accelerometer
- Thermal shock
- Seismic
- Video analytics

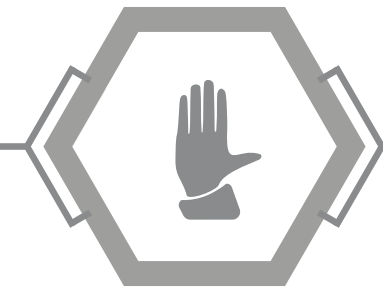


DETER

Our devices can be activated to disrupt the criminal in the act.

COMMUNICATE

- Smoke/tear gas
- High penetration audio
- Visible labels
- Cloud integration
- Siren/disorientation
- Management Centre



DENY

If the attack continues, our devices are designed to spoil the prize.

ACTION

- Gas neutralization
- Ink deployment
- Glue deployment
- Remote fire options
- Activate GPS



DETAIN

Cennox has numerous devices that will aid in the apprehension of the criminal to secure a conviction.

RECOVERY

- Tracking devices initiated
- Law enforcement deployed
- DNA tagging

PROTECTION AGAINST BLACK BOX ATTACKS

" This new threat is sending chills down the spines of many Banks & ATM owners. Criminals have, in effect, found the way to quickly empty an ATM Machine.

ATM owners are experiencing a growing threat, BLACK BOX Attacks. This bold activity has seen a sharp increase across Europe and is expected to accelerate.

This type of attack involves criminals gaining access to the inside of the ATM by cutting small holes into the fascia. Once inside, the criminals disconnect the Cash Dispenser and join it to their 'Black Box'. This electronic box sends commands to the ATM, forcing it to start dispensing money without any need for a card to be inserted or for the ATM to source authorisation.

The Cennox R&D team was quick to respond to the alarm being raised by clients. From the moment we heard of this type of attack, Cennox embarked on pioneering a product to protect ATMs from this type of 'Black Box' activity. The Cennox **Top Box Solution** is our response.

TOP BOX | LIGHT

Cennox have several active solutions that protect ATMs against Black Box attacks. Our **LIGHT** option delivers immediate 'Detect & Protect' cover the moment an attack starts.

TOP BOX | LIGHT includes a protective plating system that sits within the fascia panel. This solution provides two layers of protection:

Firstly, the plate helps to stop individuals from drilling through and accessing the inside of the ATM. Secondly, Cennox deploy penetration mats to detect the first sign of a potential breach.

As soon as it identifies the ATM is being attacked in this way, the unit cuts the power supply to the dispenser, preventing notes from being dispensed.

TOP BOX | COMPLETE

TOP BOX | COMPLETE is an advanced intelligent management package. Designed to identify the attack taking place, the **COMPLETE** package also determines the right response required, by communicating the threat through a central control unit.

This advanced system not only includes the plating and penetration mats as used in the **LIGHT** version, **COMPLETE** also has options to :-

- Activate audible alarms or strobes.
- Send an alarm through the alarm panel.
- Deploy bank note staining products.
- Activate ATM smoke deterrents.
- Activate an ATM tracking device.
- Power down the ATM to prevent malware, skimming or jack-potting attacks to commence.

ANTI-SKIMMING DETECTION & PROTECTION ASD-8

The ASD-8 is at the cutting edge of ATM protection offering the latest in fraud prevention technologies; from card trapping through to card skimming.

We recognise the level of gain for the criminal fraternity is high and they will be using significant resources available to them to try and beat bank defences. It is for this reason the Cennox Research and Development team dedicated so much energy and enthusiasm into creating a product which can deliver immediate results the moment the device is installed.

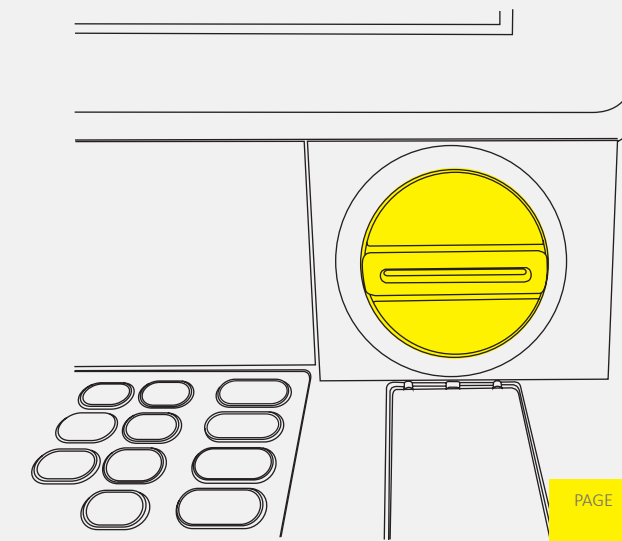
USING EVOLUTIONARY TECHNOLOGY

The ASD-8 can detect fascia tampering, 'Lebanese Loops', card traps and drilling devices.

The ASD-8 has the ability to automatically place the ATM into 'Supervisor Mode' once the attack has been confirmed. The machine is released back into service once the threat has been removed.

The ASD-8 can also notify the customer of the attack so that they may take whatever action they feel necessary before bringing the ATM back into service.

The ASD-8 is designed to be upgradable in the field at a fraction of the cost of replacing the entire unit, making it attractive when compared to similar devices.



The ASD-8 provides proactive threat detection to counter fraud and customer data theft for both motorised & dip card readers. The device provides several layers of protection:

- > Quad Coil Jamming Technology
- > Overlay Proximity Detection
- > Card Entrapment Sensors
- > Fascia Penetration

The Cennox ASD-8 benefits from the latest evolution in signal jamming, providing the most effective solution in the industry. The Quad Core enhanced jamming technology feature allows for a greater range in signal frequency, switched in a more effective pseudo random sequence.

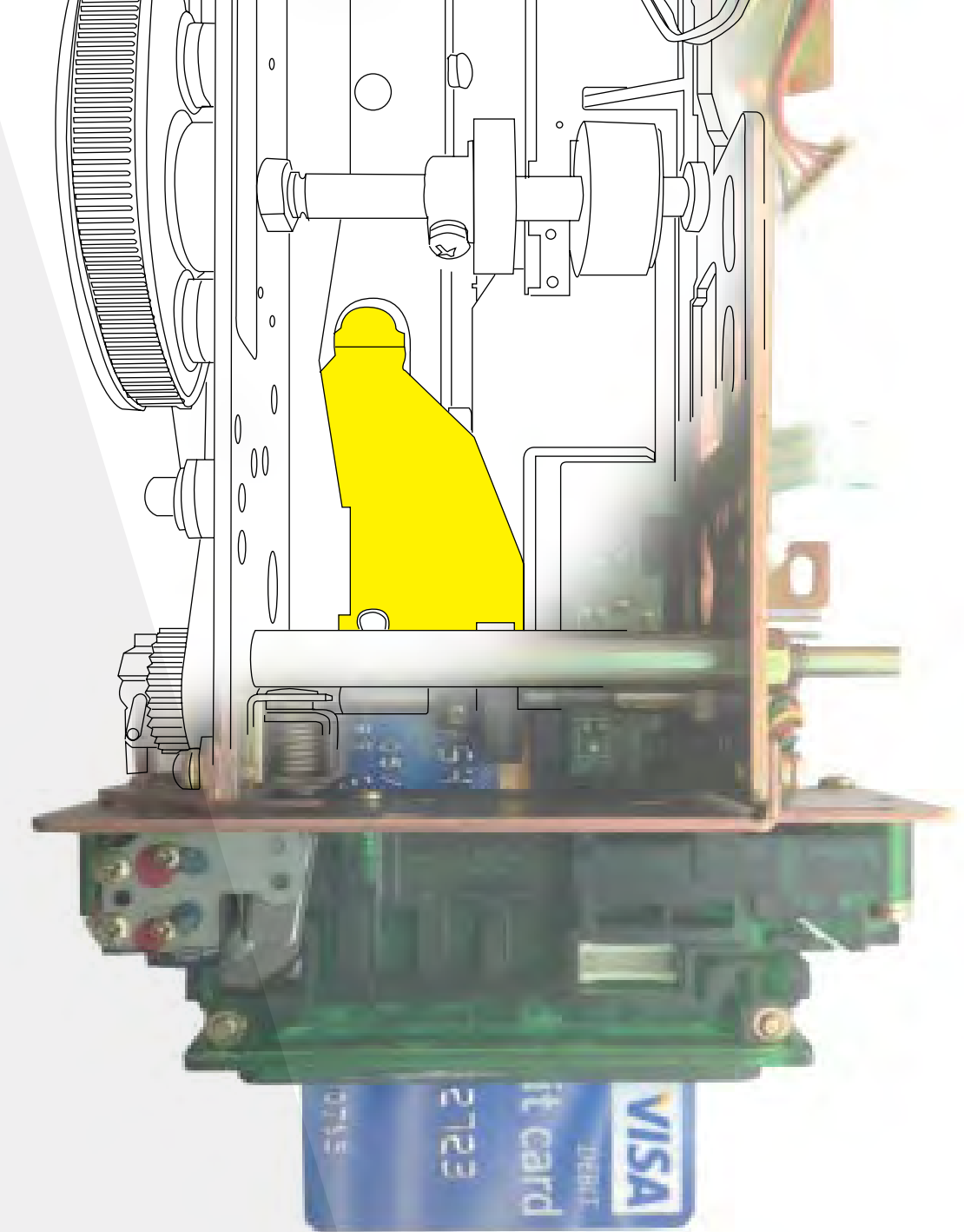
PROTECTION AGAINST DEEP INSERT SKIMMING THE SENTINEL

The ASD-SENTINEL is an easy to install and effective multi-vendor solution providing immediate protection against deep insert skimmers.

The specially designed insert provides the immediate physical protection against the growing menace of razor thin skimmers. The ASD-SENTINEL, an internal anti-skimming solution, is installed within the card reader, providing a continuous and cost effective solution.



Able to be quickly installed in the field, the ASD-SENTINEL requires no changes to your ATM's hardware or integration into the software. The impact is immediate and the protection against razor skimmers being illegally installed on your ATM is assured.





KEY ADVANTAGES

- The device automatically stains the cash when the machine is attacked.
- Our product provides protection against ram-raids and grinding attacks.
- The technology is integrated into the lid or body of the cassette and is invisible to both customers and criminals.
- The system can be linked to an existing alarm, the cash dispenser and the safes electronic lock, to provide a multi-layered security solution.
- The cassettes are easily identified by industry acknowledged and visible labelling.
- State-of-the-art inks with markers guarantee optimal staining performance and traceability.

CUSTOMER ADVANTAGES

- Compatible with popular electronic locks and automatically arms and disarms the cash cassettes, removing the need to manage physical keys or remote controls.
- Clear visual and audible signals are easy for staff to operate during normal daily use.
- Simple integration by customers, either as a pre-assembled solution or as an easy to configure kit of parts.
- Cassettes are configured to allow extensive connectivity with the machine and external alarm systems. Flexible architecture provides for future-proof add-ons of emerging anti-fraud sensing technology.

BANK NOTE DESTRUCTION INK STAINING SOLUTIONS

The protection of bank notes during their handling and movement continues to be an attractive target for criminals. Developing an effective deterrent and visible reaction to mark the notes, has resulted in ink dye becoming the chosen solution for many financial organisations.

The financial advantages of our ink solutions include fully modular components which easily and quickly snap-fit into all major types of machine cassettes. This significantly reduces the total cost of ownership compared to traditional ink staining products.

In addition, using pre-assembled cassette lids or an easy to configure kit of parts, reduces maintenance cost significantly, savings we pass on to our customers.

PINPOINT ACCURACY WITH OUR TRACKING DEVICES



DETECT



DETER



DENY



DETAIN

Cennox provides a number of security products specifically for the Banking & Retail Industry, with tracking solutions ranked as one of the most popular.

Designed to provide an immediate response to in-store theft, the tracking device delivers a real opportunity for the recovery of the stolen items and apprehension of the criminal.

With many 'Ready to Deploy' solutions, Cennox can quickly provide devices within 'at-risk' environments. Secreted within the product or packaging of items like tobacco packs, mobile phones, pharmaceuticals and jewellery, these effective devices immediately notify local law enforcement teams the instant a theft occurs. The immediacy of the tracking device gives the police time to initiate the ESP system (Electronic Satellite Pursuit) and track the offenders to within metres.





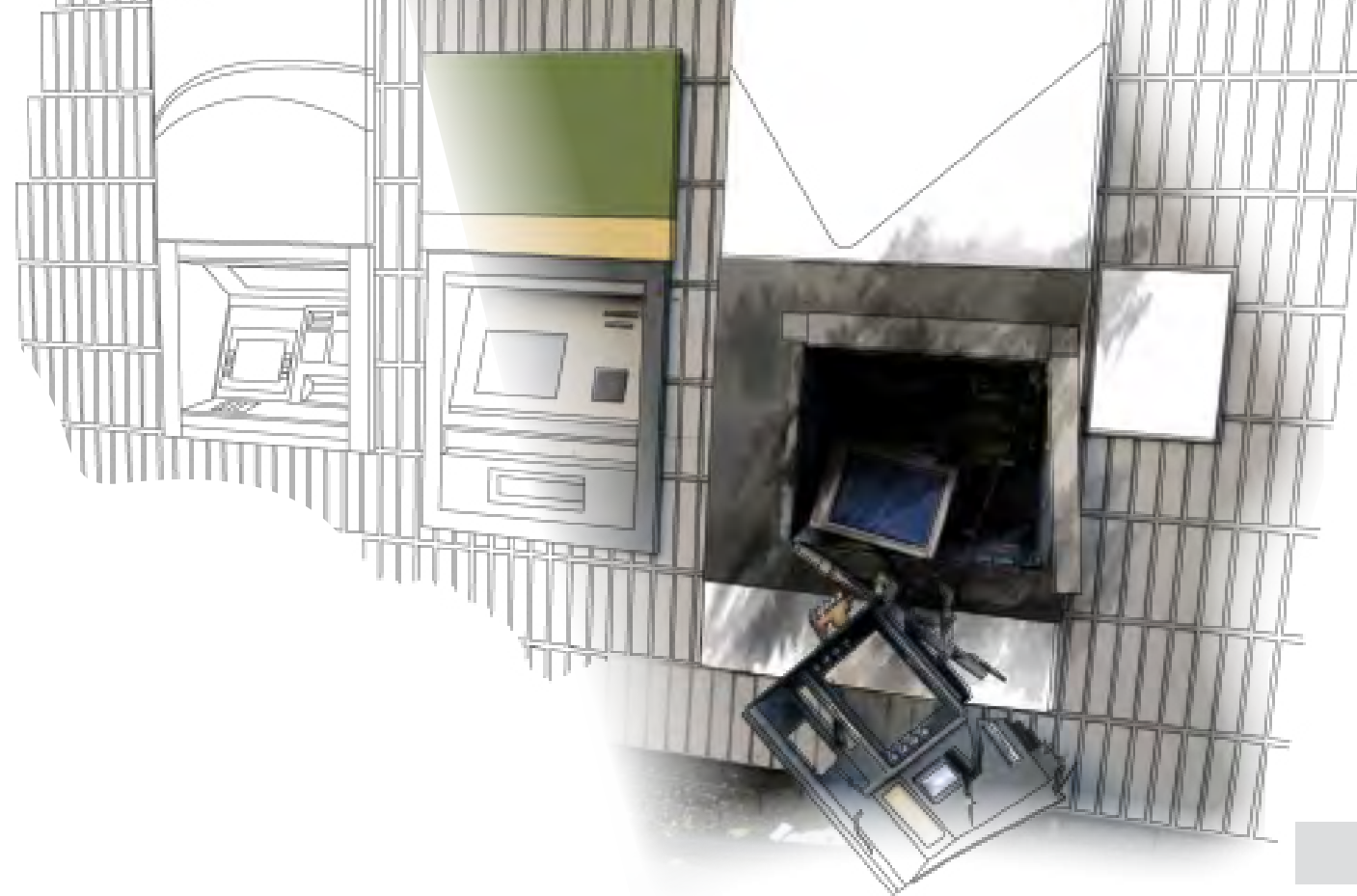
THE PERFECT VISIBLE DETERRENT SMOKE SOLUTIONS

// *Smoke products have been deterring criminals for many years. Companies that rely on an effective and immediate protection for cash will turn to these products for peace of mind.*

Our Security Smoke device has been specially developed to provide a low-cost protection solution for any safe in an intelligent way. It's an autonomous and fully automatic protection device that monitors and analyses the safe's security status. If an attack occurs, the Security Smoke Device will release a thick cloud of red smoke that acts as a deterrent to stop the attack.

OPERATIONAL ADVANTAGES

- The device works independently of normal operations
- The system is compact and easy to install.
- Requires minimal maintenance
- Optional tear gas and DNA available



EFFECTIVE PROTECTION GAS DETECTION SYSTEMS

The practice of criminal gangs using explosive devices has been reported across the world for many years, with spectacular video footage being circulated through various news channels.

The sudden increase in this specific type of Gas Attack, is a worrying development for banks and independent ATM deployers.

The act of destroying the ATM for criminal reward is not the major concern for many organisations. The potential harm to staff, customers and the innocent passer-by, partnered with the huge cost of reconstruction work to make the buildings and surrounding areas safe, adds real weight to the dangers these attacks cause.

IF AN ATTACK OCCURS

- AGN will detect the injected gas
- The moment the critical gas level has been reached, AGN will neutralize the injected gas
- AGN can be linked to an alarm centre
- As an option, AGN can be provided with a siren (125Db) to scare off the criminals
- Ink staining of the cash in case of ATM tilting is also available as an option

SAFETY ADVANTAGES

- AGN is a preventive and fully autonomous gas neutralisation system
- AGN makes it possible to neutralize hydro-carbon gasses
- AGN can optionally be connected to a 3rd party alerting system (wired alarm)
- AGN is completely integrated in the ATM making it invisible to customers and criminals. External housing is available as an option.
- The response of the gas control system is programmable to meet different applications and needs.
- Acoustic warning by means of a siren is available as an option.
- Ink staining of the notes in the ATM cassettes is available as an option
- Warning labels to inform the robbers about the presence of an anti-gas system are available as an option
- In case of gas attacks, AGN avoids explosions that might bring damage to buildings, ATM housing and injure people
- AGN increases the safety of the employees and customers
- AGN assures a safe environment for the intervention teams and pedestrians
- AGN's gas chemically reacts with the injected gas to neutralize the threat. It doesn't push away the injected gas to another area, which might be even more dangerous.



MACHINES & PARTS

THE CENNOX APPROACH TO SUPPLYING
CUSTOMERS WITH COST EFFECTIVE AND
QUALITY MACHINES & PARTS.

A MULTI-VENDOR PROVIDER OF MACHINES AND PARTS

A recognised multi-vendor supplier of machines, Cennox can source new and used machines specific to our customer's needs.

With unique buying power and logistical centres spread around the world, Cennox is able to react to our customers change of requirements and secure the machines and parts they need, from where ever we need to locate them.



FACILITIES & CAPABILITIES

Our European Headquarters in Brussels, provides the perfect forward stocking location and distribution platform to service our customers in the region.

These facilities are staffed by experienced personnel who are trained across models and supported by our extensive engineering and parts facilities close-by in the UK.



REPAIR & REFURBISHMENT

Our ATM Refurbishment teams complete hundreds of projects each month. With each ATM arriving often damaged, dirty, and frequently faulty, each machine undertakes a journey through a production line process which ultimately sees them reach the end of the programme looking as if they were straight out of the manufacturer's showroom.

COST EFFECTIVE ALTERNATIVE TO BUYING NEW

Our Refurbishment Programs provide our customers with very attractive cost alternatives to their purchasing strategy, together with new warranties supplied on all machines leaving our facilities.

- Lower fixed priced plans available
- New warranties provided on completion
- More cost effective than buying new

Our Parts repair service can also deliver real value for our customers. Returning damaged parts back to market, repaired, quality tested and complete with new warranties. This provides a low cost alternative to buying new and maintaining a healthy stock inventory.

STORAGE & BROKERAGE

Our storage solutions save our customers money and improve their operational efficiencies. Our facility locations are strategically positioned to provide our engineers with immediate access to our clients' machines, should they need quick refurbishment or staging prior to sending out to the field.

REVENUE GENERATING BROKERAGE SOLUTIONS

Cennox can provide our customers with a unique Brokerage Program. With the costly problem of what to do with older legacy machines, Cennox can take these and store them whilst looking to harvest their saleable parts for the open market.

With no capital expenditures needed from our clients, once the brokerage is complete, we share the net profits 50/50 at no risk to you and with no surprise fees

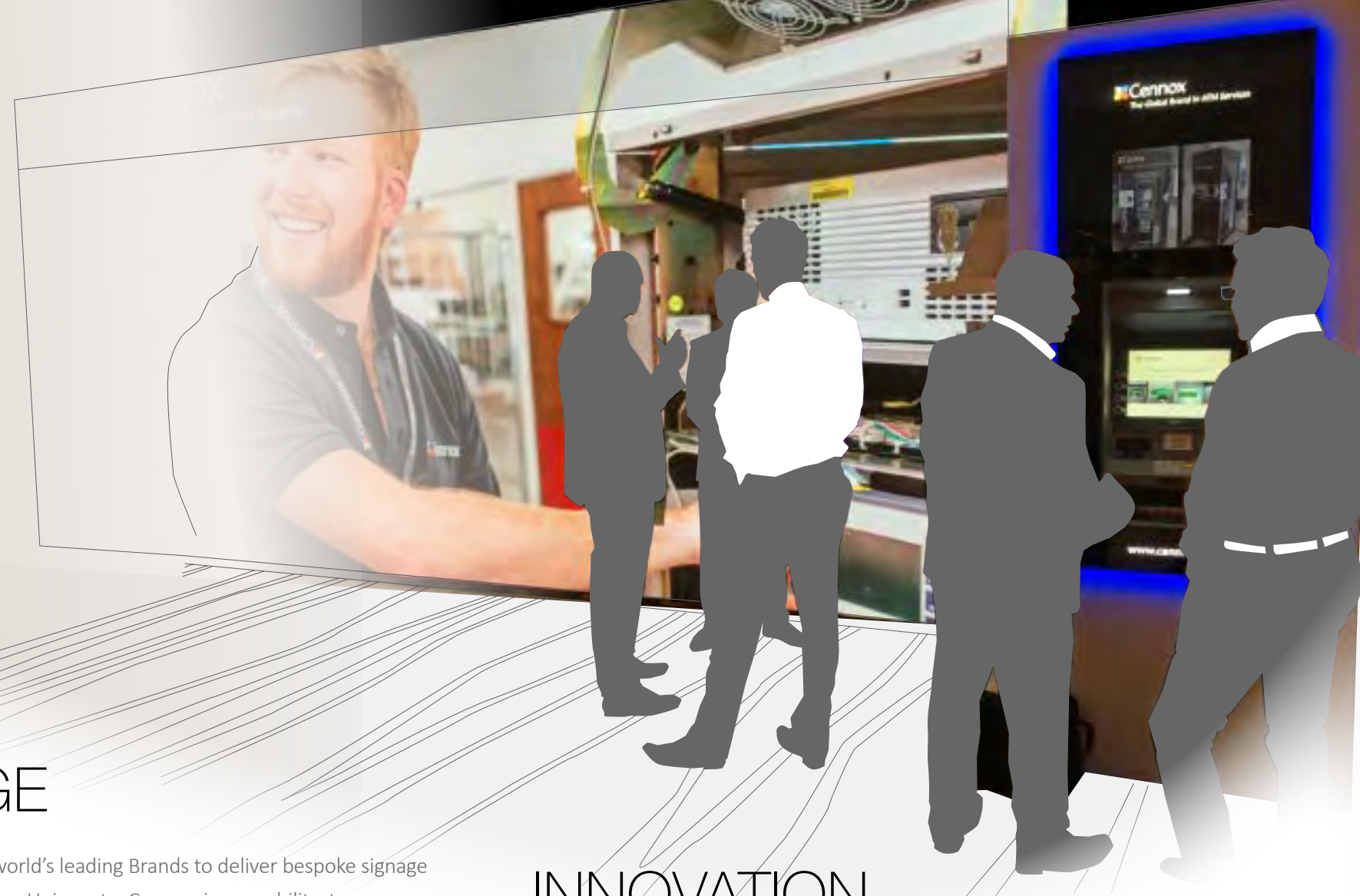
- Saves on expensive removal, storage and processing fees
- Generates new revenue for the customer





SIGNAGE & BRANDING

DELIVERING STUNNING BRANDING SOLUTIONS
TO IMPROVE TRANSACTION LEVELS AT THE ATM



SIGNAGE

Cennox work with the world's leading Brands to deliver bespoke signage and installation services. Unique to Cennox is our ability to manage such a wide variety of projects in-house, from traditional sign making, to working with the latest cutting edge materials and technologies that ensure we maintain our industry leading service.

Our proven track record of delivering excellence is responsible for the on-going relationships with our customers that Cennox continue to enjoy.

INNOVATION

In addition to working with Banks, Cennox have helped transform the head offices for the likes of FaceBook, Expedia and MasterCard, to name a few. These giant brands regularly turn to Cennox to help them realise their ideas, refresh their working spaces and inspire their staff and visitors.



ISO Accreditations

ISO 9001 Certificate : GB22295

ISO 14001 Certificate: GB22645

ISO 18001 Certificate: 14129946

SafeContractor Accreditations

Certificate Number: QU5155

Cennox are FORS Accredited

FORS ID: 005597

ATM BRANDING

Cennox have designed, manufactured and installed thousands of new ATM surrounds for customers around the world. Our experience also comes with a proven track record of increasing transaction levels at struggling sites and improving customer feedback for our clients.

Our in-house signage office is constantly manufacturing a wide range of product, from the industry standard surround to illuminated and mixed material custom built products installed at some of the world's busiest ATM locations.

DELIVERING EXCELLENCE

Our internal processes at managing the quality and production of work ensures all projects leaving our studios meet our own strict standards. This attention to detail and protection of our customers work is one of the key drivers in our clients confidence when returning with new project work.





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CENNOX, THE GLOBAL BUSINESS

Cennox has offices and representation in 14 countries with our global headquarters based in the United Kingdom.

www.cennox.com