

LAW ENFORCEMENT

How tech is transforming policing

UK police forces are enlisting technology to help fight crime and keep the public safe

now technology is transforming how the UK deals with crime.

As police forces across the country are increasingly being asked to do more with fewer resources and less funding, facial recognition software, body cameras, artificial intelligence, drones and innovative ways of collecting data are all and digital at West Midlands Police. being used to fight crime on the frontline and behind the scenes. hard to garner real insights from Technology is helping officers the data we held." Working with respond more efficiently, share Cloudera and Accenture, the force information more quickly and, has created a core data hub, conmost importantly, catch criminals. | solidating information from previ-Data is key for 21st-century ously disparate, siloed systems and

Police is the first UK force to hire positive interventions.

policing relied on the nous | neers and visualisation specialists, of officers on the spot, but deploying data-driven insights to 6,000 concurrent users, in realradically improve its capabilities and help provide cutting-edge ser- Now police on the street can access vices for its 2.8 million citizens.

force as a consultant, all our data the touch of a button and the hub was held across different platforms and was difficult to manage," says Helen Davis, assistant director of IT "These legacy processes made it crimefighters. West Midlands enabling quick data insights and

here was a time when | its own data scientists, data engi- | The single source of key police data can be securely accessed by time, across desktop and mobile. vital information, about a location "Back in 2015, when I joined the or car registration for example, at

used to aid in a

The basic foundation for the use of this technology is that everything happens somewhere has already been used to inform | devices are helping overstretched more than 1.5 million inquiries.

As criminals operate internationally, data such as biometrics, criminal history and arrest warrants are beginning to be shared age from the scene of an inciby forces all over the world.

ity, not only in the UK but across its backend systems to allow law enforcement to make better use of law enforcement cameras. the available information.

At crime scenes, this tech allows officers to conduct detailed ter and less obtrusive to the gen searches of suspects, vehicles and eral public. Some early-adopting UK premises, presenting a consolidated view of all the information | several years, while others have only they have. This is used as part of investigations in-station as well as on the street via mobile apps, enabling officers to use information on a person or vehicle to see if there are any outstanding war- | or observing a scene safely from a rants or a criminal history.

"Being able to 'slice and dice' | They can be flown easily by first information from different systems allows officers on the ground to access the data they need to do cases provide a tactical advantage. their jobs efficiently," says Mark Owens, Civica managing director director for Northern Europe, in Northern Ireland.

Technology is changing how thinks the use of drones is set to police respond at a crime scene increase. "Portability is key, with too, in particular live-streaming drones small enough to be put into tech that's being used in hard- a vehicle boot, or even the footto-reach areas. When applied well of a patrol car, to be quickly to officers' body-worn cameras. deployed in emergencies," he says.

and under-resourced forces to do more in less time.

Innovative live-streaming tech is enabling officers to share footdent instantly, without needing The focus on data – collecting, to return to the station to downanalysing or sharing with other load it. Companies such as Digital forces - has become a top prior- Barriers have come up with technology that works even when Europe. The Police Service of network conditions are poor. Northern Ireland, for example, has Digital Barriers is also behind the worked with Civica to integrate | SmartVis Identifier, a live facial recognition system for body-worn

Drones are substantially cheaper. quicker to deploy than a helicopforces have been using drones for recently started to adopt them.

Compact, lightweight drones can also be very quiet, with advanced cameras that include 32x zoom lenses, perfect for scouting an area distance, and a thermal camera responders to gain quick situational awareness of a scene and in some

Asif Gillani, Parrot regional Middle East, Africa and India,



Being able to 'slice and dice' information from different systems allows officers on the ground to access the data they need to do their jobs efficiently

"I believe we will soon see drones | with Esri UK, whose tech is being kit, due to the situational aware- location component.' ness that can be gained from a quick drone deployment.'

almost completely, police needed | tive map. to ensure the security of premises.

where foot traffic was still happening, where police staff were avail- force of 123,000 people." able, as many had to self-isolate, and other data. Using these findings, senior officers could visualwere and better allocate resources.

everything from simple digital map provision through to advanced analytics, investigations, intelligence for the use of this technology is that national security and public safety, protect the public."

being used by all first-responder used by the City of London Police. vehicles as part of their standard "In fact, 80 per cent of all data has a

PC Dan Baker says: "Another area where this technology has The quieter streets of lockdown been a massive help to us, is it also created greater opportunities for enables us to send out surveys criminal activity in the City of to businesses by email, with the London. As the business area's responses automatically being colstreets and buildings emptied lated and displayed on the interac-

"One of the first surveys we con-Using spatial technology, City of ducted using the Esri solution London Police were able to create a showed that just 3 per cent of the dashboard showing real-time data | City of London's usual workforce on where businesses were closed, was still working there. This was tracking 23,890 business premises, based on survey responses from businesses with a combined work-

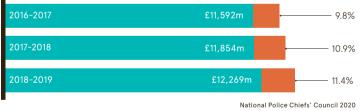
Using this automated survey facility enables the police to communicate easily with human ise where the most vulnerable areas resources and facilities personnel. who may be working from home Spatial technology covers outside London, and gather a large amount of data very quickly.

Baker adds: "Geospatial technology has really been a game-changer for and briefings. "The basic foundation | us and our Esri security dashboard helps us to provide a gold standard of everything happens somewhere," policing in the City of London at this says Adrian Friend, head of defence, exceptional time, reduce crime and

POLICE TECH SPEND ON THE RISE

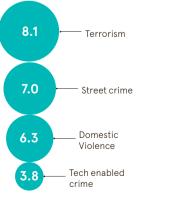
The percentage of funding allocated to tech continues to increase year on year

Total police resource funding
Of which technology spend



POLICE STILL NOT CONFIDENT ON CYBERCRIME

UK police rated their readiness towards crime challenges from 1 (not at all ready) to 10 (completely ready)



HOW PREPARED ARE POLICE **LEADERS FEELING?**

Police chief officers rated their readiness towards leadership and management challenges from 1 (not at all ready) to 10 (completely ready)



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