CONNECTED TACTICAL VEST INTEGRATING AI AND IoT FOR POLICE OPERATIONS

A collaborative effort between France's General Directorate of the National Gendarmerie and Wearin', a Swiss technology start-up, has yielded a prototype connected tactical vest designed to enhance safety and connectivity for law enforcement personnel.

The vest incorporates AI for abnormal-situation detection and utilizes Internet of Things to transmit warnings to a command centre. Equipped with the Wearin' Brain, the vest can detect various anomalies such as loss of verticality, piercing of body armor, or bullet impacts, triggering alerts either manually or automatically. Additionally, it provides geolocation data in case of emergencies.

Featuring smart power management, the vest ensures extended operational time with a central high-performance battery offering up to 8 hours of autonomy. Its optimized cabling allows for easy recharging via a single cable, enhancing convenience for officers during missions.

Ergonomically designed, the vest integrates warning-and-communication devices seamlessly through Modular Lightweight Load-carrying Equipment fasteners and/or heavy-duty multifunctional pouches. Luminous fibers enhance visibility, particularly useful during night operations.

The IoT solution ensures interoperability with current and future systems, catering to the diverse operational needs of law enforcement agencies. The vest's functionalities will undergo testing by various gendarmerie units throughout 2024 to ensure safety, resilience, and efficiency in different operational scenarios.

Supported by the French Ministry of the Armed Forces' Defense Innovation Agency and the National Gendarmerie's Transformation Department, the innovation partnership aims to deliver a state-of-the-art, adaptable system aligned with the evolving requirements of law enforcement professionals.

Source: https://aithority.com/machine-learning/police-tactical-vest-iot-and-ai-to-enhance-safety-on-operations/

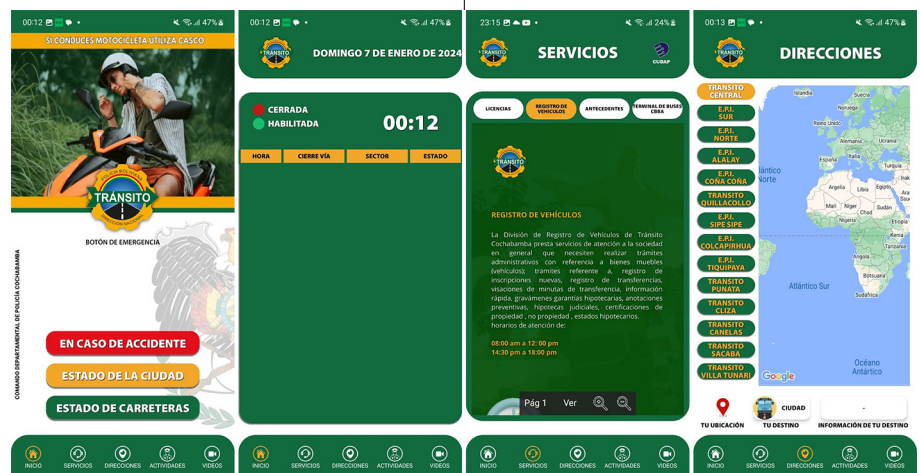## BOLIVIAN POLICE'S ROAD SAFETY MOBILE APP

Police in Bolivia recently implemented a mobile app aiming to ensure safety on the country's roads especially during the hectic carnival season. The app, TRÁNSITO CBBA, enables citizens to report speeding cases to law enforcement officers swiftly. Upon downloading the app, a passenger of a moving vehicle can go to a section on the interface and see a speedometer which provides a calculation of how fast the automobile is moving.

The passenger can take a screenshot of the speedometer and click on the app's logo which would take the user to a WhatsApp chat where one could send the photo to the police. With this, the police would be able to respond, intercept the vehicle, fine the driver if speeding limits are broken, and hopefully ensure that a speeding accident is avoided.

The mobile app also has other sections on road traffic updates, bus terminals, vehicle registration and licences, and general informational videos about road safety. With the increase in the number of speeding accidents during the carnival season's hectic festivities, the Bolivian Police also carry out awareness campaigns about alcohol consumption for drivers through the mobile app.

Sources: https://www.bolivia.com/tecnologia/noticias/aplicacion-movil-permite-denunciar-exceso-de-velocidad-en-carreteras-449920 ; https://noticias.unitel.bo/sociedad/policia-implementa-aplicacion-movil-para-denunciar-exceso-de-velocidad-en-las-carreteras-DL10932991 ; https://www.contactosur.net/el-exceso-de-velocidad-en-carreteras-se-podra-denunciar-desde-una-aplicacion/
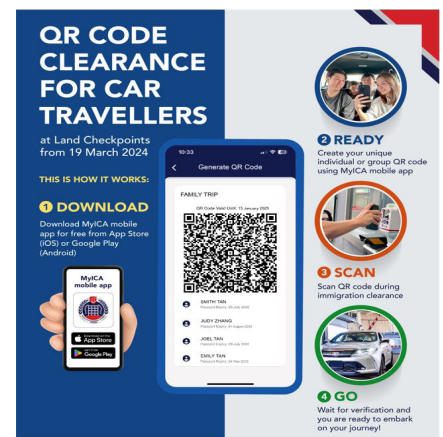
SINGAPORE'S USE OF QR CODES FOR IMMIGRATION

Singapore's Immigration and Checkpoints Authority (ICA) is rolling out a system where travellers in cars can use QR codes for immigration clearance at certain checkpoints in the country. With this initiative, travellers will no longer be required to present their physical passports at certain checkpoints and can instead download the My ICA app and generate a QR code which will allow them to clear immigration while entering or departing the country. Travellers will be able to fill in their passport details in the My ICA app or use the built-in camera function of the app to register their passport details, after which the app will generate their QR code.

This facility allows up to ten people traveling in the same group to share one QR code for immigration. The QR codes are valid for one year from generation, or until the traveller's passport has expired. In case of group immigrations, the QR code is valid for one year or until the earliest passport expiry of a group member. First-time travellers to Singapore or people traveling on a new passport are however required to present their physical passport at the checkpoint. They can make use of the QR code facility upon their next visit to Singapore. Recurrent travellers can also use the original method of presenting their physical passports for immigration clearance.

This initiative aims to create a contactless immigration process which is also estimated to reduce the overall waiting time for immigration by 30 percent. Through the initiative, a group of four travellers are estimated to save approximately 20 seconds and a group of ten travels will be able to save approximately one minute. While the QR code facility is only available at the Woodlands and Tuas checkpoints in the country, the ICA aims to extend this initiative to other land checkpoints in the future. In addition to this initiative, the ICA also aims to create more innovative and automated procedures to make immigration processes faster and more efficient.

Sources: https://www.ica.gov.sg/ enter-transit-depart/at-our-checkpoints/ use-of-qr-code-for-immigration-clearance- at-woodlands-and-tuas-checkpoints

https://www.channelnewsasia.com/ singapore/ica-immigration-clear- ance-qr-code-travel-land-checkpoints-my- ica-app-process-4189226

https://www.scmp.com/news/asia/ southeast-asia/article/3255096/singa- pores-qr-code-immigration-clearance-car- travellers-start-march-19

DID YOU KNOW?

Abu Dhabi Police have developed a 'smart police hat' designed to measure levels of tension and focus in officers with high-stress duties. This innovative technology, developed in-house, includes both hardware and software components. The smart hat is designed for officers in critical roles, such as operations rooms, patrols, and aircraft monitoring. Linked to a mobile application, the hat utilizes a dry sensor to isolate surrounding noise and analyze brain signals in real-time, providing valuable data on the officer's concentration levels.

Sources: *https://www.thenationalnews.com/uae/2024/03/06/ drone-traffic-light-and-smart-hat-unveiled-by-abu-dhabi-police/*

EVENT

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GOING DIGITAL: NIGERIA POLICE FORCE'S CENTRAL MOTOR REGISTRY

The Nigeria Police Force (NPF) has initiated the digitalization of the Central Motor Registry (CMR) to modernize vehicle registration processes and enhance security measures. Established over 60 years ago, the CMR is undergoing transformation to meet the demands of contemporary policing in the digital era.
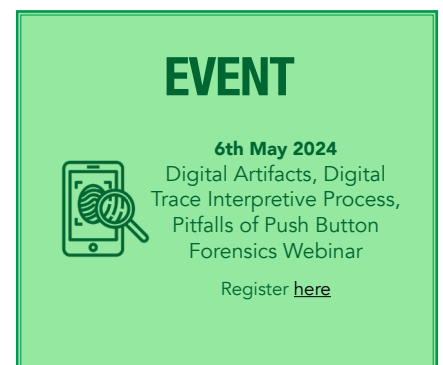
The digital CMR offers several advantages, including enhanced security measures to safeguard citizens' vehicles. Real-time and accurate information enables law enforcement agencies to prevent and resolve vehicular crimes promptly, thereby securing citizens' assets effectively.

Another benefit of the digital CMR is to enable the police to enforce motor vehicle-related laws more effectively. This promotes safer roads and improved traffic management, benefiting all road users and contributing to a regulated and secure transportation ecosystem.

Moreover, the comprehensive database of motor vehicles serves as a deterrent to potential criminals. Knowing law enforcement agencies have access to accurate information may discourage vehicle exploitation for illegal activities.

In cases of accidents or disputes involving motor vehicles, the digitalized CMR streamlines investigations, ensuring quick resolutions and minimizing inconvenience for citizens. This efficiency marks a significant improvement in the overall investigative process, benefiting both law enforcement agencies and citizens.

Maintaining an accurate and up-to-date database of vehicular information significantly contributes to national security. Law enforcement agencies can promptly track and address vehicles associated with criminal activities, thereby bolstering the country's overall security infrastructure.

Sources: https://innovation-village.com/ nigeria-police-force-central-motor-regis- try-goes-digital/

https://www.thisdaylive.com/index. php/2023/12/05/security-nigeria-po- lice-force-introduces-digital-central-mo- tor-registry

4TH INTERPOL - UNICRI GLOBAL MEETING ON RESPONSIBLE AI FOR LAW ENFORCEMENT

The 4th INTERPOL – UNICRI Global Meeting on Responsible AI for Law Enforcement (Global Meeting) was held in the INTERPOL Global Complex for Innovation, Singapore from 20 – 22 February 2024. The event was held in collaboration with the Nanyang Technological University of Singapore, the European Union, the Naif Arab University for Security Sciences, and the United Nations Office of Counter-Terrorism.

The meeting was attended by 101 participants from 33 member countries. The previously unmatched broad global representation at the meeting clearly highlights the rising importance of the topic of AI to the INTERPOL member countries.

Hosted with the aim of sharing best practices and fostering dialogue and cooperation, the event was anchored by the overarching goal of advancing responsible AI innovation within law enforcement. More specifically, the Global Meeting served as a platform for participants to explore the ethical, regulatory, and technical dimensions of integrating AI responsibly into law enforcement work.

Dedicated sessions on the Toolkit for Responsible AI Innovation in Law Enforcement (AI Toolkit, a joint publication of INTERPOL and UNICRI), along with tailored workshops, were conducted during the event to enhance comprehension of the toolkit's content and its practical utilization in law enforcement contexts.

During the Global Meeting, the revised version of the AI Toolkit was released, a practical guide for law enforcement agencies on developing and deploying artificial intelligence responsibly, while respecting human rights and ethics principles. The revised version of the AI Toolkit, crafted through extensive stakeholder engagement, incorporates several significant changes to improve its usability and relevance in today's dynamic technological landscape. The key revisions include:

Additional recommendations concerning emerging best practices in AI governance and ethics.

Enhanced guidance on building an AI strategy, offering comprehensive insights on the development and implementation of effective AI strategies, tailored to the unique needs and challenges faced by law enforcement agencies.

Integration of illustrative examples and case studies to highlight the significance and implications of each question posted in the AI Toolkit, facilitating a deeper understanding among law enforcement officers regarding the practical implications of AI implementation.

Alignment with the latest legal, regulatory, and technical advancements in the realm of AI, ensuring that the AI Toolkit remains in harmony with the evolving landscape, and hence providing law enforcement agencies with up-to-date guidance and advice.

The latest version of the AI Toolkit can be accessed at https://www.interpol.int/How-we-work/Innovation/Artificial-Intelligence-Toolkit