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NEWSLETTER

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Chinese Smart Technologies Gain Attention at German Invention Fair
Around 200 Chinese innovations were showcased at Germany's iENA invention fair (31 Oct-2 Nov, Nuremberg), including smart glasses for detecting and treating facial spasms, AI-powered robots for hazardous power inspections, and an AI simulator supporting up to 10 million virtual agents. The exhibits highlighted China's expanding capabilities and international ambitions in advanced technologies. **(Xinhua)**

China Advances High-Precision Underground Positioning Technology
Chinese researchers have developed Xingyuan, a BeiDou-based underground positioning system enabling navigation where satellite signals cannot reach. Tests show pedestrian positioning accuracy of better than 0.2 meters, while its independently developed chip achieves ranging accuracy below 10 centimeters. Applications include smart parking, autonomous transport and intelligent coal mining. **(Xinhua)**

China Sets New Record for Lowest Artificial Temperature
Chinese scientists have cooled a rubidium atom cloud to 9.7 picokelvin aboard the Tiangong space station, setting a new record for the lowest artificial temperature. Published in Science, the achievement surpasses the previous 38-picokelvin record set in 2021. The breakthrough could advance early-universe simulations, dark matter research and quantum sensing technologies. **(CCTV News)**

China Develops Open-Source RNA Foundation Model
Researchers at the University of Science and Technology of China have released structRFM, an open-source RNA foundation model that improves RNA structure prediction and functional analysis. Published in Nature, the model provides reusable weights, source code and datasets, with potential applications in RNA-based drug discovery, therapeutic development and biological research. **(CCTV News)**

China Upgrades AI-Powered Robotic Traffic Police Officer
China has deployed an upgraded robotic traffic officer in Zhejiang, featuring autonomous navigation, dynamic obstacle avoidance and millisecond-level coordination with traffic lights. Equipped with AI voice interaction and visual recognition, it can provide directions, guide pedestrians and identify traffic violations. Working alongside one human officer, it helps manage intersections, improve traffic flow and ease staffing pressures. **(Xinhua)**