

## Annex

The awarded projects of the Development Bureau (DEVB), the Electrical and Mechanical Services Department (EMSD) and the Drainage Services Department (DSD) at the 50th International Exhibition of Inventions of Geneva

### **Prize of the Republic and Canton of Geneva**

- Two-phase Immersion Cooling System for High Performance Computer Workstation (In collaboration with Civil Aviation Department by EMSD)

### **Gold medals with the congratulations of jury**

- Mosaic Model Map (M<sup>3</sup>) - Real-time territorial flood risk visualisation system leveraging Hydraulic Model Pre-run, Scenario Mapping and Mosaic Compilation technologies (DSD)
- Integration of AI and Optical Fiber Technology for district cooling/heating system plants (EMSD)
- Tracking Solution for Outdoor Activity Safety (In collaboration with Civil Aviation Department by EMSD)

### **Gold medals**

- The Smart Structural Integrity Monitoring System (DSD)
- Two-phase Immersion Cooling System for High Performance Computer Workstation (In collaboration with CAD by EMSD)
- System of Wireless Connection to Field Equipment for control and monitoring
- RopeVision: Cost effective solution to detect lift rope defects using AI (EMSD)
- Hauling Rope AI Condition Monitoring System (EMSD)

### **Silver medals**

- SmartEye: Remote site supervision system-cum-integrated site management platform (DEVB's project, supported by EMSD)
- CRISmart - CRISPR-based Smartphone Microbial Assay for Rapid Testing (DSD)
- Flood Alert System for Tomorrow (FAST) - Intelligent Flood Alert and Emergency Response System (DSD)
- MAESTRO - Machinery Analysis & Early System Trouble Resolution Operator (DSD)
- Automated Software for Drainage Network Detailed Design (DSD)

### **Bronze medals**

- MoShark Water Surface Mowing Robot - Wireless AI-powered Remote-controlled River Cleaning Robot (DSD)
- RAPID - Real-time Alert Platform for Inundation Detection (DSD)
- SmartAir - AI-controlled Ventilation System (EMSD)
- AI Visual Intelligence-enabled glasses for drone operations (In collaboration with Hong Kong Police Force by EMSD)
- Territory-wide IoT Network for Resilience, Sustainability and Liveability in Smart City (EMSD)

**The Best International Invention & Innovation (awarded by the National Research Council of Thailand)**

- SmartEye: Remote site supervision system-cum-integrated site management platform (DEVB's project, supported by EMSD)