

SCDF X IBM Lifesavers' Innovation Challenge: Call for Code 2020

PROBLEM STATEMENTS

Choose **one of the four** problem statements below to respond to.

EMERGENCY MEDICAL SERVICES

SCDF works closely with Community First Responders (CFRs) to provide timely relief and response to emergency situations. With the increasingly aging population and a growing segment of vulnerable populations in mind (e.g. increasing trend of elderly with no next of kin), how might we leverage analytics for better sense-making to be alerted at the onset of incidents which require emergency response (e.g. cardiac arrests, falls, unattended cooking fires etc.) and mobilise CFRs for effective early intervention especially to the vulnerable populations?

CLIMATE CHANGE

Climate change is inevitable, with projected increase in temperatures leading to phenomena such as the Urban Heat Island effect. This leads to an environment and climate where it is increasingly physically challenging for First Responders to train and operate to maximum efficiency and performance. How might SCDF leverage wearables or other technologies to provide relief or enhancement in harsh operating conditions and maximise the safety, health and performance of First Responders during training and operations?

INTEGRATING WITH A SMART ENVIRONMENT

Infrastructure is getting “smart”, with sensors and Internet of things (IoT) increasingly embedded in the built environment (e.g. Punggol Digital District). How might we leverage a network of smart infrastructure in the built environment to make better and more timely sense of emergency incidents (e.g. detection of fires developing, building collapses, falls, road traffic accidents etc.) and to trigger early intervention measures, without the need to activate precious emergency resources?

PREVENTING THE SPREAD

Recent events such as the protracted wildfires in Australia and the outbreak of COVID-19 suggests that across the globe, we are indeed heading toward a decade of new frontiers in 2020s which has implications on civil defence, community resilience and emergency response in Singapore. How might we leverage technology to project and come up with upstream solutions to make such events non-events?

You have 48 hours to formulate a code and video pitch responding to ONE of the problem statements above. All the best!