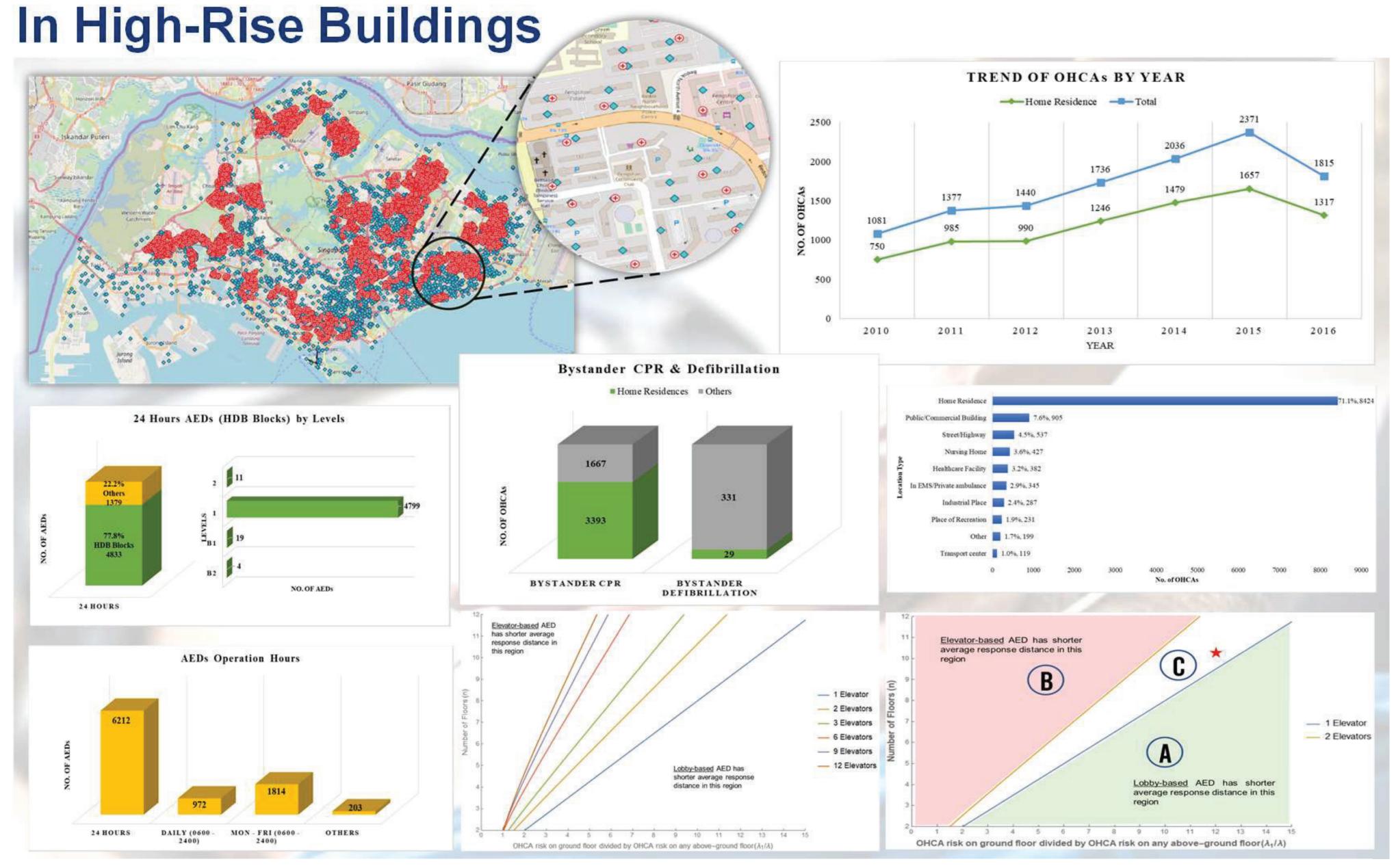


School of Computer Science and Engineering

College of Engineering

AUTOMATED EXTERNAL DEFIBRILLATOR (AED) PLACEMENT OPTIMIZATION



This project aims to mathematically analyze the AED placement in a highrise building in Singapore and determine whether elevator-based or lobbybased AED placement results in shorter vertical distance travelled. The analysis solely depends on the height of the building and the relative risk of OHCA on each floor.

Our results suggest that cardiac arrest in high-rise buildings may experience faster response from a lobby-based AED when a building has more than one elevator whereas elevator-based would be optimal if the OHCA risk for the ground floor is lower than the risk of the above-ground floor.

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