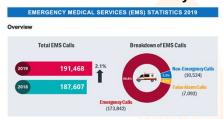




SMART NATION TRANSLATIONAL LAB

Sensor Analytics To Improve Home Fire Alarm Device (HFAD)

Why is there a need?





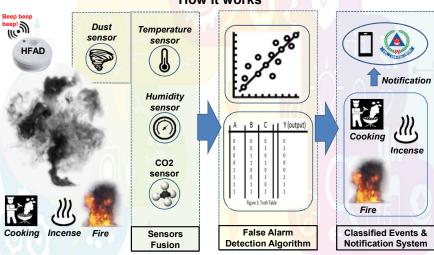


The installation of HFAD(s) is mandatory for new residential premises, as well as existing residential premises carrying out fire safety works[1], with plans submitted by Qualified Persons to SCDF (or to any other government agencies e.g. BCA, HDB) on or after 1 June 2018.

- On average, SCDF responded to around 48 non-emergency and false alarm calls daily. These cases still required the deployment of SCDF resources which could have been dispatched to attend to emergency cases which could be life-threatening.
- ❖ Of the top three types of residential fire, cooking formed the largest component.
- ❖ In Singapore context, other high probable causes of HFAD alarm trigger would be religious burning, i.e.: incense burning.

*Information extracted from below:
(1) https://www.scdf.gov.sg/home/fire-safety/home-fire-alarm-device-(hfad)
(2) https://www.scdf.gov.sg/docs/default-source/scdf-library/amb-fire-insper -statistics/scdf-annual-statistics-2019.pdf

How it works



Prototype Deployment

