Module 6: Technologies to predict natural disasters

## A study of the technologies used in the 2019/20 Australian bushfire season

Use and make direct links to the sources provided to answer the following questions.

1. Using direct references to [How the 2019 Australian bushfire season compares to other fire disasters](https://www.news.com.au/technology/environment/how-the-2019-australian-bushfire-season-compares-to-other-fire-disasters/news-story/7924ce9c58b5d2f435d0ed73ffe34174), assess the need for improving the accuracy of technologies used in meteorology to predict and prevent damage to life and infrastructure from bushfires in Australia.

2. Assess the effectiveness of ONE of the technologies mentioned in the following articles, in preventing the damage to life and infrastructure caused by bushfires in Australia.

* [5 ways technology will change the way we fight bushfires](https://createdigital.org.au/5-ways-technology-change-way-fight-bushfires/).
* [The hi-tech ways Australia is fighting fires](https://www.news.com.au/technology/environment/the-hitech-ways-australia-is-fighting-fires/video/9fb9c1958fdd79a1f6c618310e3c5f71).

3. Outline the strengths and limitations in using ‘big satellite data’ to predict and prevent damage to life and infrastructure from bushfires in Australia. With direct links to the given sources, outline how the author Wallace Boone Law tries to overcome these limitations.

* [University of Adelaide researchers raise awareness on the importance of satellite imagery for mapping bushfire impacts](https://blogs.adelaide.edu.au/environment/2020/02/19/researchers-kangaroo-island-fire-maps/).
* [I made bushfire maps from satellite data, and found a glaring gap in Australia’s preparedness](https://theconversation.com/i-made-bushfire-maps-from-satellite-data-and-found-a-glaring-gap-in-australias-preparedness-132087)