

Water Mist for sheltered / social Housing

Yusuf Muhammad (Plumis)



Webinar Series April 2021



Yusuf Muhammad & William Makant Cofounders of Plumis Ltd



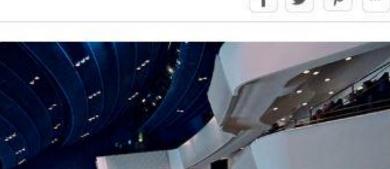






Red Dot 2016 Product Design Winners **Announced**

BY JANA PERKOVIC | MARCH 31, 2016





Red Dot Gala in the Aalto-Theater in Essen, Germany (Courtesy Red Dot Awards)

RELATED

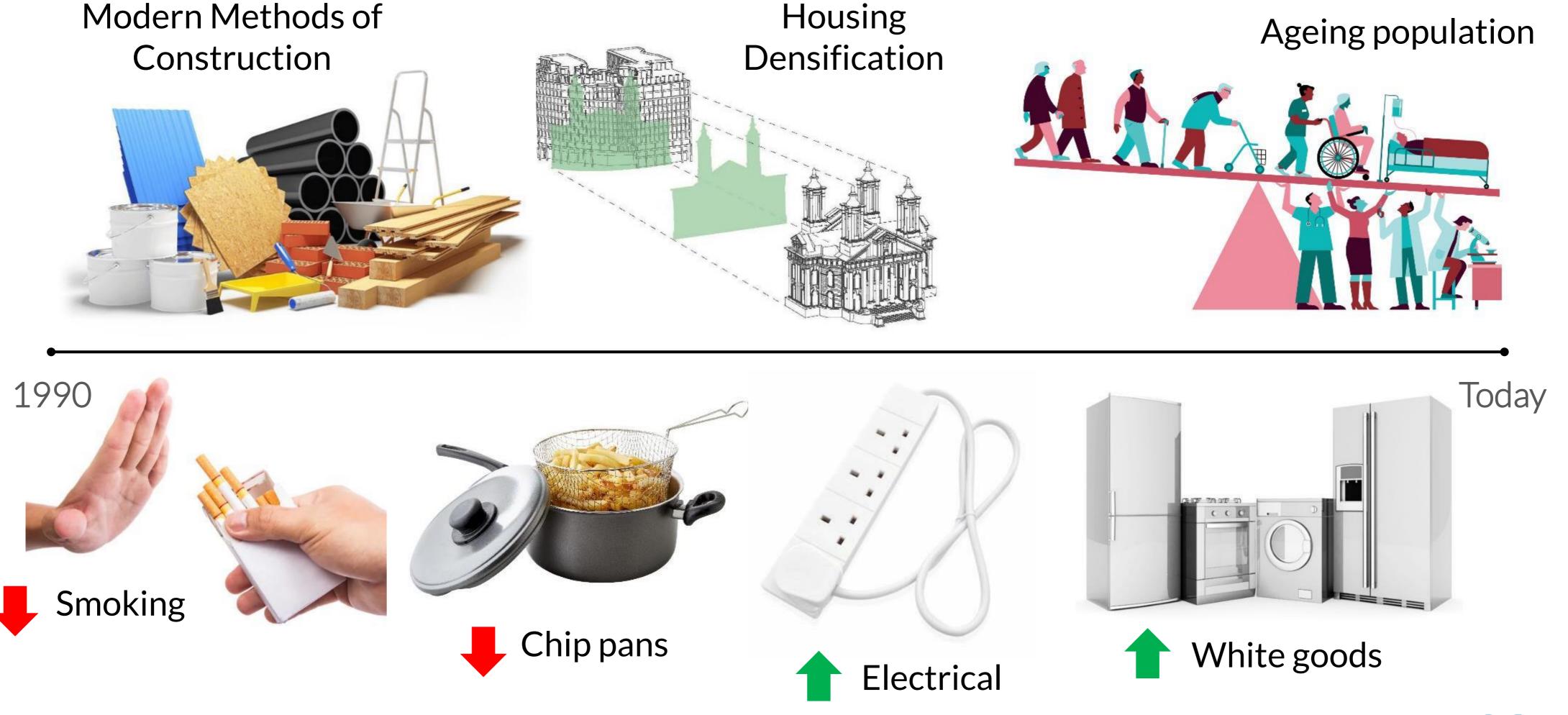
Philippe Starck

Red Dot Design Museum

The winners of the prestigious Red Dot Awards 2016 have been announced in the category of Product

A record 5,200 products were submitted this year in the Product Design category, including firms and designers from 57 countries. The jury, consisting of 41 experts, was also the biggest ever, assembling in the Ruhr area of Germany to assess in situ every object submitted for the award.

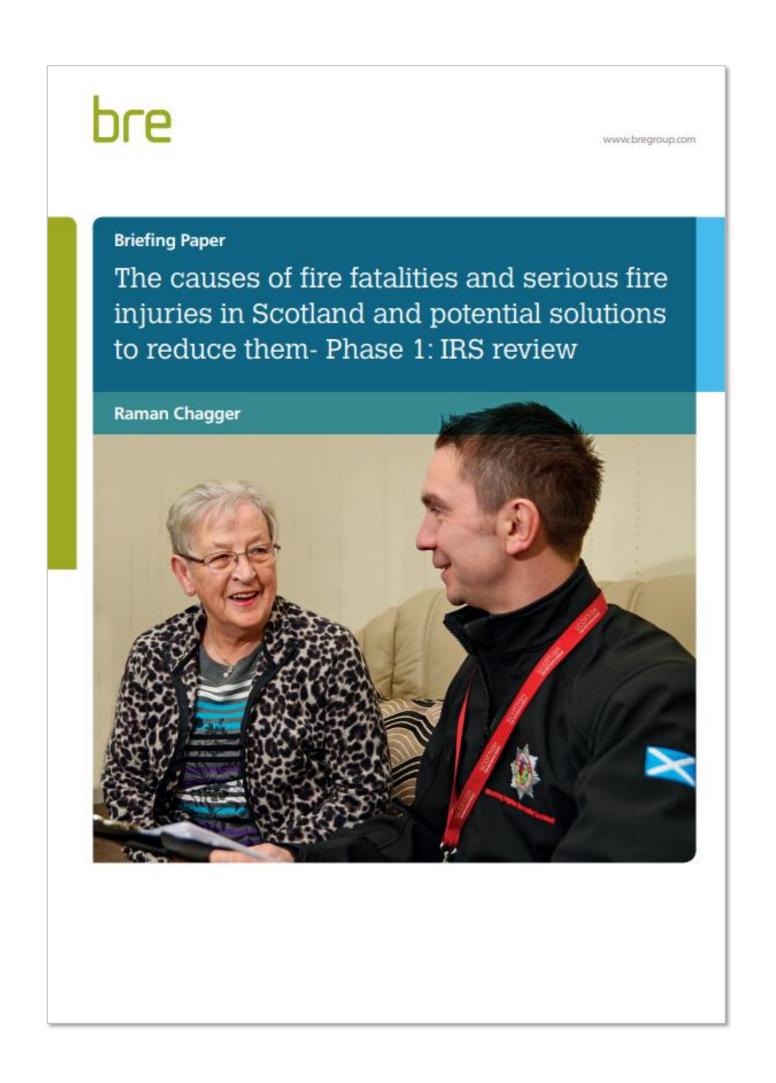
The evolution of the fire problem







BRE Research



Current technologies and approaches may provide insufficient protection

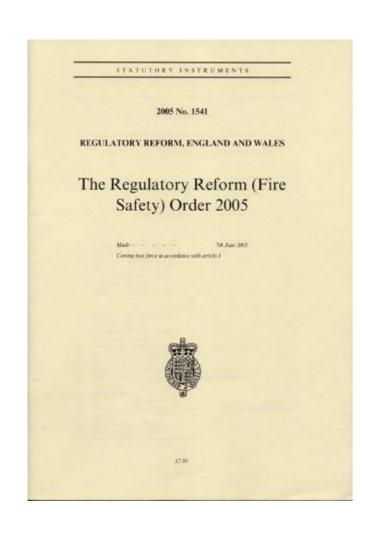
An ageing population with increased vulnerabilities, will need protecting in ways that are increasingly more sophisticated

Reliable <u>early detection</u> and <u>suitable</u> <u>intervention</u>, to either delay the development of the fire or to notify people



Elective fire safety upgrade

Enhancement to a building with an otherwise code compliant fire safety design



Places the responsibility on **individuals** within an organisation to carry out risk assessments to **identify, manage and reduce the risk**

Article 33 - Person charged to prove that s/he took all reasonable precautions and **exercised all due diligence** to avoid the commission of such an offence.



Elective fire safety upgrade? Consider?



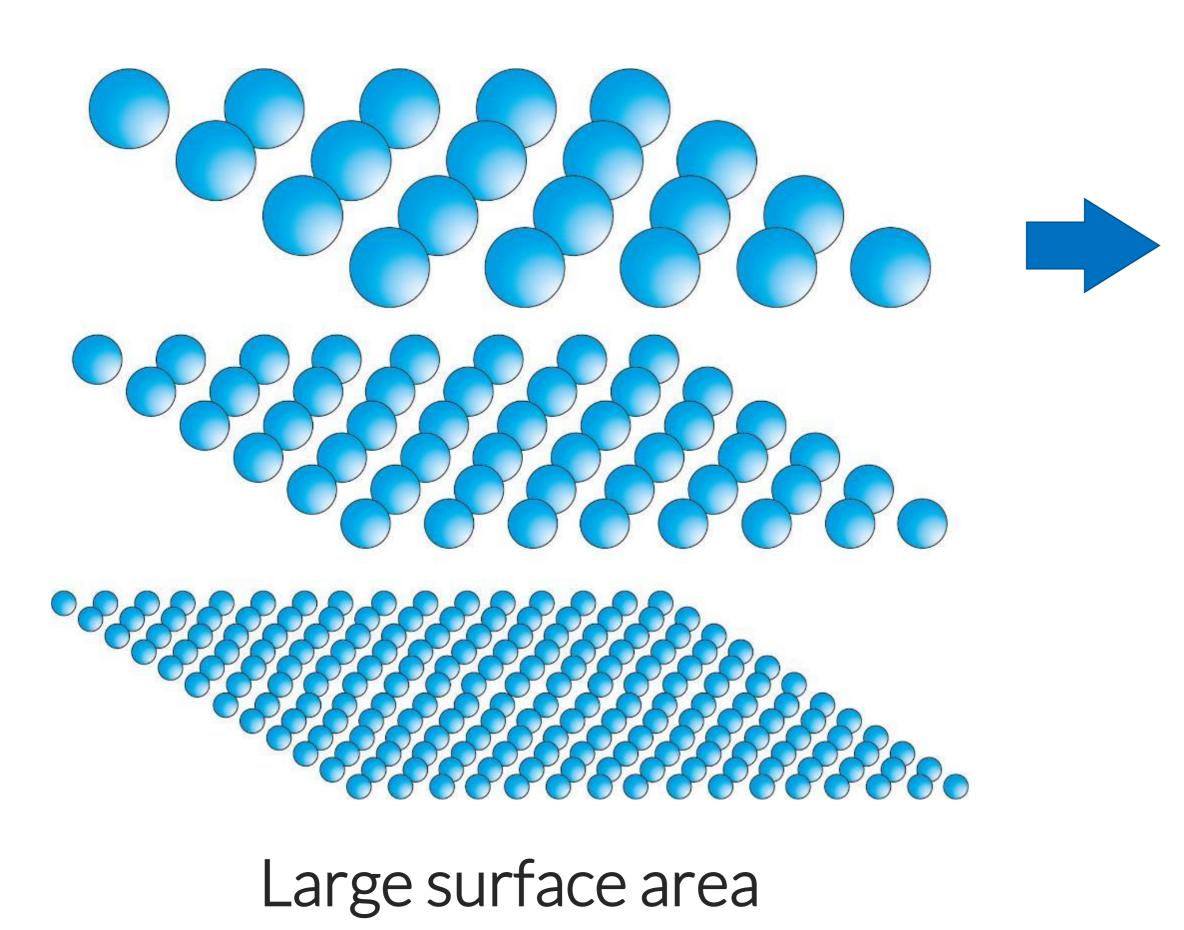
Housing stock type & characteristics



Type of occupants



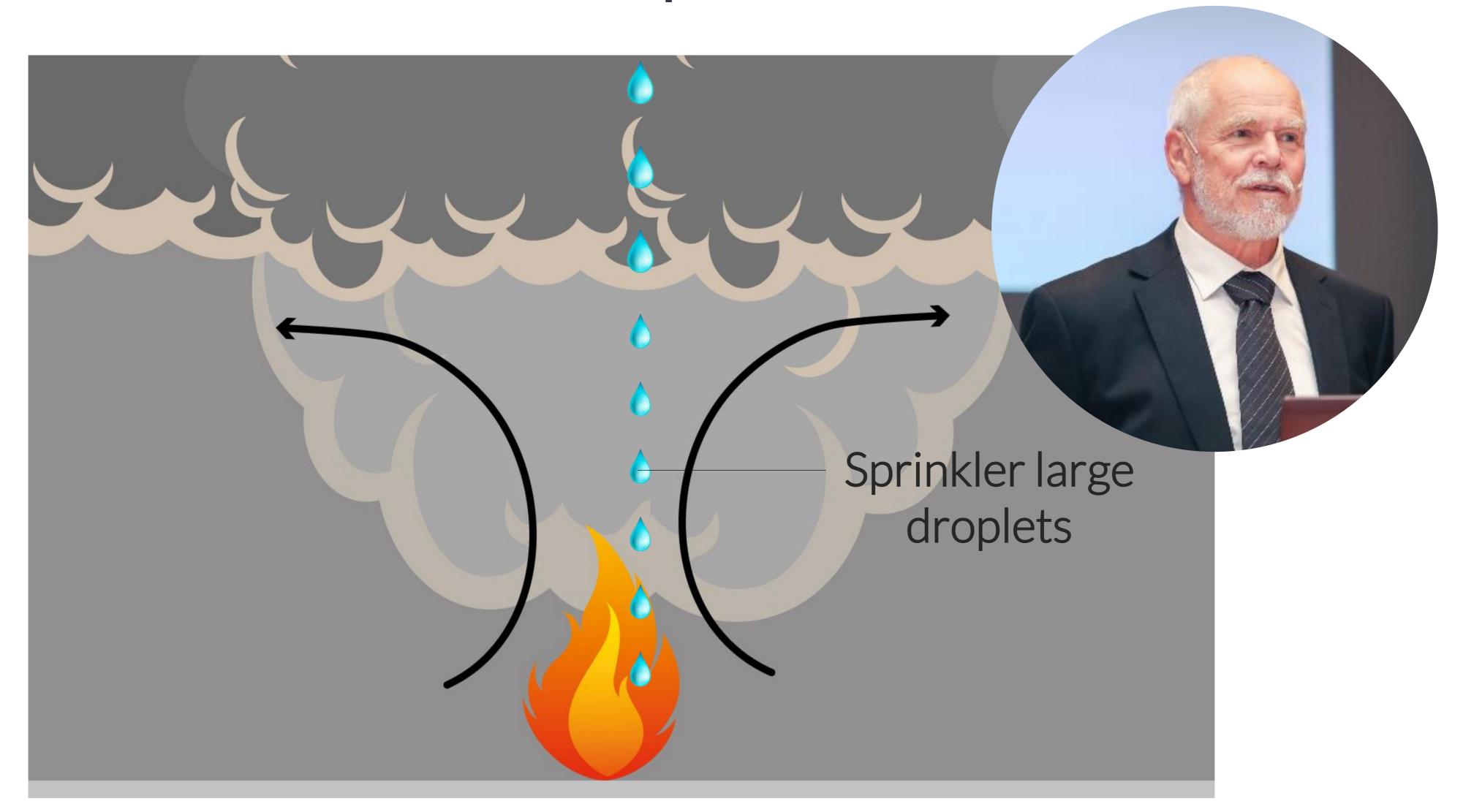
Watermist





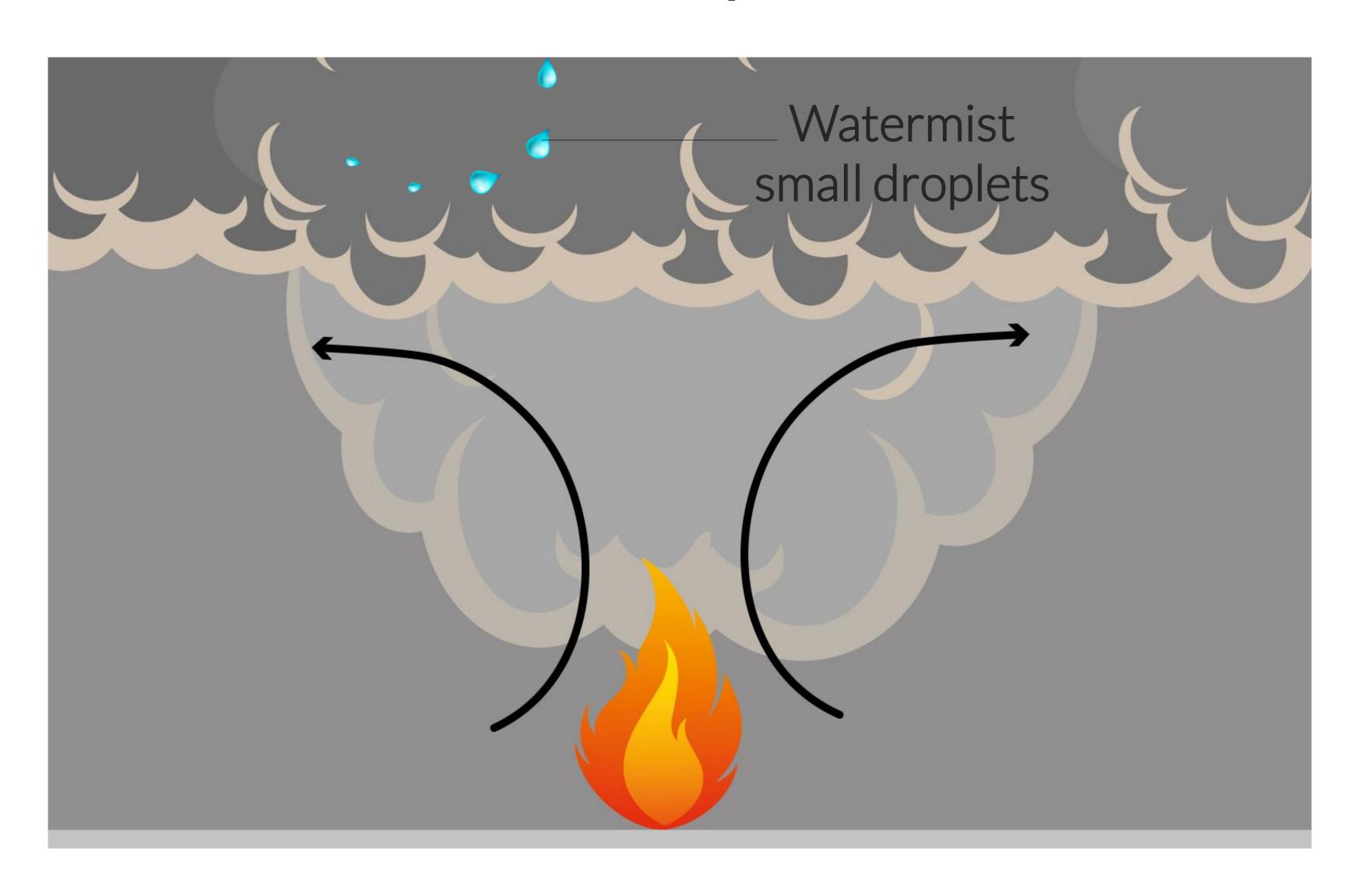


Newton in practice



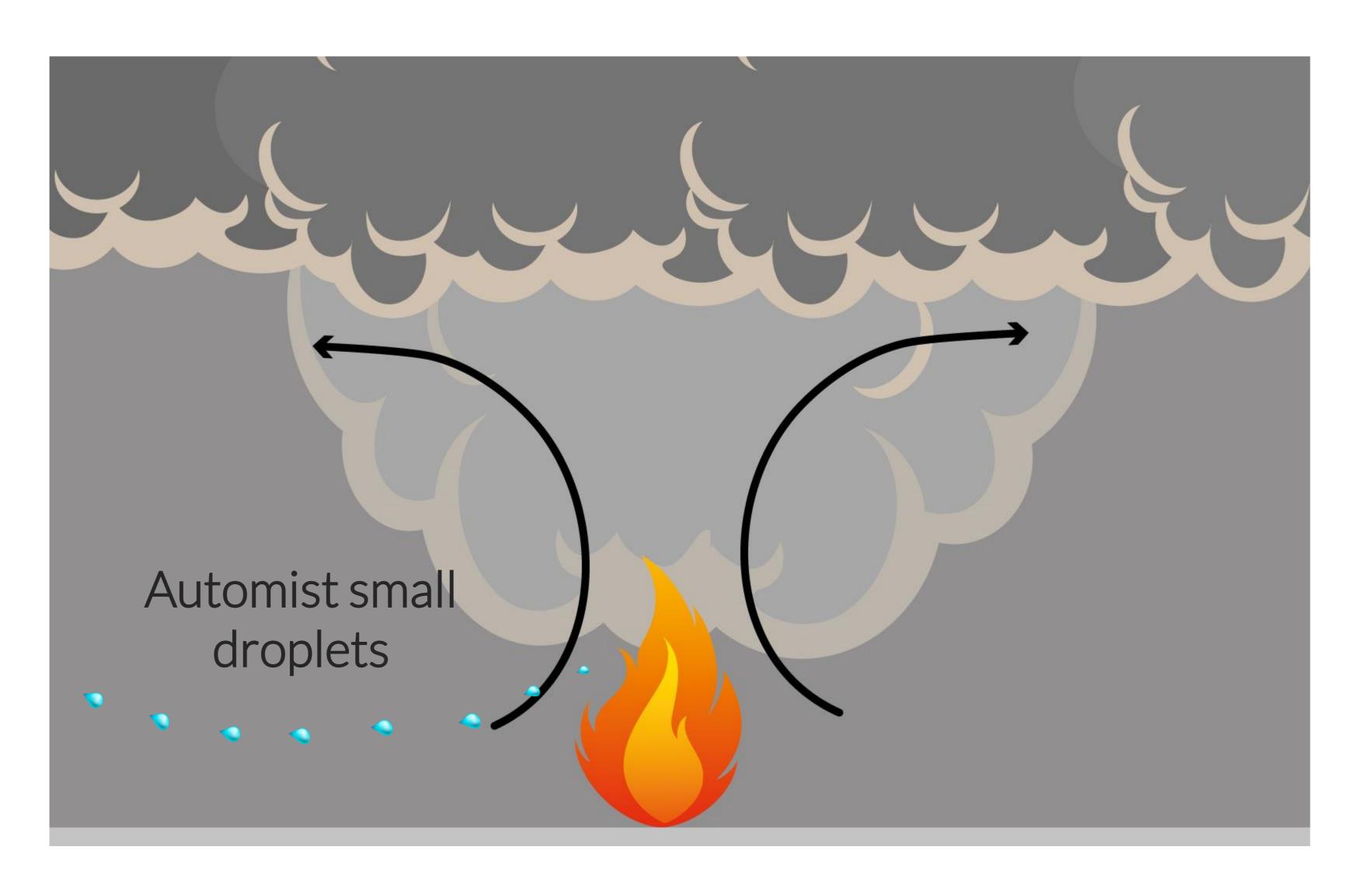


Newton in practice





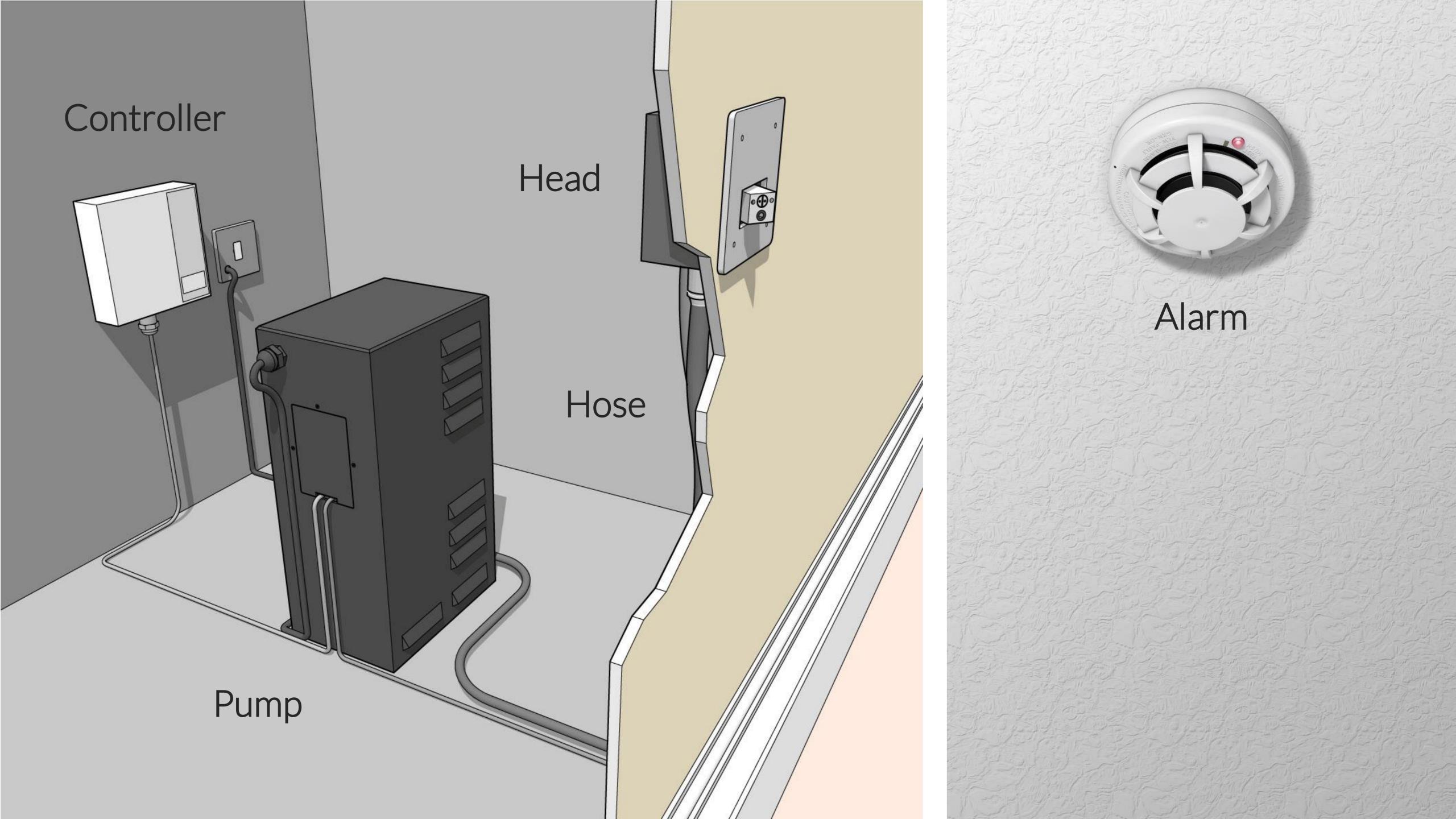
Archimedes in practice



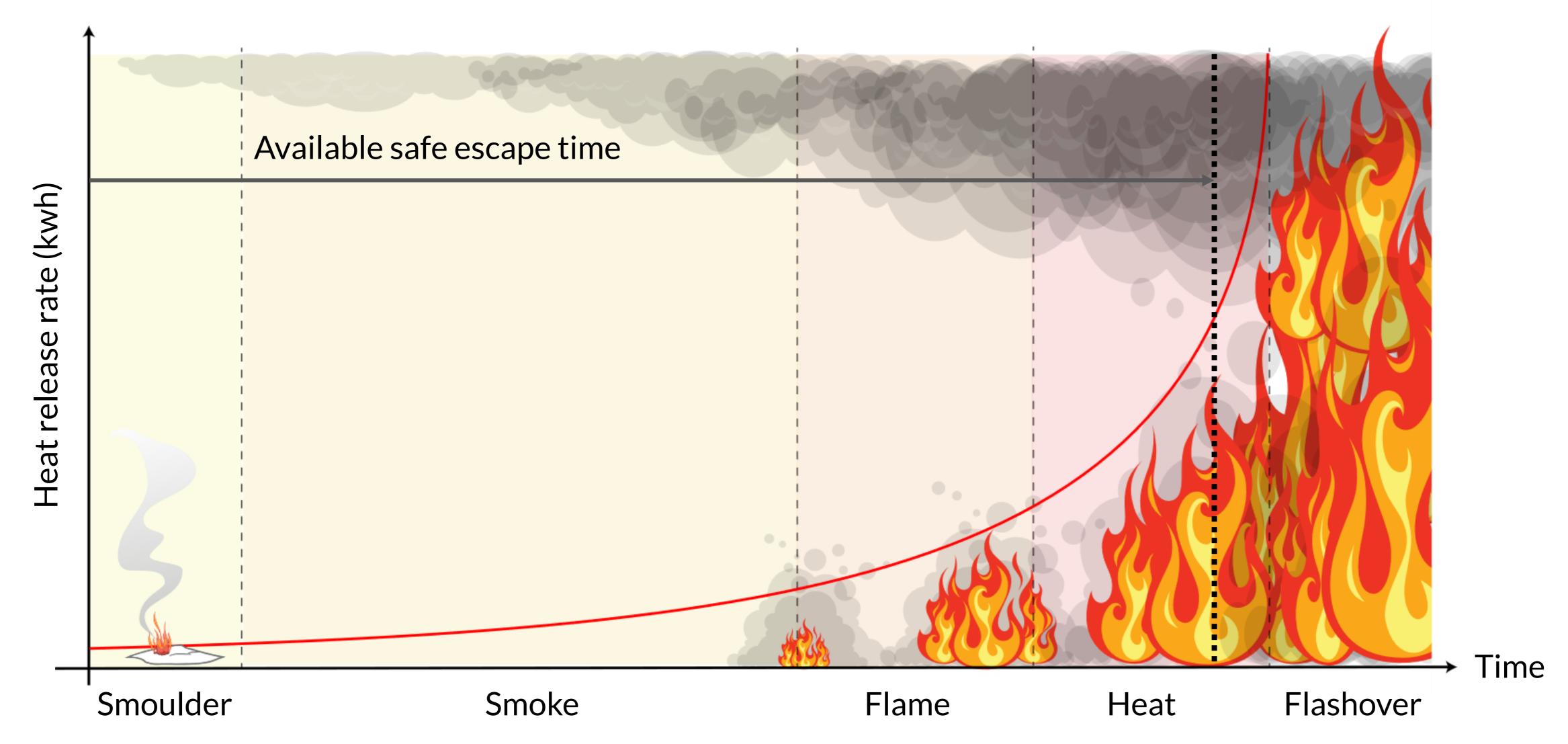




GULOMIST GUEER KEEP CLEAR DO NOT COVER

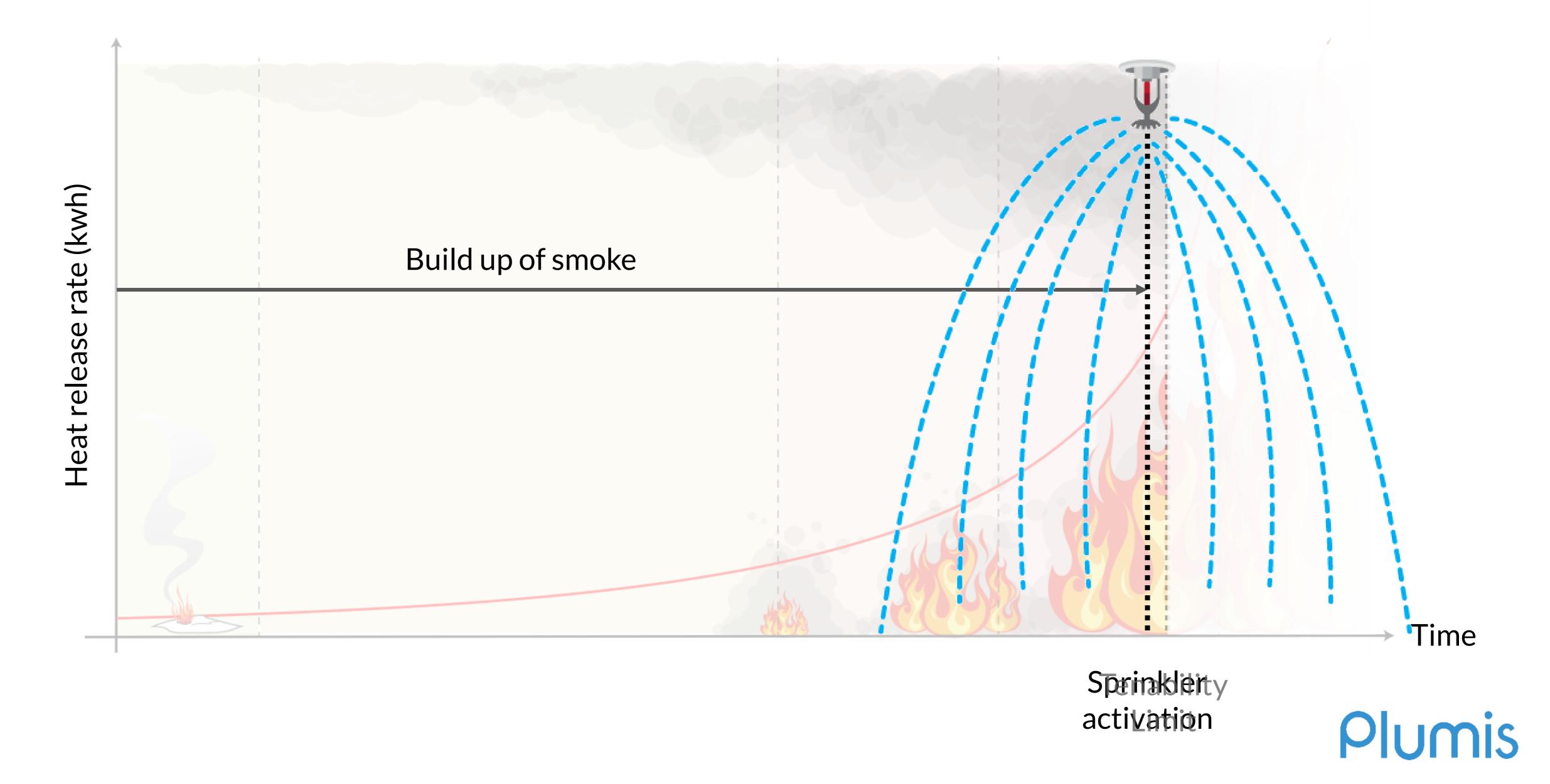


Smoke

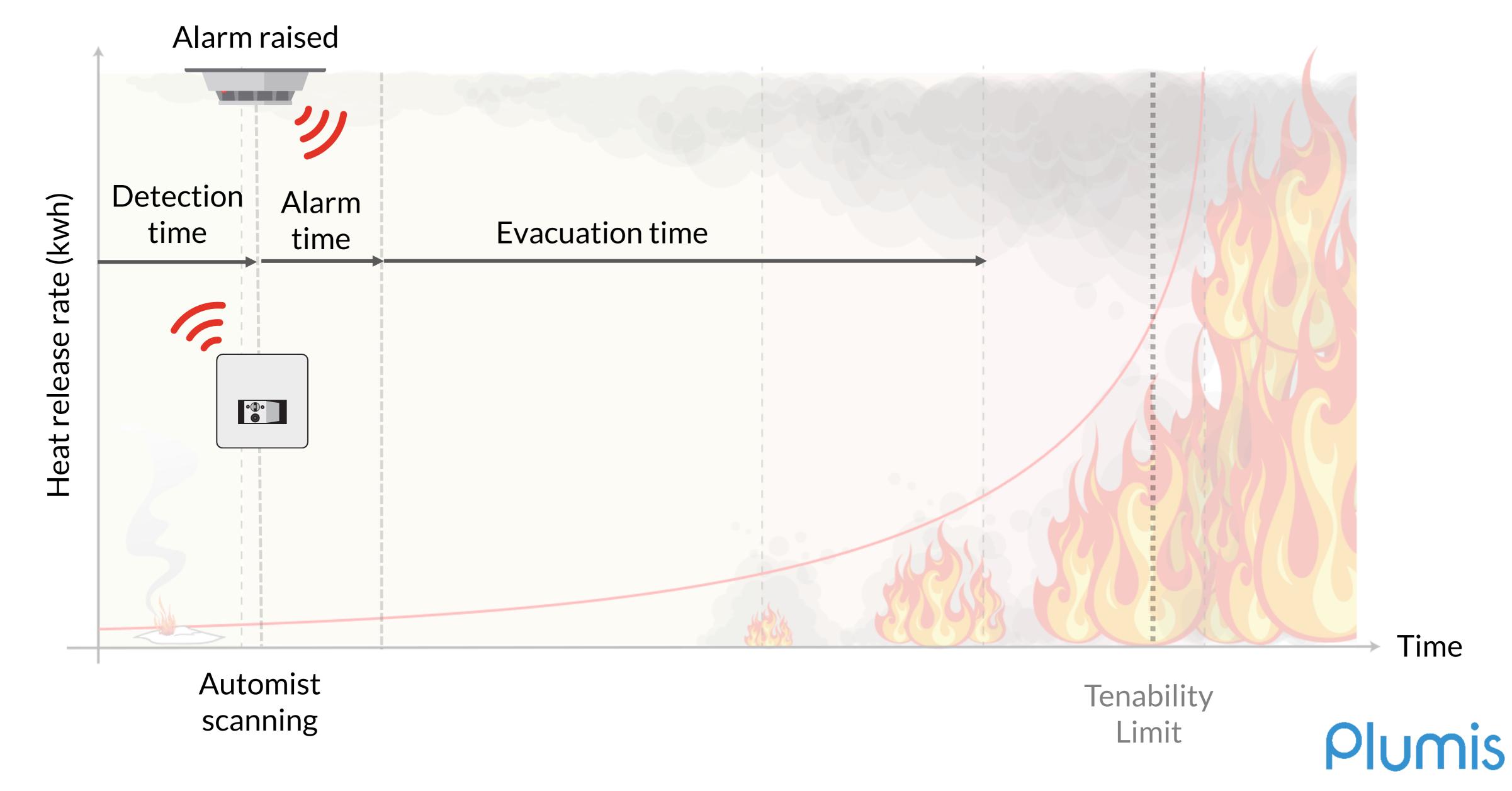




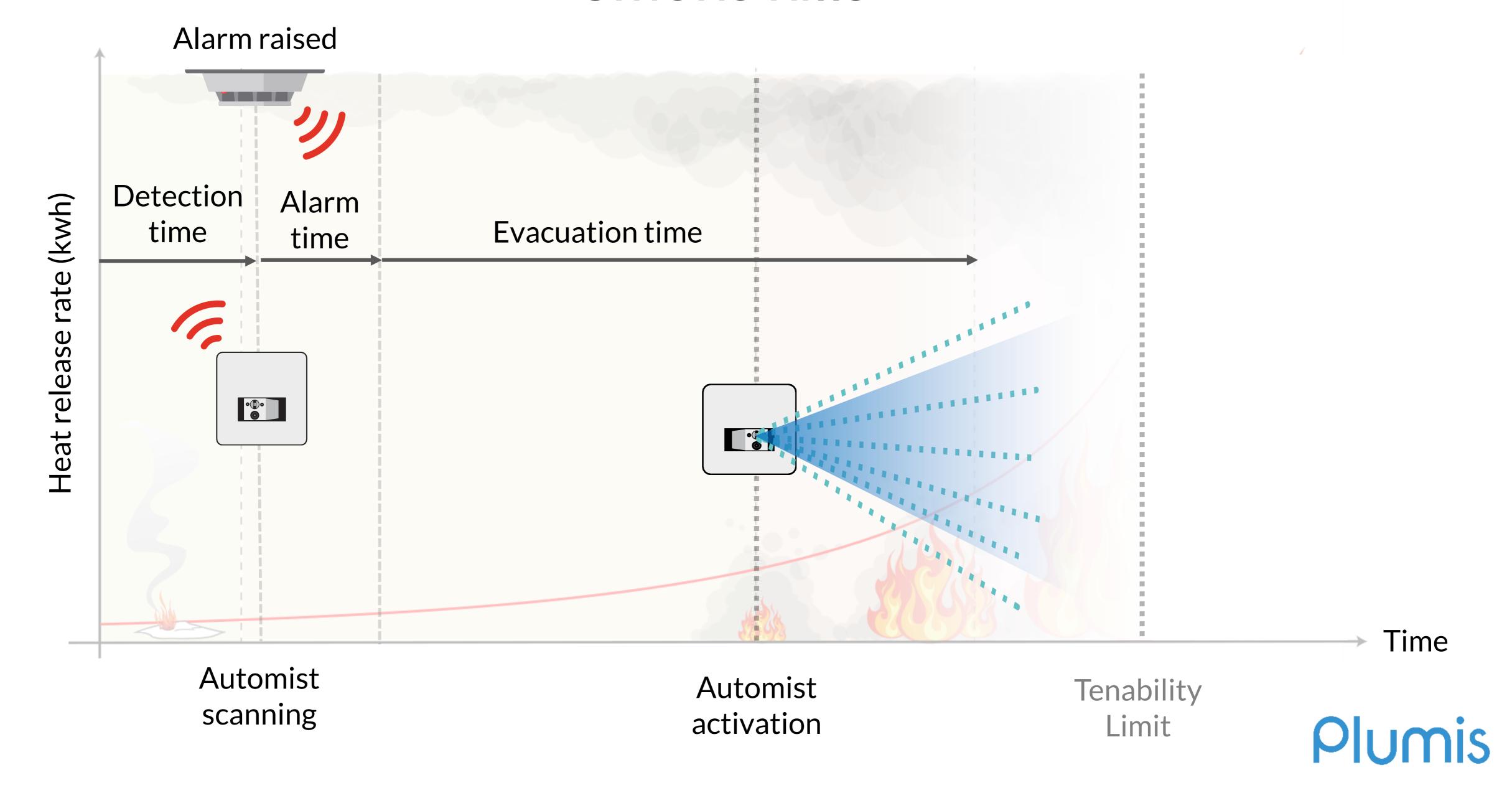
Smoke



Smoke kills



Smoke kills



Automist Smartscan Hydra

Sidewall Sprinkler



Sheltered /
Social Housing
Case Study

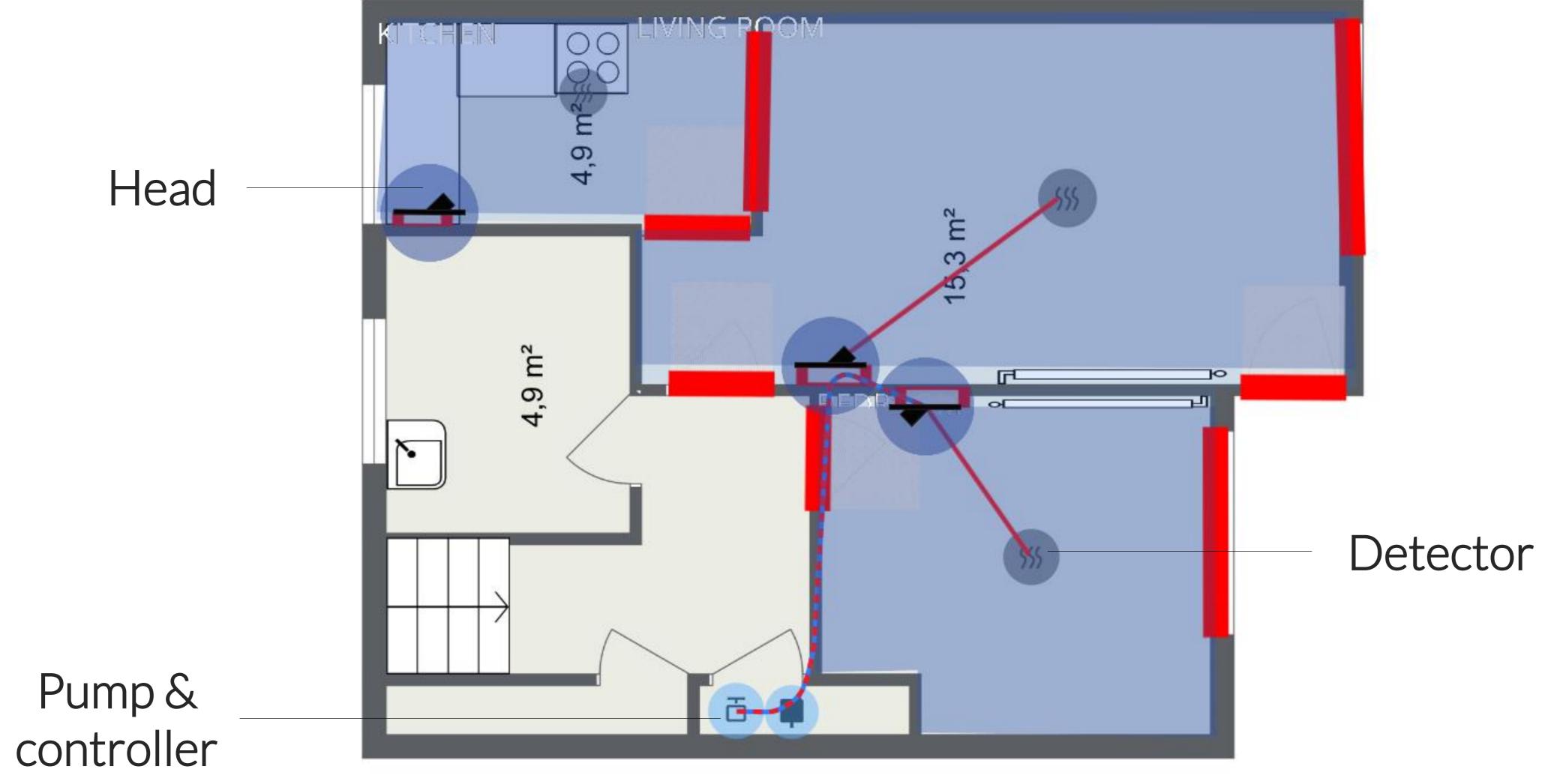


Lower water demand

Minimum Guaranteed UK Supply by the Office of Water Services (<u>OFWAT</u>)	Automist's Water Usage	Traditional Sprinkler's Water Usage
9 litres per minute	5.6 litres per minute	60 litres per minute (per nozzle)
1 bar pressure	1 bar pressure	approx. 2 bar pressure



London Sheltered housing retrofit





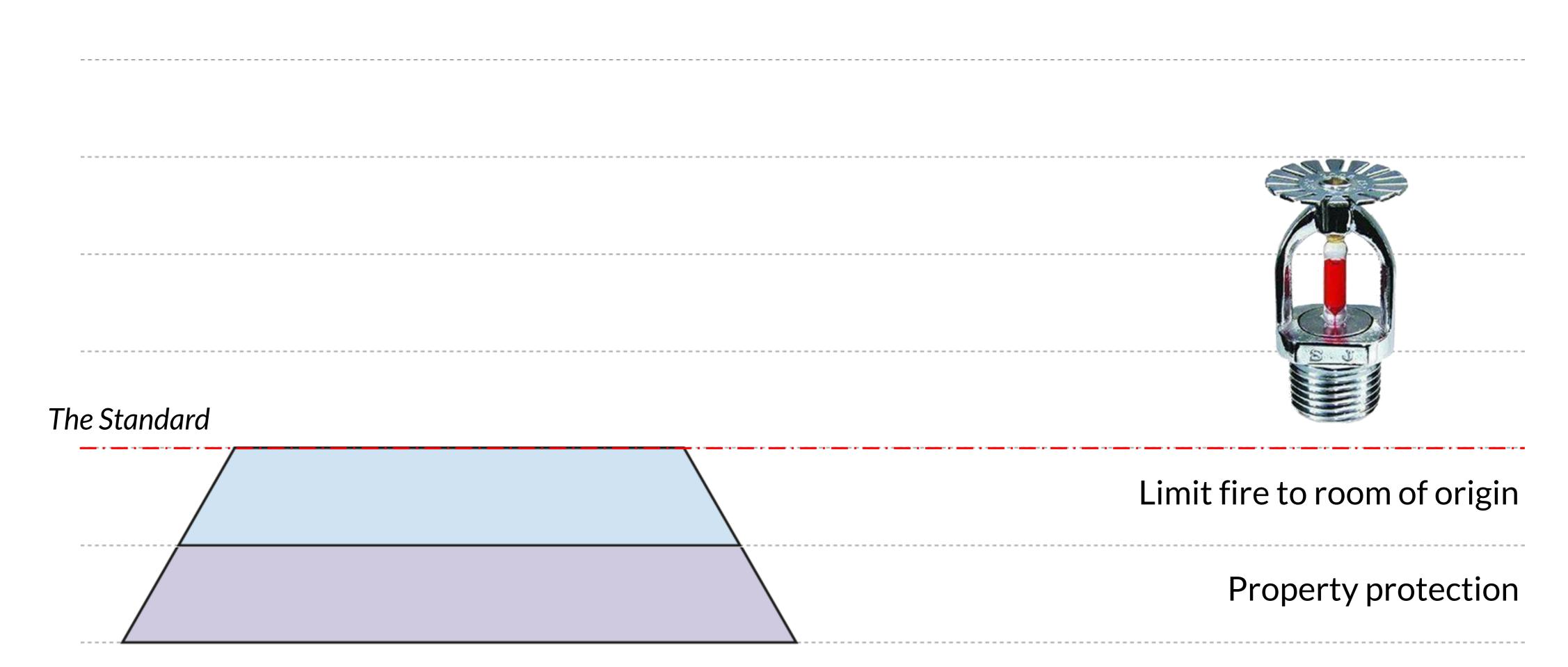
Installation





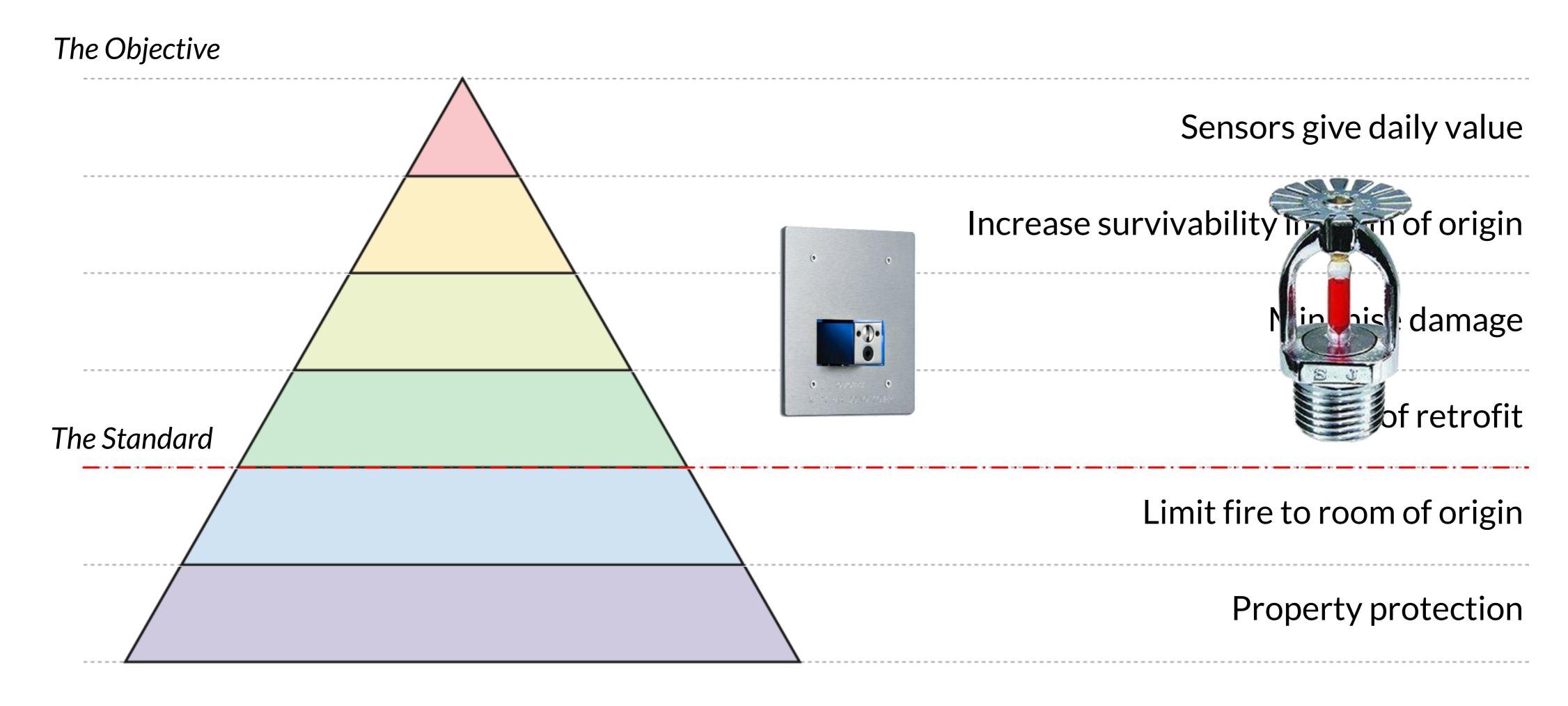


Designing for the standard





Designing for the objective, and not just the standard







Thank you for listening

For more information visit: www.plumis.co.uk