## Water Mist Systems as part of a fire strategy

Paul Bryant

## The London Underground experience



#### We do have a choice ....











### Each system has its merits .... So how do we choose?



## It's all about determining the objectives for fire safety...

It's all about strategic thinking.

PUBLICLY AVAILABLE SPECIFICATION

PAS 911:2007

#### Fire strategies – guidance and framework for their formulation







1C3 code: 13.220.01

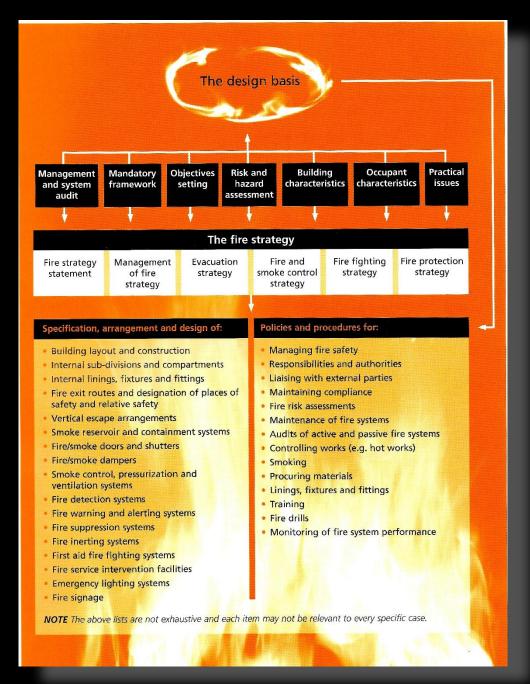
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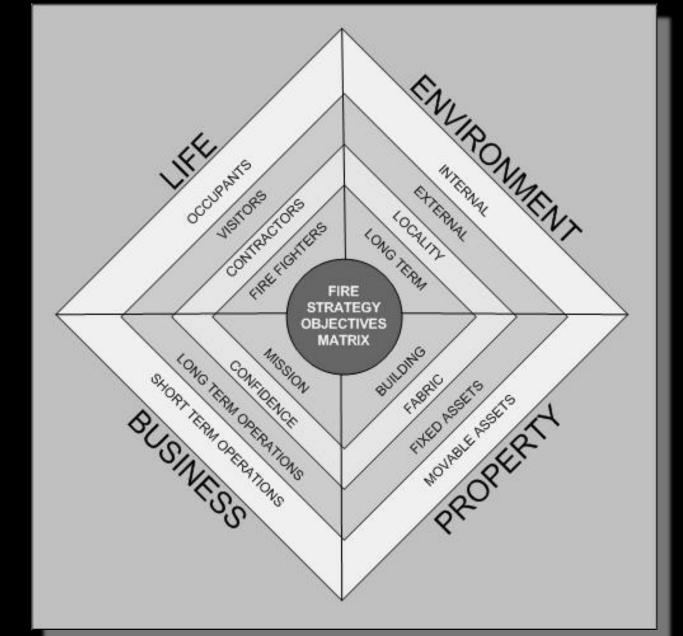
## The fire strategy applies to all buildings

- it determines the requirements for systems amongst much else.

Do not think of water mist as an alternative to other forms of fire suppression ...

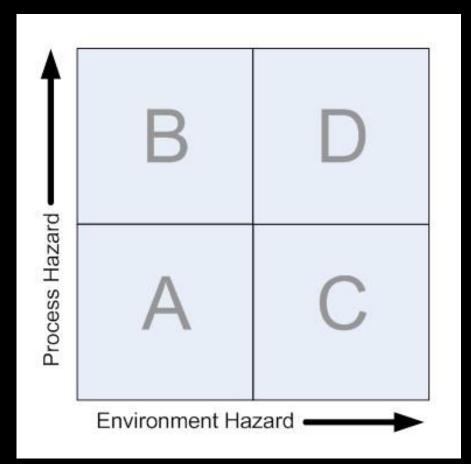
Think of it as part of the armoury of wider fire safety measures for any and every fire strategy.

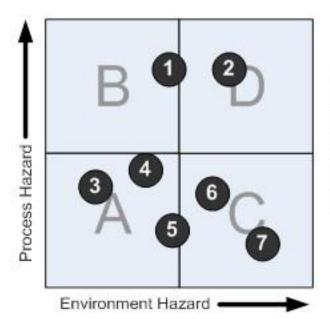




How can water mist assist with any and every of these objectives?

#### Identification of fire risk



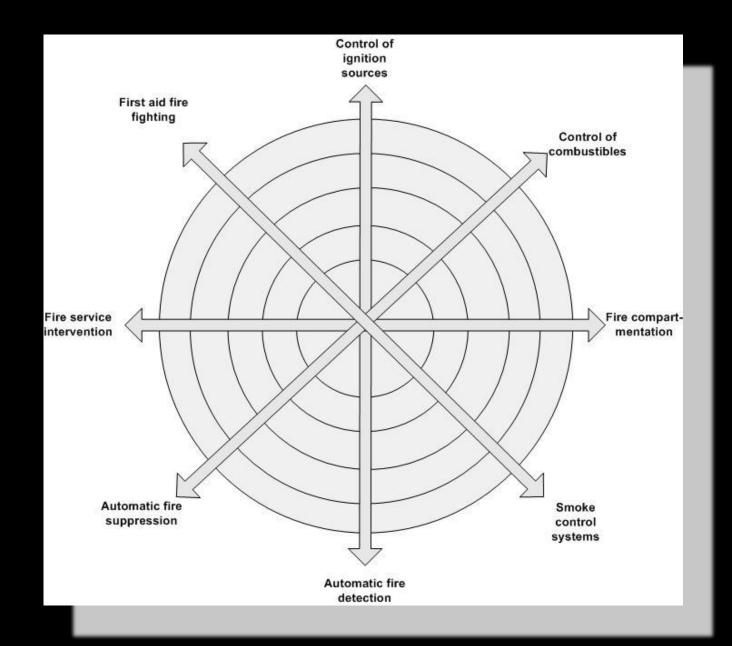


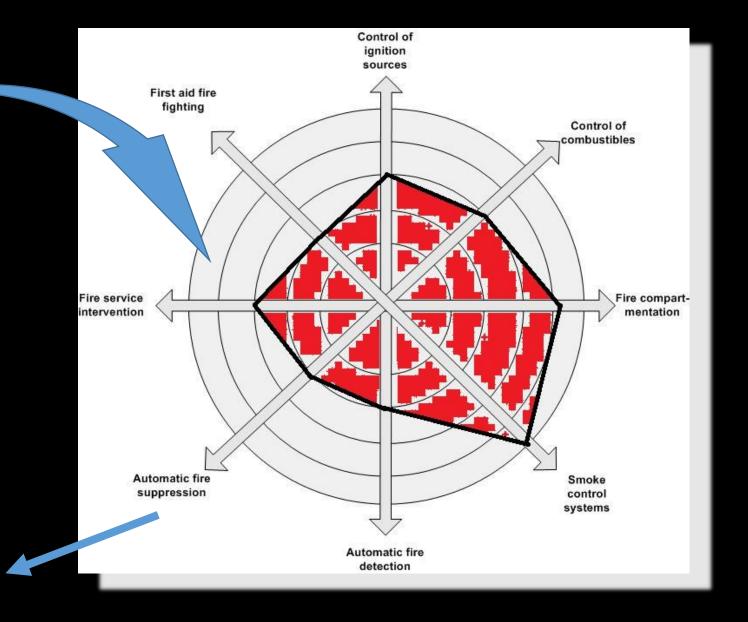
- 1 Canteen
- 2 Manufacturing Area
- 3 Office 212
- 4 Boardroom
- 5 Office 313
- 6 Archive Room
- 7 Store Room

How can water mist assist with these risks?

### We need to "picture" what the needs for a fire strategy are.

The fire strategy spider diagram ...





How can water mist assist with other strategic elements?

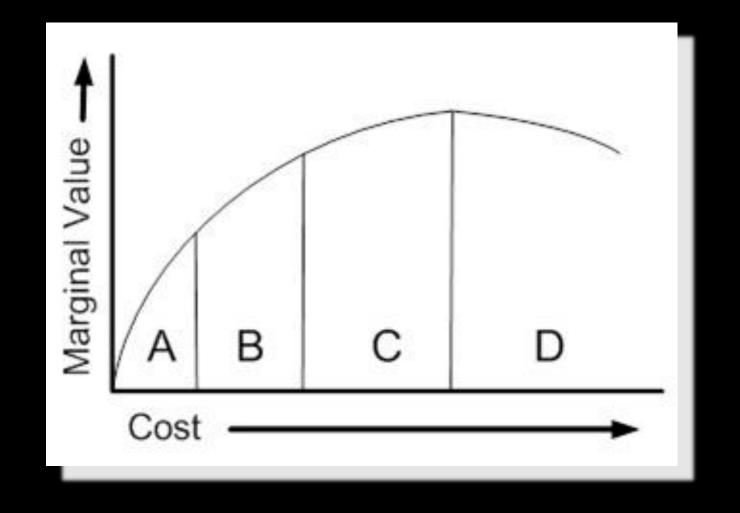
#### Objective comparison of systems ...

Criteria	Wired point type smoke detection	Wireless point type smoke detection	CCTV based point smoke detection
Performance (Score from 10)	8	7	7
	Multiply by	Multiply by	Multiply by
Logistics (Score from 7)	2	5	4
	Multiply by	Multiply by	Multiply by
Economics (Score from 6)	4	5	4
Total Score	64	175	112

Replace the types of detection with types of fire suppression.

## And of course ... we need to avoid over-engineering the strategy.

How can water mist optimise value?



# It's not just about meeting codes and regulations. It is about thinking strategically.

#### Thank You Dankjewel