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Masters Dissertation Scheme Project form



Company / Organisation Name:	West Midlands Fire Service
Team / Department:	Organisational Intelligence
Address:	

Provisional title for project:

Quantifying the parameters of the "Golden Hour" in terms of large emergency incident response.

Short description of the problem that would be addressed by the project:

The notion of a "Golden Hour" is well established within emergency response. The principle is that there is an identifiable period, within which responding agencies need to establish a set of structures. If those structures are not in place within that period, then control of the incident (and the likelihood of a successful outcome) is diminished.

We would like to investigate the creation of an evidence led, data led, quantified approach to standards for incident response across multiple criteria. In principle, this would establish a set of thresholds, drawn from previous incidents, that indicate the boundaries between good and bad outcomes. In simple terms "what do we need to have in place *by when*, at an incident, and what evidence do we have for that?"

Short description of the data sources that would be used in the project, and how they would be used

AVLS Data – GPS data for each appliance, giving location, speed, time.
Mobilisation data – details of the incident type.
Callsign data – giving status of vehicle by time.

Would any work by the student need to be carried out on site at the Company with the exception of supervisory meetings?

Not necessary, but very welcome both on fire stations, and at HQ.

Any issues of data confidentiality and IPR that would need to be resolved

Some anonymisation required on incident data, but we could potentially do that at this end.

Essential skills

GIS / Data Analysis

Desirable skills

Social science / interview / questionnaire analysis

Preferred degree programmes (if any)

Not specified, but clearly a GIS / data background would be beneficial.

Preferred selection method

Web meeting discussion.

Support and training offered by the company

Support, desk at HQ if required, visits to fire stations, working from fire stations if required.

Financial assistance offered by the company

£500 stipend

Any other comments

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If there are any questions about the 2023 programme, please contact Richard Arnold at richard.arnold@ucl.ac.uk

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