Decision Inertia

Researching what it means, how it manifests and why it occurs during critical and major incident management

Abstract

Introduction: Decision inertia is the redundant prolongation or failure to implement a high-stakes, irreversible decision which has far reaching consequences. It often occurs during emergency incidents management during ‘do or don’t’ decisions (e.g. The decision to enter a burning building or not; the decision to declare a major incident or not). Method: Firstly, a detailed literature review will be conducted to develop a theoretically driven definition of what decision inertia is. Secondly, the behavioural and verbal consequences of decision inertia will be explored to see how this psychological construct manifests in the real-world environment. Thirdly, research will be conducted to see why decision inertia occurs. Results: Data will be analysed using mixed methods both qualitatively and quantitatively. Findings will extend the theoretical understanding of decision inertia as a concept and provide practical application to assist emergency service critical incident decision making.

Introduction

Critical incidents often consist of a number of high risk, high stake, irreversible ‘do or don’t’ decisions (e.g. the decision on whether to send fire fighters into a burning building). Yet paradoxically when faced with these time sensitive, high consequence and important decisions, decision makers tend to favour inaction and continually delay their engagement with the decision process rather than commit to a choice. This is Decision Inertia: the redundant prolongation or failure to implement a high-stakes, irreversible decision.

The present research will address the current gap in the research on avoidant decision making by asking:

- What is decision inertia?
- How does decision inertia manifest in context?
- Why does decision inertia occur?

Research Q1: What is decision inertia?

Aim: To produce a theoretical model of decision inertia
Method: A Critical Interpretive Synthesis was conducted on the literature to create a ‘synthesising argument’ (theoretical model) of decision inertia. This is an iterative and dynamic approach to conducting a literature review, whereby key words and phrases are updated in response to findings and search results.

Research Q2: How does decision inertia manifest in context?

Aim: As decision inertia is a psychological construct, a live, multi-agency emergency services training exercise will be used to observe and identify how decision inertia manifests behaviourally and verbally during incident command.
Participants: Strategic decision makers across the emergency services attending a live training exercise coordinated by Merseyside Fire and Rescue service.
Procedure: Participants will be responding to a live play exercise hosted by the Merseyside Fire and Rescue Training and Development Academy. The scenario will test the interoperable response capabilities of the emergency services in response to a collapsed building incident. The scenario escalates over time to a terrorist attack with hostages being held in a separate location. During the training exercise, emergency responders on the ground will conduct urban search and rescue to save ‘victims’ (live role players) who will be hidden within the rubble pit, whilst silver and gold command meetings will be held remotely.

Research Q3: Why does decision inertia occur?

Aim: Fire officers will work through a computer simulation using audio feeds. Their decisions and experiences will be logged to figure out which factors are associated with decision inertia.
Participants: Fire officers ranging from Crew to Area Manager.
Procedure: Participants will work through a computer simulation presenting six audio feeds concerning a road traffic collision in the Mersey Tunnel. Following each audio feed they must log their key decisions and rationale and answer a rating scale to measure their perception of potential causational variables of decision inertia (as in Figure 2). In addition, participants will be split into two groups to see whether the presence of other emergency services agencies affects the likelihood of decision inertia (by manipulating one audio feed).

Figure 2: Theoretical model for why decision inertia occurs

Figure 1: Theoretical model for how decision inertia manifests in context

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