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# Fram The Functional Resonance Analysis Method Modelling Complex Socio Technical Systems

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## FRAM Model Visualiser - FUNCTIONAL RESONANCE

There is an increasing interest in utilising the FRAM approach for the analysis of what exactly is going on in complex sociotechnical systems in practical high hazard environments. There are, for example, a number of ongoing projects at the moment in

aviation, self-driving vehicles and, of course, on the challenges of the COVID 19 pandemic for healthcare responses.

[Framing the FRAM: A literature review on the functional ...](#)

FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems:

Hollnagel, Erik: Amazon.com.au: Books

### **Using functional resonance analysis method to understand ...**

This is captured by the principle functional resonance that is the basis for the FRAM. THE FRAM is a method to analyse how work activities take place either retrospectively or prospectively. This is done by analysing work

activities in order to produce a model or representation of how work is done.

[The Functional Resonance Analysis Method](#)

The Functional Resonance Analysis Method (FRAM) The FRAM has its own webpage

here: [www.functionalresonance.com](http://www.functionalresonance.com)

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Framing the FRAM: A literature review on the functional ...

## FRAM

The development of the Functional Resonance Analysis Method (FRAM) has been motivated by the perceived limitations of fundamentally deterministic and probabilistic approaches to understand complex...

(PDF) FRAM: The Functional Resonance Analysis Method ...

Introduction to FRAM: The Functional

Resonance Analysis Method Professor Erik Hollnagel University of Southern Denmark Odense, Denmark ... Principles for FRAM The principle of equivalence of successes and failures. I ... Functional resonance.

FRAM: The Functional Resonance Analysis Method: Modelling ...

the FUNCTIONAL RESONANCE.

ANALYSIS METHOD. Extending the capabilities of the FMV. There is an increasing interest in utilising the FRAM approach for the analysis of what exactly is going on in complex sociotechnical systems in practical high hazard environments.

FRAM: The Functional Resonance Analysis Method: Modelling ...

The FRAM is a method-sine-model rather than a model-cum-method. The use of the FRAM therefore involves two stages. The first is using the FRAM to develop a model of the activity (process or performance) that is the focus of the analysis. The second is to use the model to create instantiations of the activity (or performance) and then to analyse these.

Introduction to FRAM: The Functional Resonance Analysis Method

But there has not yet been a comprehensive method for doing so; the Functional Resonance Analysis Method (FRAM) fulfils

that need. Whereas commonly used methods explain events by interpreting them in terms of an already existing model, the FRAM is used to model the functions that are needed for everyday performance to succeed.

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How to build a FRAM model | [functionalresonance.com](http://functionalresonance.com)

The Functional Resonance Analysis Method or FRAM (Hollnagel, 2004 & 2012) provides a way to describe outcomes using the idea of resonance arising from the variability of everyday performance. To arrive at a description of functional variability and resonance, and to lead to recommendations for damping unwanted variability, a FRAM analysis consists of four steps:

myFRAM - FUNCTIONAL RESONANCE  
myFRAM is thus an open tool to support the applicability of the FRAM (Functional Resonance Analysis Method) for socio-technical system analysis, in line with the principles of

Resilience Engineering. myFRAM was officially released during the 12th FRAMily meeting and workshop - Cardiff (11-13 June 2018).  
Using the Functional Resonance Analysis Method (FRAM) in ...

Practice - FUNCTIONAL RESONANCE  
the FUNCTIONAL RESONANCE .  
ANALYSIS METHOD . ... a software tool that could be used to build a model and also automatically could create a graphical representation of a FRAM model. After several attempts this tool is now available. It is called the FRAM Model Visualiser (FMV).  
[functionalresonance.com](http://functionalresonance.com)

In this context, the Functional Resonance Analysis Method (FRAM) appears to be a key tool for understanding how variability spreads through a system. That is, how, by these approximate adjustments, it is possible to dampen variability, keep it within proper performance limits and see how it increases in an unusual way giving rise to functional resonance.  
Brief introduction to FRAM - FUNCTIONAL RESONANCE

About the Functional Resonance Analysis Method (FRAM) The purpose of the FRAM is to analyse how something has been done, how something is done, or how something could be done in order to produce a representation of it in a reliable and

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systematic manner, using a well-defined format. This resulting representation is effectively a model of the Fram The Functional Resonance Analysis Method (FRAM) has been motivated by the perceived limitations of fundamentally deterministic and probabilistic approaches to understand complex systems ' behaviour.

FRAM: The Functional Resonance Analysis Method | Taylor ...

The functional resonance analysis method (FRAM) is a system-based method to understand highly complex sociotechnical systems.

The FRAM Model Visualiser - FUNCTIONAL RESONANCE

FRAM: The Functional Resonance Analysis Method: Modelling Complex Socio-technical Systems eBook: Hollnagel, Erik: Amazon.co.uk: Kindle Store