

Learning from things that go right

Five years of applying FRAM in Danish Health Care settings

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'Look at what goes right as well as what goes wrong.

Learn from what succeeds as well as from what fails.

Indeed, do not wait for something bad to happen but try to understand what actually takes place in situations where nothing out of the ordinary seems to happen.

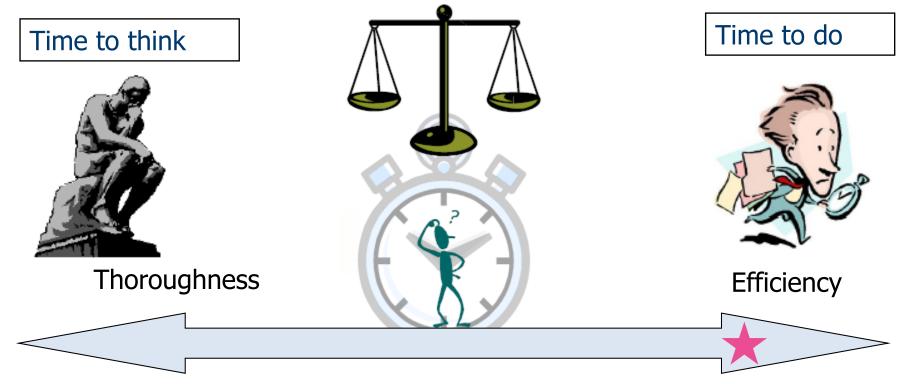
Things do not go well because people simply follow the procedures. Things go well because people make sensible adjustments according to the demands of the situation.'

Erik Hollnagel, 2013



The ETTO Principle

Efficiency-Thoroughness-Trade-Off



Adjustments



The ETTO rules

- "Looks fine"
- "Not really important"
- "Normally OK, no need to check"
- "I've done it millions of time before"
- "Will be checked by someone else"
- "Has been checked by someone else"
- "This way is much quicker"
- "We always do it in this way"
- "We must get this done"
- "Must be ready in time"





Adjustment – how do they look like?

Work-as-imagined

The GP reads the full text of the CT-scan test result

Work-as-done

The GP reads only the headings of the CT-scan test result, saving time for other patients

A habit shown to be effective and giving the wanted result normally time

ETTO rules?



Adjustments – how do they look like?

Work-as-imagined

The physicians at the Spine Centre assess the CT-scan during pre-admission

Work-as-done

The physicians at the Spine Centre normally only assess the referral of the GP and the age of the patient, not the CT-scan

ETTO rules?



Adjustments – how do they look like?

Work-as-imagined

Output from the preadmission evaluation:

- "Urgent"
- "Normal"

Work-as-done

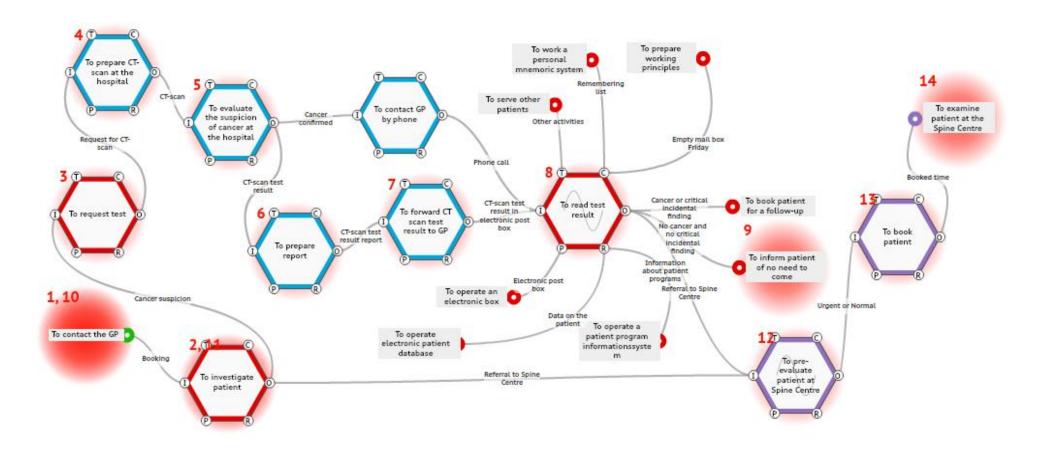
Output from the preadmission evaluation

- "Urgent"
- "Urgent +"
- "Urgent ++"
- "Urgent +++"
- "Urgent" and the doctor would go to the secretary and say: This is urgent!
- "Normal"

ETTO rules?



An ordinary day.....

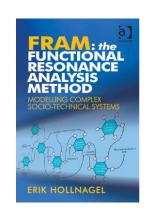




Work-as-imagined versus Work-as-done

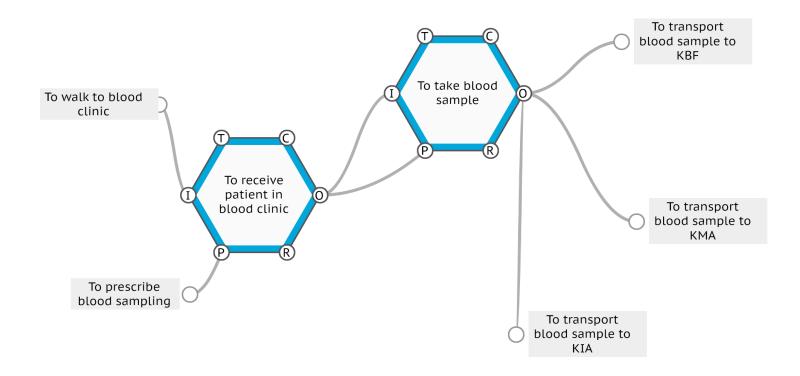
- Differences between work as it is imagined to be carried out and how it is actually done
- Work as imagined is defined
 in protocols and instructions
 or verbally by management
 or colleagues (habits)
 or by assumptions about how others work

WAI versus WAD



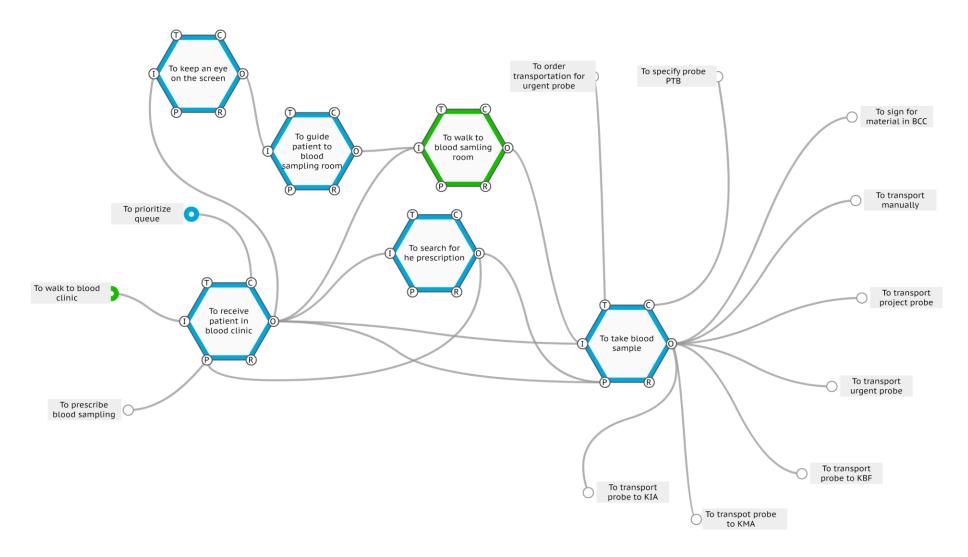


Example WAI



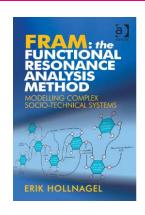


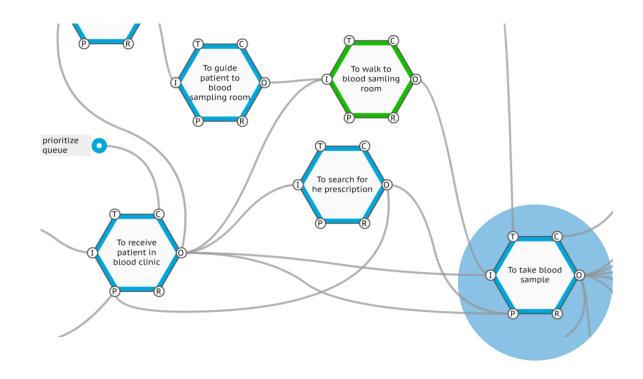
Example WAD





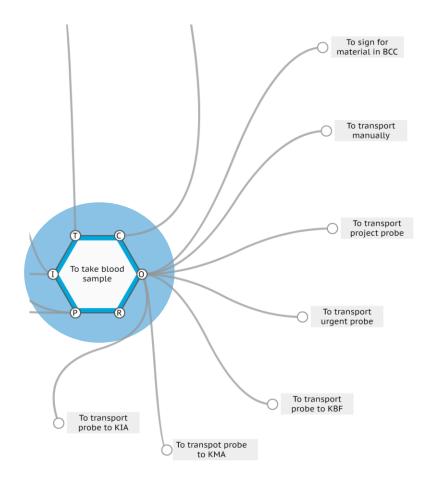
Functions that were started from more than one function and not knowing which one started the function in the actual situation

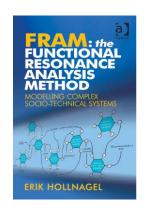




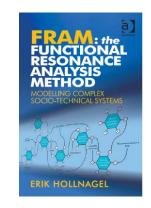


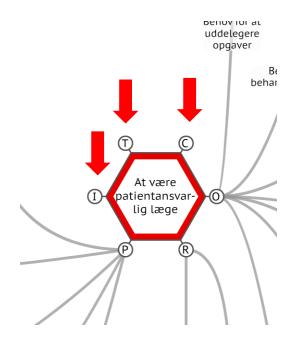
Critical functions where a number of functions are dependent on the output from the actual function





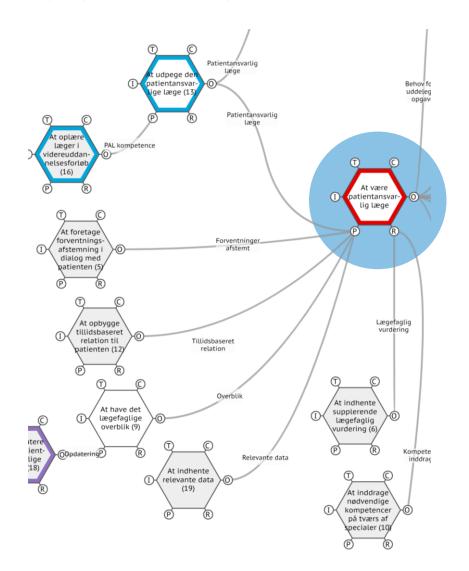


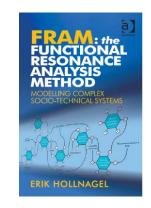




Functions with poorly defined conditions needed for the function to succeed







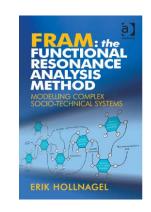
Functions with no defined start or control

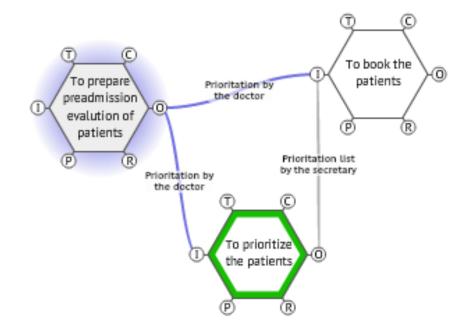
Functions where the time constraunts where not considered

A high number of preconditions, likely to result in a high variability



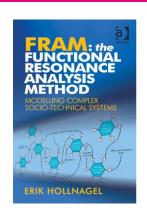
'Hidden' functions that ware not common defined but made the system work







- The use of an individual mnemonic or priority system
- The insight that these individual mnemonic systems ensure the safe and effective functioning of the system but also are catalysts for patient safety incidents
- The insight that openness about these individual mnemonic systems are necessary to dampen the potential negative effects on the patient outcome





Conclusion

- FRAM is a structured way to get information about the adjustments and the performance variability in everyday work
- The Health Care Professionals are aware of the adjustments they make and can describe them
- ...but they are not aware of how the adjustments sometimes can emerge into an unwanted and unexpected outcome for the patient (resonance)
- The FRAM model helps the Health Care Professionals to realize that even small adjustments in everyday work can lead to resonance



Conclusion

- The FRAM model can explain why an actual patient safety incident happened, not caused by a failure in the system but the performance variability of everyday work
- The FRAM model provides a detailed description of everyday work and gives a shared insight into how everyday work actually is performed
- The FRAM model helps management and health care professionals to identify opportunities for improving patient safety in everyday work and to predict the consequences of a change



The value of modelling

- Gives an overview of the complexity of everyday work
- Shows dependencies and interactions between the things we do
- Is easier to 'read' than a verbal description
- The health care professionals recognize easily their daily work in the model
- Gives management and health care professionals a common language and a common baseline to improve quality and patient safety



Thank you for your attention!

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Center for Kvalitet: www.centerforkvalitet.dk

FRAM: www.functionalresonance.com

