



University
of Glasgow

Trade-offs in connecting people to FRAM

Al Ross PhD C.Erg.HF C.Psychol

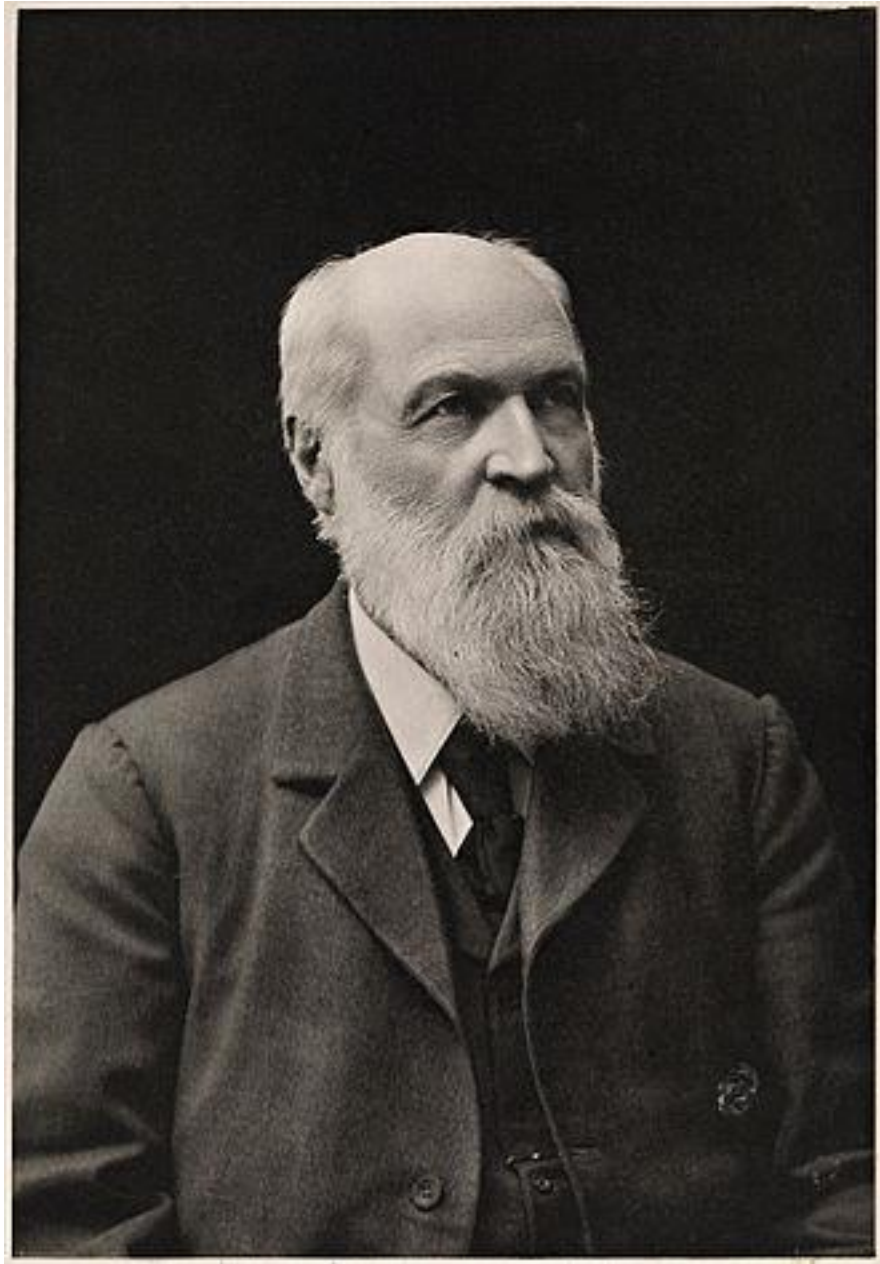
INSPIRING
PEOPLE



CARe

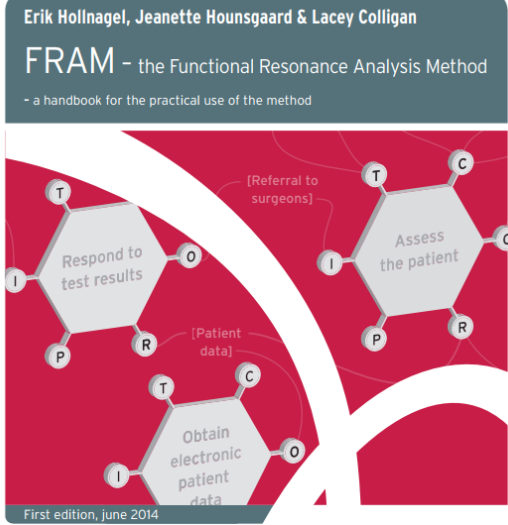
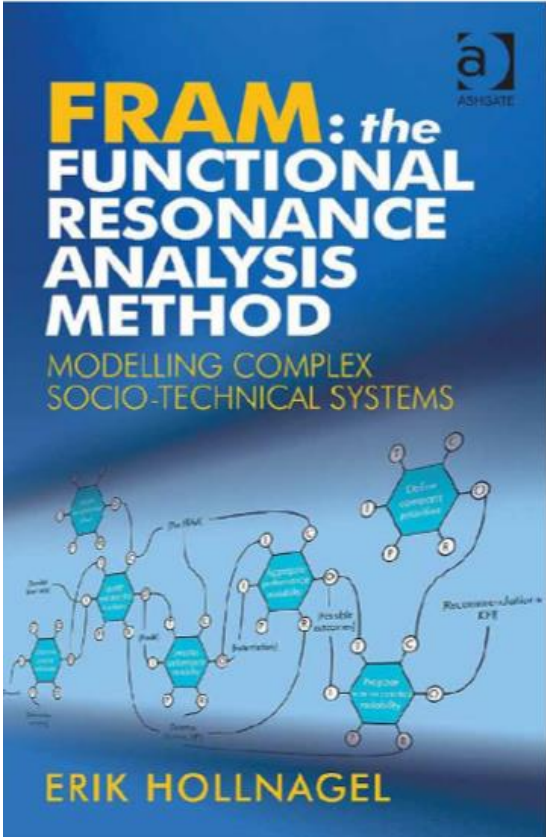


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Centre for Quality



FRAM Model Visualiser instructions

Page 1

Instructions for use of the FRAM Model Visualiser (FMV)

These instructions refer to FMV version 0.2.0 – June 2014

Background

The FRAM Model Visualiser (FMV) is the work of Rees Hill. You can find him at <http://www.zerprize.com>. The FMV now includes the functionality of the FRAM Model Builder (FMB), which therefore no longer is required to build a FRAM model.

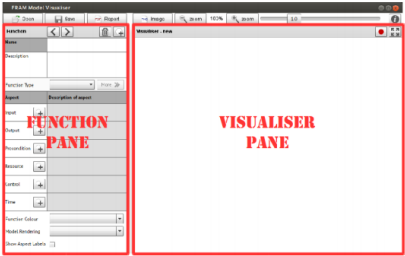
Installation

The FMV, as well as these Instructions, can be downloaded from the FRAM website: <http://functionalresonance.com/tools-visualisation/ram-visualisation.html>.

The FMV has been tested on Windows 7, Windows 8, Linux (Ubuntu) and Apple Mac. It uses Adobe Air, which should be installed first from the Adobe website: <http://get.adobe.com/air>. This will detect your operating system and select the appropriate version for download.

Layout

When the FMV starts, the following window appears:

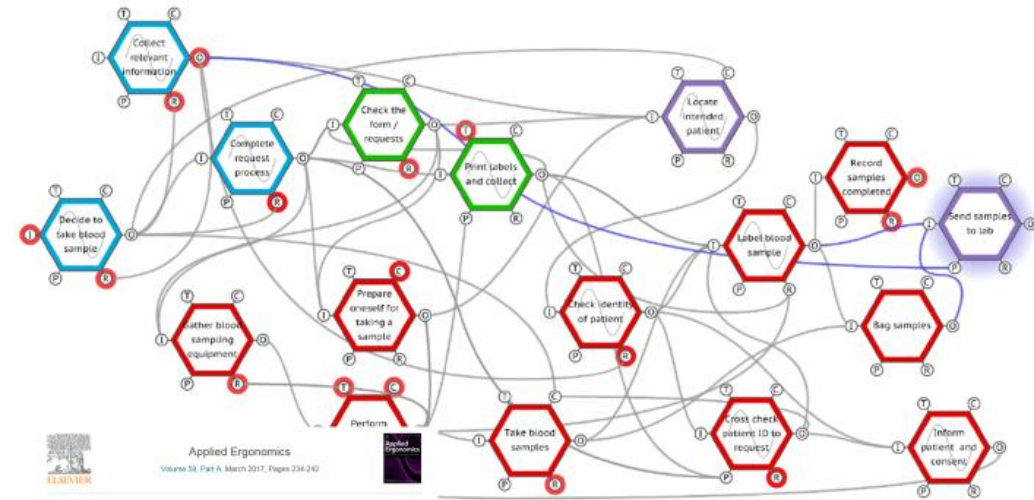


What is the good ship FRAM?

Learn from what goes right: a demonstration of a new systematic method for identification of leading indicators in healthcare

Ditte Caroline Raben ^a , Søren Bie Bøgh ^b , Birgit Viskum ^c , Kim L. Mikkelsen ^d , Erik Hollnagel ^e

[Show more](#)



Blood sampling - Two sides to the story

Laura Pickard¹ BSc, Sarah Atkinson¹ BSc, Erik Holmgren² BSc, Paul Brown¹ PhD, Sandra Gray¹ BSc, Sara Henderson¹¹ Kale Formulas #22.[Show more](#)

<https://doi.org/10.1016/j.apgeo.2016.06.002>

Out rights and codes

antiation of blood sampling in Outpatients

Clay-Williams et al. *Implementation Science* (2015) 10:125

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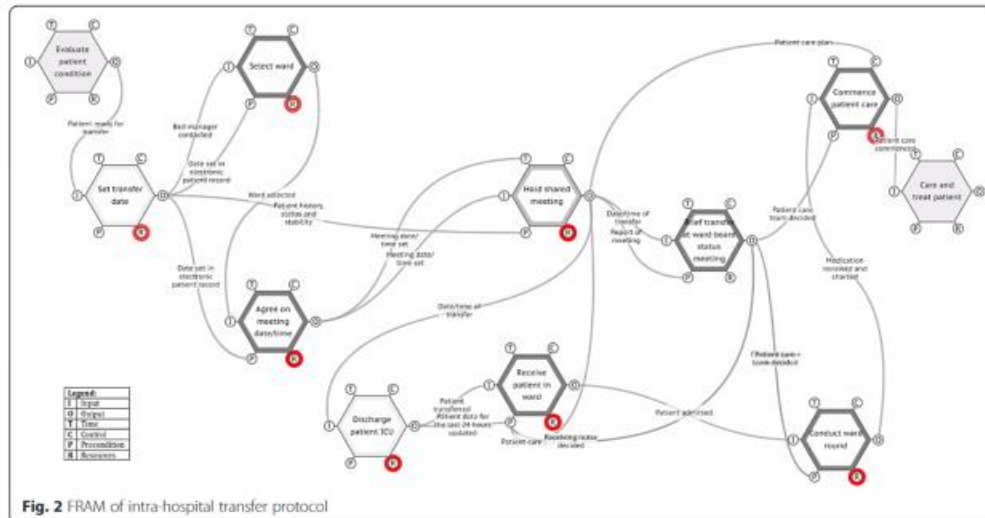
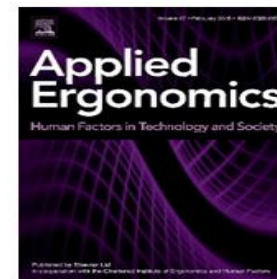
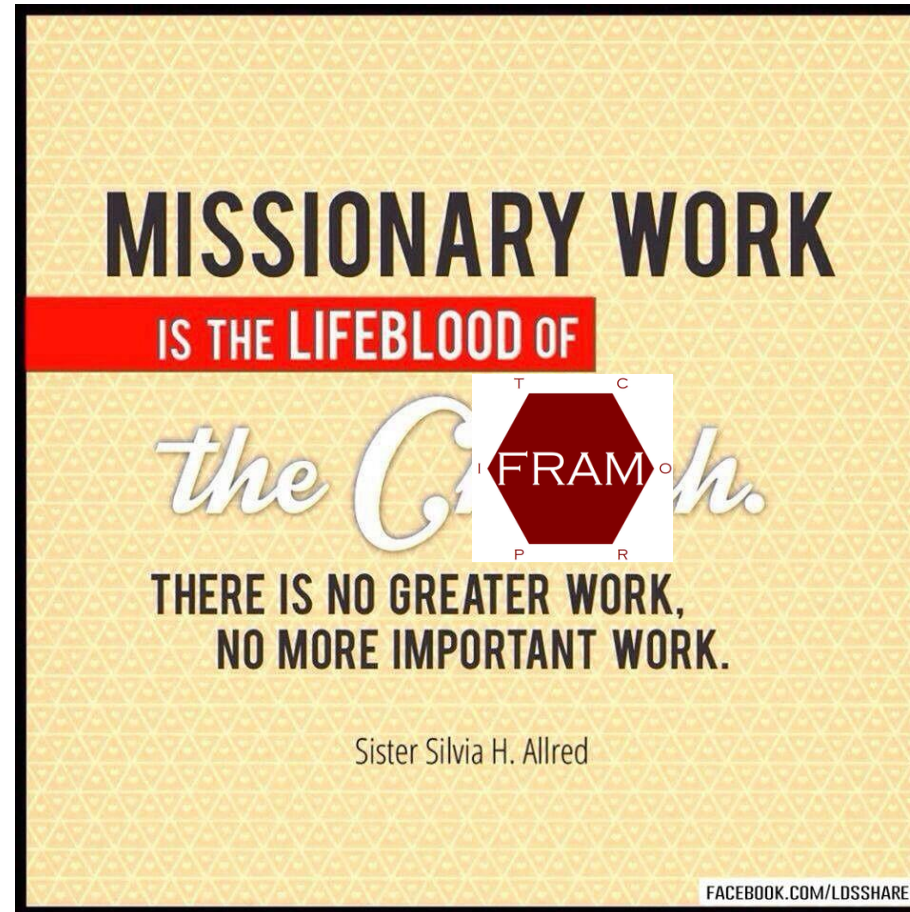


Fig. 2 FRAM of intra-hospital transfer protocol



Missionary work



Beyond pot
noodles...the
abstraction-
utility trade-off

- Simple system/ hard translation
 - Going to cinema
 - Getting cash at ATM
 - Made cup of tea
 - Going to work in am
- OR
- Hard system/ direct application
 - Results handling

*Hard to know at this stage **how useful the FRAM will be going forward***

*Interesting but **unclear transferability....***



Beyond human error...the systems theory trade-off

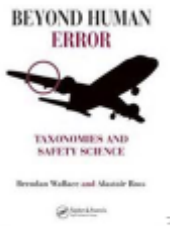
- Explains 'why FRAM'?
- Important for project aims and dissemination
- People expect technique training
- Theory takes time
- Can be too simplistic

Classic medical sociology

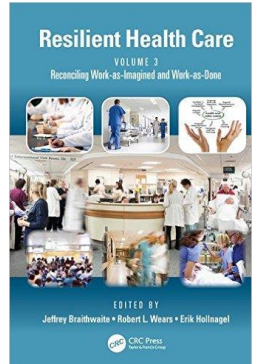
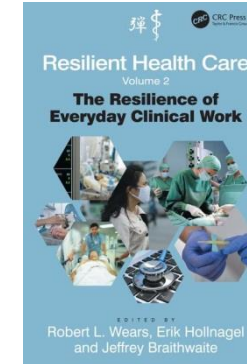
- ***hardly anyone knows all the extant rules, much less exactly which situations they apply to for whom and with what sanctions***
- ***[...] the area of action covered directly by clearly enunciated rules is really very small***

Strauss A et al. (1963)

see title verso for ISBN details

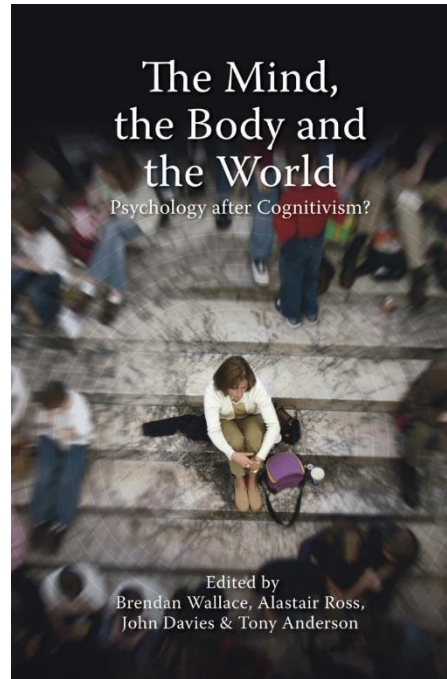


Flavours of FRAM

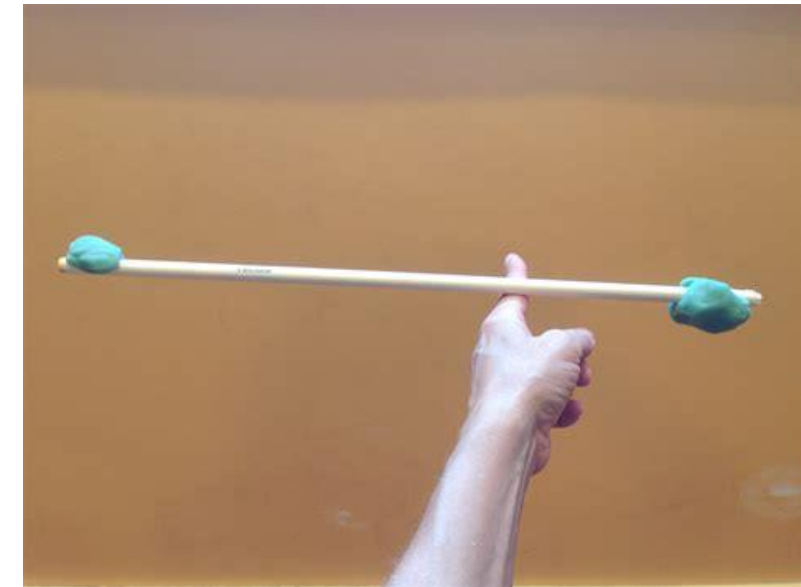
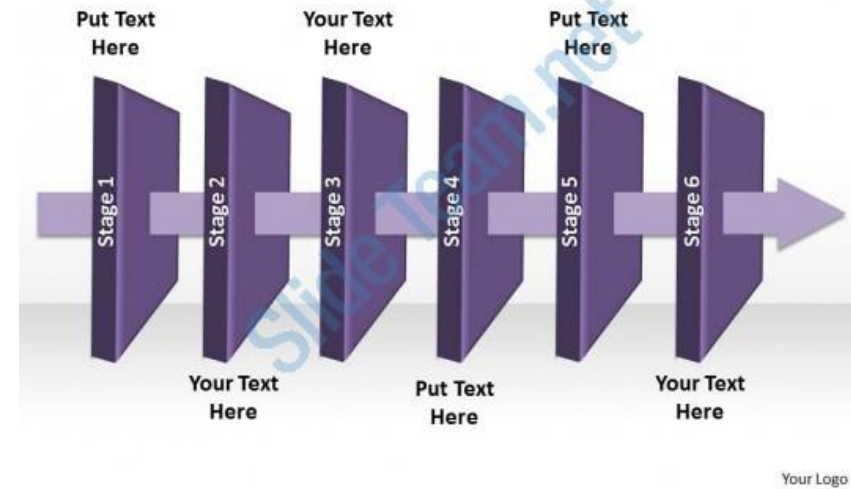


Showing complexity: the granular/linear trade-off

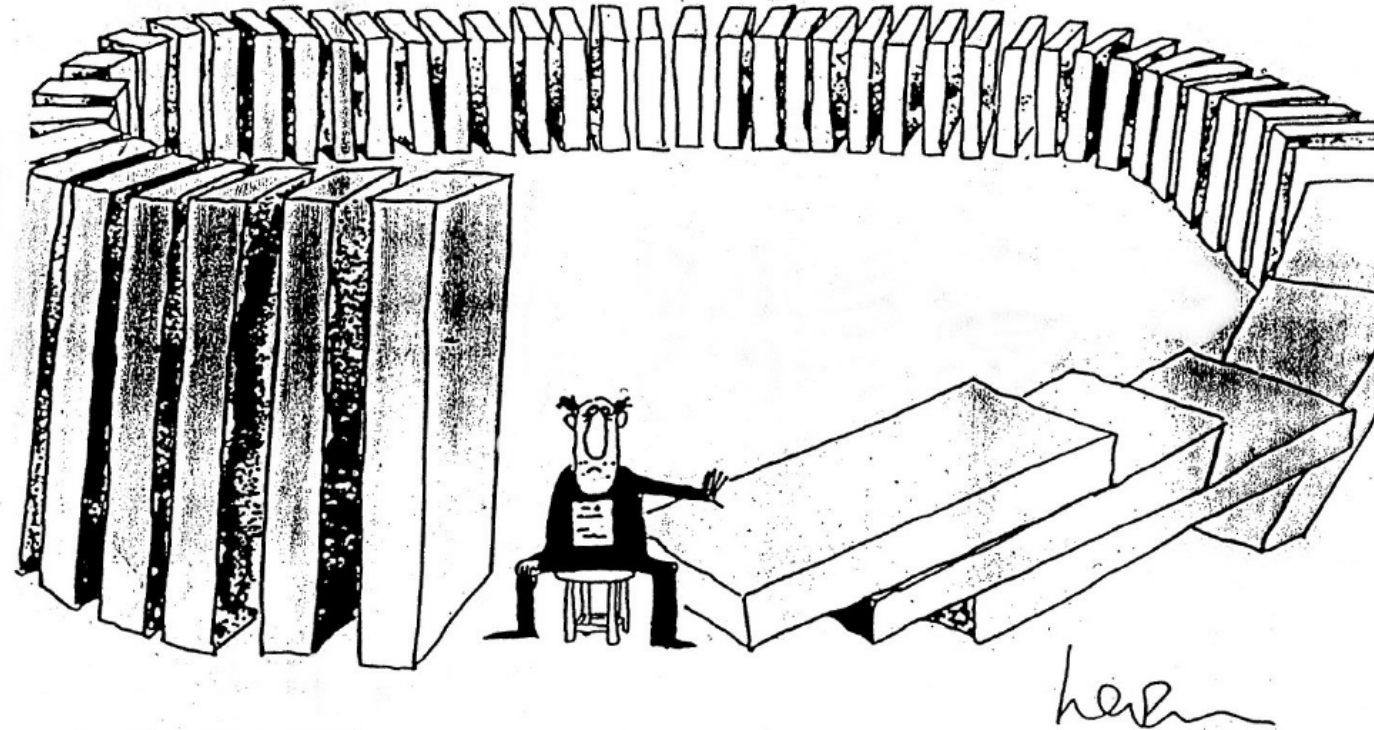
- The broader the FRAM functions, the more linear the model can appear
- The complexity is in the granularity
- But this can eventually appear trivial



Linear Process – 6 Stages



It is important to have the right model



drawing by Levin; © 1976 The New Yorker Magazine, Inc.

Getting FRAM 'wrong' ...the expertise trade- off

- E.g. THAT IS NOT A PRECONDITION!!
- People in the system are confused about the model, not the system



Showing impact:
the time and
motion trade-off

- Need FRAM
projects showing
impact
- Can seem luxurious

I liked the idea of this method
however thought it might be **quite
time-consuming to actually apply** to
smaller scale improvement projects.

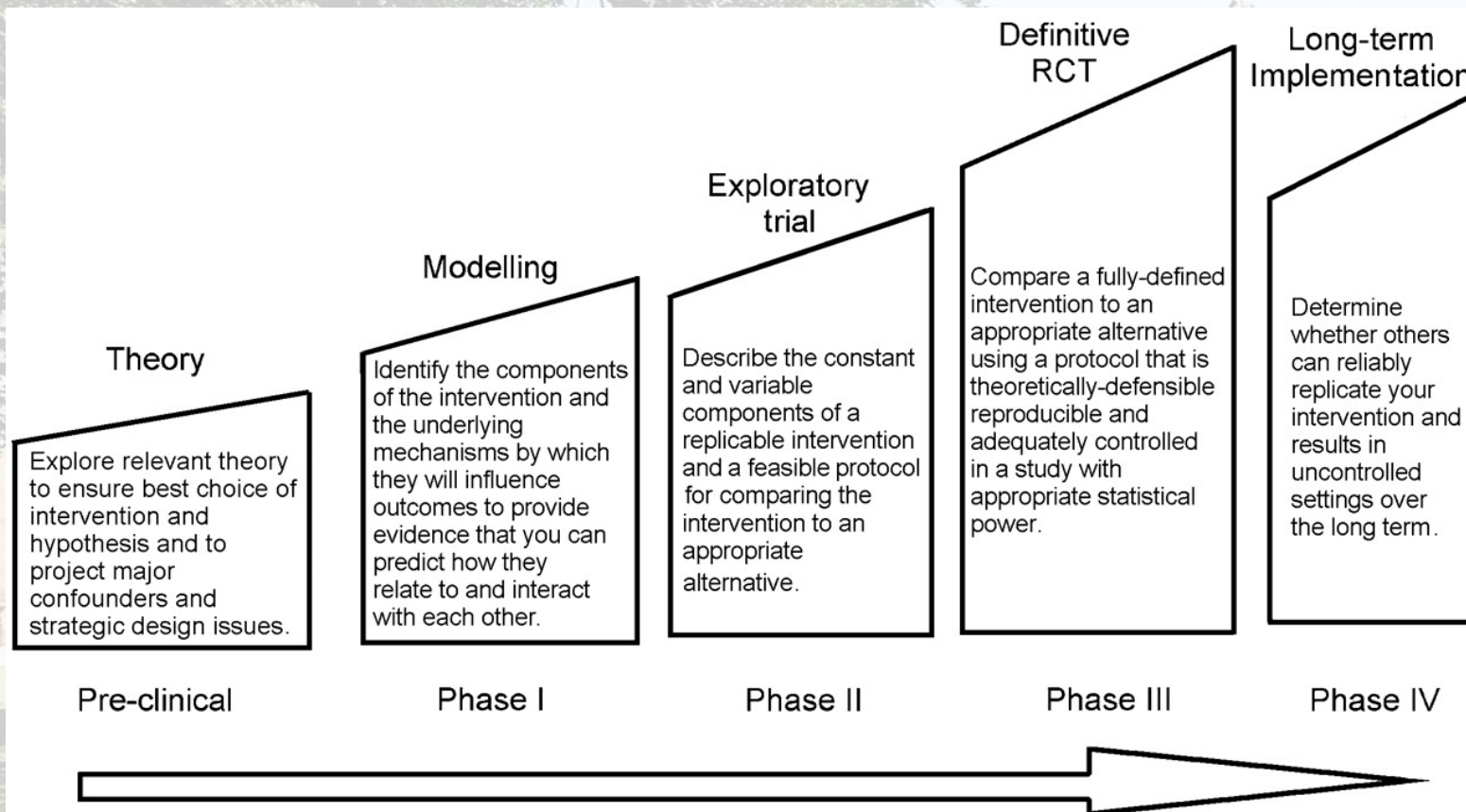
**I see the benefit over simpler process
maps but ...** not sure if I would be able
to apply this to the projects I support.



How do we begin to intervene?

MRC

Medical
Research
Council



A Systems Analysis of Fluoride Varnish Application in General Dental Practice in Scotland

Using the Functional Resonance Analysis Method

Ross AJ, Sherriff A, Kidd J, Gnich W, Deas L, Rhouma, O, Macpherson L



- **Issue: fluoride varnish application in practice is variable**
- **Simple question: why?**
 - **Draw from multiple data sources**

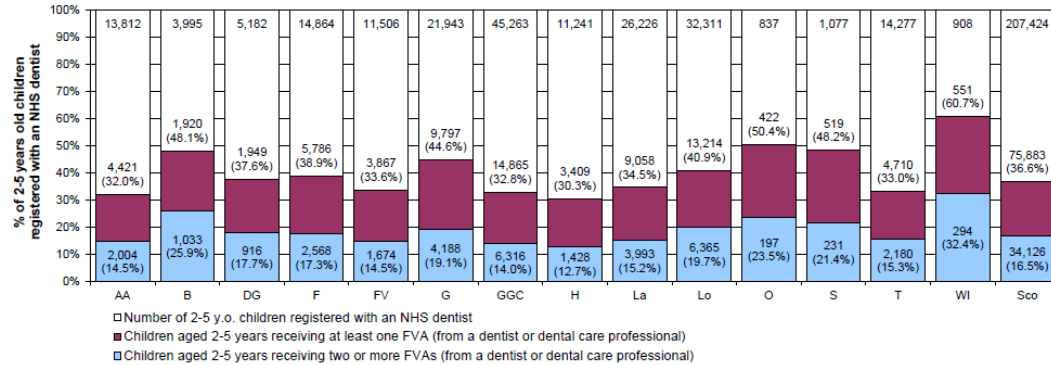


Figure 32: Proportion of 2-5 year old children registered with an NHS dentist receiving at least one FVA or two or more FVAs – Scotland, by NHS Board, 2014/2015 financial year

FVA – fluoride varnish application.

- **In 15/16 just 18% of 2-5 yr olds received the recommended twice yearly application in practice**



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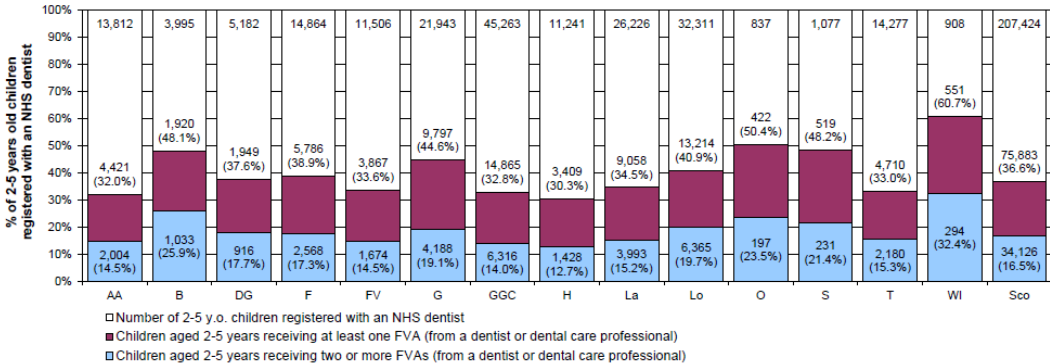


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FVA – fluoride varnish application.

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Childsmile evaluation monitoring data



Original Article
 Use of the theoretical domains framework to further understanding of what influences application of fluoride varnish to children's teeth: a national survey of general dental practitioners in Scotland
 Wendy Gnich, Debbie Bonetti, Andrea Sherriff, Shilpi Sharma, David I. Conway, Lorna M. D. Macpherson

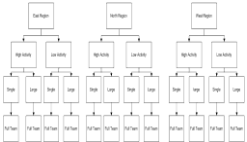


GDP surveys
 (n= 1,090; n= 709)

Workshop
 (n= 56)



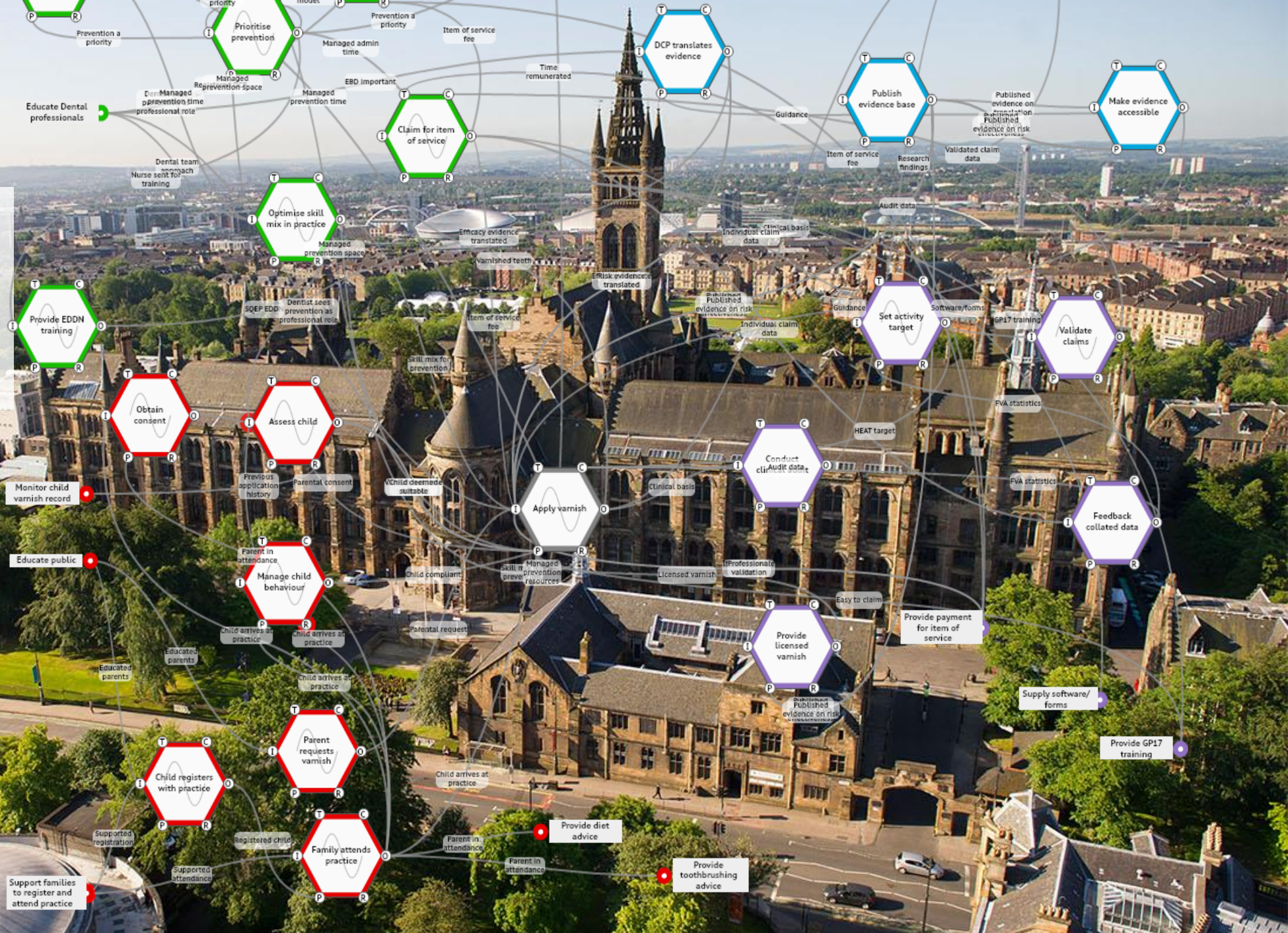
Interviews
 (n=43)





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So, the MRC
wants complex!



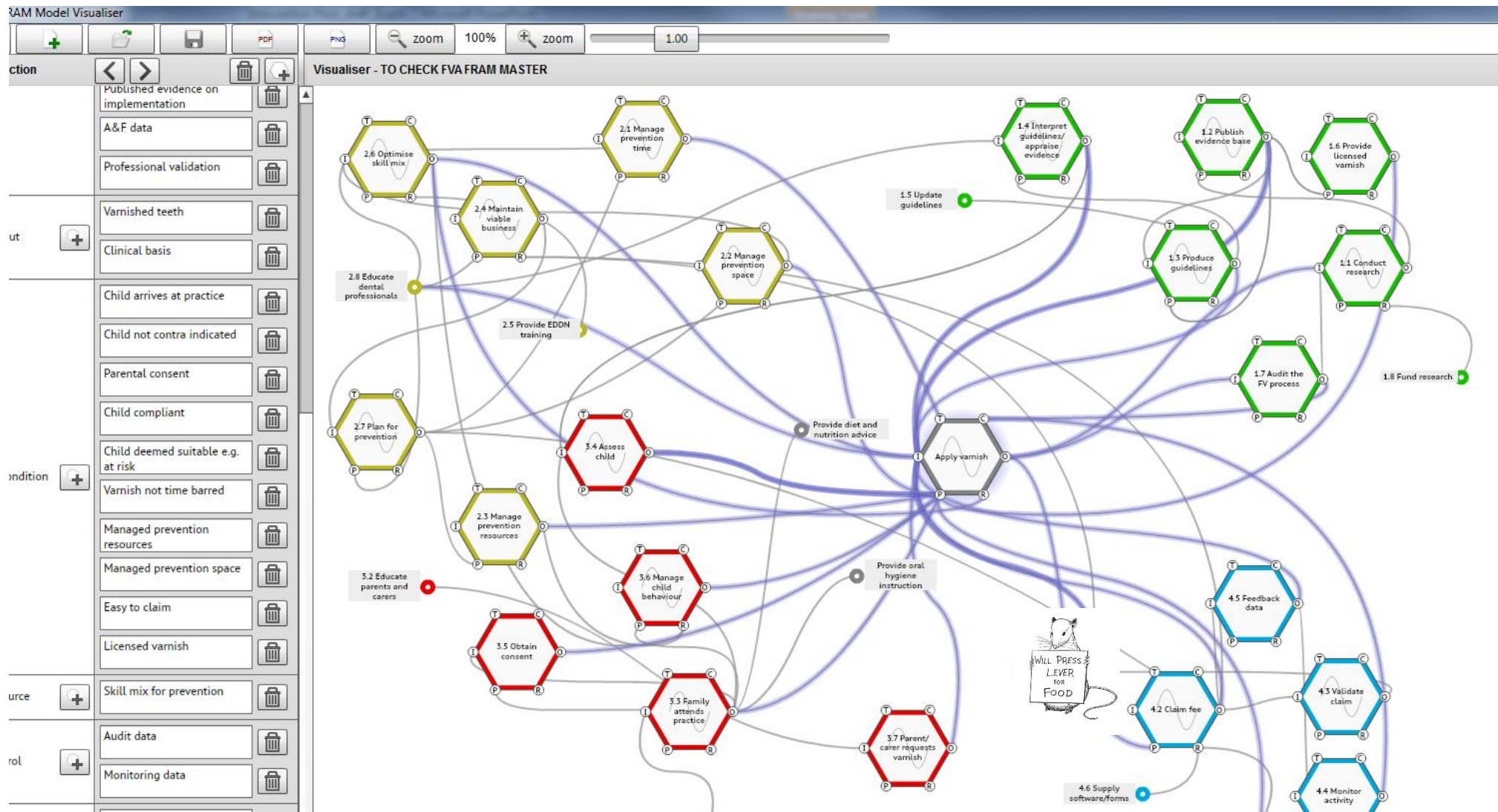
Did you need
FRAM?



A Systems Analysis of Fluoride Varnish Application in General Dental Practice in Scotland

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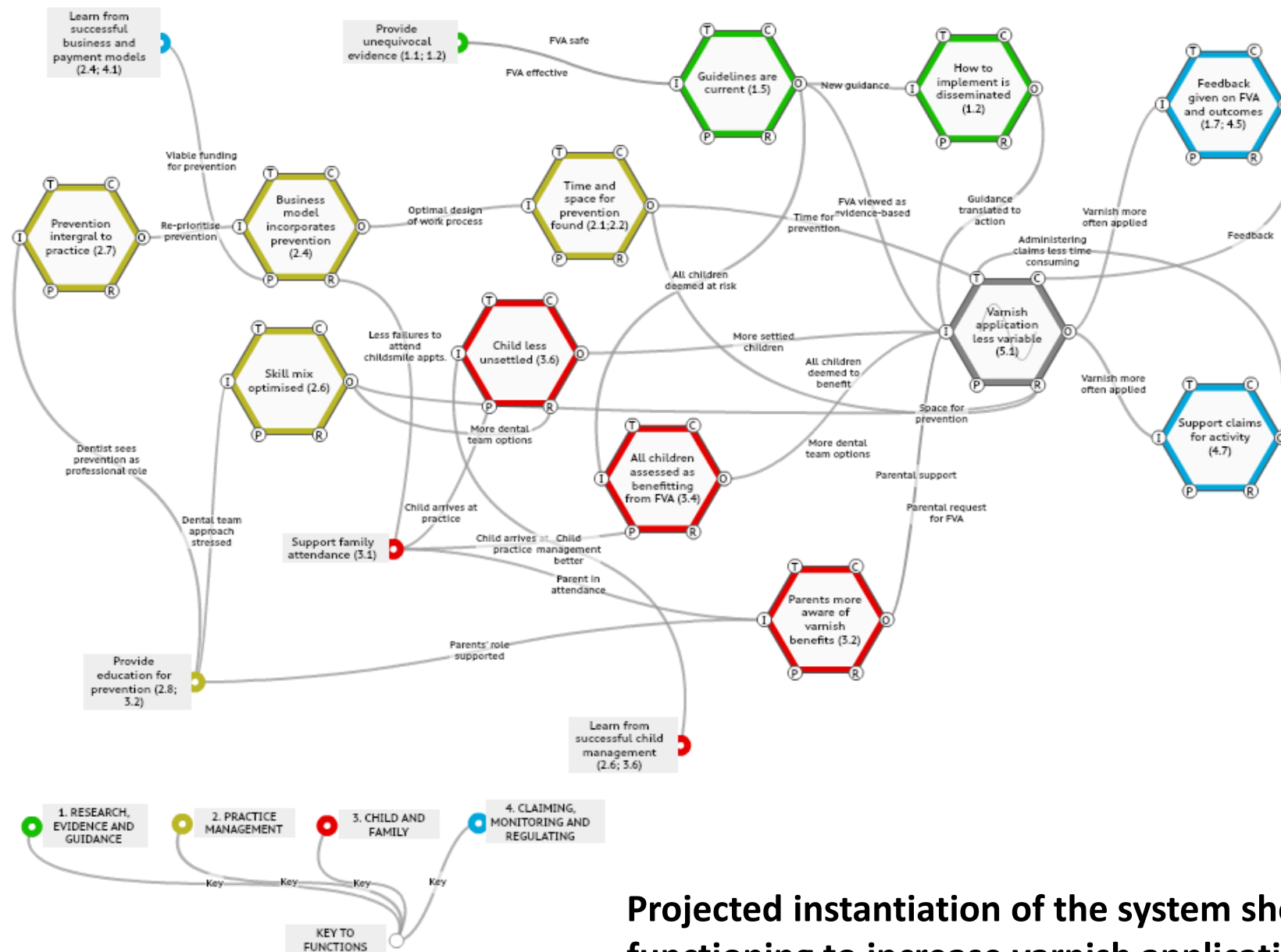
Ross AJ, Sherriff A, Kidd J, Gnich W, Deas L, Rhouma, O, Macpherson L



WARNING

Graphic Content:

VIEWER DISCRETION ADVISED



Projected instantiation of the system showing improved functioning to increase varnish application

- 95th percentile for FV applications
- Tell us how to carry out the identified activities

- 95th percentile for FV applications
- Tell us how to carry out the identified activities

University of Glasgow
CHILD SMILE
NHS SCOTLAND

FACTORS
Fluoride Application: Co-designing a Toolkit of Organisational Strategies (FACTORS)
Participant Information Sheet

Date: 06 / 06 / 2017

Dear Mr **Kieran Paulsen**
Bent Dental Practice
78 **Flouride** Street
Bent
AB45 1DT

We've a letter from Glasgow Dental School?

receive the letter because you have a **high fluoride varnish application** when compared to ISO norms for GDMs across Scotland.

in cases in children has been an ongoing focus of the
ing this goal, and contributes towards delivery of
James and NHS Scotland's Quality Ambitions
actice is not always straightforward. As part of our
and evaluation work at Glasgow Dental School, we now
attention to support this important activity. We would
and tell us about your experiences, and pass on tips for
domic.

to take part?

ussions will be digitally-recorded and should take no more than 30
to meet face-to-face in a setting of your choosing, or to proceed by
domication at Glasgow Dental School have identified a
...through these various

Consent form and contact details

I have read the information presented in the Participant Information Sheet about a study
being conducted by the Department of **Community Oral Health** at the University of
Glasgow. I have had the opportunity to ask any questions related to this study, to receive
satisfactory answers to my questions, and any additional details I wanted.

I am aware that I have the option of allowing my interview to be tape recorded to ensure an
accurate recording of my responses. I am also aware that excerpts from the interview may
be included in the reports and/or publications to come from this research, with the
my consent at any time without penalty by advising the researcher.

With full knowledge of all foregoing, I agree, of my own free will, to participate in this study.

☐ YES ☐ NO

I agree to have my interview tape recorded.

☐ YES ☐ NO

I agree to the use of anonymous quotations in any report or publication that comes of this
research.

☐ YES ☐ NO

Preferred method of contact to arrange
to take part - if not use one will contact you

Tel: _____
Mobile: _____
Email: _____

Time and date(s) of suggested availability (and location if known)
- if not use one will contact you

Time/Date/Location 1: _____
Time/Date/Location 2: _____
Time/Date/Location 3: _____

Participant's Name (please print) _____
Participant's Signature _____
Date: _____

locate time for preventive activities Managed prevention

Find appropriate space for preventive activity Managed prevention

Maintain and utilise available resources Managed prevention resources

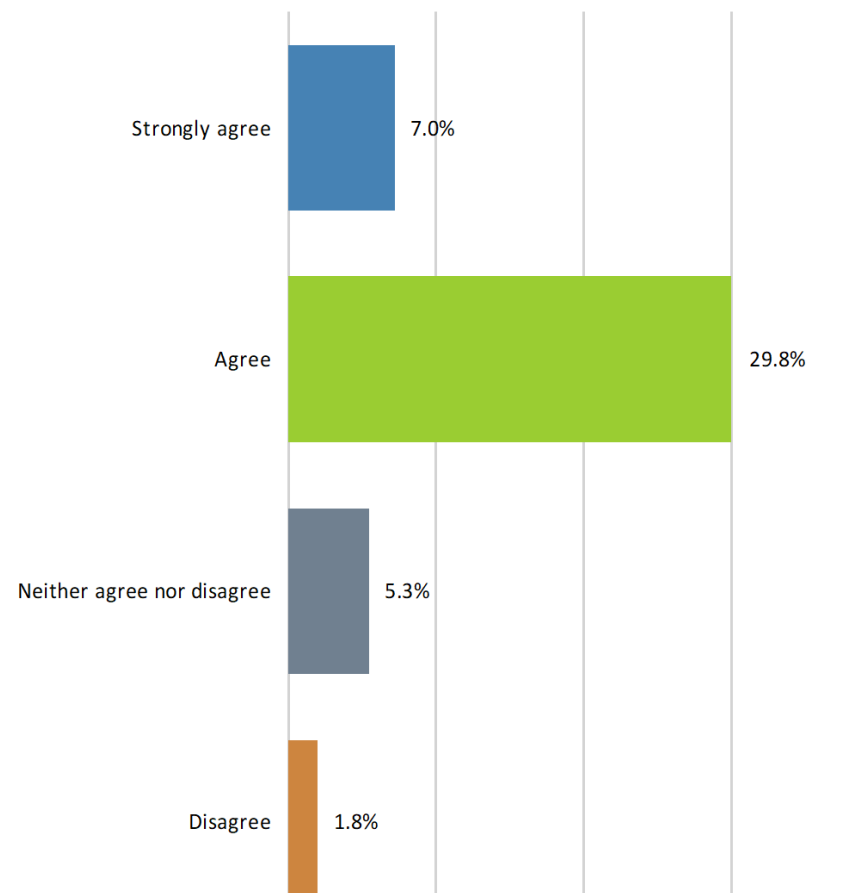
Undertake preventive activity within a successful business model

2.7	Plan prevention to be	Prevention
< Plan for	integral to practice	integral

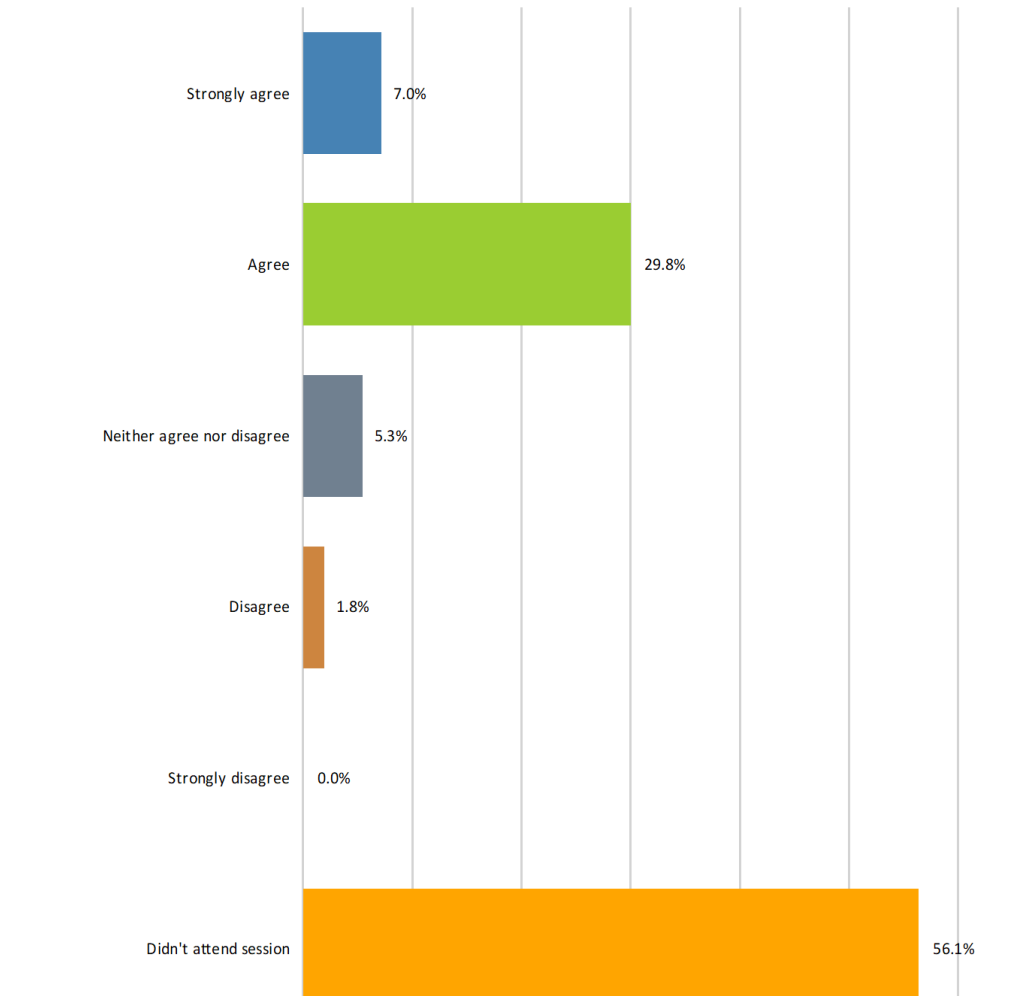


The good

1. The content was relevant to my role



The good



The work continues..

- The session was great as an introduction but before I could use it in practice **I would need more in-depth training.**
- **I think it belongs to the family of improvement tools** around process and system mapping and could perhaps be presented as part of a session on that.
- Interested to learn about FRAM, **not sure** if I will use it, is **very open ended and broad.** Always good to learn about different techniques though.



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This is a closing slide

- alastair.ross@gla.ac.uk



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The Scottish Government
Riaghaltas na h-Alba

INSPIRING
PEOPLE



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