

An Academic Health Sciences Centre for London





Collaboration for Leadership in Applied Health Research and Care South London (CLAHRC South London)



# Understanding the influence of external context factors on implementation to improve scale-up and spread of innovations across settings

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### Why external context?



"In 2013 more than 1.2 million people in EU countries died from a range of [...] diseases as well as injuries that could have been avoided through better public health and prevention policies and the provision of more effective health care. Many lives could be saved if the standards of care were raised to the best level across EU countries."



## Why external context?



"Had the relevance of the context been more fully acknowledged [...] more might have been achieved."



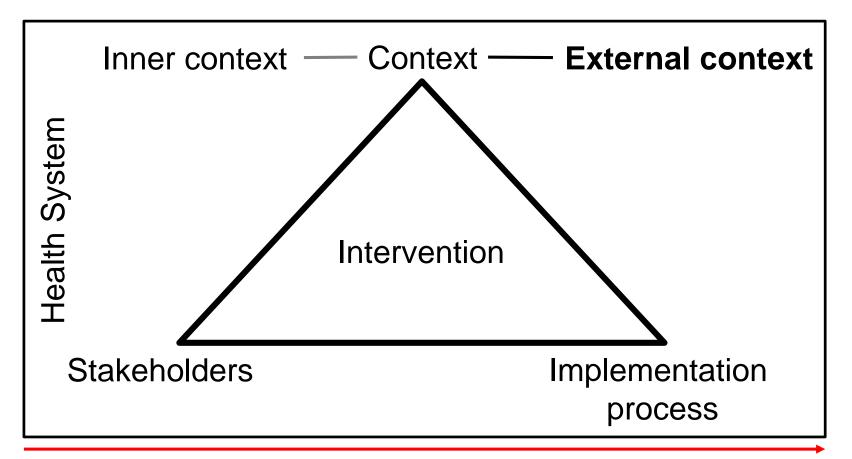


## External context is...

- ... a matter of scaling-up and transferring good practices to stop reinventing the wheel.
- ... a matter of reducing decline effect, variability and inequality when implementing interventions.
- ... a matter of implementation outcome
- ... a matter of a complex adaptive (health) system into which we try to implement something new.



## External context is...



Walt G, Gilson L. Reforming the Health Sector in Developing-Countries - the Central Role of Policy Adjusted from the 'policy triangle





How do external context factors influence the implementation of health and social care interventions into practice that were transferred from another place or are implemented in multiple places?



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### **Best-fit framework synthesis**

Carroll et al. BMC Medical Research Methodology 2011, 11:29 http://www.biomedcentral.com/1471-2288/11/29

вмс Medical Research Methodology

#### RESEARCH ARTICLE

Open Access

A worked example of "best fit" framework BMJ Quality & Safety Online First, published on 25 August 2015 as 10 1136/bmigs-2014-003642 thesis: A systematic review of views cerning the taking of some potential mopreventive agents

ner Carroll\*, Andrew Booth, Katy Cooper

**OPEN ACCESS** 

How to build up the actionable knowledge base: the role of 'best fit' framework synthesis for studies

of impro

Carroll et al. BMC Medical Research Methodology 2013, 13:37 http://www.biomedcentral.com/1471-2288/13/37 Andrew Booth, C

Medical Research Methodology

#### **CORRESPONDENCE**

**Open Access** 

"Best fit" framework synthesis: refining the method

Christopher Carroll<sup>1\*</sup>, Andrew Booth<sup>1</sup>, Joanna Leaviss<sup>1</sup> and Jo Rick<sup>2</sup>



## **Best-fit framework synthesis**

Systematic identification of frameworks

Systematic identification of primary studies



Generate a-priory framework using thematic analysis

Extract basic study data and assess study quality



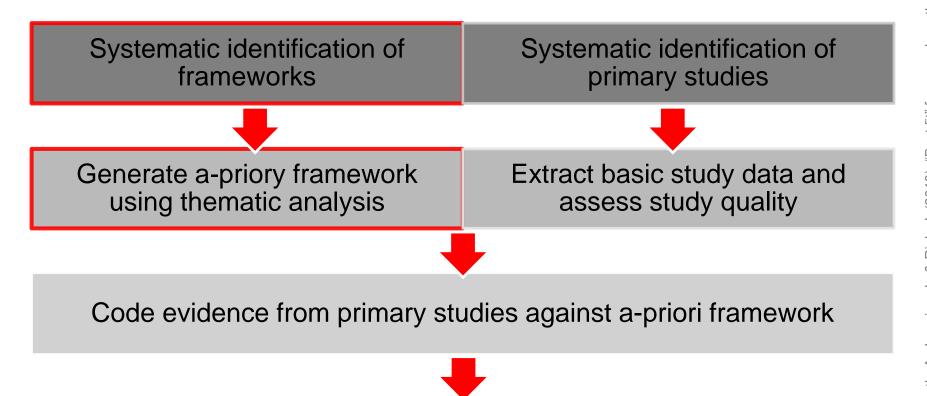
Code evidence from primary studies against a-priori framework



Enhance framework based on thematic analysis of evidence that cannot be coded against framework



## **Best-fit framework synthesis**



Enhance framework based on thematic analysis of evidence that cannot be coded against framework



## Systematic identification of frameworks

Health Information and Libraries Journal



DOI: 10.1111/hir.12108

Systematic searching for theory to inform systematic reviews: is it feasible? Is it desirable?

Andrew Booth & Christopher Carroll

Health Economics & Decision Science (HEDS), School of Health & Related Research (ScHARR), University of Sheffield,
Sheffield, UK

BeHEMoTh strategy for the systematic identification of frameworks, models and theories from the scientific literature



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## Preliminary results: systematic identification of frameworks

**Implementation** 

- Implement\*
- Knowledge translat\*
- Diffusion of innovation

**External Context** 

- Outer setting
- Structural environment
- Macro-level

Framework

- Framework\*
- Theor\*
- Model\*

Medline

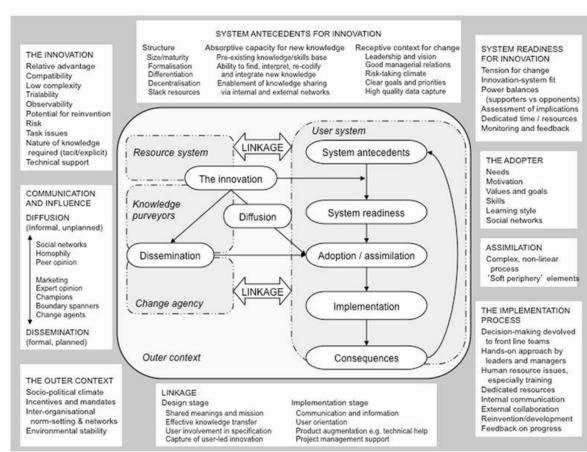
Embase

Psychlnfo





## Preliminary results: Selected frameworks - Diffusion of Innovations in Service Organizations



#### **Outer Context**

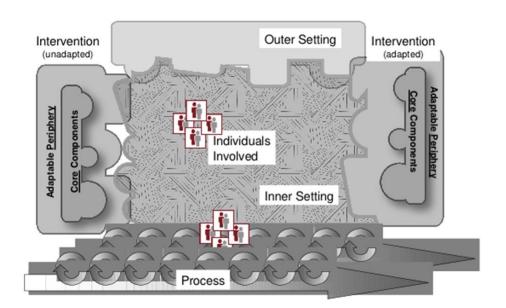
- Socio-political climate
- Incentives and mandates
- Interorganisational norm-setting and networks
- Environmental stability

Diffusion 1;82(4):581-629 Bate P, Kyriakidou O. of innovations in service organizations: systematic review and Quarterly. Macfarlane Ú Robert ecommendations. Greenhalgh <sup>·</sup>





### Preliminary results: Selected frameworks - CFIR



### **Outer setting**

- Patient needs and resources
- Cosmopolitanism
- Peer pressure
- External policy & incentives

Fostering implementation of health services advancing implementation science." Implementation science 2009 Damschroder LJ et al.



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### Preliminary results: Selected frameworks - EPIS

#### **E**XPLORATION

#### **OUTER CONTEXT**

Policies

Consumer organizations

Technical assistance centers

#### INNER CONTEXT

Individual adopter characteristics

Perceived need for change

#### **P**REPARATION

#### **OUTER CONTEXT**

Federal legislation

Definitions of "evidence"

National advocacy

Interorganizational networks

Leadership ties

Formal

#### INNER CONTEXT

Role specialization

Culture embedding

Championing adoption

#### **I**MPLEMENTATION

#### **OUTER CONTEXT**

Sustained fiscal support

Professional associations

Cross-sector

Contractor associations

Leadership

#### INNER CONTEXT

Organizational Characteristics

Priorities/goals

Receptive context

EBP structural fit

EBP ideological fit

Individual adopter characteristics

#### **S**USTAINMENT

#### OUTER CONTEXT

Policies

Federal initiatives

#### Funding

Fit with existing service funds

Public-academic collaboration Ongoing positive relationships Valuing multiple perspectives

#### INNER CONTEXT

Organizational characteristics

Embedded EBP culture Critical mass of EBP provision

Fidelity monitoring/support EBP Role clarity

Fidelity support system

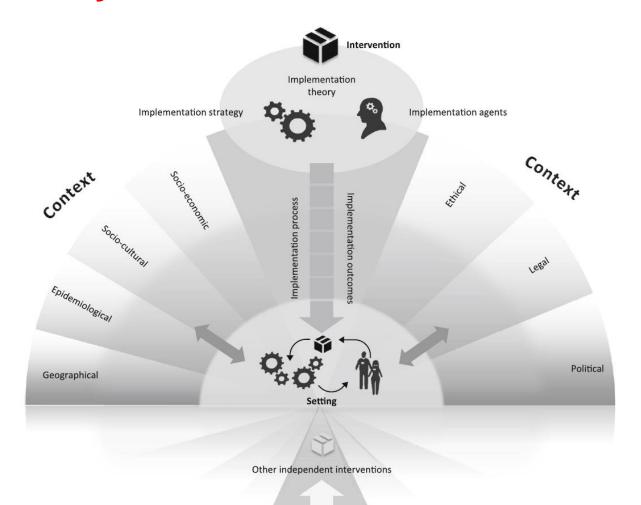
Validated selection procedures

g a Conceptual Model e Sectors. ' Services ourt, M. & Horwitz, S.M. (2011). Advancing Practice Implementation in Public Service Policy in Mental Health and Mental Health G.A., Hurlburt, M. **Evidence-Based** Administration and





### Preliminary results: Selected frameworks - CICI



Pfadenhauer LM, Gerhardus A, Mozygemba K, Lysdahl KB, Booth A, Hofmann B, complexity in context and implementation: the Context and Implementation of Complex Interventions (CICI) framework. Implementation Science. 2017 Feb 15;12(1):21. Wahlster P, Polus S, Burns J, Brereton L, Rehfuess E. Making sense of





## Preliminary results: Generate a-priori framework (thematic analysis)

## External context is...

Incentives

Ethics

Interorgasational networks

Funding

Epidemiology

Regulations

Socio-cultural context

Policy