

Developing an NIHR programme grant to examine safe staffing in ICU

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Direction of travel

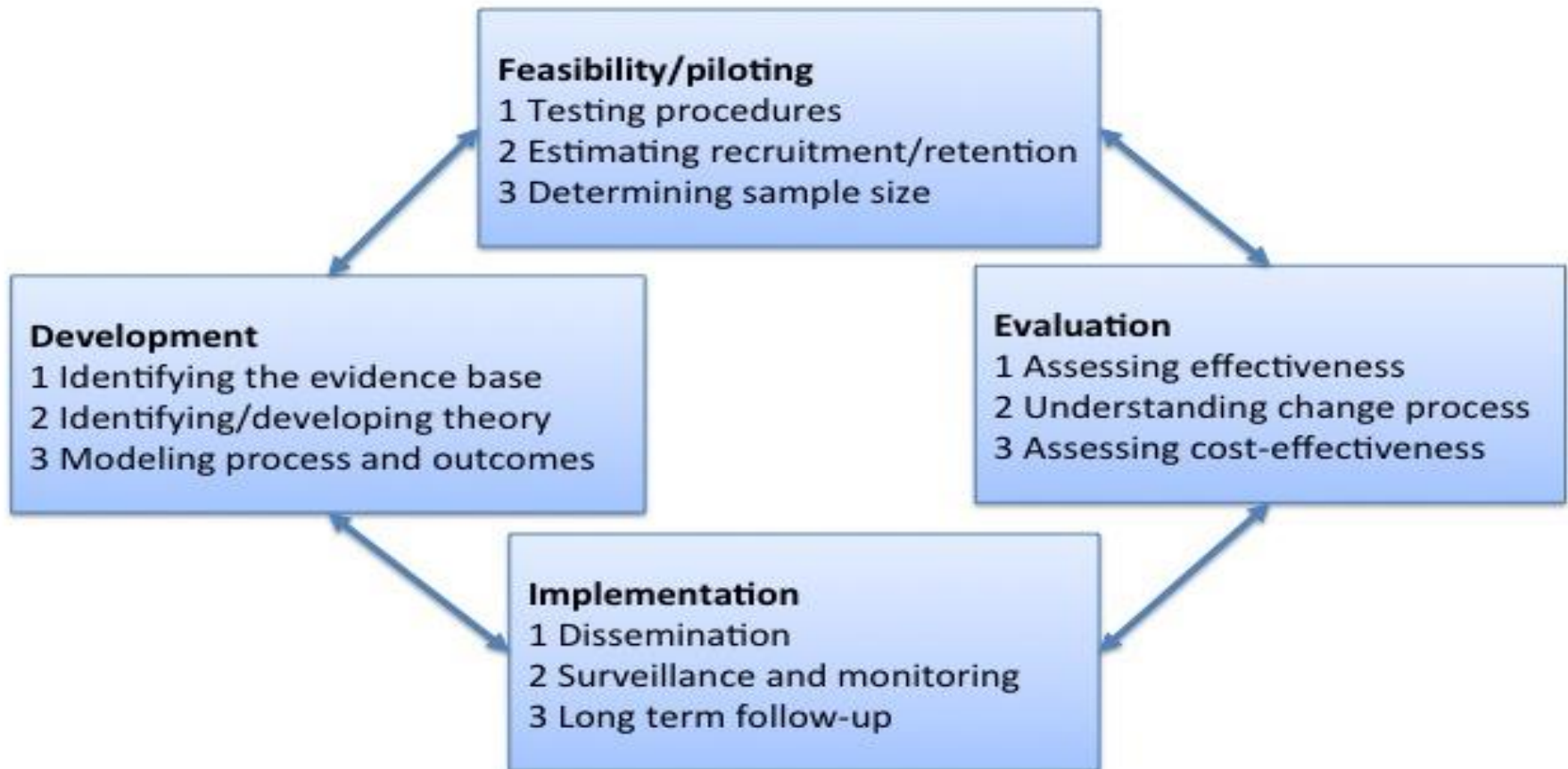
- Developing research ideas into a programme
- Seeking funding for programme components
- Building in development opportunities
- Achieving clinical and academic balance
- How to make yourself attractive to a research team
- A grant reviewer perspective...

Developing a programme of research

- Identify the eventual goal:
 - Patient outcomes improved?
- The current evidence: Systematic Review/Meta Analysis
- Theoretical context: theory building/testing
- Patient and Public perspectives (PPI) – genuine!!
- Identify the research questions/hypotheses
- Pilot and/or Feasibility studies

For NIHR use a framework e.g. MRC Complex Interventions

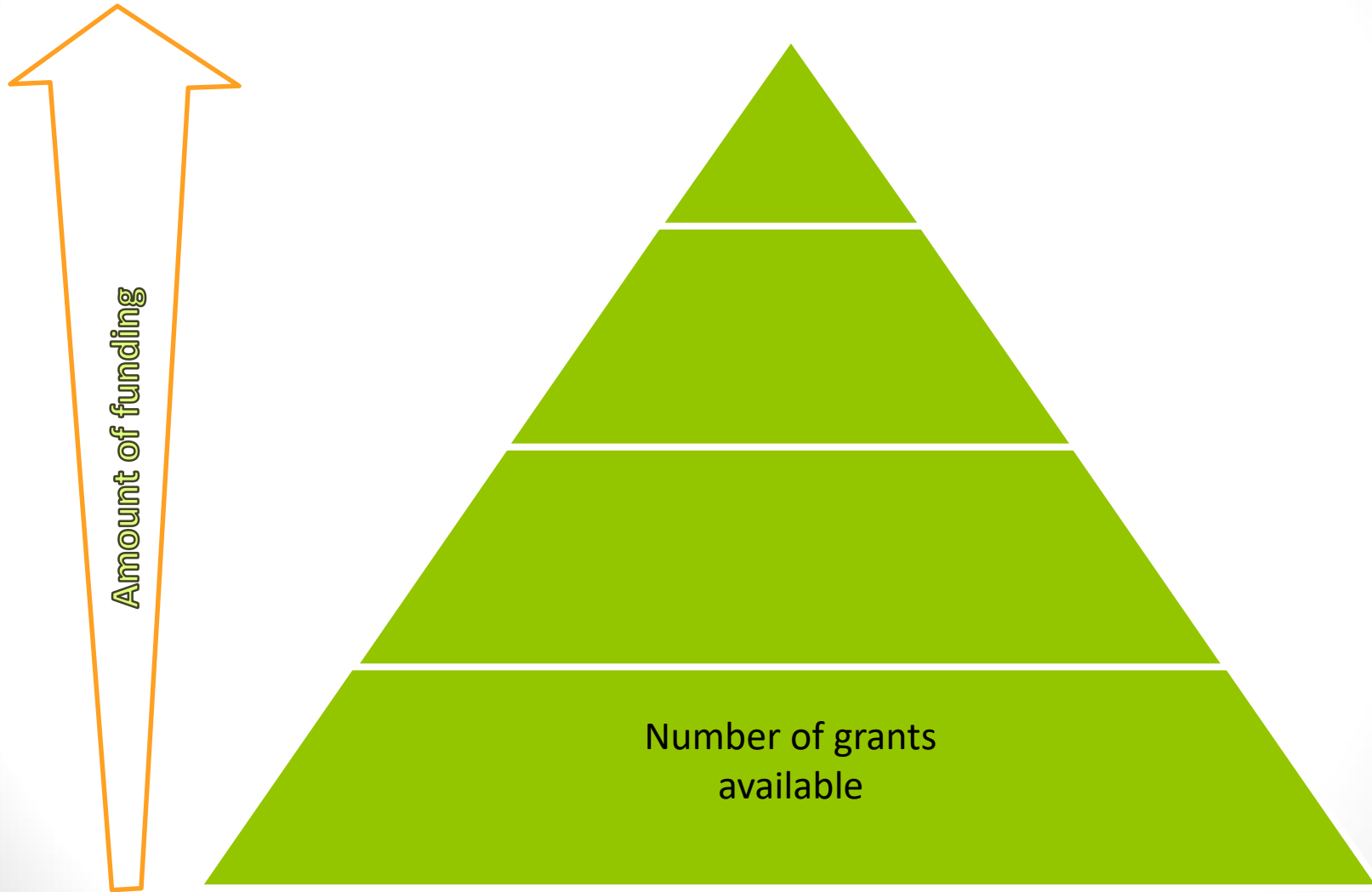
Complex Interventions Framework (MRC 2008)



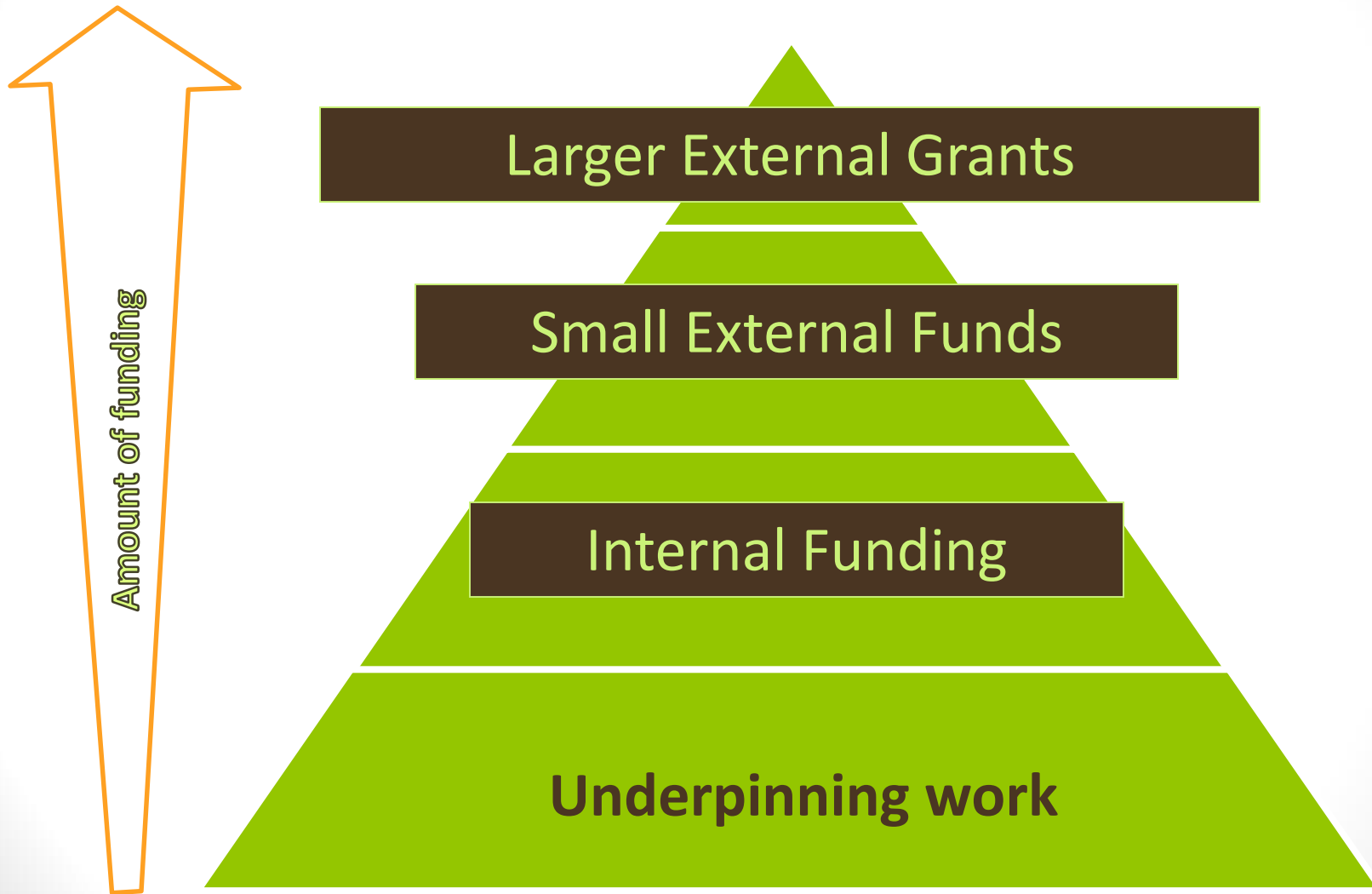
Links to wider initiatives

- NICE 'do not do' recommendations
- James Lind Alliance:
 - brings patients, carers and clinicians together to identify and prioritise the [Top 10](#) uncertainties, or 'unanswered questions', about the effects of treatments that they agree are most important
- Core outcome datasets such as the COMET initiative

Seeking funding..



Stages in the funding process



Underpinning work

- Funding 'in kind' via employer
 - Time
 - Travel
 - Stationary/IT resources etc
- Scholarships
 - Professional organisations, Trusts/charities
 - Targeted: doctoral/PG studies, topic area, travel, woman graduates
 - Methods training

Used to develop larger studies: sample size calculations; identify research questions; develop intervention

Internal grants

- Source = Employer (NHS Trust, Uni)
- Emphasise the benefits to the employer as well as you
- Indicates managerial support (explicit or implicit)
- Provides opportunities to publicise the programme activity
- ‘Funded by...’ adds a level of credibility to the work

It's worth the effort!

Small external

- Studies
- Travel Fellowships
- Projects/consultancies

Often targeted to specific areas

Focus on **support** and **track record** of co-applicants

Useful to develop team track record

Larger External Grants

- NIHR & ESRC/MRC
- Charities: BHF, BLF, Marie Curie, Cancer Research UK, Health Foundation, Wellcome

Focus on: **track record of Chief Investigator**

topic and significance, timeliness

feasibility

team track record (publishing & grants)

Successful funding applications

- ... matching project to funding source
- ... building a research team
- ... doing the legwork
- ... 'second guessing'
- ... the application

The right funding source

- Your idea or the funders?
- Match the stage of the work with the right funder (e.g. pilot work or multi-centre study)
- Expected outputs

The right team

- Track record:
 - ££s,
 - project management
 - outputs
 - profile
- Methods and stats expertise (PI/AI or honorarium)

The legwork!

- Application template
- Team responsibilities for submission
- Costings – find out about the process early on
- Former successful bids – what types of studies have been funded previously?

Second guessing ...

- Previous funding record
- Core aims of the funder (website)
- What is/isn't funded – area, methods, investigators, innovation?
- Expected outputs (publications/conference presentations or 'product')

ALL Grant applications

- The study
 - Background
 - Significance
 - Methods – level of detail depends on the funder
- Value for money
 - Costings
 - Rationale
 - Return on investment – outcomes and outputs

Background & Significance

- Establish the **general territory** (real world AND research) in which the research is placed.
- Add **policy context** – current and future
- Describe the **broad foundations** of your study, including some references to existing literature.
- A question that needs to be answered
- A problem outside of the research setting – requires a research study rather than QI intervention

answering the “so what” question!

Building in development opportunities

- Link to clinical academic pathway at the Trust
- Research capability building....
- PhD studentships nested into the grant
- Early post-doc opportunities

Developing the research team

- Clinical and academic balance: need critique!
- Clinicians with academic experience
- Methods and stats expertise
- Track record:
 - Scholar
 - Researcher
 - Grant writer

Developing your track record

- **A scholar – intellectual leader!**
 - Publications – eminent people may peer review your work Sharpens your work. First author opps.....!!
 - Engaging in debate – methods or specialism
 - Progress – single/multi/moving up the author list
 - Your ability to engage with, and advance, current debates, clinical problems, research challenges
 - Presentations
 - Grant review panels
- A researcher
- A grant writer

Developing your track record

- A scholar – **intellectual leader!**

- Publication
- Share
- Engaging
- Progress
- Your ability
- clinical
- Present
- Grant

Publication track record

- Discuss authorship at beg of project
- Be prepared for things to change
- Rules vary (1st, 2nd last etc)
- Be realistic about your contribution
- Stay in contact post-project – or you may become invisible
- Mention in acknowledgments is important

- A research
 - A grant w
- "A scientist who does not publish is like an artist who does not produce works of art"* (Vetterli)

Developing your track record

- A scholar
- **A researcher**
 - Evidence of competence
 - Relevant experience
 - Develop collaborations at an early stage
 - Co-investigator with experienced team
 - Financial and personnel management (if relevant to your intended role – Site Lead/PI...)
 - Supervision, time management
- A grant writer

Developing your track record

- A scholar
- A researcher
- **A grant writer**
 - Across the relevant lit
 - The right team, management plan
 - Command respect and trust
 - Understanding what the funder wants
 - Following the rules

Apply for funding?

- Suitability – d/w mentor
- Read the small print!
- Sign up to funding alerts (e.g. RCN bulletin)
- Get to know annual funding cycles
- Plan
- Timing:
 - don't waste time with unlikely applications;
 - avoid delays to data collection
- Think ahead: develop track record with supervisors (if appropriate to your post-Masters/PhD plans!)
- Who will benefit from study outcomes? Target accordingly

Reviewers' perspective

- Are the researchers up to the job?
- Do they have the right team, experience and infrastructure?
- Are they at the forefront nationally? Internationally?

[Medical Research Council]

Reviewers' perspective

Welcome Trust – assessment of PI track record

- *Not supportable*: the PI is not appropriate for the scheme or is not equipped to deliver the proposed research
- *Satisfactory*: The PI has a satisfactory track record and has potential for delivering the research
- *Competitive*: the PI has a very good track record and is very likely to deliver the research
- *Excellent*: the PI has an excellent track record and is highly likely to deliver the research
- *Outstanding*: the PI has an outstanding track record and is highly likely to deliver the research

Reviewers' perspective

NIHR Clinical Doctoral Research Fellowship scheme

- The applicant
- The supervision team
- The programme of work
 - **The study**
 - Academic training
 - Clinical training

[Medical Research Council]

Summary

- Takes time to develop research programmes
- Worth the investment...
- Lengthy application process
- Genuine PPI is essential for NIHR (*if not, why not?*)
- Building blocks are essential
- Team is as important as the research

Questions?

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