



Using conjoint analysis to validate SAGE: A tool to measure research use in health policy/program development



Outline

- Introduction
 - Benefits and importance of measuring research use in health policy making
 - Developing a measure and system to score research use
 - Aims and benefits of developing a valid scoring system
- Method
 - Using conjoint analysis to develop the scoring system
- Findings of the conjoint analysis
- Discussion
 - How to use the scoring system
 - Positive implications of this scoring system
 - Next steps

INTRODUCTION



Measurement of research use

- Policymaking: complex process
- Calls for decision makers to incorporate more research into the development of health policies and programs
 - Reduce health spending ↓
 - Improve health systems ↑
 - Improve health ↑
- If we can measure research use -organisation can evaluate their progress towards this goal
- Current measures: few and have limitations



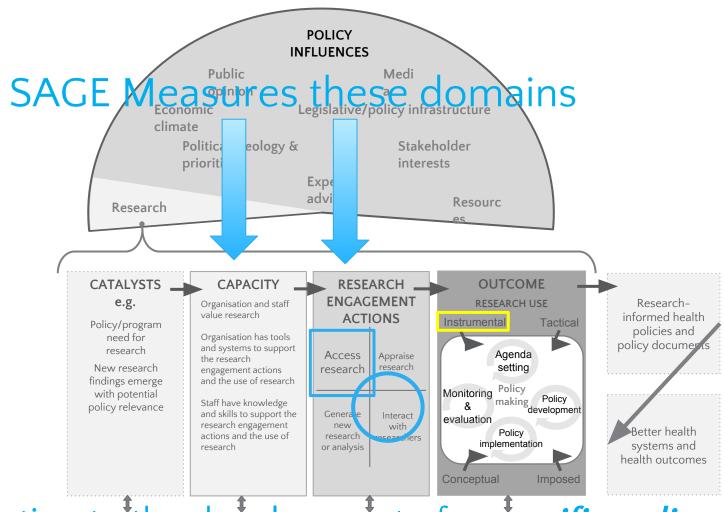


Development of a new measure: SAGE

- Staff Assessment of enGagement with Evidence from Research
- A comprehensive measure of research use
- Firmly grounded in the SPIRIT Action Framework



SPIRIT Action Framework



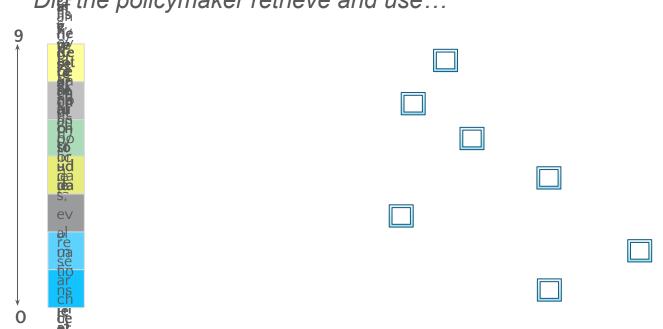
In relation to the development of a specific policy

product or program



SAGE - components

- 1. Comprehensive interview about a policy document
- 2. Scoring tool to score interview responses
 - Breaks down each domain into its *key aspects*Dighthe policymaker retrieve and use...



What sco
should we assign to each aspect above?



Aims

- Use **conjoint analysis**, with an **Expert Sample**, to quantify the relative importance of aspects for each:
 - research engagement action
 - Type of research use
- This will:
 - Generate a valid scoring system for REAs/RU
 - Produce an informative scoring system to help agencies maximise their research capacity*

METHOD



Method

1. Recruit Experts sample (*N =* 54).

2. Complete a **Choice survey** – respondents exposed to combinations of key aspects called "profiles". There is a survey for each **research engagement action** and **type of research use**

3. Rate each profile – does it represent a limited, moderate, or extensive instance of *searching for research*, *appraising research etc*.

4. Conjoint Analysis - analyse the results of the survey. This will generate a "utility value" and "importance value" for each key aspect.

5. Utilities are the score assigned to each aspect in the SAGE scoring tool



Example profile: appraising quality

To evaluate the quality of research, the policymaker...

- · Assessed whether the research design or conclusions were valid
- Checked whether the research cited, or was referenced in other highquality research or policy documents
- Consulted experts to assess quality
- · Assessed the level of evidence of the research
- · Undertook these strategies as part of a pre-specified strategy

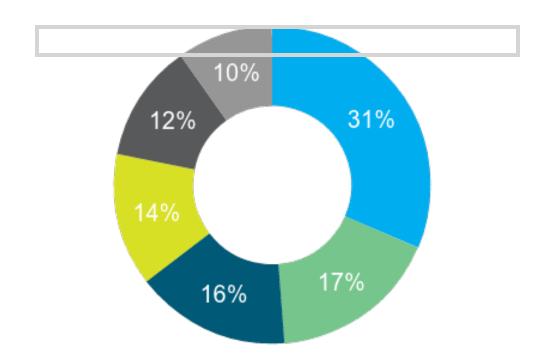
Using the 1–9 scale below, does this scenario **represent a** *limited, moderate, or extensive* **appraisal of research quality**.

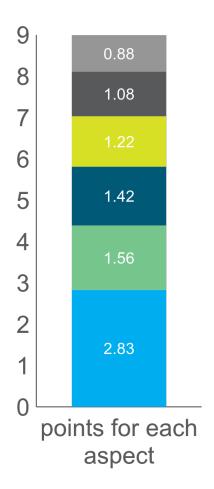
1	2	3	4	5	6	7	8	9
Limited			Moderate			Extensive		

RESULTS

What is the best way to search for research?

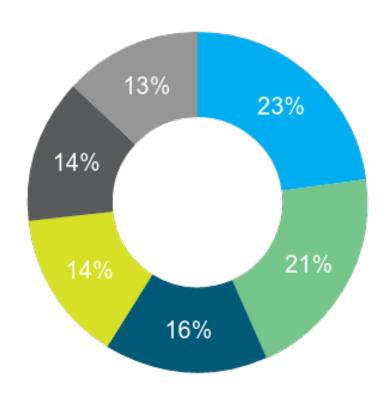
- Academic literature databases and/or physical libraries
- ■Experis requested to identify research
- ■G ey literature sources
- Reference lists, citation indices, or databases of references
- Obtained research by chance, on-hand, or provided by colleagues
- ■Generic databases or search engines

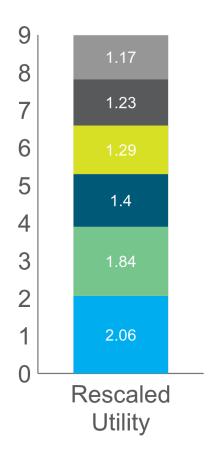




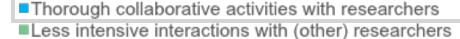
How should relevance be appraised?

plicable to the policy context or policy issue commendations were actionable and/or feasible dertook these actions as part of a pre-specified strategy insulted experts to assess the relevance of research insistent with previous research on the issue impatible with his/her OR the organisation's values, knowledge, or experience

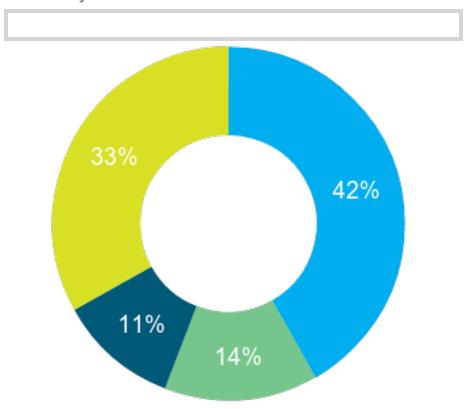


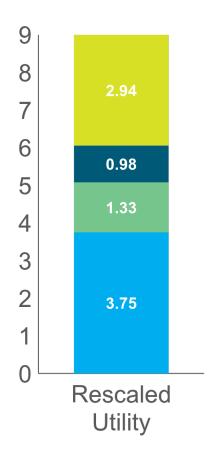


What are the best sort of interactions with researchers?



- ■Sporadic contact with (other) researchers
- Actively initiated these interaction activities







Acknowledging barriers

- Health decision makers, program developers face obstacles that make it difficult to use research
 - Some are more overwhelming than others
- Important to acknowledge these
- Examples of barriers:
 - Lack of access to research databases/journals
 - Self-perceived deficits in research skills
 - Lack of time (!!)
 - No relevant/practical research is available
- SAGE includes a checklist of key barriers as a means of accounting for these
 - Puts scores in context
 - Can inform organisations on what needs improvement

IMPLICATIONS





1. An empirically derived scoring system

- Quantified the relative importance of all key aspects
- Generated a score for each key aspect
- Produced an unbiased, context-sensitive, valid means of scoring research use

"How does the scoring work?

Example: Searching for research



Total =



2. An informative scoring system

 Scoring tool can be used to increase organisations' research use capacity



saxınstitute

An informative scoring system



Total = **3.3**

8



Next steps

- Evaluate the practical utility and face validity of the tool
- Evaluate the reliability and validity of the tool



To conclude – possible long-term benefits of SAGE

- · Policy agencies use SAGE to measure staff research engagement actions and use
- · Use scoring tool to score their research engagement actions and use
- Use the scoring tool to determine what areas should be improved.
 - Invests in programs to improve these capacities
 - \cdot Reassess staff with SAGE. Staff capacity to engage with and use research has improved
 - Improved health systems

· Greater improvements in health





Thank you