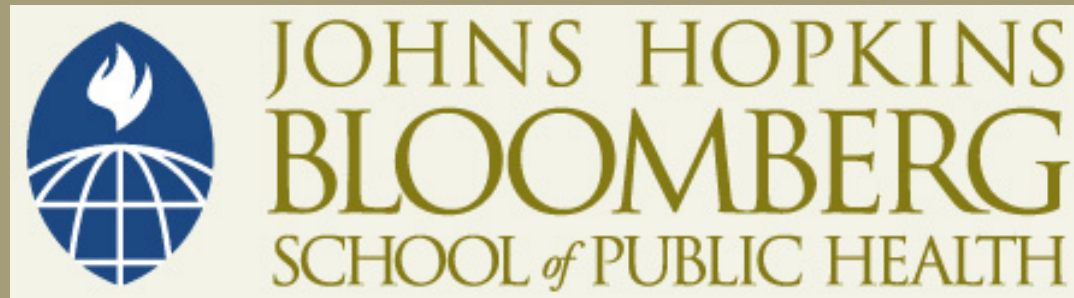


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JOHNS HOPKINS
BLOOMBERG
SCHOOL *of* PUBLIC HEALTH

Section B: Case Study

Maria Segui-Gomez, MD, MPH, ScD

Background

- Need (and desire) to ease decision-making process regarding injury prevention intervention implementation

The Proposed Method

1. Assess

- Efficacy—proven, promising, unknown, ineffective
- Affordability
- Feasibility
- Sustainability

The Proposed Method

2. Develop a summary score

+

- ▶ Unknown efficacy, ineffective, counter productive, expensive, unfeasible, or questionable sustainability

++

- ▶ Promising effectiveness, satisfaction, affordability, feasibility, or sustainability

The Proposed Method

+++

- ▶ Proven effectiveness, cheap to implement, very feasible, or excellent sustainability

Table 1. Selected Fragments

Host/intervention	Efficacy	Affordability	Feasibility	Sustainability
Occupant SB use*	+++	++	++	++
Occupant education	++	+++	+++	+++
Motorcycle education*	++	+++	+++	+++
Bike helmets* in educational programs	+++	++	++	++
Roadway lighting*	+++	++	++	++

**In text, the authors advise for its implementation*

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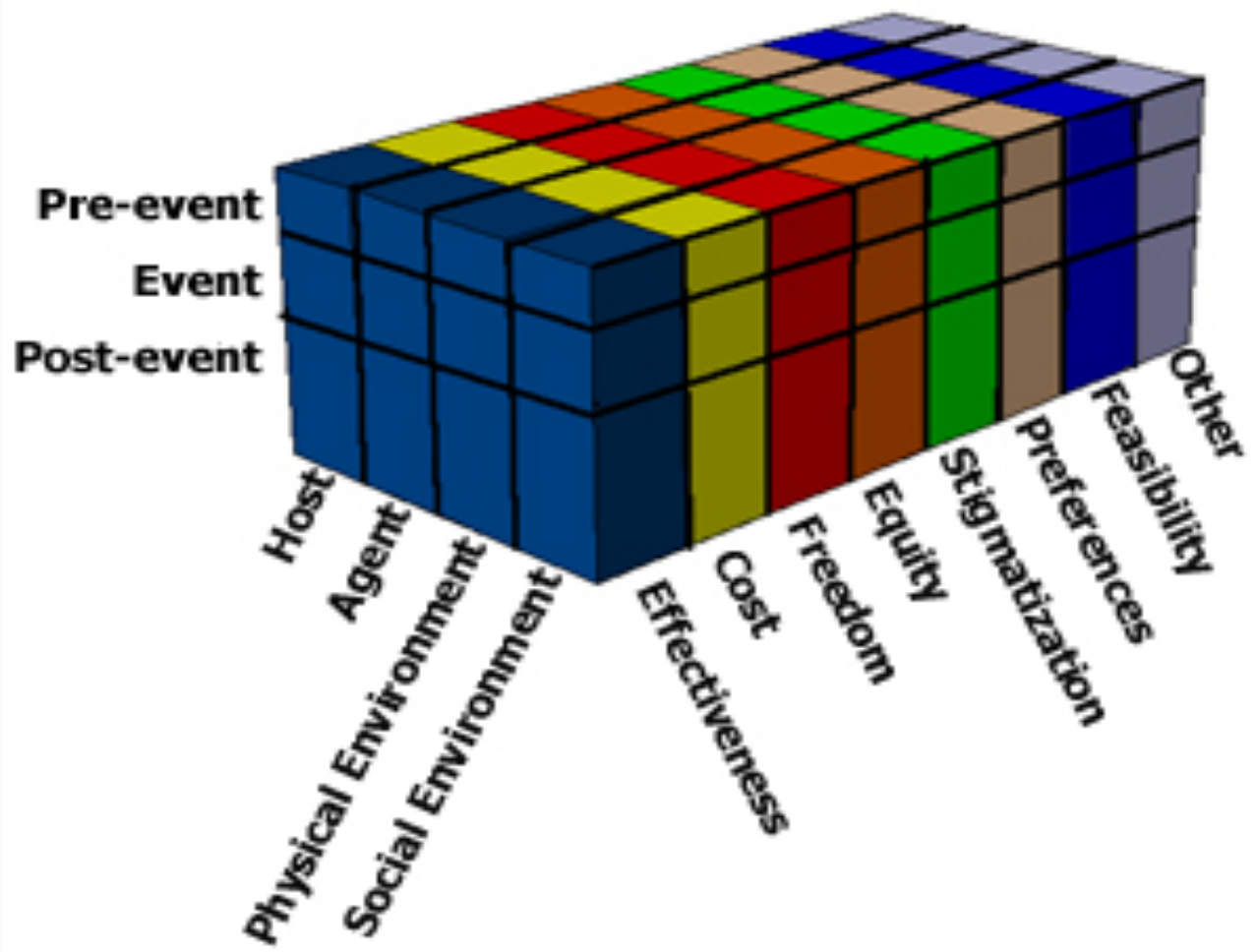
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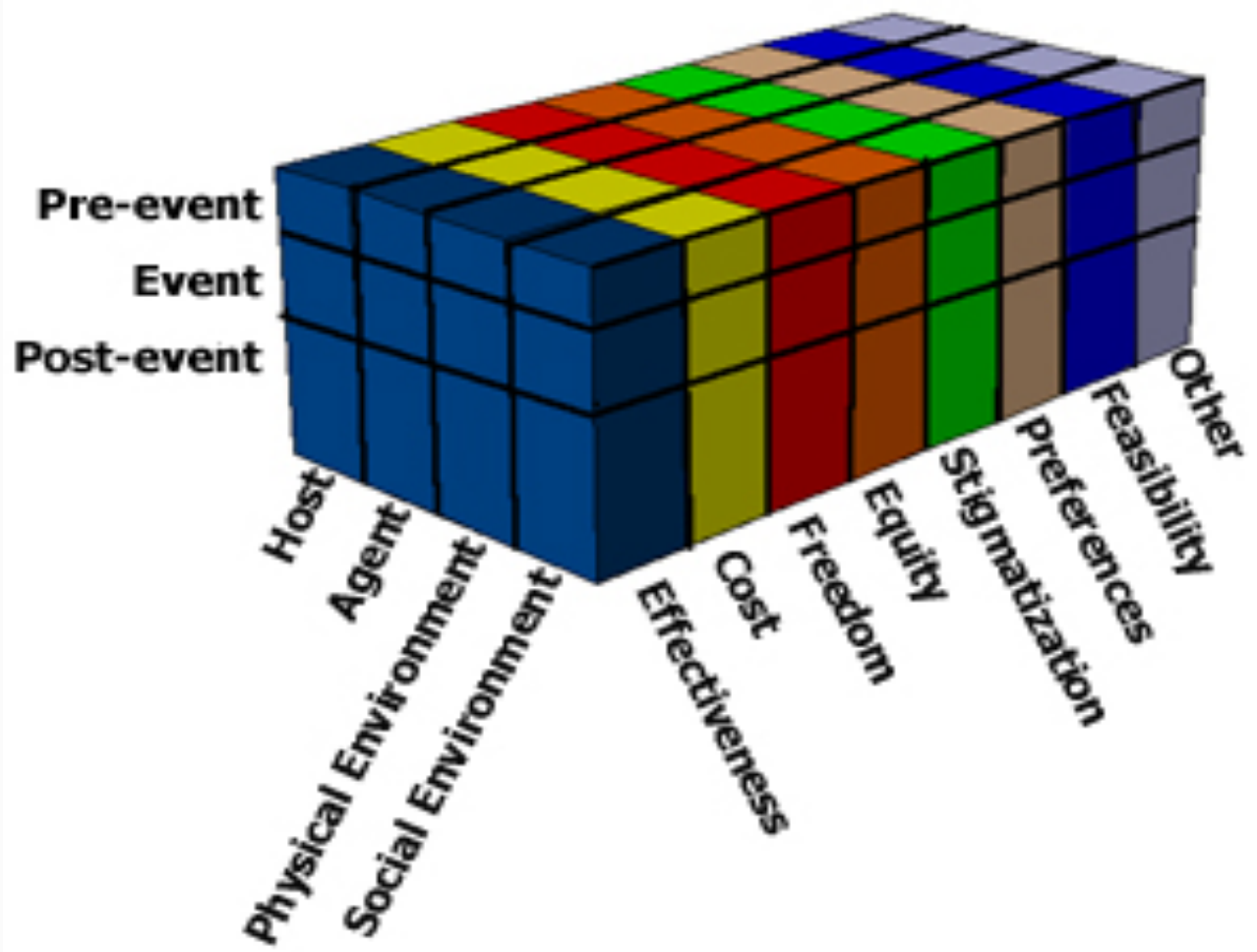
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Other “Evaluation” Tools: The 3D Haddon Matrix



Other “Evaluation” Tools: The 3D Haddon Matrix



Questions

- What threshold do we use to determine effectiveness?
 - Statistical significance? Clinical significance? Public-health significance?

Questions

- How do we rate the quality of the evidence presented?
- One possible method: experimental > cohort > case-control
 - Checklists available from Cochrane Collaboration, U.S. Preventive Task Force (Guide to Clinical Preventive Services), etc. . . .

In Reading an Evaluation

- Be critical of outcome under evaluation
- “Outcome” can be:
 - Outcome (i.e., health related), intermediate (i.e., behavior, knowledge), or process
- Be aware of all the operational and definitional issues discussed thus far regarding coding and data sources

In Reading an Evaluation

- Be critical of study design—THERE MUST BE A CONTROL
- Be critical of analytical choice
- Be critical of comments outside the realm of the research reported