A new interactive tool to iteratively guide users through the process of applying an implementation science framework:

The iPRISM webtool

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Goals for this presentation

- Describe the iPRISM webtool
  - Purpose
  - How it was developed
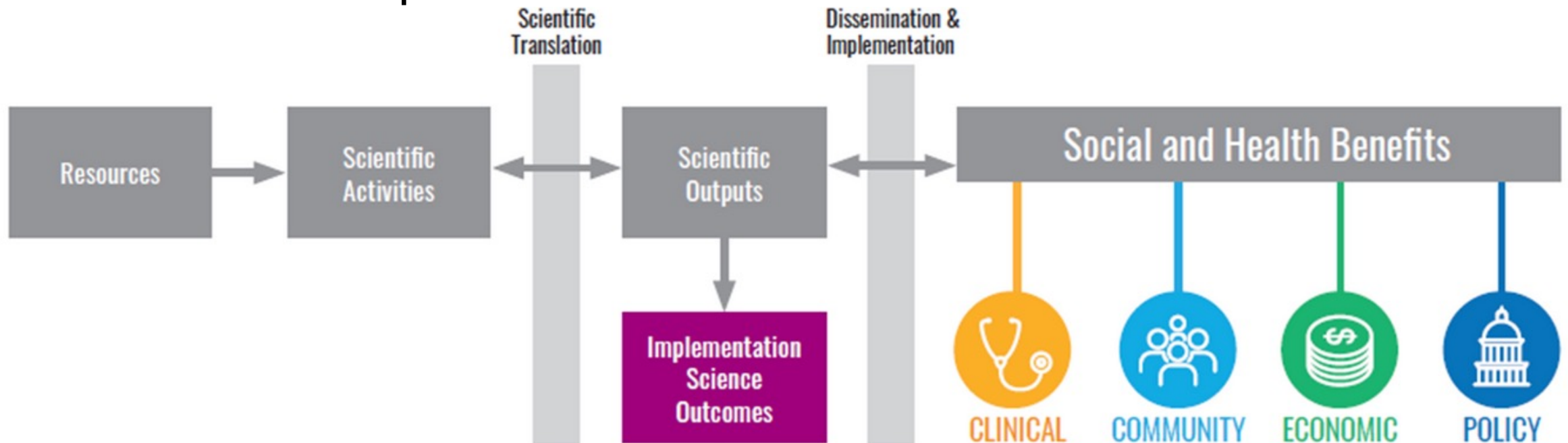 - Function
  - Future directions

www.prismtool.org

The impetus

- **Implementation science**
  - Is needed for translation
  - Theories, Models, and Frameworks are the cornerstone
  - Can be complex

iPRISM webtool

- **Simplify implementation science**
  - For diverse researchers and implementation teams
  - Support rapid learning health systems

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- **Using the PRISM framework**
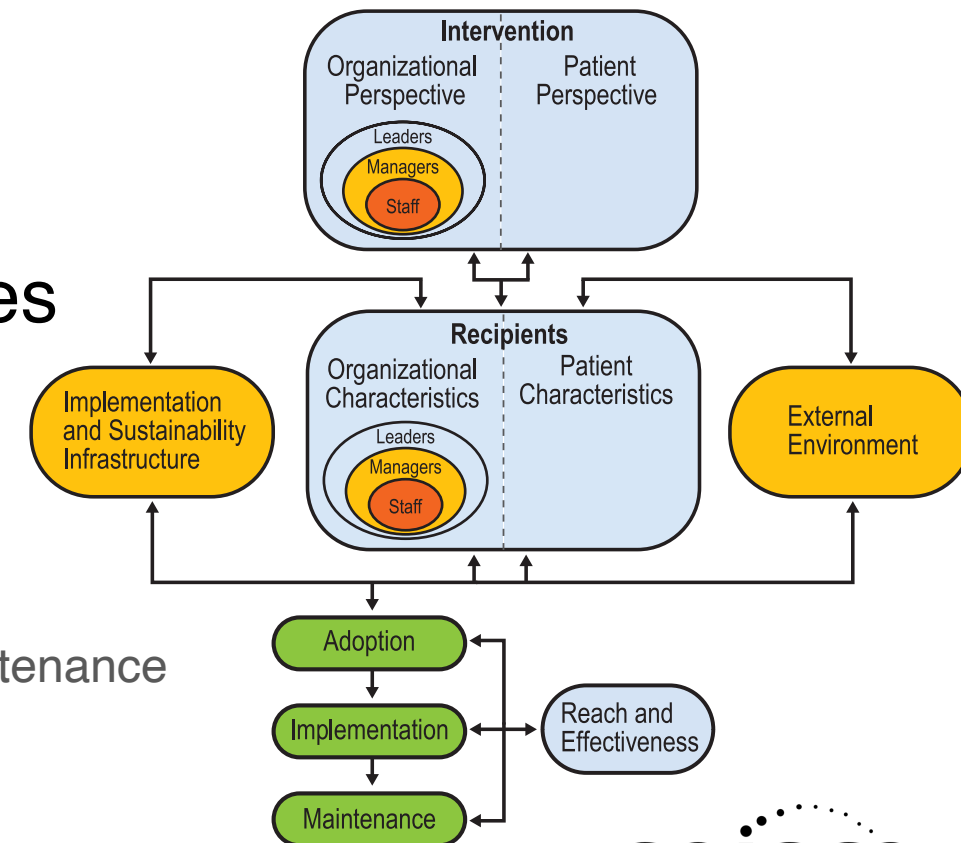 - Practical, Robust Implementation and Sustainability Model

Trinkley et al. Acad Med. 2022;97:1447
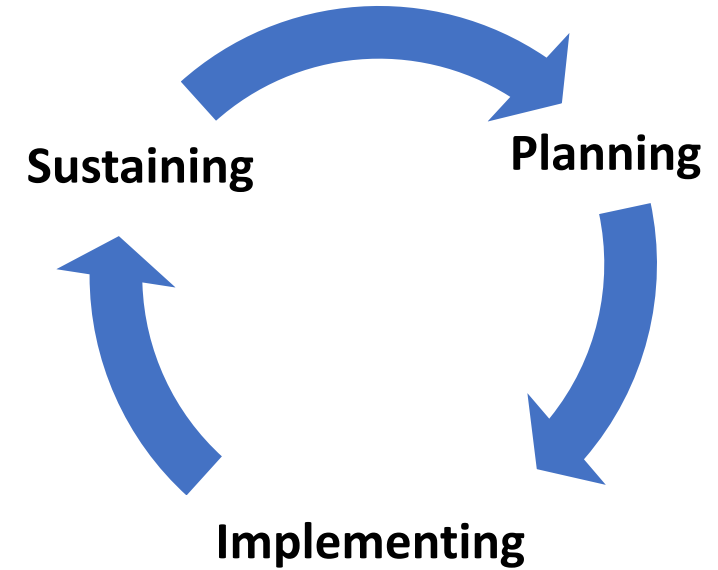Rabin et al. Imp Sci. 2022;17:62

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PRISM

- Practical, Robust Implementation and Sustainability Model

- Comprehensive framework

- Contextually expanded *RE-AIM outcomes

*RE-AIM – reach, effectiveness, adoption, implementation, and maintenance

Feldstein AC, Glasgow RE. Jt Comm J Qual Patient Saf. 2008;34:228
Rabin et al. Imp Sci. 2022;17:62

iPRISM webtool

- **Guide and prompt users to <u>iteratively</u>**
  - Assess context
  - Align project with context
  - Assess progress on key outcomes
  - Develop feasible and impactful strategies/adaptations
  - Create action plans

- **Systematic, consistent approach**

Sustaining

Planning

Implementing

Maw et al. Implement Sci Commun. 2022;3:89
McCreight M et al. Front Health Serv. 2022;2:970409

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User-centered methods

- **Transdisciplinary design team**
  - 3rd party web developer
  - Implementation science, human computer interaction
- **Iterative partner engagement**
  - >20 individuals and teams
  - English and Spanish speakers
  - Diverse settings, users and programs
  - With and without implementation science expertise
- **Used prototypes of varying fidelity**
- **Refined**
  - Purpose, interface, flow
  - Assessment questions – Makes PRISM actionable

Maguire M. Int J Hum Comput Stuf. 2001;55:587

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PRISM

Practical, Robust Implementation and Sustainability Model

What is the Stage of Your Program?

I am...

... **planning** a program	... **implementing** a program	... **sustaining** a program
ⓘ	ⓘ	ⓘ

21 assessment questions

- **Operationalize PRISM's context domains and outcomes**

- **Prioritize equity**
  - Representation of perspectives
  - Representativeness of outcomes

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Rabin et al. Implement Sci. 2022;17:62

PRISM
Practical, Robust Implementation and Sustainability Model

RE-AIM Program Outcome Assessment
How likely is it that...

ADOPTION MORE INFO

1a. ...Heart Failure CDS Program will be ADOPTED by a high percentage of the intended settings?

ⓘ

Not likely at all   Very Likely   N/A

Add notes here.

1b. ...Heart Failure CDS Program will be ADOPTED by settings with few resources and that serve socially and economically disadvantaged populations?

ⓘ

Not likely at all   Very Likely   N/A

![PRISM - Practical, Robust Implementation and Sustainability Model]

PRISM Context Assessment

How well does your program, as currently planned, align with the...

PROGRAM CHARACTERISTICS FROM PATIENT/COMMUNITY MEMBER PERSPECTIVE

MORE INFO

1. ...expectations/perspectives of the PATIENTS and/or COMMUNITY MEMBERS?

Not aligned   Very aligned   N/A

Examples

Add notes here.

PROGRAM CHARACTERISTICS FROM ORGANIZATIONAL PERSPECTIVE

MORE INFO

2. ...expectations/perspectives of the ORGANIZATIONAL (setting) PARTNERS?

Not aligned   Very aligned   N/A

Examples

Add notes here.

Graphical display of responses

RE-AIM Scores

Below are your **average** scores to the 2-4 questions in each category.

🖱 **Hover** over each category to view details for individual questions.
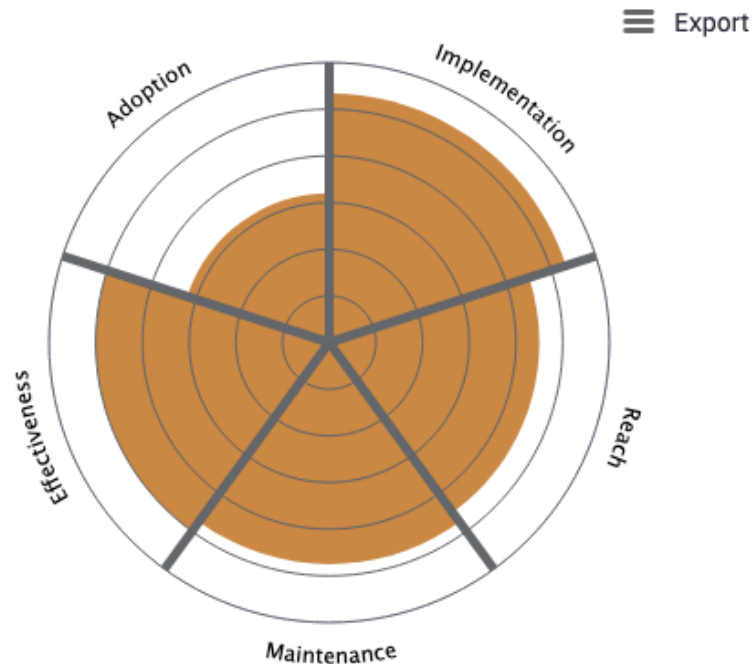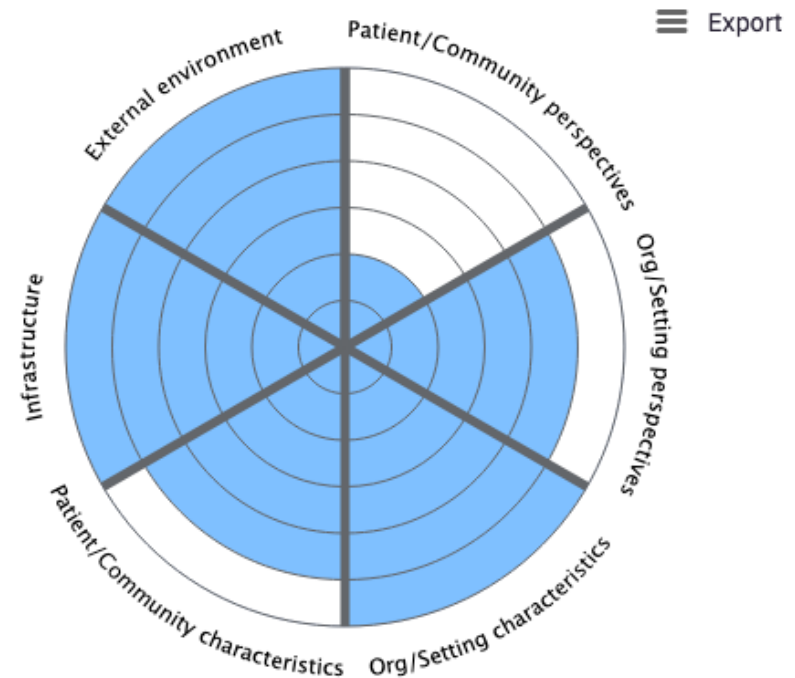
≡ Export

Categories: Adoption, Implementation, Reach, Maintenance, Effectiveness
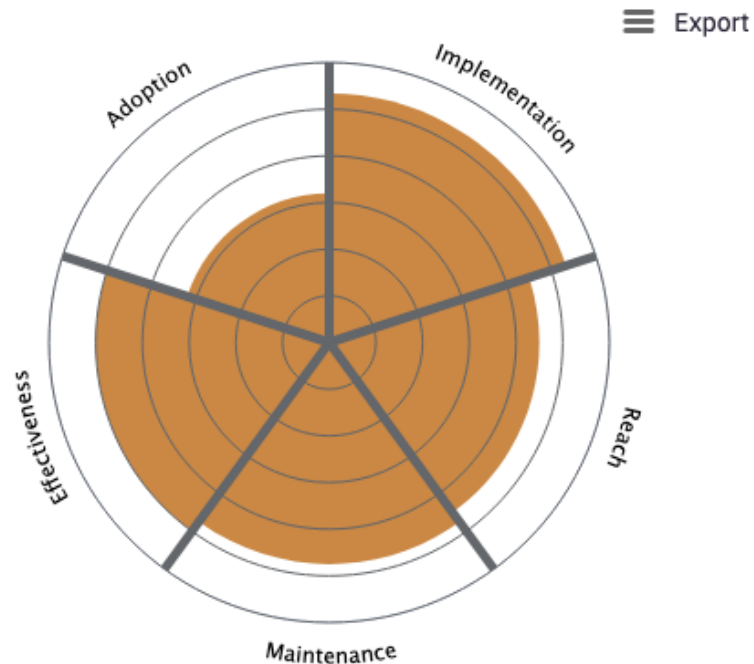
PRISM Scores

Below are your **individual** scores for the 1 question in each category.

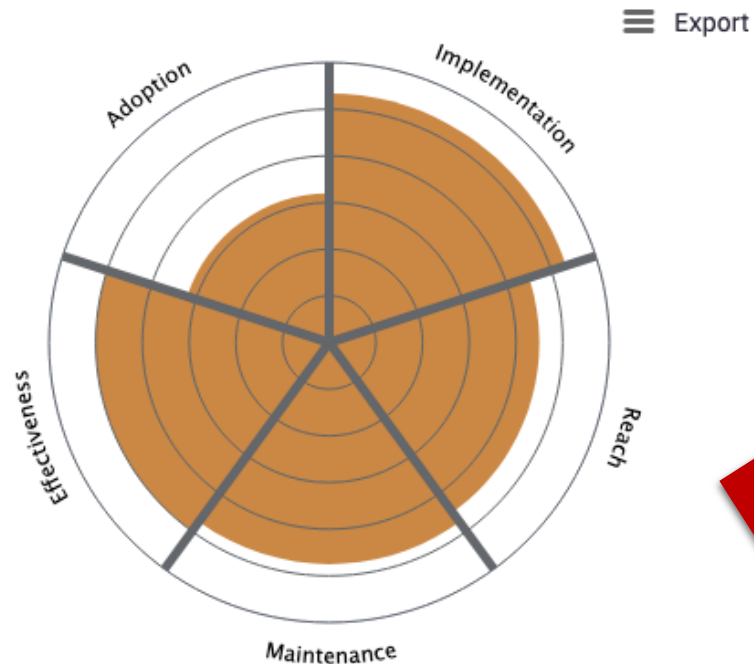🖱 **Hover** over each category to view details for individual questions.

≡ Export

Categories: External environment, Patient/Community perspectives, Org/Setting perspectives, Org/Setting characteristics, Patient/Community characteristics, Infrastructure

*For individuals

Graphical display of responses

Quickly identify areas to improve misalignment and impact

Graphical display of responses
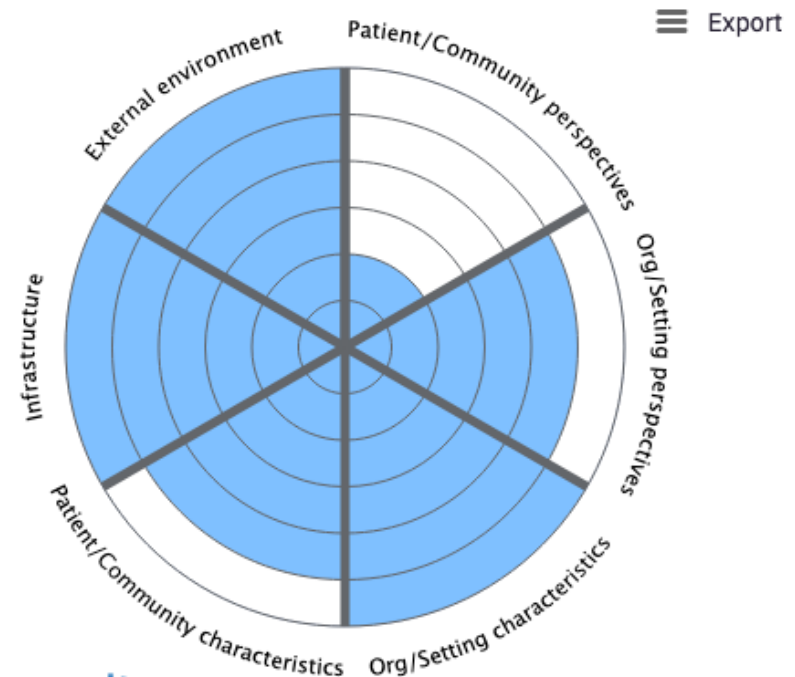
Implementation strategies/adaptations

Identify

Rate

Prioritize

Identify Your Strategies

[Click here for possible RE-AIM strategies](#)   Click

Strategy 1:

> Please name your strategy

Strategy 2:

> Please name your strategy

Identify Your Strategies

Click here for possible RE-AIM strategies   Click

Strategy 1: Audit and feedback

Strategy 2: Integrate within clinician workflow

Rate Your Strategies

Audit and feedback

Feasability

Not Feasible — Very Feasible

Impact

No Impact

Integrate within clinician workflows

Feasability

Not Feasible — Very Feasible

Impact

No Impact

*Equitable/representativeness of impact

Prioritize strategies
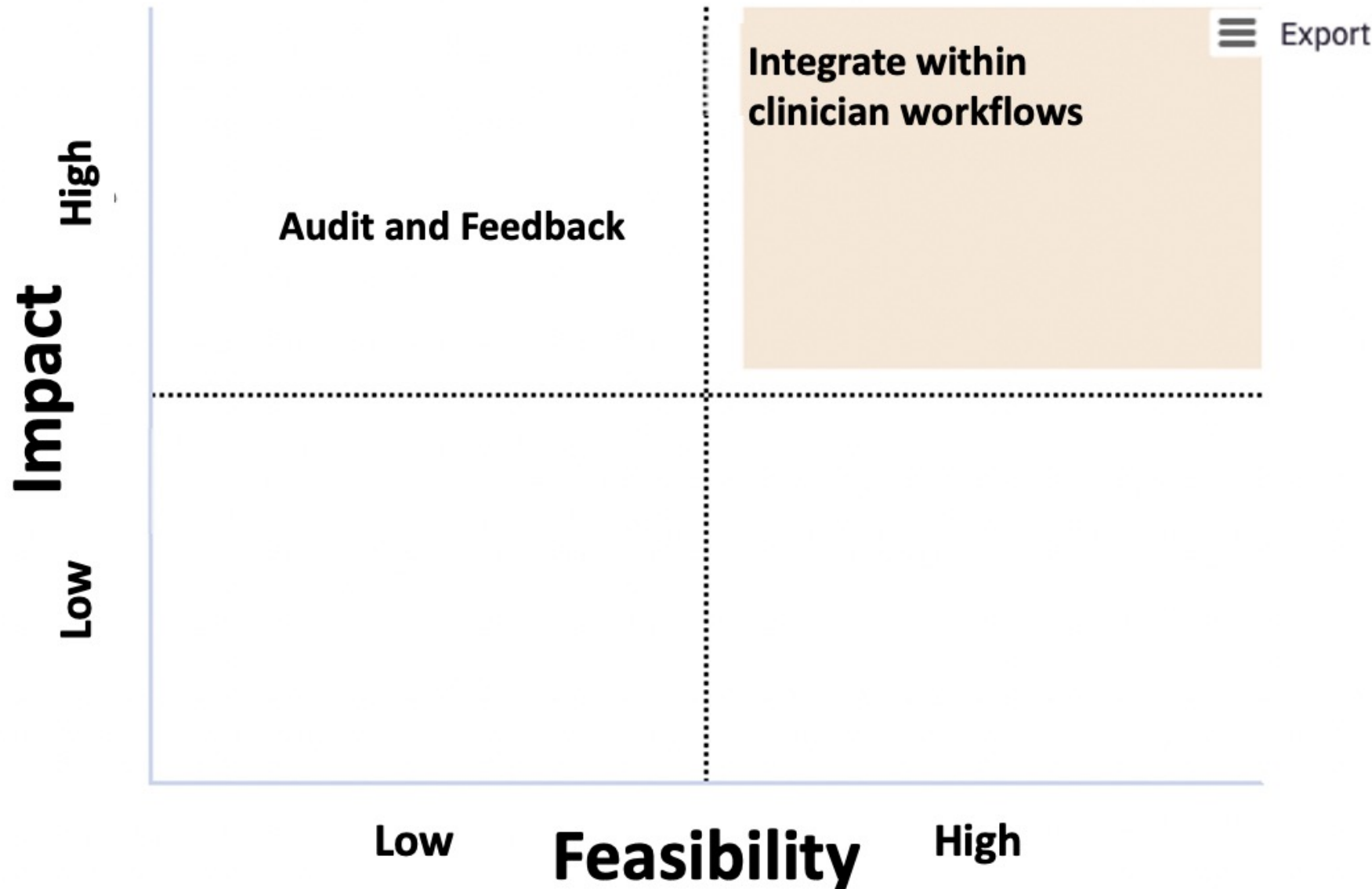
Other features

- **Action plan template**

- **Embedded education - tailored to different audiences/expertise**
    - Video
    - Examples
    - Links out
    - Info buttons
    - Quick start guides

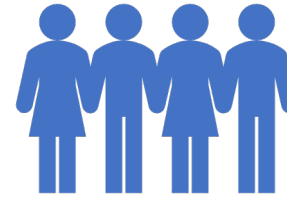- **Ability to export results**
    - Individuals
    - Teams

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Use to date
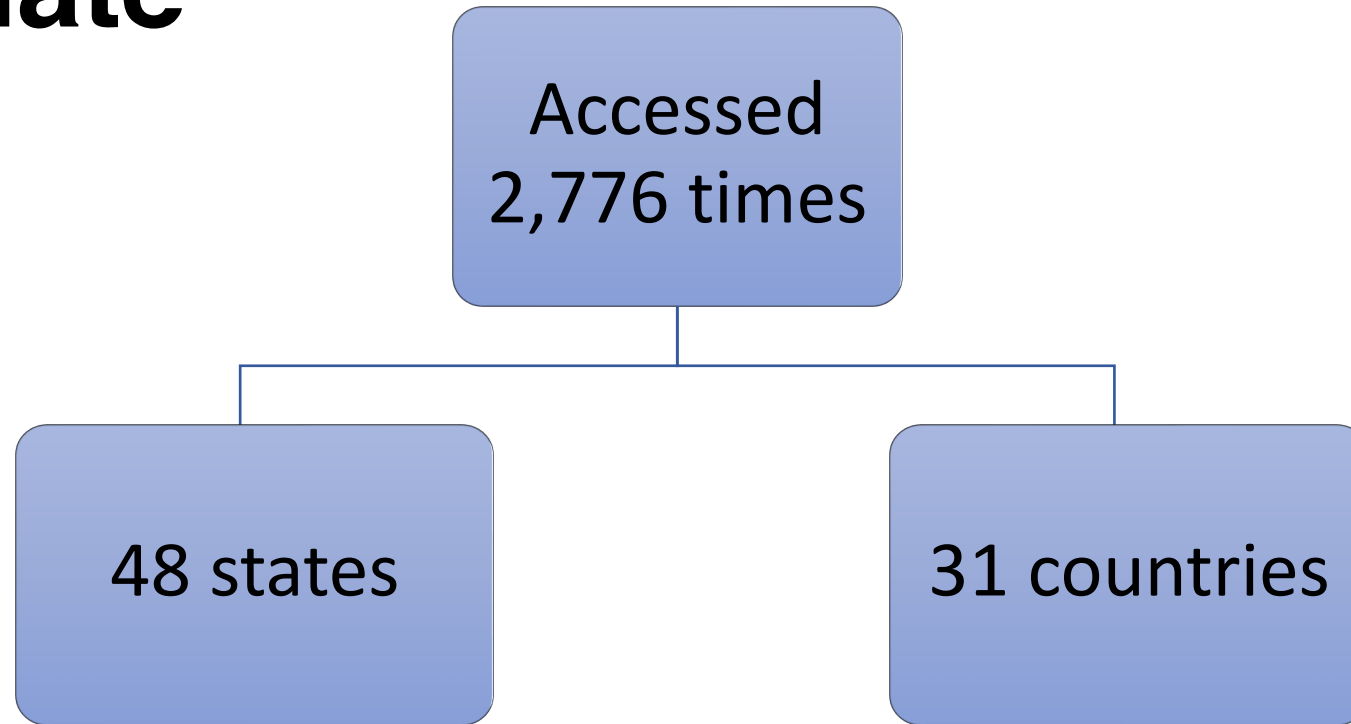
Future directions

Refine and update

-User testing

Evaluate use and impact

-Different conditions, varying facilitation

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Thank You!

- Partners: Russ Glasgow, Borsika Rabin, Bryan Ford, Meredith Fort, Sidney D'Mello

- Supported by:
  NHLBI (K12/K23)