# SETTING THE STAGE FOR SUCCESS: ESSENTIAL CONTRIBUTIONS OF PREIMPLEMENTATION

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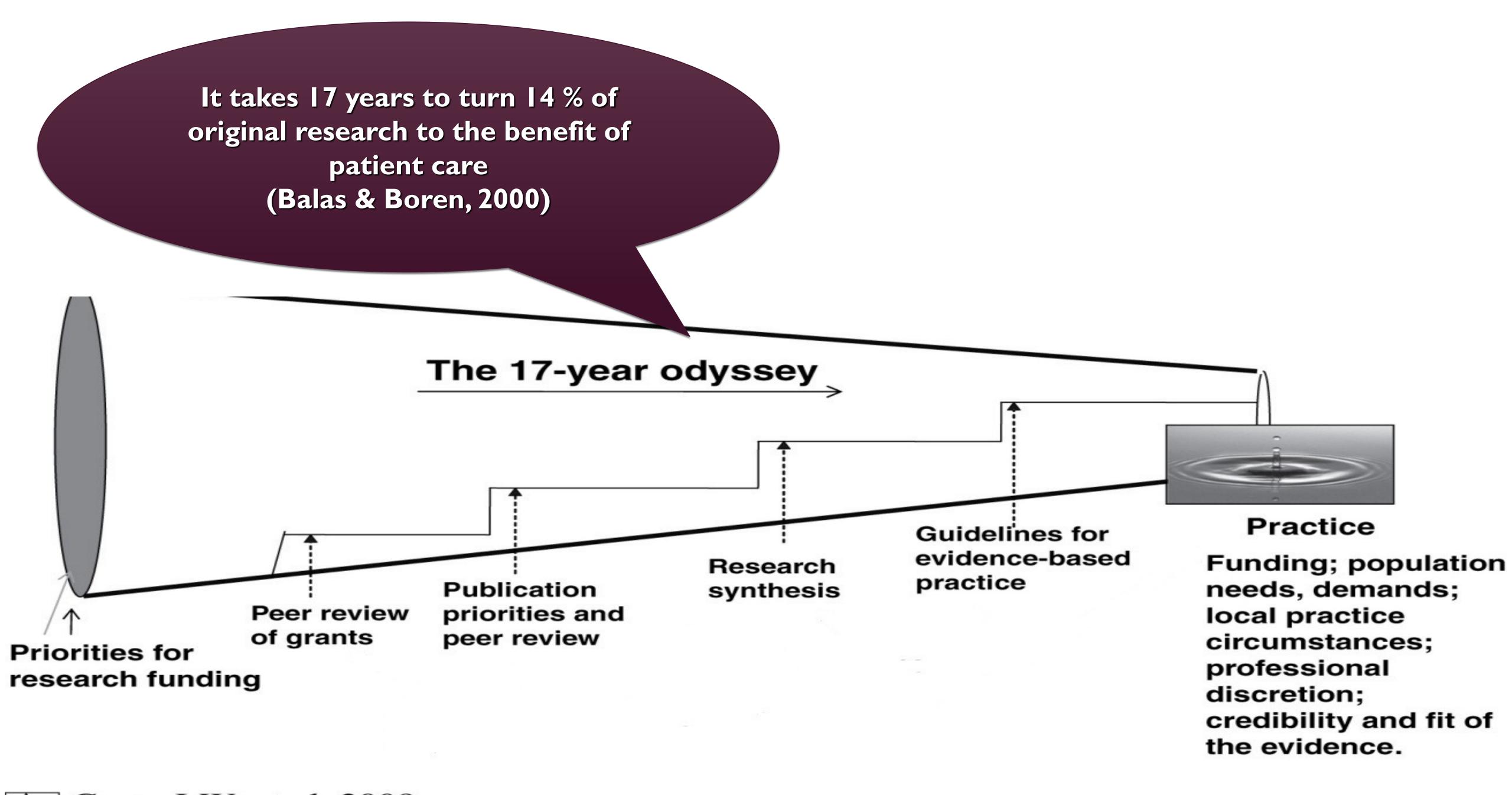
CHESTNUT HEALTH SYSTEMS- LIGHTHOUSE INSTITUTE

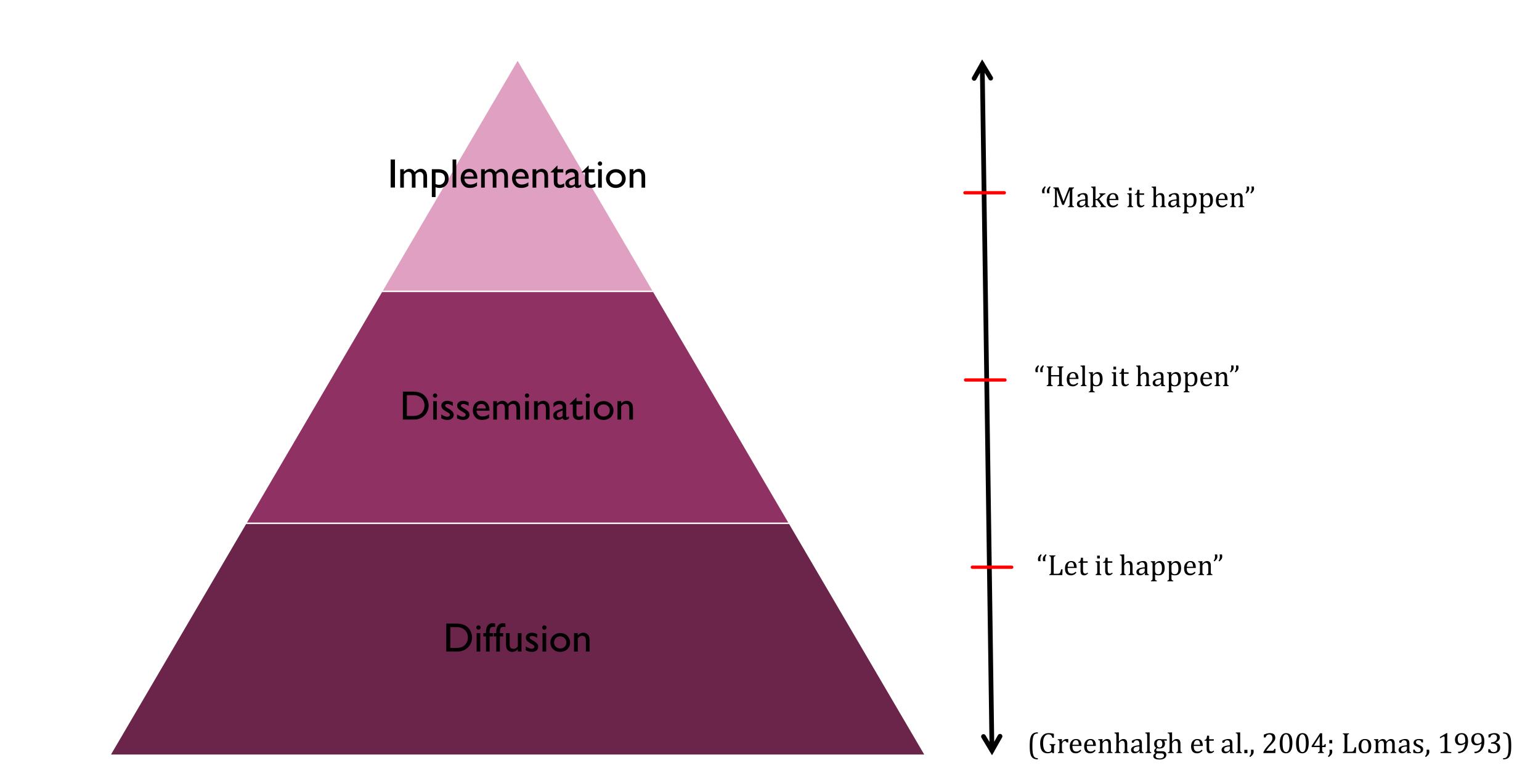


The Stages of Implementation
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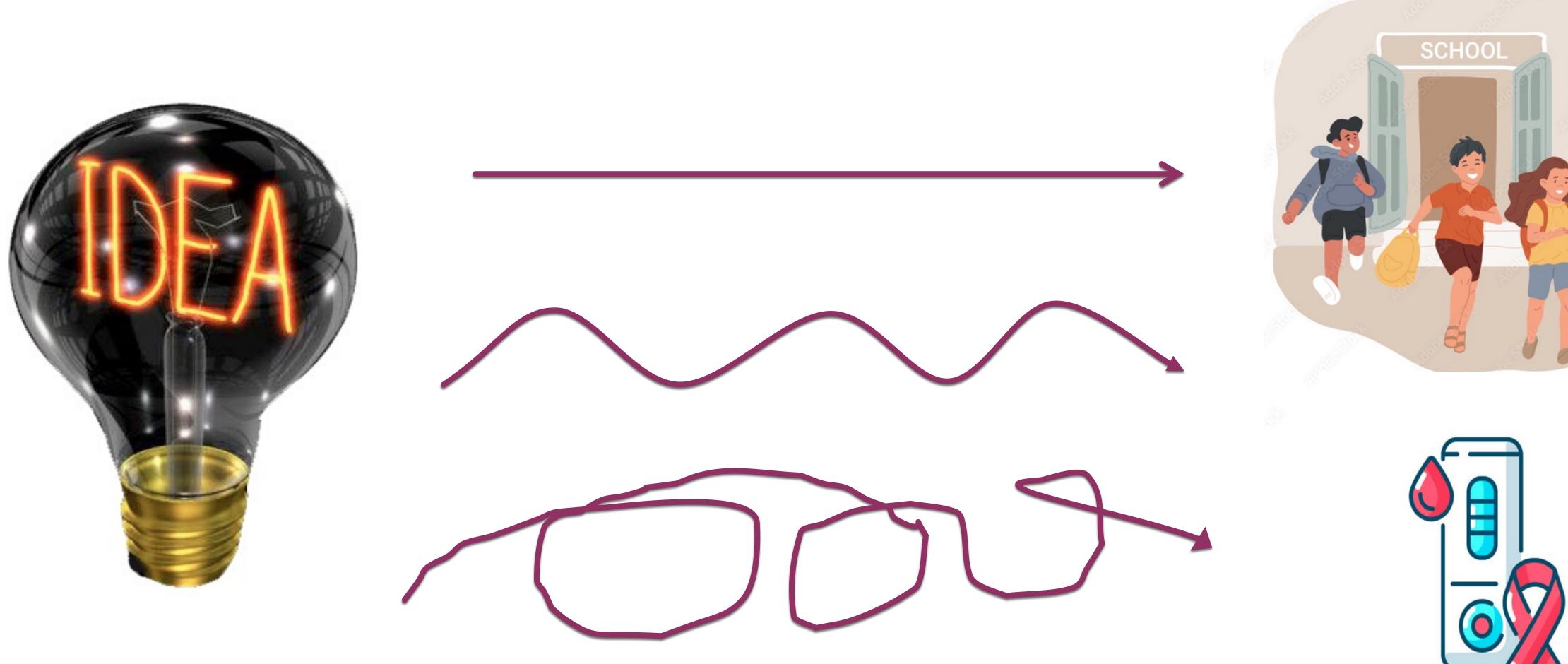




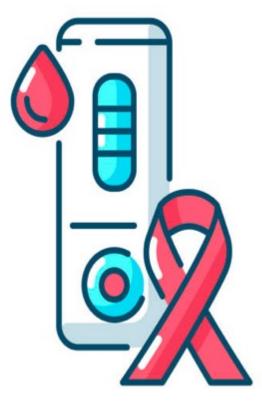
## ACHIEVING STRONG IMPLEMENTATION PROCESS EFFICIENTLY AND THOROUGHLY TO IMPROVE HEALTH EQUITY



#### THE IMPLEMENTATION JOURNEY







#### "METHOD TO THE MADNESS"

- Implementation of new innovations entails extensive planning, training, and quality assurance
- Involves a complex set of interactions between developers, system leaders, front line staff, and consumers
- Recursive process of well-defined stages or steps that are not necessarily linear



#### IMPLEMENTATION PROCESS MODELS



- Describe and/or guide the process of translating research into practice
- Recognize a temporal sequence of implementation endeavors
- Specify steps (stages, phases) of implementation

Nilson, P. (2015). Making sense of implementation theories, models, and frameworks. *Implementation Science*, 10, 53.

#### IMPLEMENTATION PROCESS AND HEALTH EQUITY



Elements of Implementation Science that can Support Advancements in Health Equity

- Focus on reach from the very beginning
- Design and select interventions for vulnerable populations and low-resource communities with implementation in mind
- Implement what works and develop implementation strategies that can help reduce inequities in care

Baumann, A.A., Cabassa, L.J. (2020). Reframing implementation science to address inequities in healthcare delivery. *BMC Health Serv* Res 20, 190



## Necessary to Achieve Positive INTERVENTION Outcomes Found in Clinical Trials

Adherence to Key Treatment Components

+

Delivering the Components with Competence

Treatment Integrity

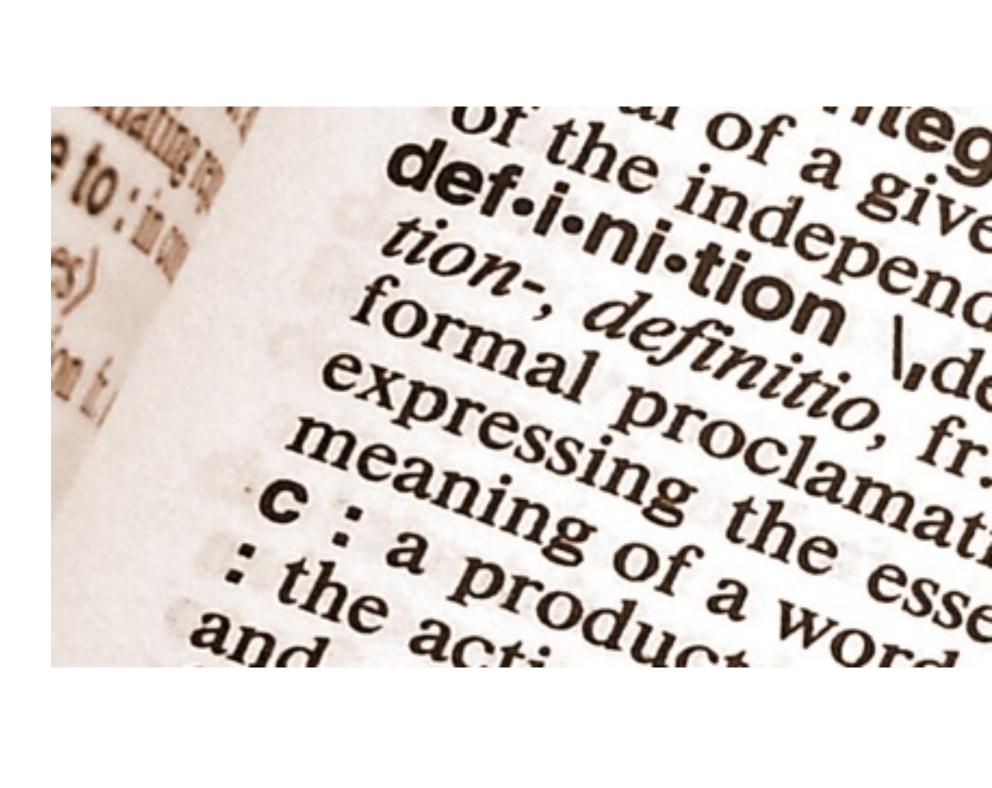
Perepletchikova, F., Treat, T.A., & Kazdin, A.E. (2007). Treatment integrity in psychotherapy research: Analysis of the studies and examination of the associated factors. *Journal of Consulting and Clinical Psychology*, 75, 829–841

#### IMPLEMENTATION FIDELITY

 Performing implementation activities with both adherence and quality

Goal: To increase positive
 IMPLEMENTATION outcomes





## VALUE OF UNDERSTANDING IMPLEMENTATION PROCESS

Building Blocks for What Makes an Implementation Work



#### IMPLEMENTATION STRATEGIES ARE...

"...Methods or techniques used to enhance the adoption, implementation, and sustainability of a clinical program or practice"

OR

The "how" of implementation



#### MEASURING WHAT AND HOW MUCH

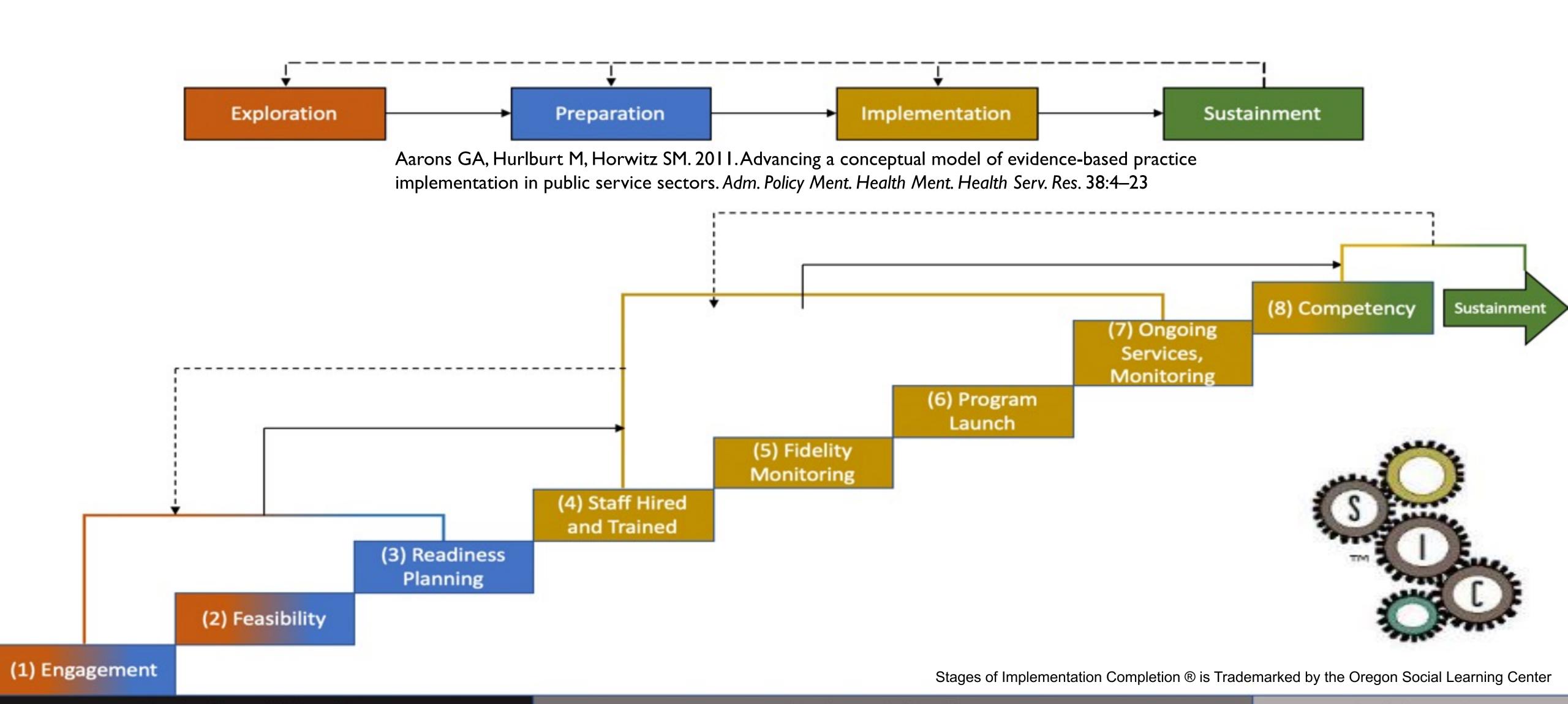


#### EPIS IMPLEMENTATION FRAMEWORK



Aarons GA, Hurlburt M, Horwitz SM. 2011. Advancing a conceptual model of evidence-based practice implementation in public service sectors. *Adm. Policy Ment. Health Ment. Health Serv. Res.* 38:4–23

#### EPIS AND STAGES OF IMPLEMENTATION COMPLETION ®

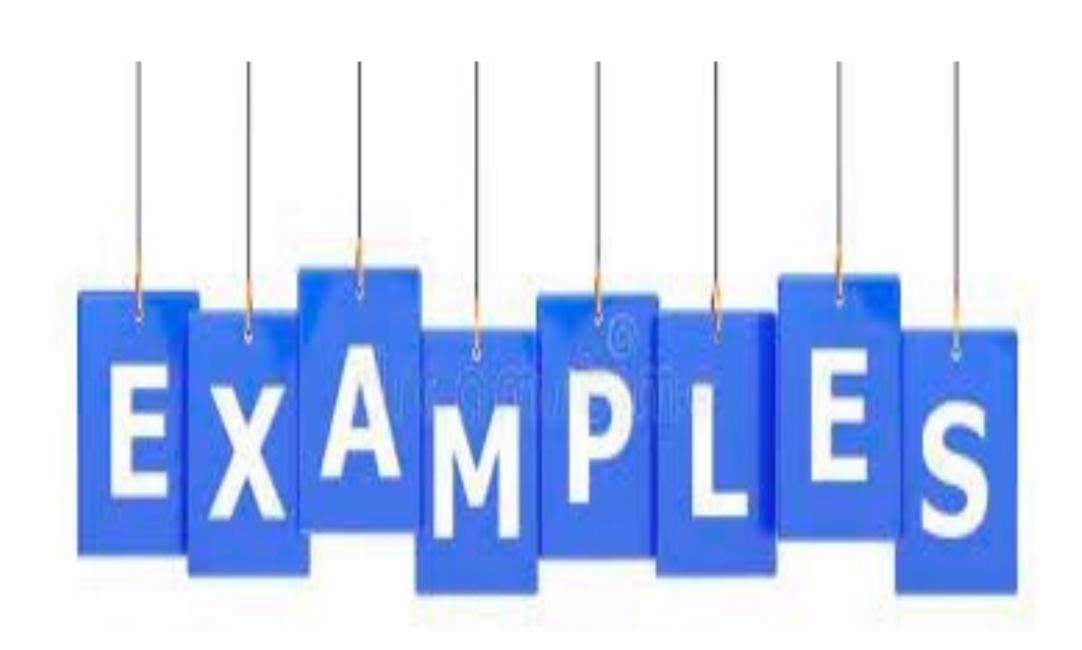


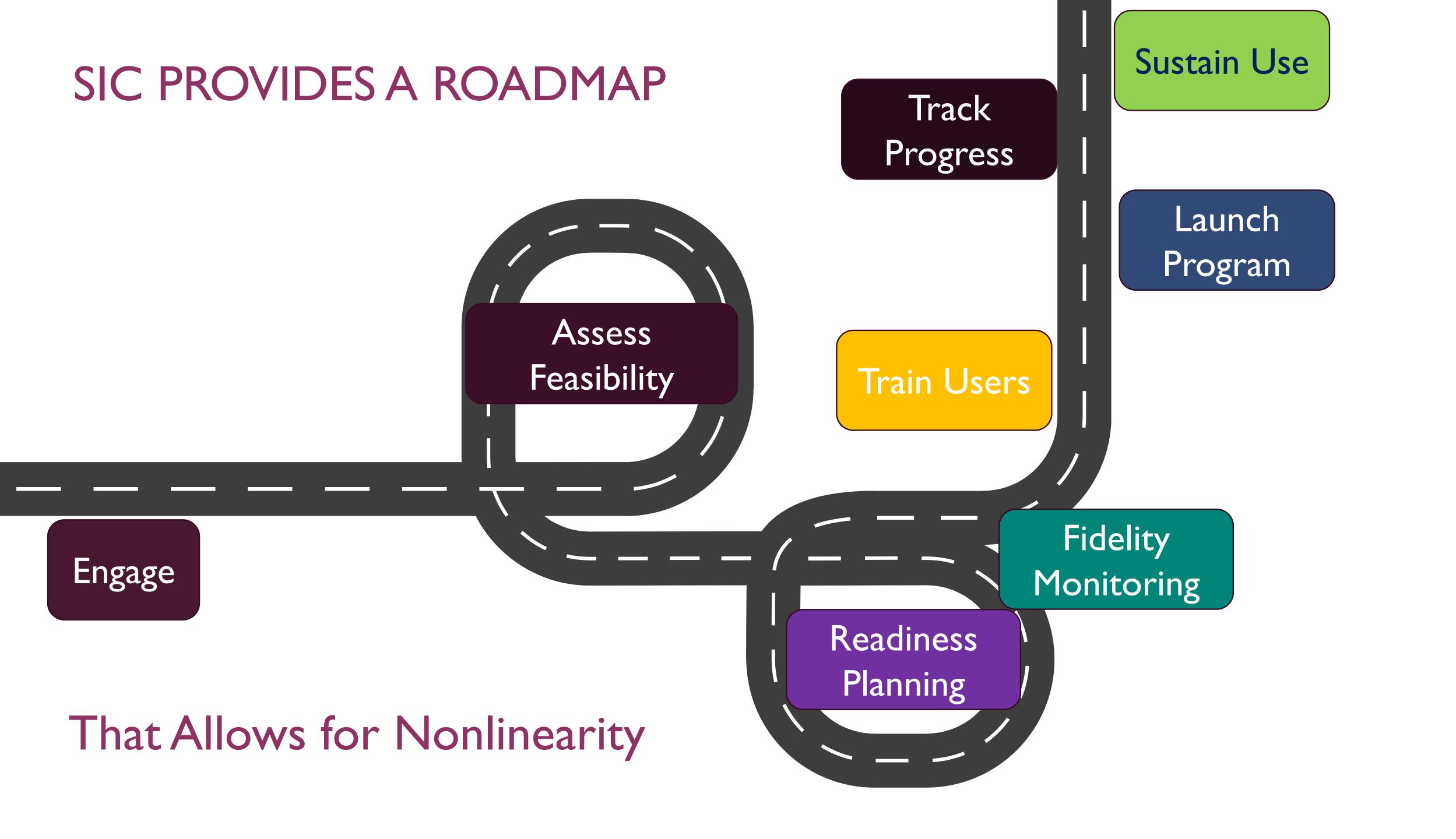
#### SAMPLE ACTIVITIES WITHIN EACH STAGE

- Engagement
   Date agreed to consider implementation
- 2. Consideration of Feasibility
  Date of Community Partner Vision Meeting
- 3. Readiness Planning
  Date of cost calculator/funding plan review
  Date referral flow established
- 4. Staff Hired and Trained

  Date of initial supervisor training
- 5. Fidelity and Adherence Monitoring Established Date fidelity technology set-up
- 6. Services and Consultation Begin Date of first patient enrolled
- 7. Ongoing Services, Consultation, Fidelity, Feedback Date of Implementation Review #1
  Date 50% of providers achieve 80% fidelity
- 8. Competency (certification)

  Date first provider achieves certification standards





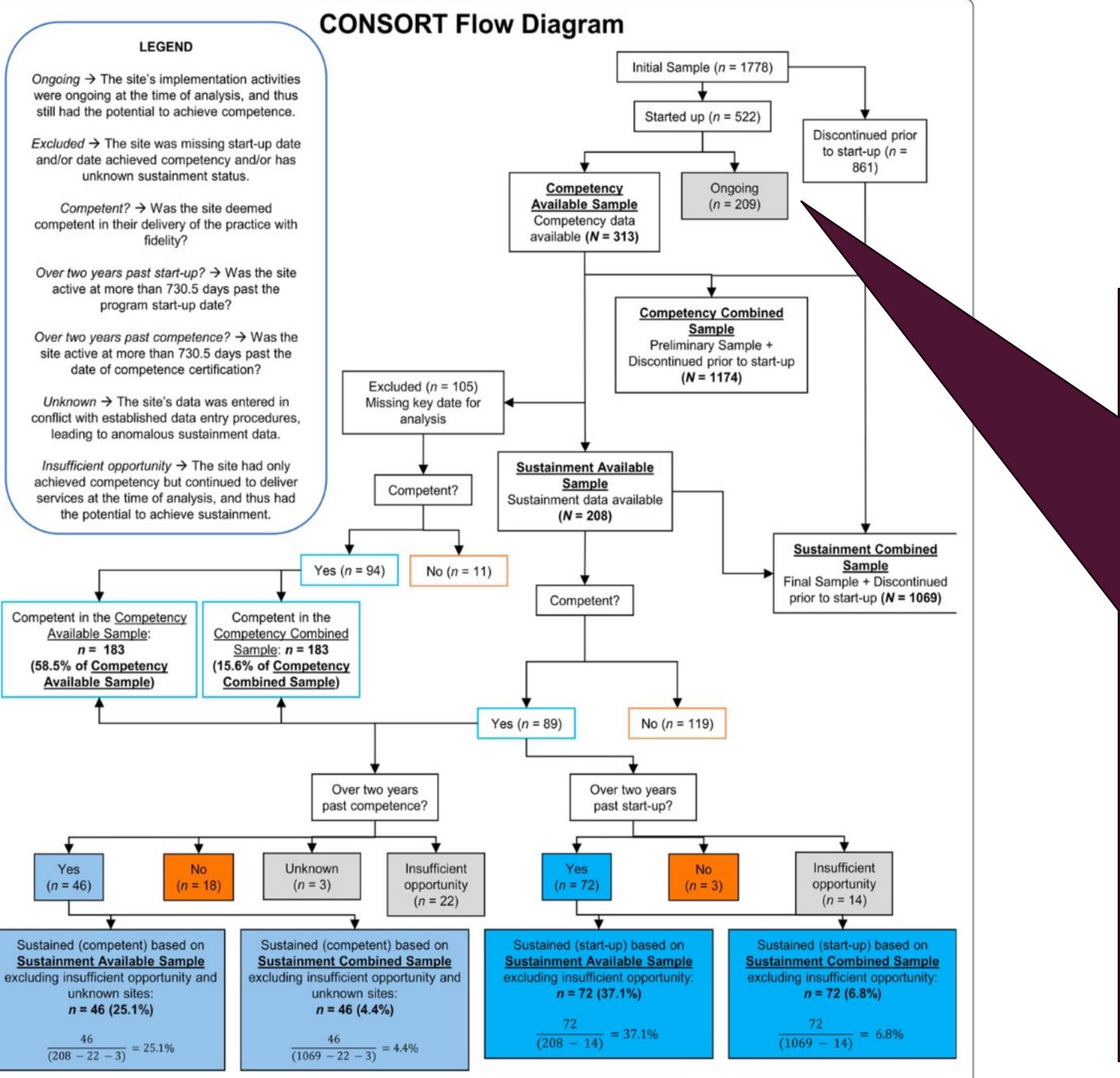
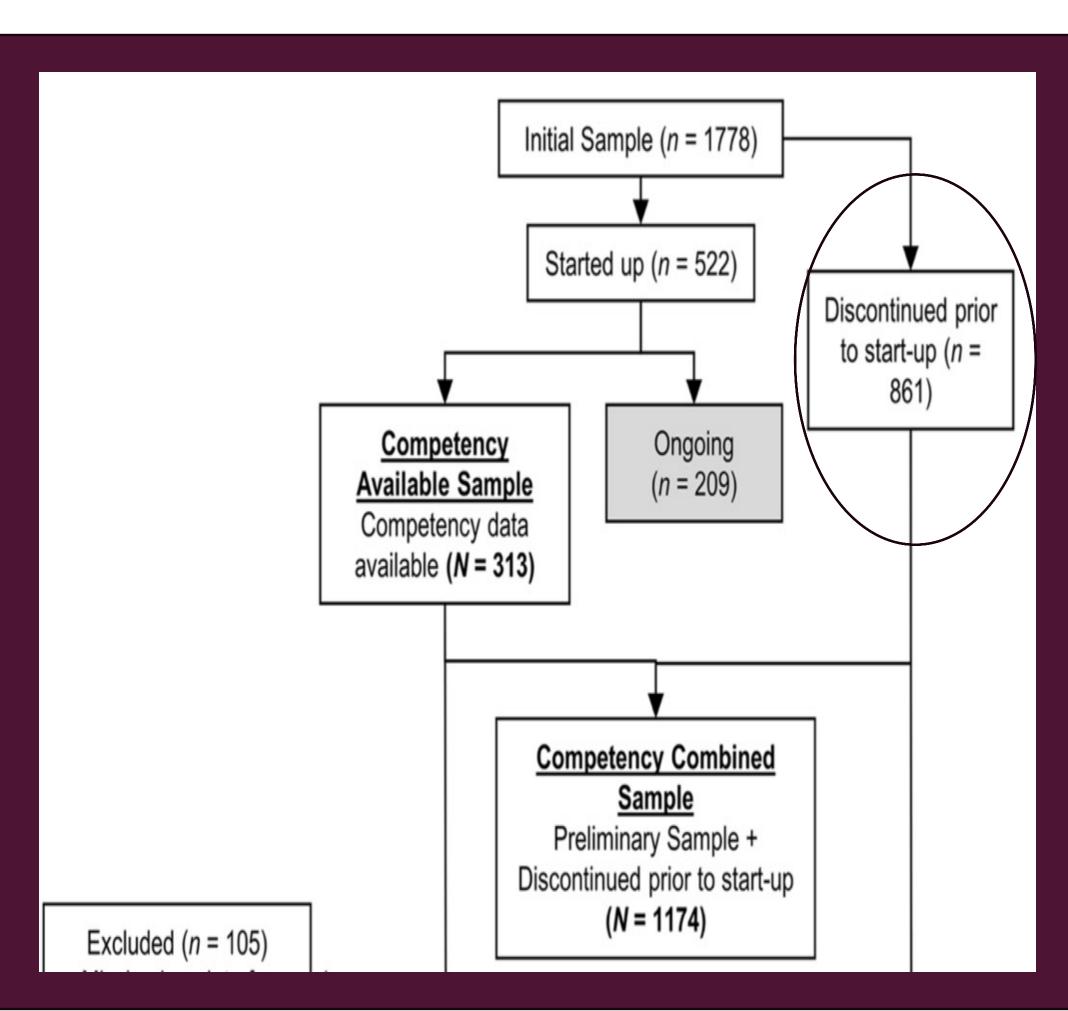
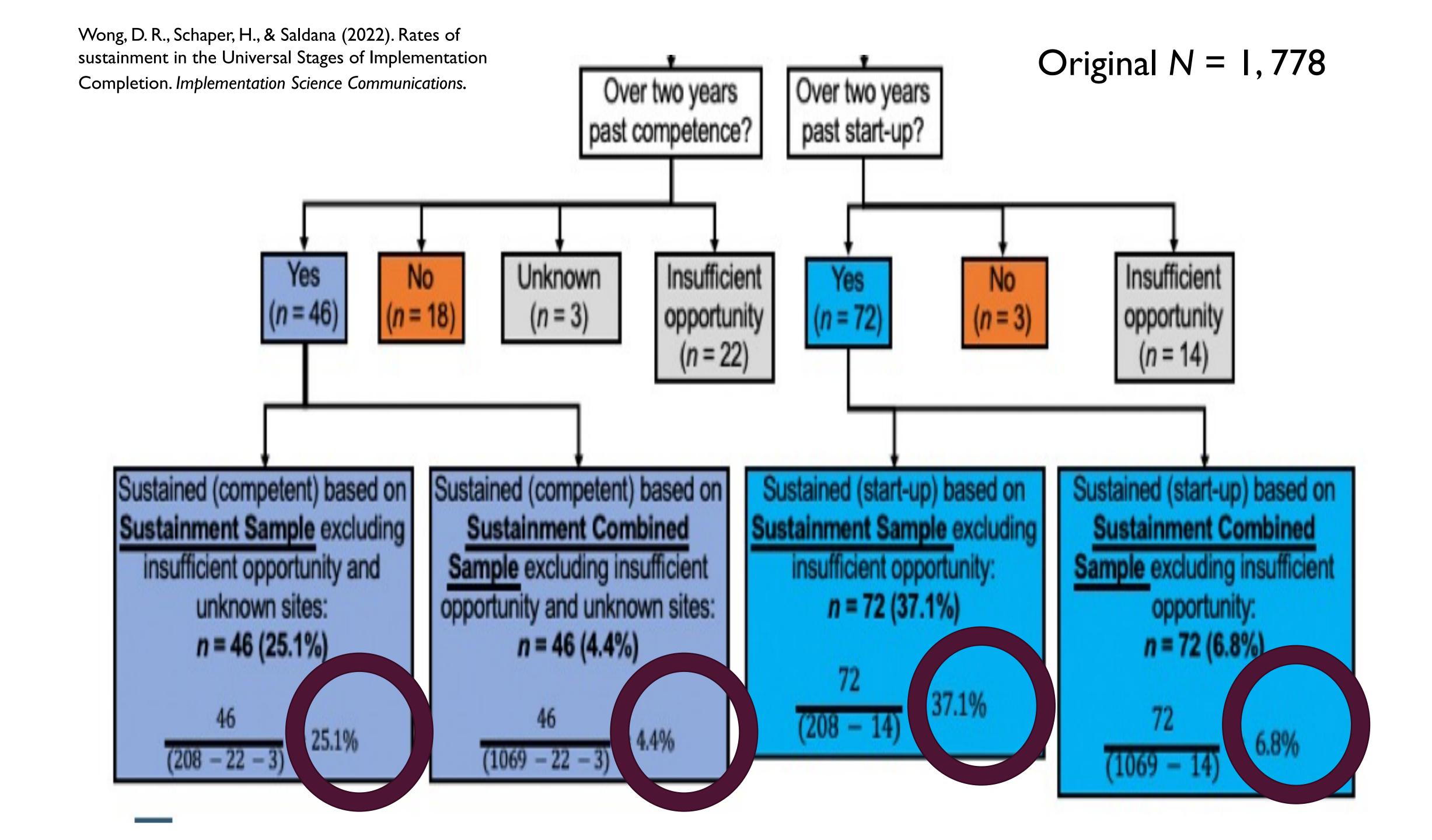


Fig. 2 The CONSORT diagram of sites implementing an evidence-based practice showing rates of achieving (1) competency, (2) 2-year sustainment post-program start-up, and (3) 2-year sustainment post-competency





#### STRONG PRE-IMPLEMENTATION FIDELITY

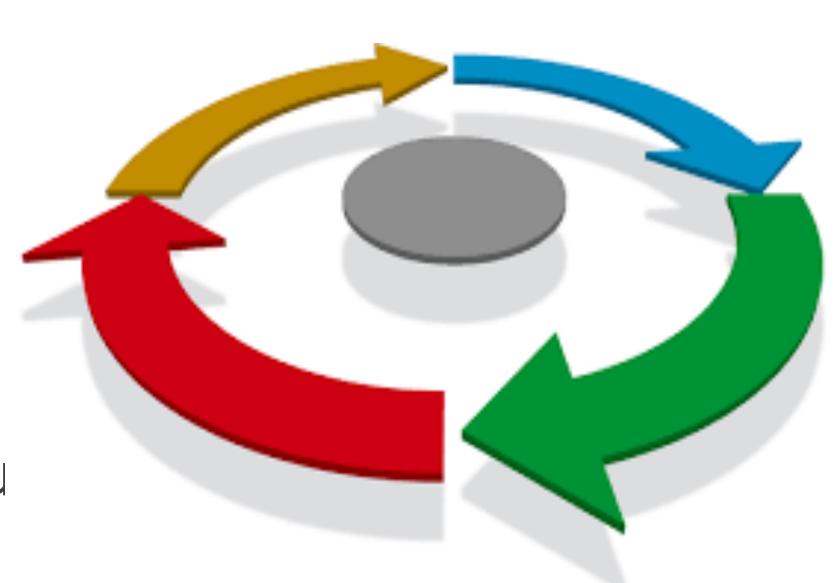


Presents the Greatest Opportunity to Move the Needle on Successful Implementations to Promote Equity in Receipt of EBP

#### CUSTOMIZING OR TAILORING A SIC

- Operationalizing the Implementation Process
- Collaborative and Iterative
- Defining "Completion" of Implementation Activities
- Defining Decision Rules for Validity Checks
- Comparing Skeletal SIC with Reality and Making Adju-
- Program onto the SIC website and Training





#### MISSING DATA TYPES

Truly Not Completed

**Expansion Team** 

Not Applicable

Completed-Date Unknown



#### THREE SCORES

Duration

Proportion

Stage Score

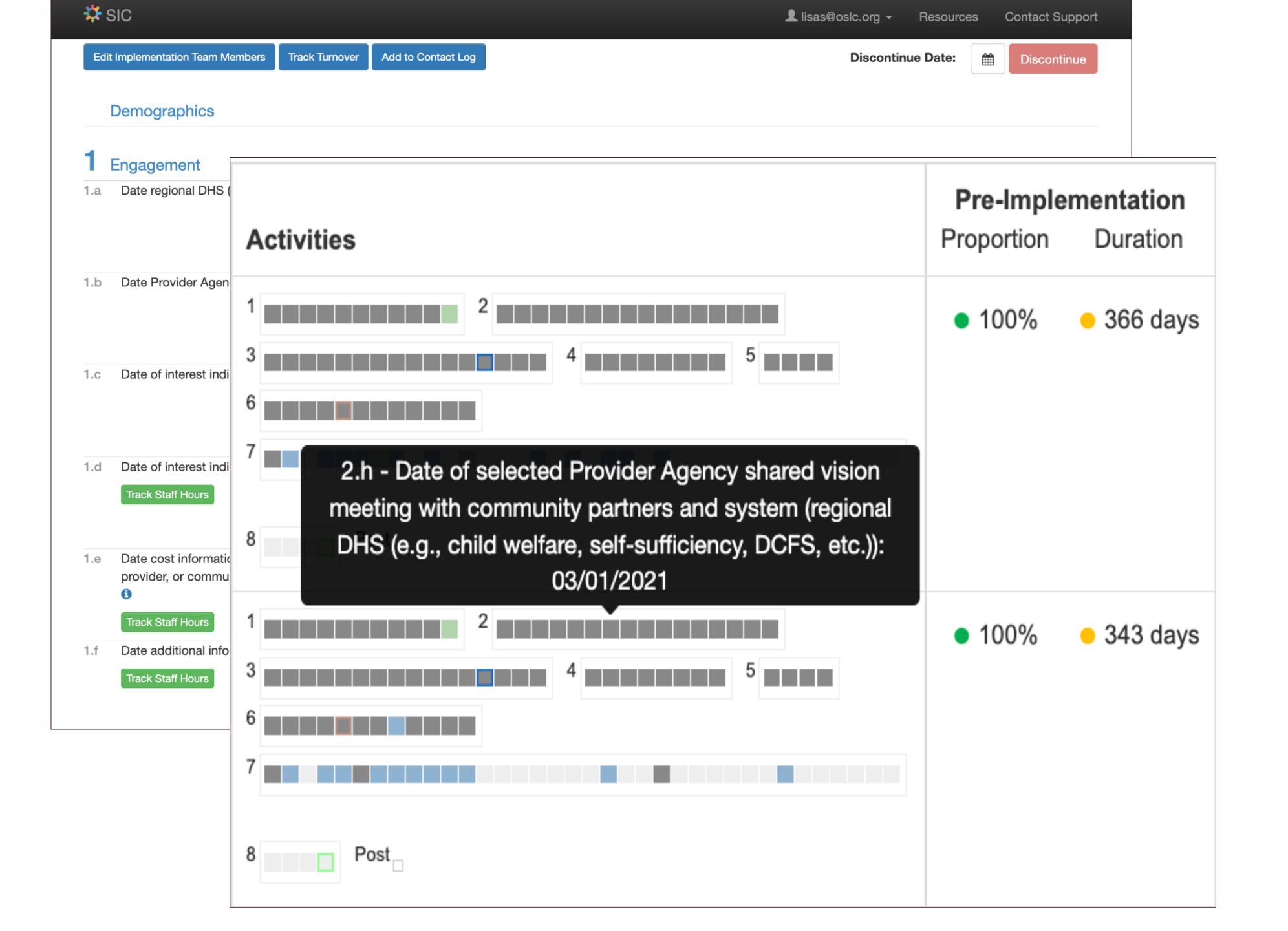


IC Data Entry! Contact us to learn more · Visit the Resources page for helpful website usage guides! · Outer Context tracking is now available!

Sign In	
Email	
Password (forgot password?)	
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Cookies must be enabled to log in	

Do you want to learn more about the SIC? Click here to learn more.

If you have any questions or would like access, please contact us.



#### HOW DO I PICK MY STRATEGIES?



#### WHAT ARE THE CONDITIONS OF IMPLEMENTATION?

- Site Demographics
- Urban vs Rural
- International or Domestic
- Service Sector
- Population Being Served
- Funding Source
- Policy Mandated
- Expansion Characteristics if Applicable



## CONSIDERATIONS FOR DEFINING IMPLEMENTATION ACTIVITIES

#### Readin

Stages of Imp

The readiness process is all about getting the "n other components of the implementation proces monitoring intervention fidelity.

Some typical roles that might be involved in the

- EBP developer: the researcher or grou
- EBP purveyor: the group who provide:
- Program champion for the site: the s
- Implementation coordinator: the liais

For each activity, in the "considerations" section, complete the following:

- 1. Name: the activity for your implementation.
- Definition: What does this mean for your implementation process?
- Function: Why is this activity important for your implementation?
- 4. Roles: Who is needed (internal and external partners) to complete this activity?

-

5. When: When in your readiness process does the activity need to be completed?

piementing site as a whole

6. Action: What are the steps you can take to ensure you're ready?

The Stages of Implementation Completion (SIC) is a readiness activities that are common across many types of implementations. Although not all activities are the most common activities across all different in the stages.

For each activity, in the "consider and section, complete the following:

Agency or organization director: the leader or lead

- 1. Name: the activity for your implementation.
- Definition: What does this mean for your implementation process?
- 3. Function: Why is this activity important for your implementation?
- 4. Roles: Who is needed (internal and external partners) to complete this activity?
- 5. When: When in your readiness process does the activity need to be completed?
- 6. Action: What are the steps you can take to ensure you're ready?

#### FIRST STEP IN IMPLEMENTING

#### Stage I. Engagement

Site is informed/learns services/program available

Site indicates interest

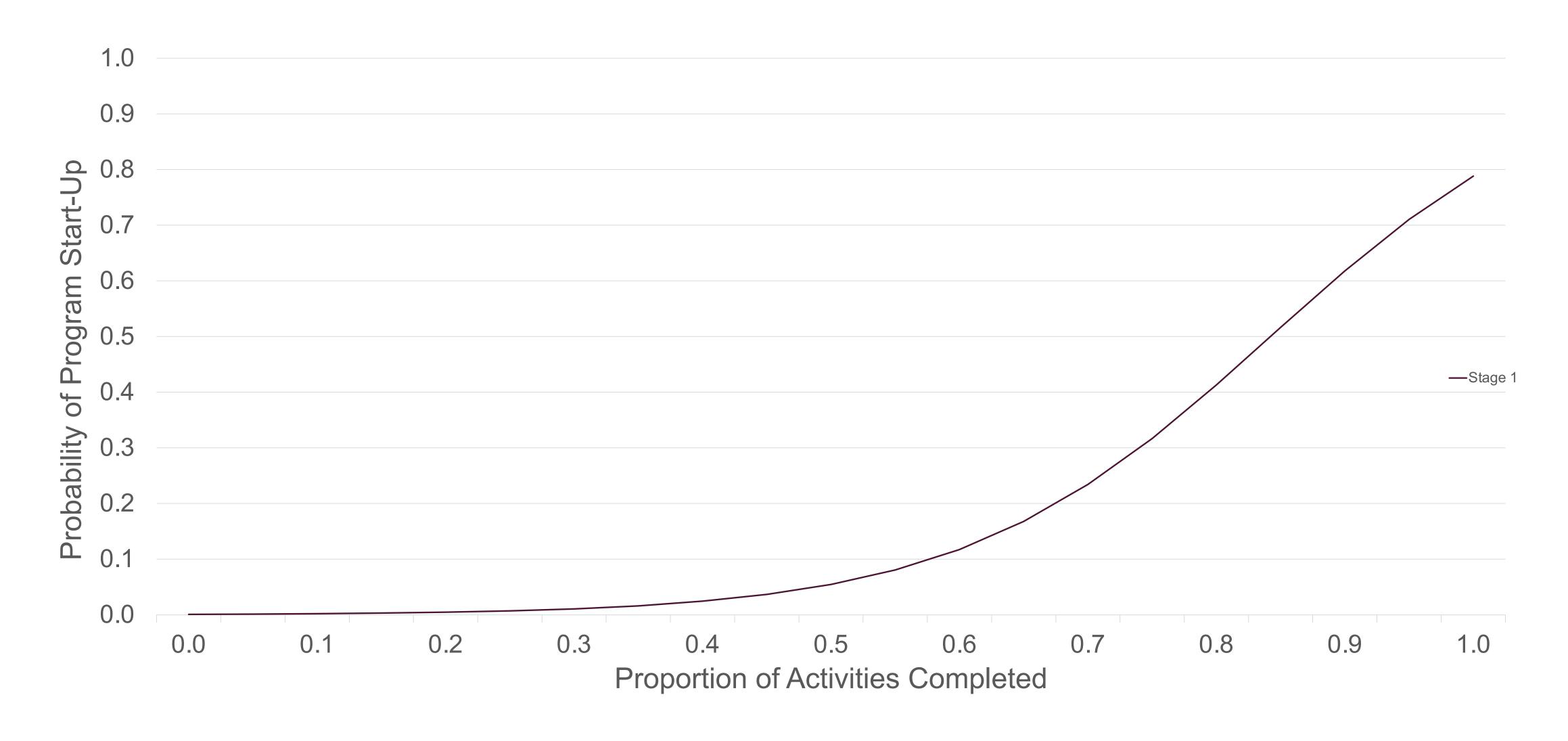
Site initially agrees to try implementation

Initial cost/resource information sent



Alley, Z.M., Chapman, J.E., Schaper, H, Saldana, L. (2023). The relative value of Pre-Implementation stages for successful implementation of evidence-informed programs. *Implementation Sci* 18, 30. https://doi.org/10.1186/s13012-023-01285-0

#### STAGE 1: ENGAGEMENT



### IS THE IMPLEMENTATION FEASIBLE IN THIS CONTEXT?

#### Stage 2: Consideration of Feasibility

Site planning contact

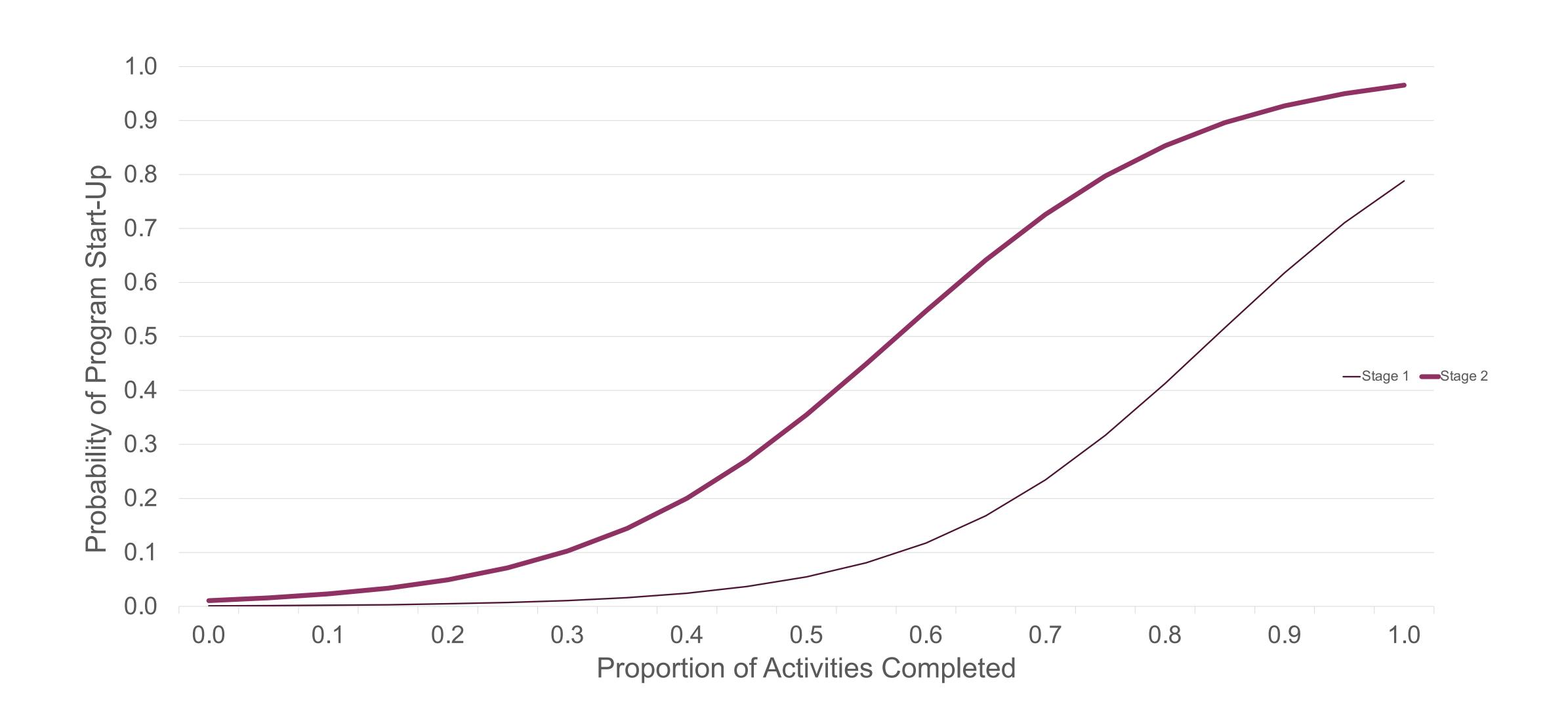
Community Partner Feasibility Session

Assessment of Feasibility to Do All Components

Program Champion Identified



## STAGE 2:ASSESSING FEASIBILITY 1,287



#### ESTABLISHING READINESS



#### Readiness Planning

Funding Plan – Short and Long-Term

Staffing – Hiring and Sequencing

Secondary Staffing – Recruitment and Support

Referral Criteria and Recruitment Plan

Communication Plan Finalized

Community Partner and Leadership Meeting

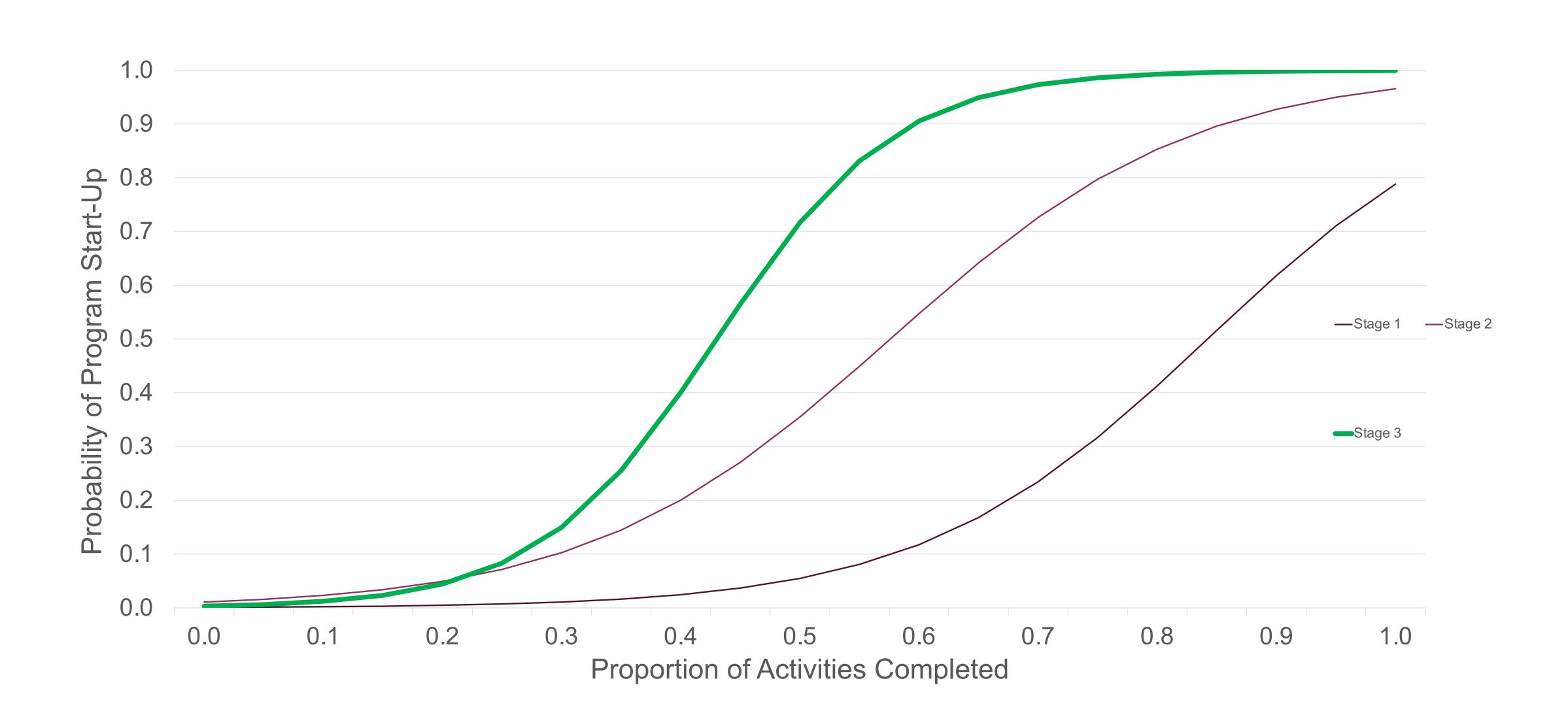
Written Implementation Plan Completed

Service Provider Identified

Contracts, MOUS, DUAs Completed

Site Receives Initial Intervention Materials

#### STAGE 3: READINESS 1,287

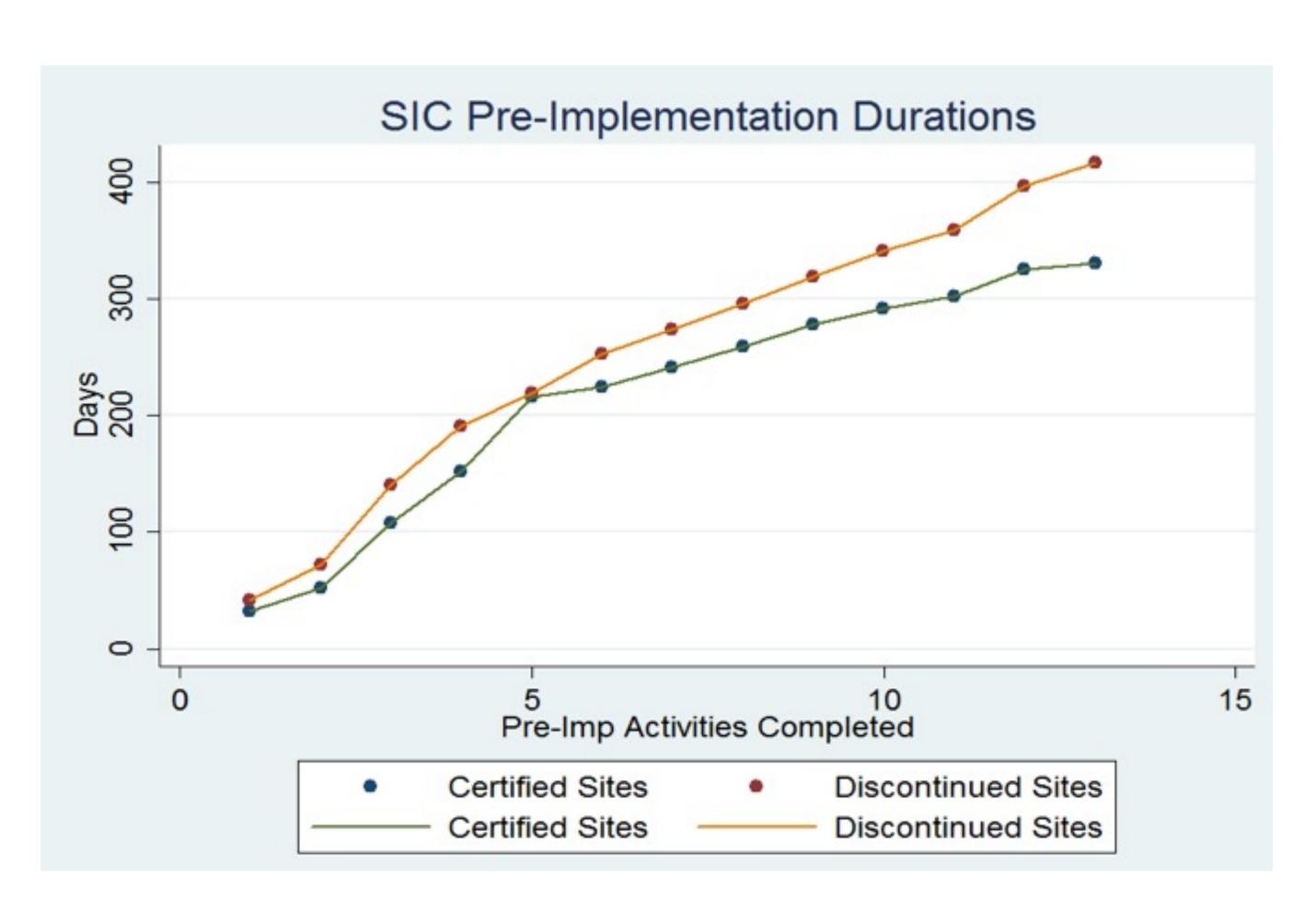


#### BUTWE KNOW...



Not All Programs That Launch Sustain

# COMBINATION OF PROPORTION AND DURATION MATTERS



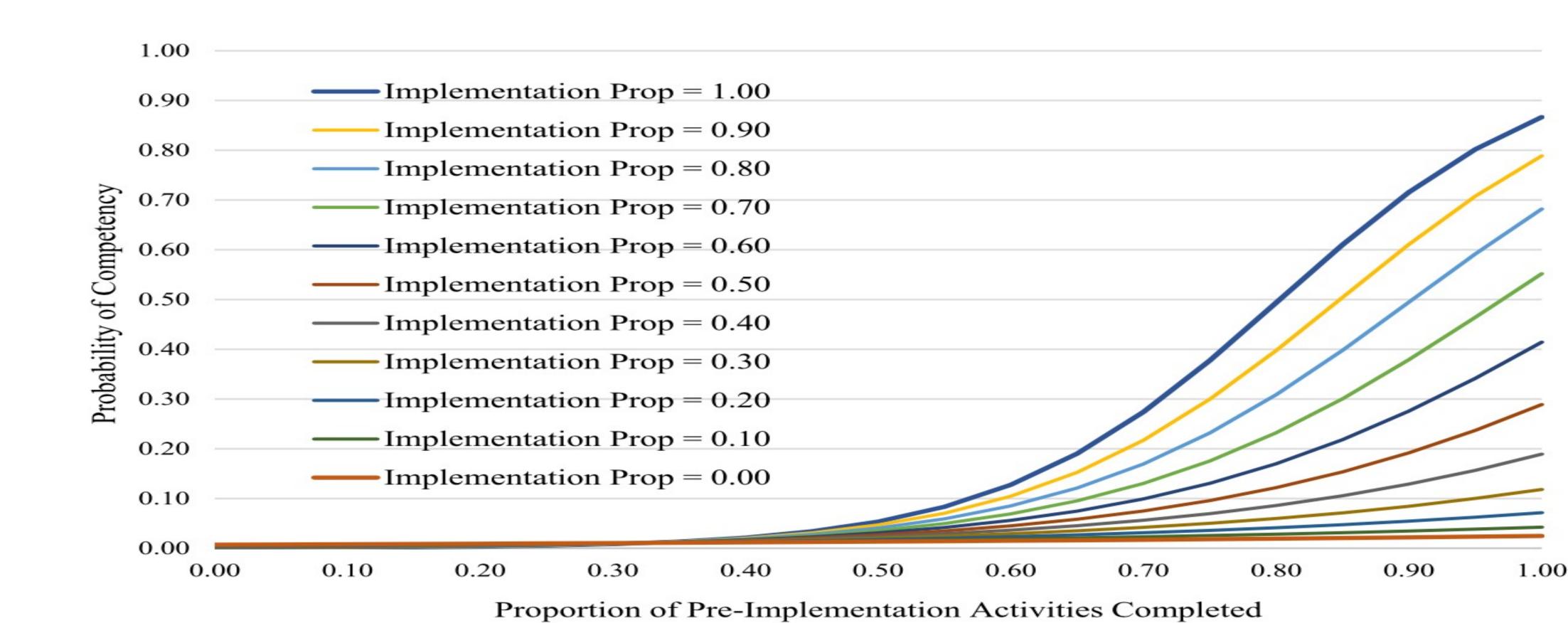
Across 8 EBPs in Different Service Sectors

Certified sites (n=70)

Discontinue (n=214)

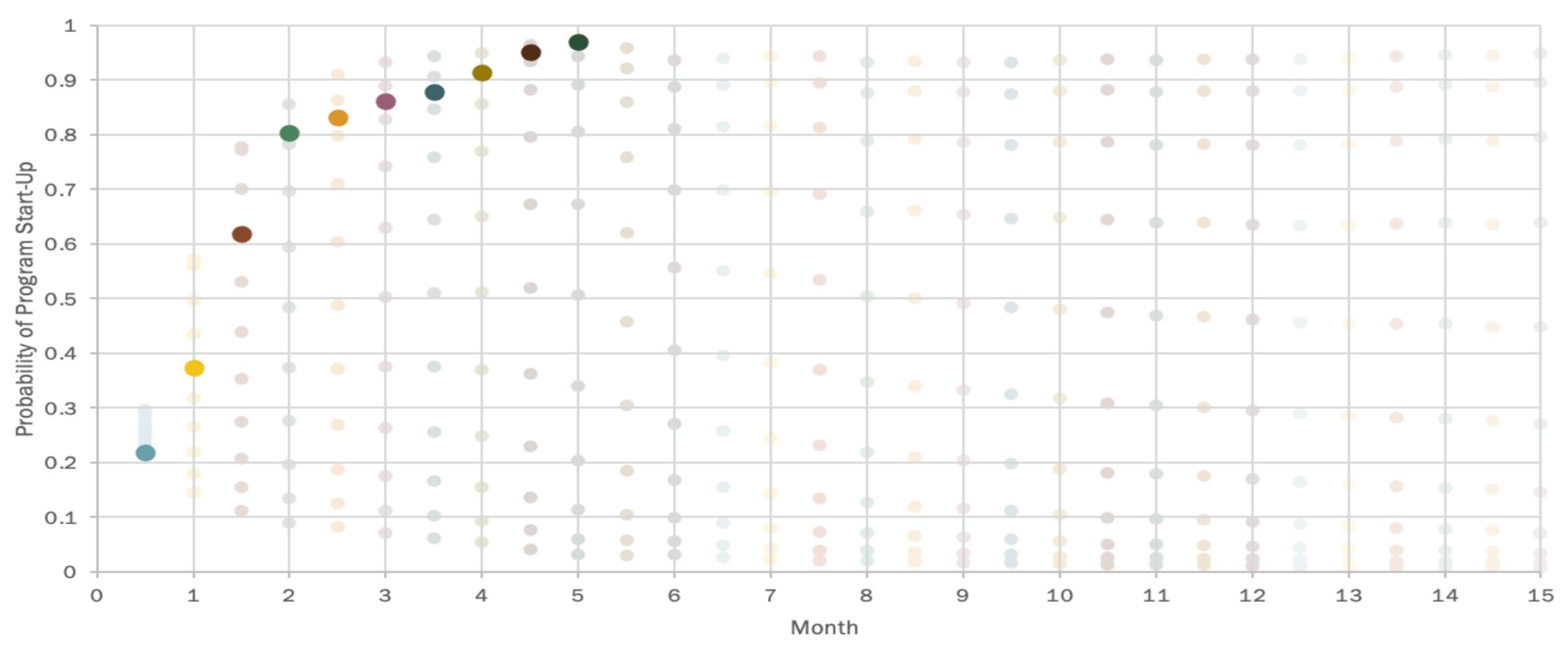
# PRE-IMPLEMENTATION AND IMPLEMENTATION BEHAVIOR PREDICTING COMPETENCE FOR SUSTAINMENT

Alley et al. Implementation Science (2023) 18:30



# How You Get There Can Look Different

#### Predicting Program Start-Up

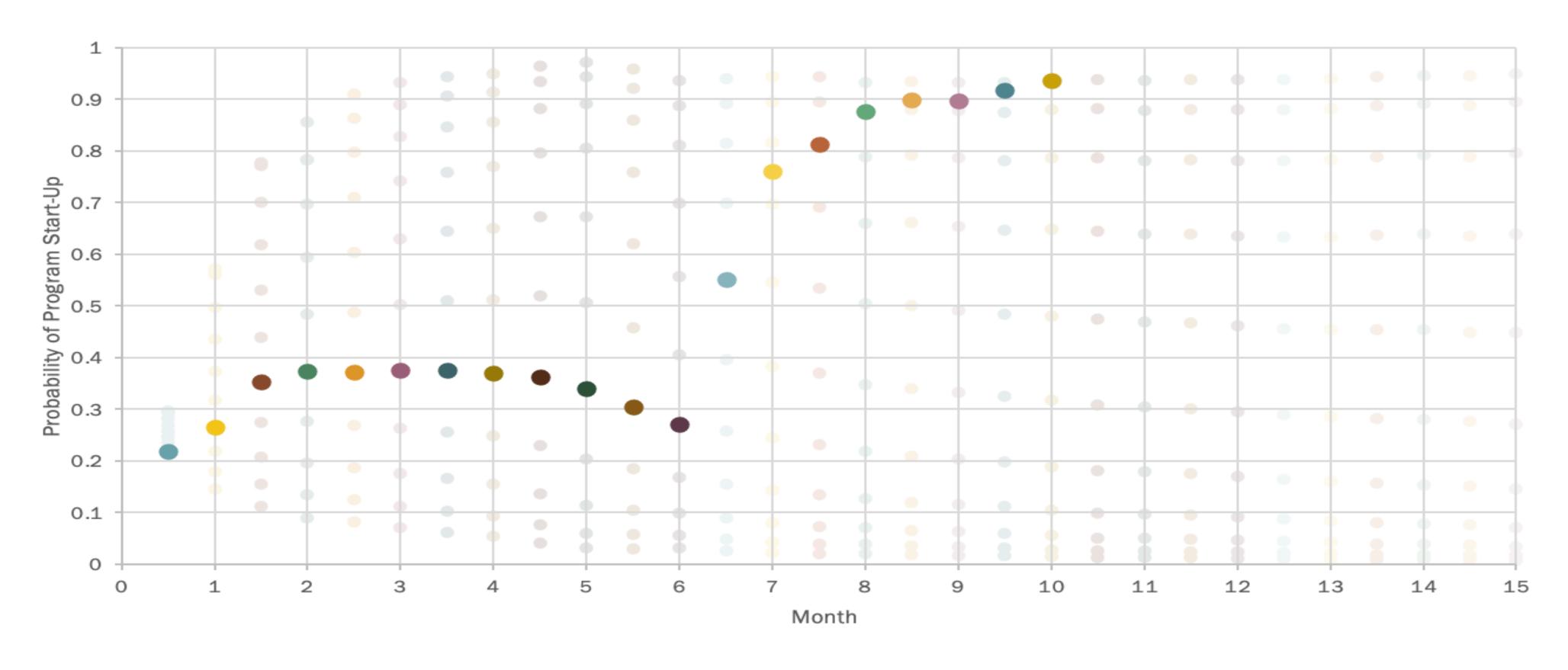


Example of a site that hits 80% by 2 months and continues at a steady pace

Note: No sites hit 80% probability prior to 2 months. This is the "fastest" successful pace available

### And You Can Recover

#### Predicting Program Start-Up



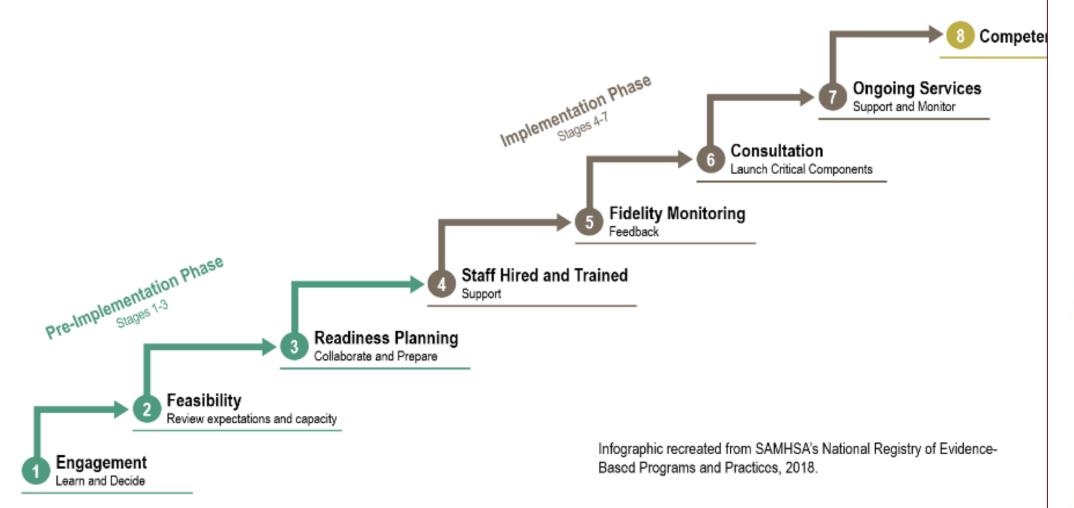
Example of a site that hits 40% by 2 months, then stalls out.

Eventually probability of successful launch starts to decrease. To correct for this, must jump-start -- must have high proportion and consistent movement through completion of pre-implementation

#### Resources

#### What is the SIC?

The Stages of Implementation Completion® (SIC) is an eight stage tool of implementation proc implementation, and initiation of sustainment. SIC scores have predicted variations in implementations



#### **User Guides**

**Missing Data** 

**Practice Frequencies Report** 

**Proportion and Duration Report** 

**Staff Turnover Tracking** 

**Outer Context Primer** 

**Outer Context Purveyor Handout** 

**Outer Context User Guide** 

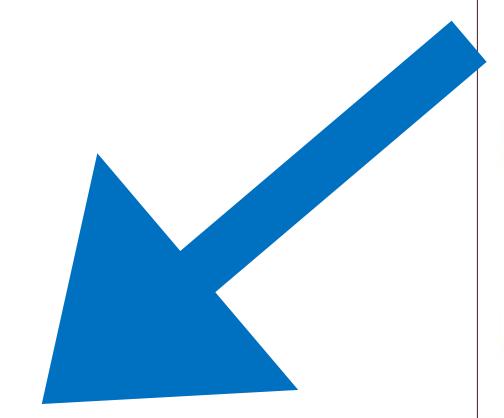
**SIC Website User Guide** 

**Call Guide Instructions** 

Cost of Implementing New Strategies (COINS)

**SIC Validation Resource** 

**SIC Progress Indicator Resource** 



#### **Pre-Implementation and Implementation Progress Indicators**



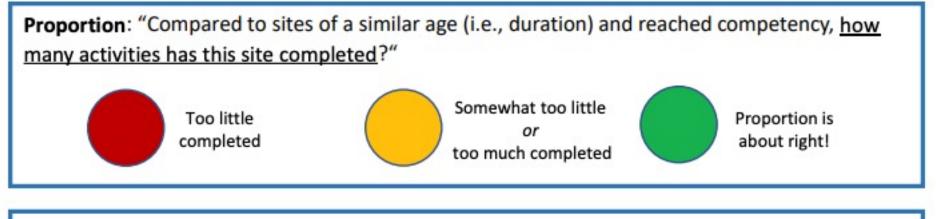
These indicators, located on the Teams List (or widget) page, can help gauge your team's (or site's) implementation progress.



#### The Progress Indicators offer two types of information:

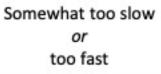
- 1) At-a-glance proportion and duration values.
- 2) Color progress indicators of how this implementation compares to other implementation efforts that reached competency (SIC Stage 8) when those efforts were at a similar point in their implementation.

#### The color indicators answer the following questions:



Duration: "Compared to sites that completed a similar number of activities (i.e., proportion) and reached competency, what is the pace of activity completion for this site?"

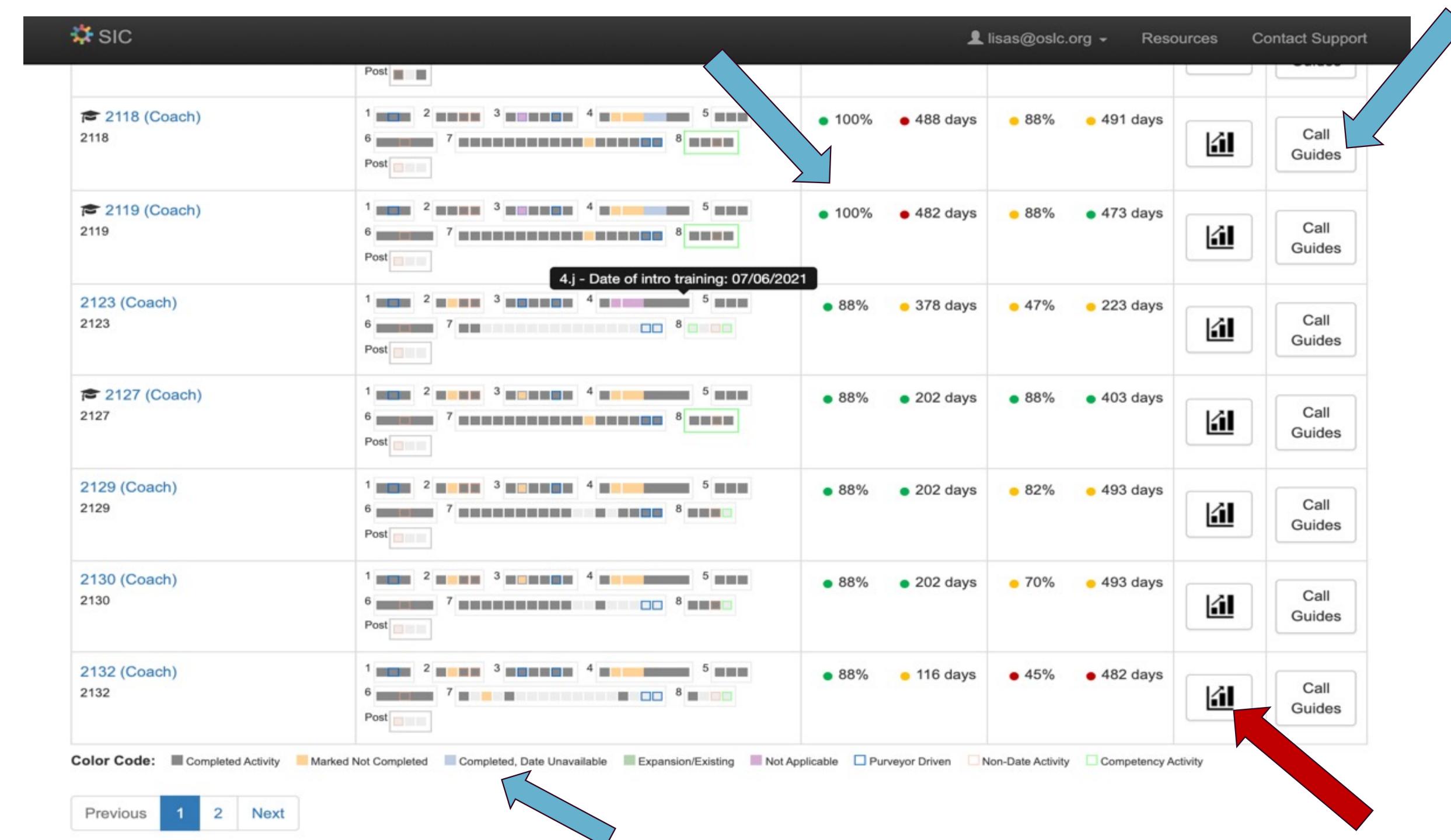






Duration is about right!





### STRONG PRE-IMPLEMENTATION SUPPORTS CHALLENGES



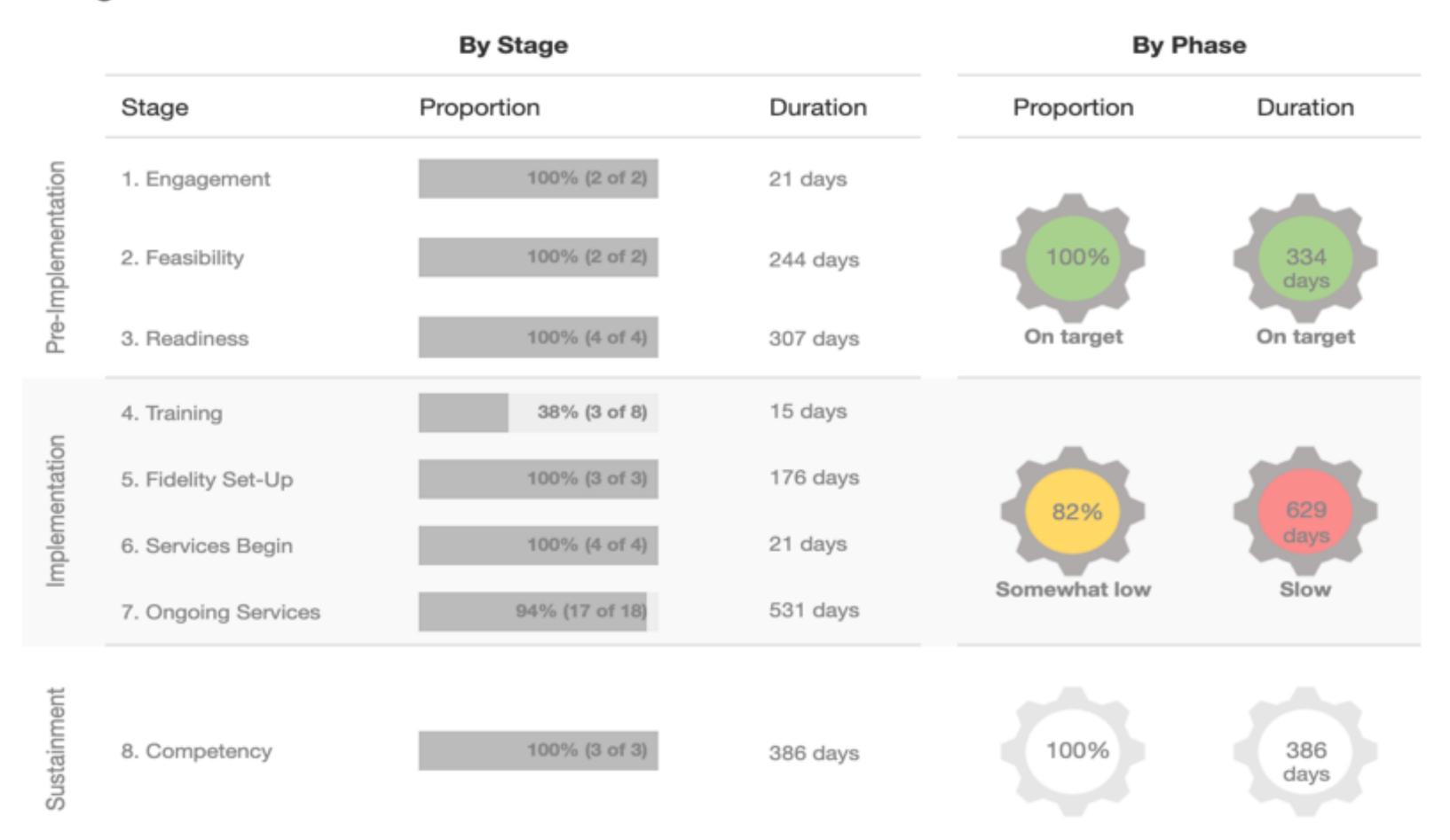
■ lisas@oslc.org -

Resources

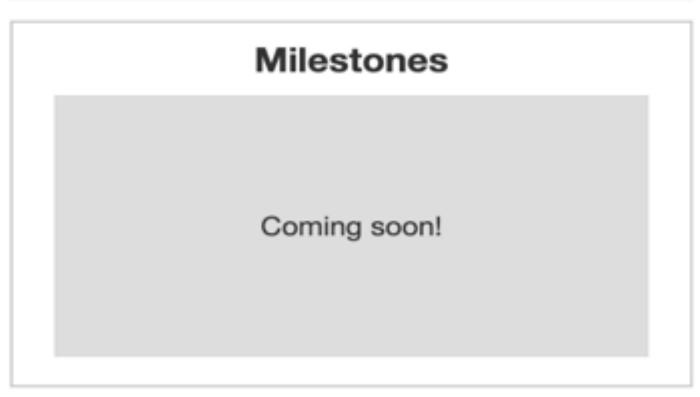
Contact Support



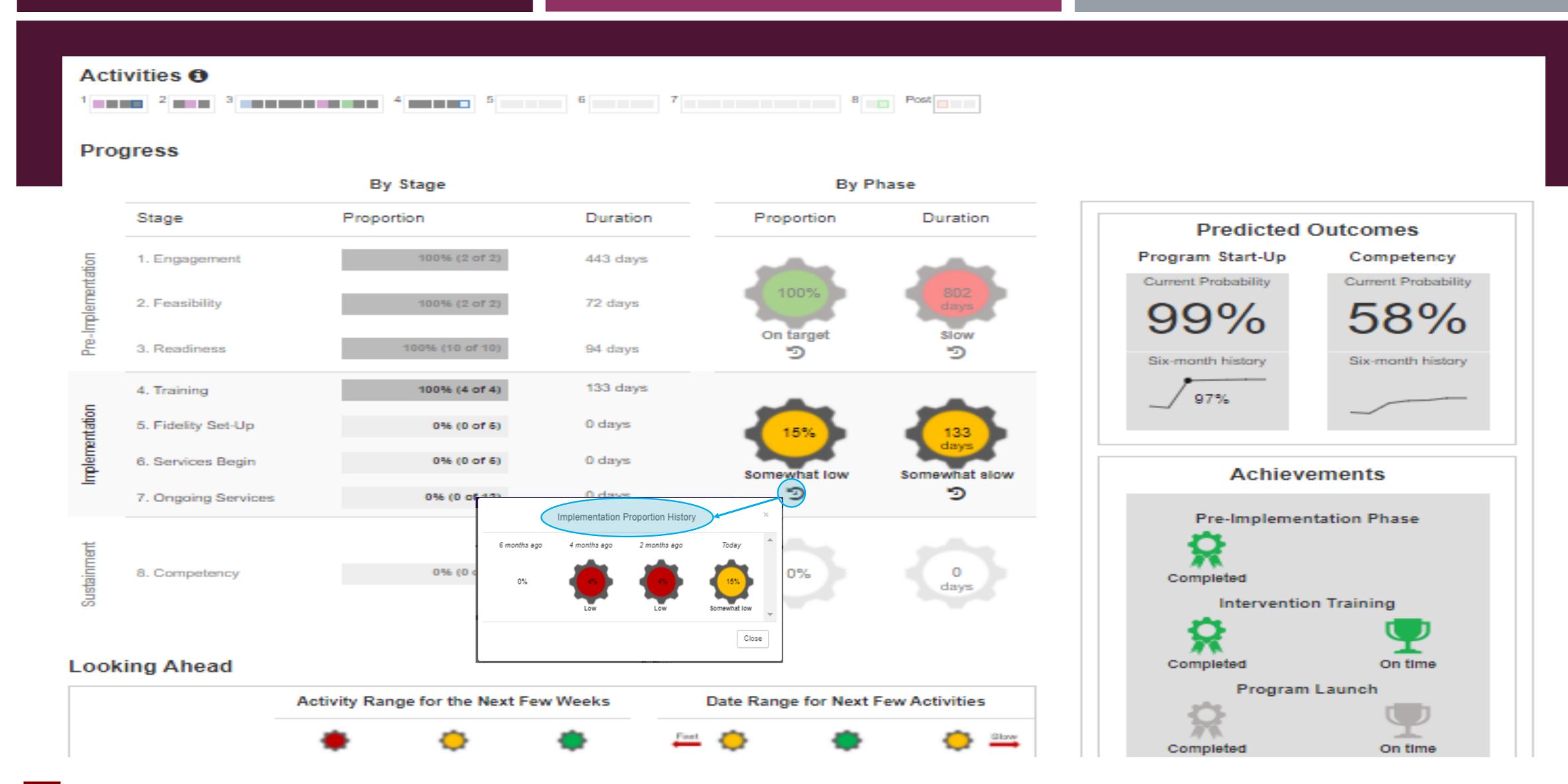
#### **Progress**







## POOR PRE-IMPLEMENTATION FIDELITY; NO FEEDBACK



# THE IMPLEMENTATION PATH CHOSEN IMPACTS RESOURCES



# COMMON PRE-IMPLEMENTATION COSTS

- Engagement phone calls with purveyor/developer
- Community Partner meeting (person hours and travel)
- Identifying Program Champion
- Establishing program feasibility (securing funding; determining billing) and associated documentation
- Organizational readiness process (Agency buy-in across levels; Leadership established) and associated documentation
- Establishing Referral Connections and Developing Referral/Screening Protocols



# COMMON IMPLEMENTATION COSTS

- Staff Hiring
- Training (not provided by EBP)
- Fidelity Monitoring Systems (e.g., IT tools- computers, video, audio;
   Service subscriptions- call centers, web-based systems)
- Clinical Supply Costs (e.g., incentives, supplies)
- Travel Costs (both for trainings and for intervention)
- New Additional Overhead Costs
- Increased Organizational Support (e.g., IT, Reception)

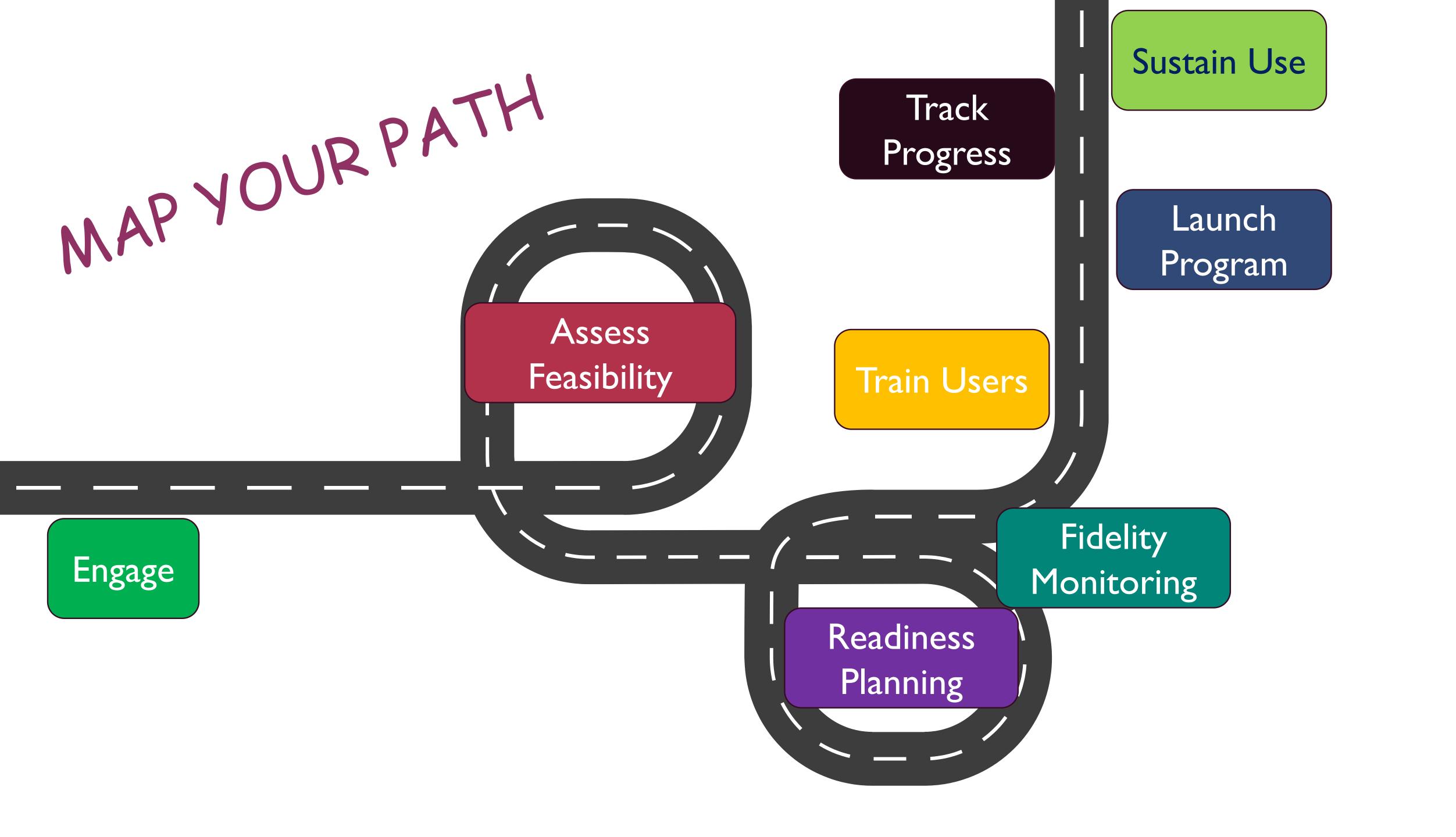
# COMMON SUSTAINMENT COSTS

- Ongoing and Recursive Implementation Costs
  - Community Partner Meetings
  - Referral Refreshers
- Booster Trainings or Consultation
- Turnover Costs
- Re-training, Re-engagement



### CONCLUSIONS AND NEXT STEPS

- The SIC is a measure of implementation fidelity across the full implementation process.
- Strong implementation fidelity considers "what" you do and "how" you do it.
- Facilitating strong implementation fidelity within new contexts and under unique environments, such as those targeted to address underserved populations, has the potential to facilitate implementation success and increase equitable access to EBPs.
- Purposeful selection and timing of implementation activities/strategies can help support an efficient and expected process, increasing the chance for a resource-intentional implementation.



# THANKYOU

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