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3. National Center for Principled Leadership collaboration with the Howard Hughes Medical and Research Ethics Institute (H (IMH (NCPRE),







### abs That Work

LTW is an online, asynchronous professional development program series tailored for lab environments to build leadership skills for better science through teamwork.



groups and individual interviews environments of active researchers, based on extensive focus

# LTW Development Principles:

- concepts; opportunities for reflection; practice; application Evidence-based, for transformative adult learning:
- Embedded in a nuanced feature film to increase retention

Relatable lab-based content to support intrinsic motivation

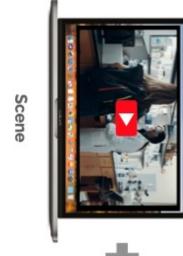
#### Practical Team Science Tools

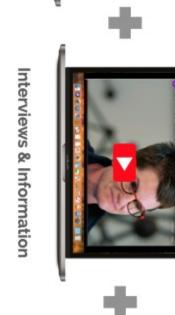
- Values articulation and goals
- Reflection and analytical decision-making frameworks
- Conflict resolution skills
- Aligning Listening and asking good questions for problem-solving And Stance to reduce conflict and find solutions through using
- Developing Individual Development Plans (IDPs)

## Stackable Components

lab leaders Series One is which lab groups gather to discuss the content together is foundational and designed for individual use by and members of their labs. It includes touch point touch points

Online Program Structure















Series Two is for researchers starting new laboratories development). (in

Mini-Series are designed to develop specific practical skills for work in team science environments: i.e., negotiation skills for feedback. teamwork and problem-solving; giving and receiving effective





## Methods

Participants (N = 171) completed an online survey and participated in the formal LTW professional development pilot program. A subset of participants completed qualitative interviews after completing the pilot program.

## Optional Program Pathways

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B Act-based ~4-5 months	A 1+ hour per week ~6+ months	Option*
Individual work (e.g., 1 act per month)	Lab together 1- 2 episodes per week	Process
Individual 4-6 hours/period Collective 1-3 h Lab discussions or retreats / period after review and accepta	Individually online (up to 1 hour)  Lab discussion (15-30 minutes/ week; occasionally longer)	Time
B Act-based Act-based Act-based Act-based Act-based Act-based (e.g., 1 act per month)  -4-5 months Act-based (e.g., 1 act per month)  -4-5 months Act-based (e.g., 1 act per month)  -4-5 months Act-based (e.g., 1 act per month)  -4-6 hours/period A-6 hours/perio	<ul> <li>Deeper reflection (individual, shared)</li> <li>Maximum engagement, skill building</li> <li>Lab trust building</li> </ul>	Benefits
<ul> <li>Less engagement</li> <li>Potentially reduced skill building (less practice, group reinforcement)</li> </ul>	<ul> <li>More group time</li> <li>Potentially awkward discussions, difficult topics</li> </ul>	Drawbacks

#### Quantitative Design

leaders (N = 171) prior to We administered a survey via Qualtrics to lab members and lab participation in LTW including:

- The Climate of Accountability, ARES) instrument measures interpersonal climate in labs Respect, and Ethics Survey
- measures perceptions of leadership skills in the lab Behavioral, Emotional, and Social Skills Inventory (BESSI)

#### Qualitative Design

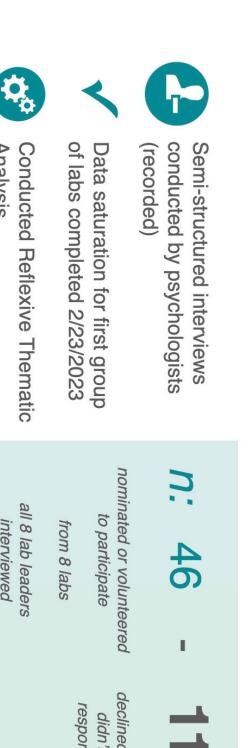
subset of After completing LTW, we collected qualitative data from a included: in-depth interviews conducted via Zoom. Sample questions participants (N = 35) through virtual semi-structured

What did you enjoy about LTW?" (i.e., likability)

What did you find helpful about LTW?" (i.e., utility)

How would you adapt LTW?" (i.e., future directions)

#### nterviews



Civility







#### Qualitative Pilot Results

Theme 1: Instrumental Attitudes toward LTW Program

- improved interpersonal communication skills challenges with program engagement

Theme 2: Experiential Attitudes toward LTW Program

- perceptions of increased closeness collective awareness of the commons

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Improved Interpersonal Skills

"Another thing I liked was the **personal scripts**. that that's helpful to have that formalized." I think

"It tended to really stop us in our tracks... it changed the way we taught a lot of the teaching fellows. We noticed changes in how they phrased things. [LTW]...shifts things to a more positive, more optimistic light. ... it changed the

## Increased Closeness

good vehicle for us to have discussions...We got to know each other on a different level [even though] we've worked together for quite a while" [and that] "was really valuable for the trans" overall impression was team. that the content itself

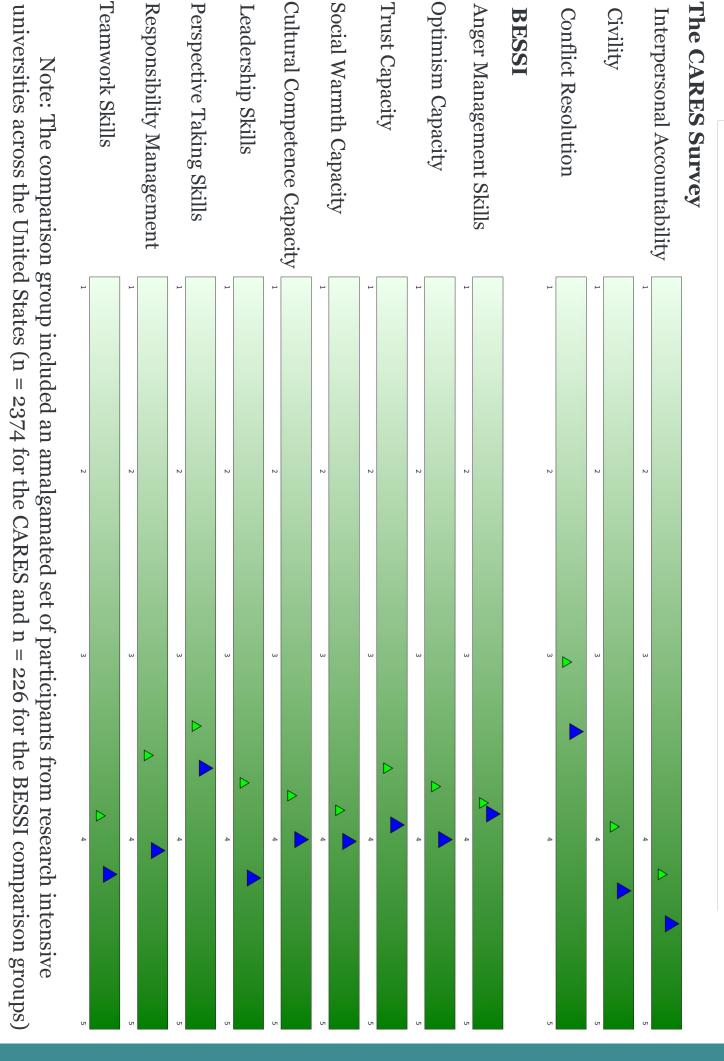


# **Shared Understanding of Common Experiences**

understanding of who they are and what they like and how they work...I think it gave us that space to... be able "...hearing other people list their values and what is important to them...it was like I had a better to have a better understanding of each other.

## Quantitative **Pilot Results**

The blue (largest) triangle / represents the mean of that scale across all The green triangle / represents the mean for the comparison group.



#### time: 48.5 minutes 32





## Conclusions

and Participants generally enjoyed the program and found value in both the lab discussions and in the practical skills tools.

Elements participants consistently reported liking:

- Quality and resonance of the film Talking with each other Moving to the "And Stance" for aligning to solve problems
- earning about and developing Personal Scripts
- Decision-Making Framework concept Normalizing sensitive topics for discussion

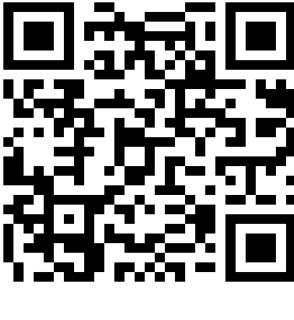


#### **Pilot Lessons** Learned

- support ab leaders needed more orientation, information, and
- ab members support before their labs start the program improved advance framing would help both leaders and
- Discussion support materials need streamlining
- support stronger engagement and learning mproved connection between film and content would

#### Ongoing **NCPRE** Work 0

- At least two Mini-Series are in development, focusing topics of "negotiation skills" and "effective feedback"
- Developing and producing Series Two ab" "On Starting



#### NCPRE

Developing values-driven, advancing institutional integrity through intentional professional development effective leaders