

# **Bridging Skills and Norms Survey**

#### Why a new set of questions?

The Listen First Project's first measurement tool, SCIM, works well for many community bridging organizations, but not all. In a series of interviews with leaders in the bridging field, the following pieces of feedback stood out:



We want to measure cohesion, collaboration, and belonging

The use of references to specific "others" isn't well-suited to our audience



#### Goals:

- A set of questions that can be used alongside or as an alternative to SCIM
- A set of questions that measures changes in **behavioral intentions** and **skills**
- A set of questions that measures collaboration and belonging
- A set of questions that does not reference specific outgroups

#### Validation Study 1

After an extensive literature review, we selected 60 potential items, representing 15 separate constructs, to pretest (displayed in Table 1). We recruited a nationally representative sample (N = 342) of participants to complete an online survey in which they responded to these 60 items.

## **Exploratory Factor Analysis**

First, we performed an exploratory factor analysis on the potential items and current SCIM (which respondents also completed), indicating how these constructs are related to each other. Shown below are the constructs that emerged as distinct from current SCIM items:

	Factor Loading		
	Bridging Skills	Community Belonging and Norms	
Bridge Building	0.737		
Bridge Builder	0.704		
Cooperation	0.353		
Motivation	0.771		
Belonging		0.538	
Collab Norms		0.800	
Conflict Norms		0.614	
Respect Norms		0.851	



As shown above, these 8 constructs are highly related to each other, but distinct from SCIM.

#### Reliability

All constructs\* (displayed in Table 1) had cronbach's alphas of > 0.76 and coefficient omegas of > .86, indicating that responses are **highly consistent** on these items. \*Only a subset of the motivation scale was highly reliable (items reflecting interest in learning/sharing one's own group), so only this subset was used for further analyses.

## Validity

One important step in validating a survey is testing whether the survey measures items that are related to, but distinct from existing scales (criterion validity). To establish criterion validity for BOSS, we also had participants complete six additional measures (comfortability expressing dissent, psychological safety, intergroup anxiety, ethnocentrism, dichotomous thinking, and antidemocratic norms).

- We expected our item set to be small to moderately correlated with the first 4 constructs, demonstrating convergent validity, and uncorrelated with the last 2 constructs (reflecting ingroup/outgroup thinking more similar to the SCIM framework), demonstrating discriminant validity.
- Of the 8 constructs identified by the EFA above, only Conflict Norms was shown to NOT have high convergent validity, and thus was dropped from the final list.

### Distribution

We examined whether the items were subject to ceiling effects by examining the medians. Of the 7 remaining constructs, only Cooperation was subject to ceiling effects, and thus was dropped from the final list.

In Study 1 we identified 6 constructs that were highly reliable, valid, and relatively normally distributed. We further tested the these items by measuring their change after a bridging intervention in Study 2.

#### Validation Study 2

We recruited a nationally representative sample (N = 261) of participants to complete an online survey in which they responded to these 6 constructs before and after a **10-minute intervention** provided by Civity. Respondents also completed the Belonging Barometer.

Five out of six constructs **significantly increased** after the bridging intervention (effect sizes were low, between d = .10 and d = .20). Respect norms had a marginal (p = .076) increase. This demonstrates the **practical validity** of these items.

We found that two items on the **Belonging Barometer** were more reliable, more likely to change, and more evenly distributed than the original belonging items, so we use these instead.



In Study 2 we demonstrated the practical validity of the **6 constructs** identified in Study 1, showing that they change in response to a bridging intervention and updated the **belonging** items. We examined several exploratory items designed to measure behavioral intentions in Study 3.

#### Validation Study 3

We recruited a nationally representative sample (N = 252) of participants to complete an online survey in which they responded to the 6 core constructs and **six exploratory behavioral intentions items** before and after a 10-minute intervention provided by Civity.

A few of the exploratory behavioral intentions items (donation to a bridging organization, civility pledge, interest in finding out more about the bridging organization) were also included in Studies 1 and/or 2. In Study 3, we added items about signing up for a bridging event and inviting others to sign up for the event.

Only one behavioral intentions item (donation) significantly increased after the intervention. However, due to its impractical application in real-world contexts, it was excluded from the set.

Based on these results and the limitations of the online pretest environment, we decided to include two behavioral intentions in the post-test only (sign-up and invitation).

In Study 3 we explored different items for **measuring behavioral intentions**. Based on the limited practical validity of these items (resistant to change after an intervention), we decided to include two exploratory items in the post-test only (signing up for another event and inviting others to the event).

The Finalized Item Set is reported here: BOSS.



**Table 1.**All Items Tested in Study 1

Construct	Items	Source	
	I can make a difference in my community	Holmes et al. (2022)	
Self-Efficacy for	I have confidence in my ability to help shift social norms about how we engage with others who are different from us/who disagree with us	Original items specific to bridging inspired by work by Holmes et al. (2022), Pulimood et al.	
Creating a Better Bridging	I have the abilities to contribute to a community that promotes collaboration between people who disagree		
Community	By working together, we can make conflicts between members of the community more productive	(2022), Pullificod et al. (2020), and Knapp et al. (2010)	
	By working together, we can make conflicts between members of the community more respectful and understanding		
0.15.55	I believe that through effort, I can improve the way I handle conflicts with others in my community	Original items specific	
Self-Efficacy for Becoming a Better Bridge-Builder	I am confident in my ability to have fruitful conversations with the people that I hate/disagree with the most	to bridging inspired by work by Holmes et al. (2022), Pulimood et al.	
	I can collaborate well with the people who I hate/disagree with the most	(2020), and Knapp et al. (2010)	
	When in conflict with [friend or family member], IWhen possible, treat the problem as one that can be solved by working together	Negotiation Evaluation Survey developed by Coleman & Lim (2001) and used in published research by the	
	When in conflict with [friend or family member], ISeek and build on areas of agreement between myself and the other		
Cooperation Skills	When in conflict with [friend or family member], IMake suggestions about working more cooperatively together or sharing resources		
	When in conflict with [friend or family member], IAct as if I were a partner rather than an enemy	Constructive Dialogue Institute	
	When in conflict with [friend or family member], ISuggest solutions that address what is important to all parties	1	
	I like to learn about groups different from my own		
	It is important for me to educate others about my group		
	Sharing stories and experiences of my groups with others matters a lot to me		
Motivation to Bridge	As I learn more about other groups, I find myself wanting to learn more about people of my own group	Gurin et al. (2013)	
Differences	I don't feel the need to help people from different groups learn from each other (R)		
	I don't care if other people understand my group (R)		
	I don't enjoy getting into unfamiliar situations involving members of other groups (R)		



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	I want to help improve relationships between different identity groups in my school		
	It is important for me to educate others about the identity groups to which I belong	Spencer et al. (2008)	
	I like to learn about identity groups different from my own		
	I want to bridge differences between different identity groups		
	I feel a sense of belonging in my community	Adapted from Bollen &	
	I see myself as part of a larger community	Hoyle (1990)	
Belonging	My thoughts and opinions are valued in my community	Original items specific to bridging inspired by	
	I am welcomed by others in my community, even if we disagree	work by McColl et al. (2001), Levett-Jones et al. (2009), and Allen et al. (2021)	
	[Descriptive] People in my community make frequent and meaningful efforts to collaborate with people who are different from them/who they disagree with		
	[Injunctive] People in my community believe it is important to collaborate with people who are different from them/who they disagree with		
Collaboration Norms	[Injunctive] People in my community expect others in the community to collaborate with people who are different from them/who they disagree with		
	[Dynamic-Descriptive] The number of people in my community who believe it is important to collaborate with people who are different from them/who they disagree with is increasing over time		
	[Dynamic-Injunctive] The number of people in my community who make frequent and meaningful efforts to collaborate with people who are different from them/who they disagree with is increasing over time		
	[Descriptive] When talking to someone they disagree with, most people in my community try to change the other person's opinion (R)	Original items specific	
Conflict Name	[Descriptive] When talking to someone they disagree with, most people in my community do not try to learn anything from others work by Gu (2004), Gur		
Conflict Norms	[Injunctive] When talking to someone they disagree with, most people in my community think it is important to try to change the other person's opinion (R)	(2013) and general research on social norms (for a review, see Shulman et al., 2017)	
	[Injunctive] When talking to someone they disagree with, most people in my community think it is important to learn from the other person		
Respect Norms	[Descriptive] People in my community respect others who do not share their values	Original items specific to bridging inspired by	



	[Injunctive] People in my community believe it is important to respect others who do not share their values	work by Gudykunst (2004), Gurin et al.	
	[Injunctive] People in my community expect others to respect others who do not share their values	(2013) and general research on social norms (for a review, see Shulman et al., 2017)	
	[Dynamic-Descriptive] The number of people in my community who believe it is important to respect others who do not share their values is increasing		
	[Dynamic-Injunctive] The number of people in my community who respect others who do not share their values is increasing over time		
	For participating in this survey, you will be entered into a raffle to win \$\$\$. If you win, you can donate some of your money to a non-governmental organization or charity.	For similar items, see	
Donation	X is an organization that seeks to bridge differences between people.	Hoskin et al. (2018), Graf & Sczesny (2019), and Reimer et al. (2017)	
	Please indicate below how much you would like to donate of your potential reward.		
	I do not apply my values when judging strangers (R)		
	I see people who are similar to me as virtuous	Brewer (1981)	
	I cooperate with strangers (R)		
	I prefer to associate with people who are like me		
	I trust strangers (R)		
Ethnocentrism	I am obedient to authorities		
	I do not fear strangers (R)		
	I try to maintain distance from members of other groups		
	I do not blame strangers for troubles I have (R)		
	I believe that my values are universal values		
	To what extent do you think opinions different from yours are worth considering?	Adapted from Strickler	
	To what extent do you think opinions different from yours are reasonable?	(2018)	
Value Disagreement	Disagreement is valuable for a healthy democracy	Original items specific	
	Disagreement is necessary in order to achieve progress in a community	to bridging inspired by the disagreement is destructive subscale (Cramer, 2001)	
Value Diversity	A community with a high degree of cultural diversity is better able to tackle new problems	Wallrich et al. (2020)	
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A community with a high degree of ideological diversity is better able to tackle new problems	Adesokan et al. (2011)