Team Science Boot Camp: Annual Trainings of to Improve Team Performance

Science of Team Science Conference Lansing, Michigan







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#### University of Washington (UW)

#### **INSTITUTE OF TRANSLATIONAL HEALTH SCIENCES (ITHS – CTSA)**

#### ITHS Team Science Aim (2017-2022):

To develop, implement, & evaluate team science education & training models to support existing & new interdisciplinary research teams





#### Team Science Boot Camp – Foundation

Adapted from a national training model for health professions faculty & educators



Train-the-Trainer Interprofessional Team Development Program (T3-ITDP)



- ▶ Leading change
- ► Project management
- ▶ Team dynamics
- Interprofessional curricular design
- Assessment & evaluation

### Team Science Boot Camp – Training Goals





#### **Individuals**:

- Personal or social styles
- Conflict preference modes
- ▶ Biases (implicit & professional) & stereotypes
- Leadership

#### <u>Teams</u>:

- Structures
- Psychological safety & building trust
- Professional development

#### **Team Processes:**

- Shared goals
- Roles & responsibilities
- Communication
- Shared decision-making

#### Team Science Boot Camp – Program

#### **PURPOSE: IMPROVE TEAM PERFORMANCE & PRODUCTIVITY**

- Offered annually:
  - ITHS-affiliated research teams
- Interdisciplinary team members required
- Size of team ranges from 3 to 12
- ► Total number of trainees capped at 60





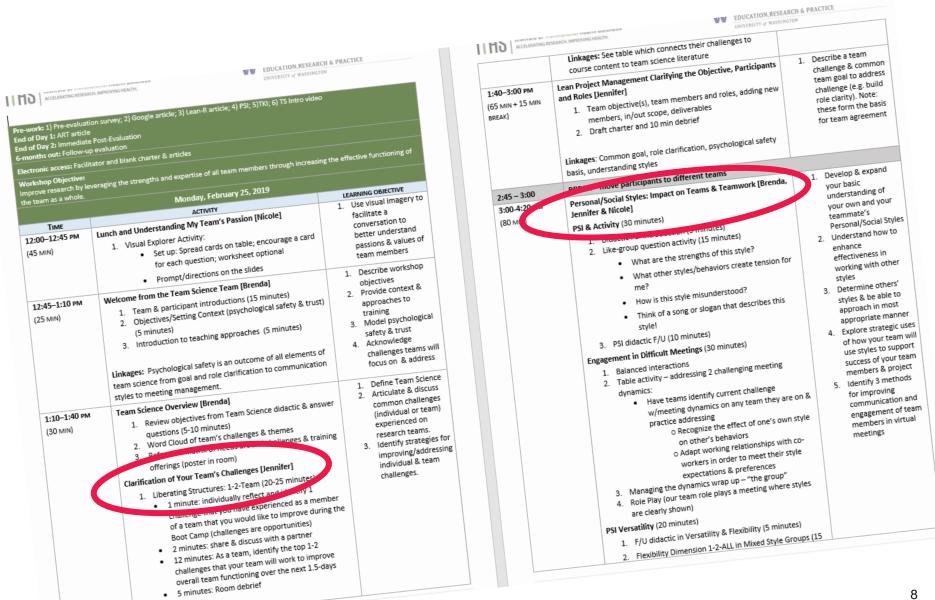
### Team Science Boot Camp – Approach

- 1 Baseline assessment (team composition, structures & challenges)
- Pre-work (e.g. Personal Styles Inventory, Thomas Kilmann Conflict Mode Instrument, Lean charter, articles)
- 3 In-person training (1.5 days) with team
- 4 Ongoing coaching as needed
- 5 Follow-up evaluations (immediate & 6 months)

#### Team Science Boot Camp – Teaching Strategies



# Team Science Boot Camp – Sample Agenda



#### **Examples of Team Challenges**

New Team Members **Task Management Productivity** Preventing Burnout Delegation **1eS**Maximizing Strengths Standard Operating Procedures **Efficiency** Virtual Communication Communication Workloads **Professional Development** Multiple Projects Accountability Interdisciplinary Resources Conflict Management **Shared Decision-Making** Project Management

Leadership Rapid Scale U

Shared Goals Rapid Scale Up

#### Team Science Boot Camp – Trainees

- ➤ Year 1 (February 2018):
  - ITHS core teams
  - N=53 (14 teams)
- ➤ Year 2 (February 2019):
  - Research teams
  - N=38 (6 teams)







#### **Psychological Safety**

To what extent do you feel psychologically safe in your work with your research team?

Key: To no extent =1, To a small extent =2, To a moderate extent =3, To a great extent =4, To a very great

	N	Mean	Standard Deviation
Pre-Evaluation	16	3.75	1.03
Post-Evaluation	16	3.88	0.99

# From Pre to Post Evaluation

Change in mean:

0.13

#### **Level of Agreement**

Please rate your agreement with the following statements that pertain to your research team Key: Strongly disagree = 1, Disagree = 2, Neither agree nor disagree = 3, Agree = 4, Strongly agree = 5

	Pre-Evaluation		Post-Evaluation			Pre to Post	
Questions:	N	Mean	Standard Deviation	N	Mean	Standard Deviation	Change in mean
I have a clear understanding of roles & responsibilities for all team members.	16	3.25	0.90	16	3.31	1.04	0.06
Our team is very hierarchical based on rank and position.	16	2.69	0.77	16	3.00	1.00	0.31
Having a different perspective is valued on this team.	16	3.69	0.77	16	4.13	0.60	0.44
I am comfortable taking risks on this team.	16	3.63	0.86	16	3.81	0.95	0.19
I value and respect others' contributions.	16	4.81	0.39	16	4.69	0.46	(0.13)
I can depend on other members of the team to do their work.	16	3.75	0.90	16	3.94	0.75	0.19
I value the different Personal/Social styles of our team members.	16	3.69	0.58	16	4.38	0.60	0.69

#### **Level of Agreement**

Please rate your agreement with the following statements that pertain to your research team Key: Strongly disagree = 1, Disagree = 2, Neither agree nor disagree = 3, Agree = 4, Strongly agree = 5

	Pre-Evaluation		Post-Evaluation			Pre to Post	
Questions:	N	Mean	Standard Deviation	N	Mean	Standard Deviation	Change in mean
We have established processes for making decisions.	16	2.44	0.93	16	2.88	0.86	0.44
We have established processes for communicating with geographically dispersed team members.	13	3.31	0.99	13	3.46	1.15	0.15
I understand how to address conflict when it arises on this team.	16	2.94	1.03	16	3.19	0.95	0.25
I receive feedback on my effectiveness as a member of this team.	16	2.94	0.83	16	2.69	0.92	(0.25)
I provide feedback to members of the team for improving their effectiveness.	16	2.81	0.95	16	2.63	0.86	(0.19)
Our team leader(s) fosters a positive environment for collaboration.	16	3.56	1.06	16	4.19	0.95	0.63

#### **Likely to Apply**

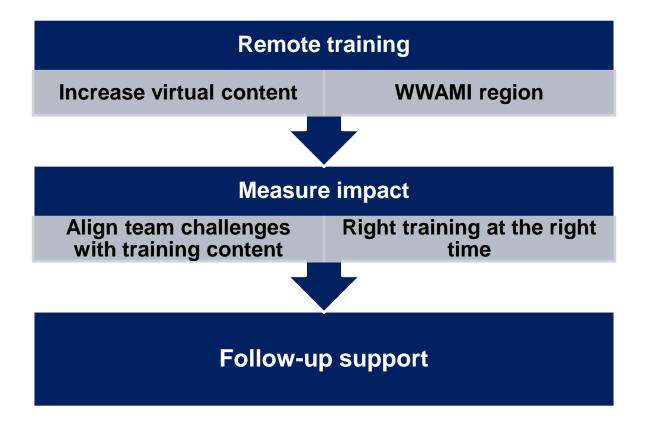
How likely is it that you or your team will apply learning from these Boot Camp topics in your project/work?

Key: Wont apply =1, Might apply =2, Will apply =3

	Post-Evaluation (only)			
	N	Mean	Standard Deviation	
Lean Project Management	24	2.75	0.43	
Personal/Social Styles	24	2.38	0.63	
Team Agreements	25	2.80	0.40	
Engaging with Conflict	25	2.44	0.57	
Giving & Receiving Feedback	24	2.50	0.58	

#### Next Steps

#### **CONTINUE TO TRAIN RESEARCH TEAMS:**





"Attending the Team Science training made such a difference. I am a new leader and was struggling how to facilitate a feeling of a team and that we are working toward a common goal. Now the team feels more empowered and we are working together. (What I interpret as) the feeling of being part of a team has made each of them show more commitment to the study and also more open to share ideas. I am telling everyone about this training, it was like water to wine."

Daniela Luquetti (2019 Boot Camp)

# Questions?

#### **CONNECT WITH ITHS**

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