

Online Team-Based Learning (“TBL”) for Active and Collaborative Faculty Development Workshops

Brian O’Dwyer

CognaLearn, Executive Chairman and Commercial Founder
Embry-Riddle Aeronautical University Asia (Singapore Campus), Adjunct Faculty
Duke-National University of Singapore Medical School, Former Entrepreneur-in-Residence



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- The presenter is the Commercial Founder of and has a financial interest in CognaLearn. CognaLearn is the company that developed www.intedashboard.com, which is TBL software developed in collaboration with Duke-National University of Singapore Medical School. InteDashboard™ is one of the technology tools used in the online workshops.

I am a team-based learning...

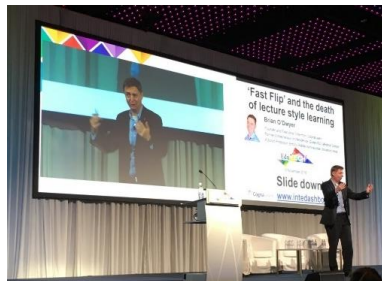
Educator



Entrepreneur



Enthusiast



Parent



Team-based learning (“TBL”)

In class: theory

In class: apply



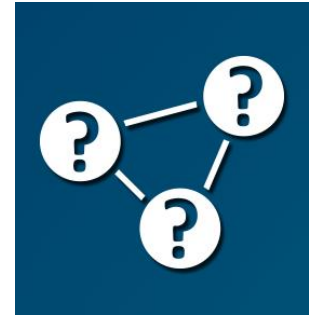
1. Pre-work



2. Quiz



3. Team
quiz



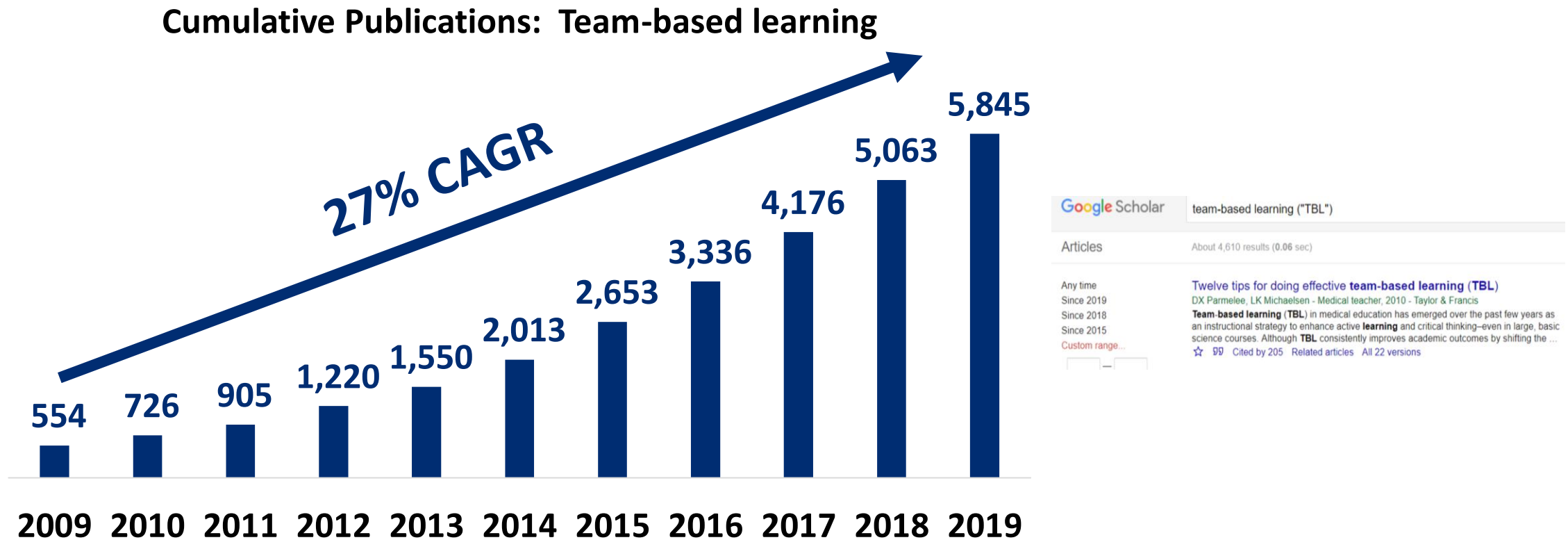
4. Clarify
doubts



5. Team
applications

Also 360° teammate peer evaluation

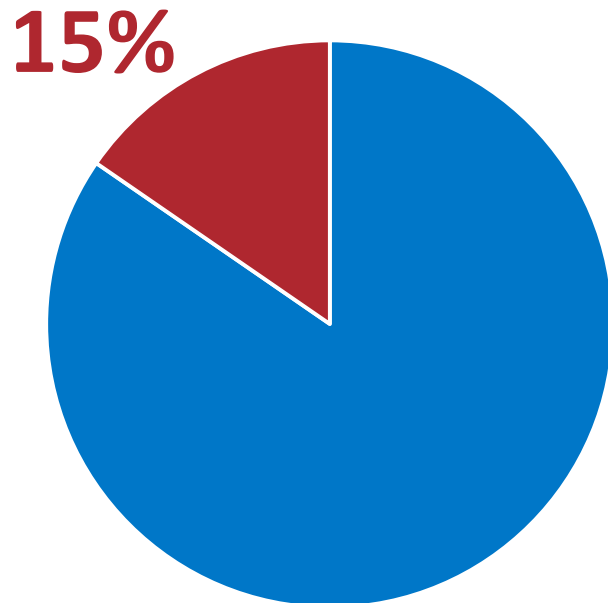
TBL penetration: over 5,000 TBL publications growing at 27% annually



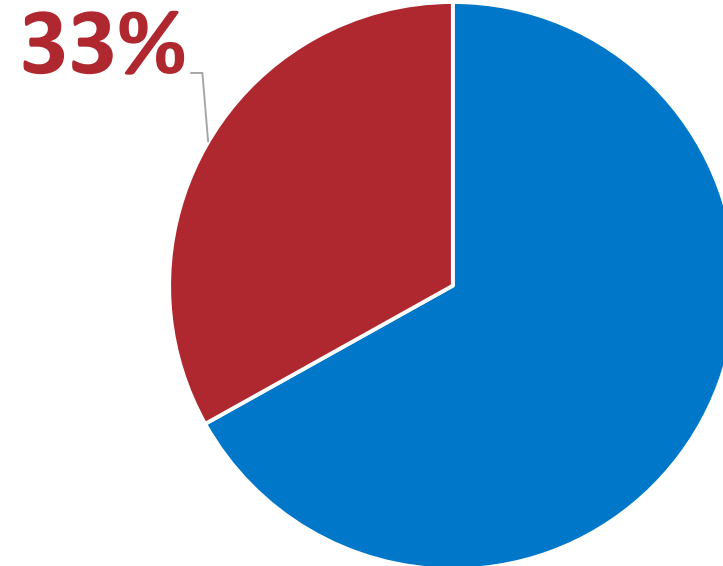
Source: Google Scholar retrieved from [https://scholar.google.com/scholar?as_vis=1&q=team-based+learning+\(TBL\)&hl=en&as_sdt=1,5](https://scholar.google.com/scholar?as_vis=1&q=team-based+learning+(TBL)&hl=en&as_sdt=1,5) on 9 January 2020. CAGR = Compound Annual Growth Rate.

Online higher education on the rise

Exclusively online



Some online



Source: 2017 data from United States Department of Education reported by Inside HigherEd on 7 November 2018 and retrieved from <https://www.insidehighered.com/digital-learning/article/2018/11/07/new-data-online-enrollments-grow-and-share-overall-enrollment> on 26 August 2019

Limitations of existing TBL faculty development

In Person

- Requires specific physical locations or timings

Webinar

- Generally passive content transmission – hard to teach active learning with passive learning

Can we EXPAND ACCESS (not replace) to TBL faculty development with active collaborative online learning?

Method: TBL faculty development workshops delivered with synchronous online TBL (same time, different places)

Web Conference with Virtual Team Rooms

Team-Based Learning Web Software



TBL faculty workshops

16 Online Workshops

- **Timing:** two hours each between August 2018 and August 2019
- **Cost:** free of charge
- **Registration:** 761 *(55% no show rate)*
- **Attendance:**
 - Total: 342
 - **Mean: 23**
 - Range: 6 smallest – 36 largest
- **Feedback survey:** 43% response rate

Workshop Topics

Topics included:

- Developing TBL Modules (4x)
- Implementing TBL Online (4x)
- Introduction to Team-Based Learning
- Designing Effective Objectives and Quality MCQs
- Mastering your Online Facilitation Skills in Team-Based Learning
- Peer Evaluation – the Achille's heel of TBL
- Scaling up the use of Team-Based Learning

Two Hour Online TBL workshop example

Plenary

- **Introduction:** 10 minutes
- **Individual Readiness Assurance Test :** 20 minutes
- **Clarifications:** 15 minutes
- **Facilitated Discussion:** 25 minutes
- **Closing:** 15 minutes

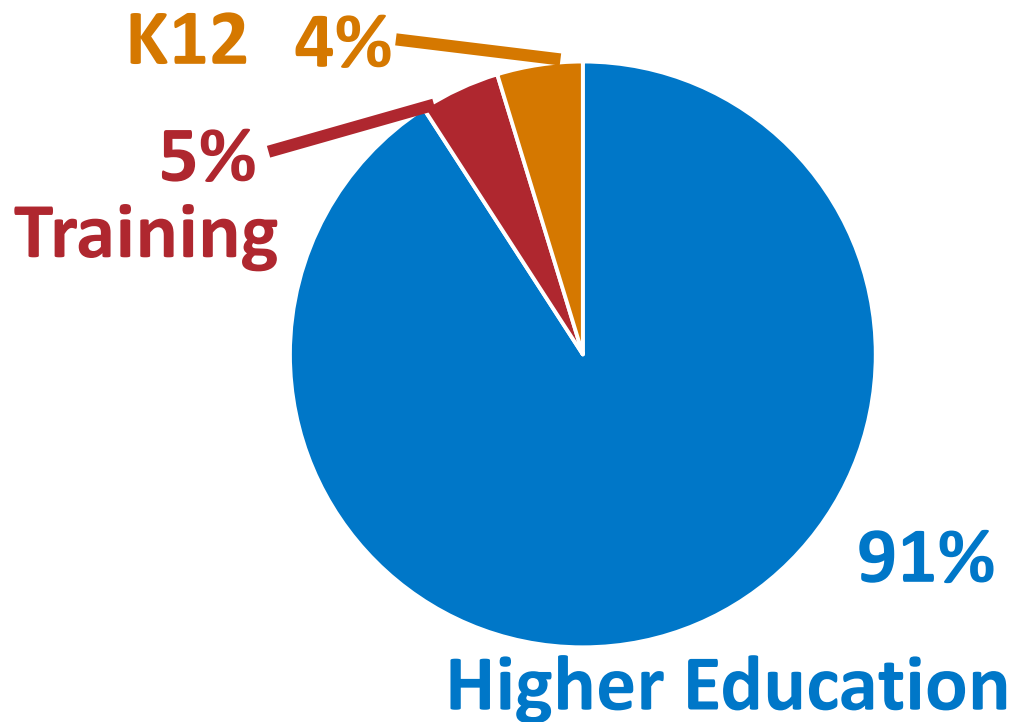
Team Breakout Rooms

- **Team Readiness Assurance Test:** 15 minutes
- **Team Application Exercises:** 20 minutes

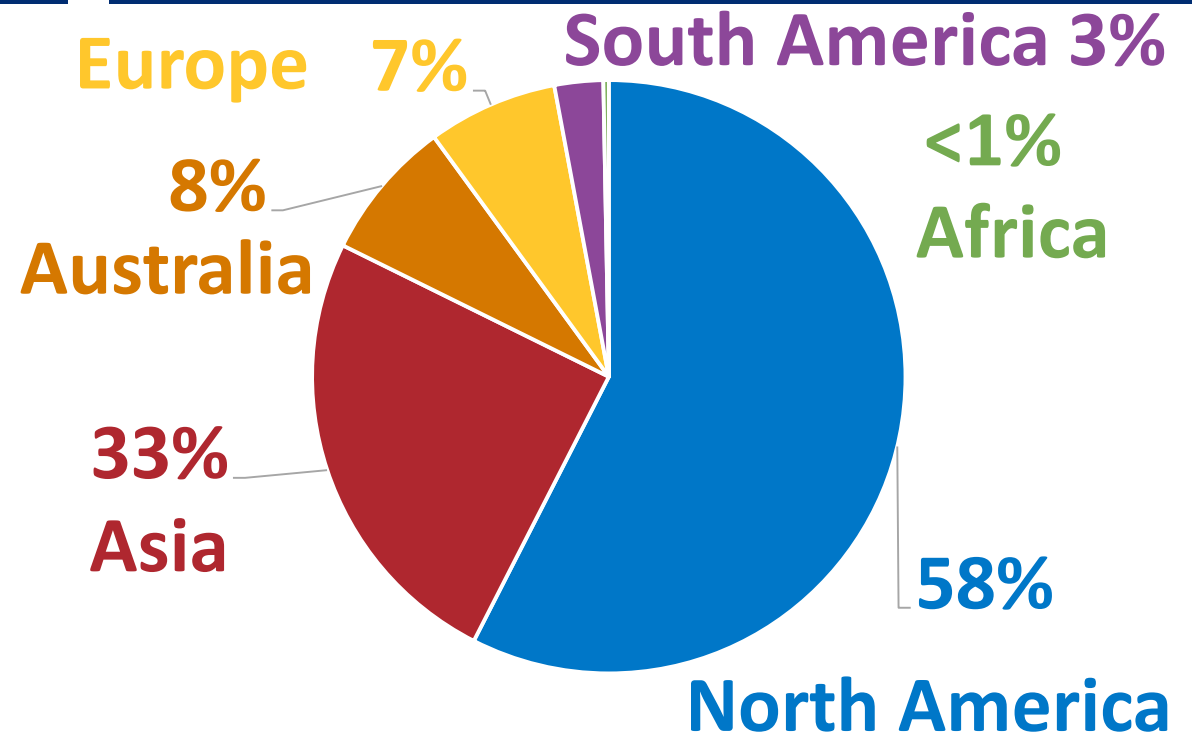
Participant profile:

27 countries from six continents

Institution Type



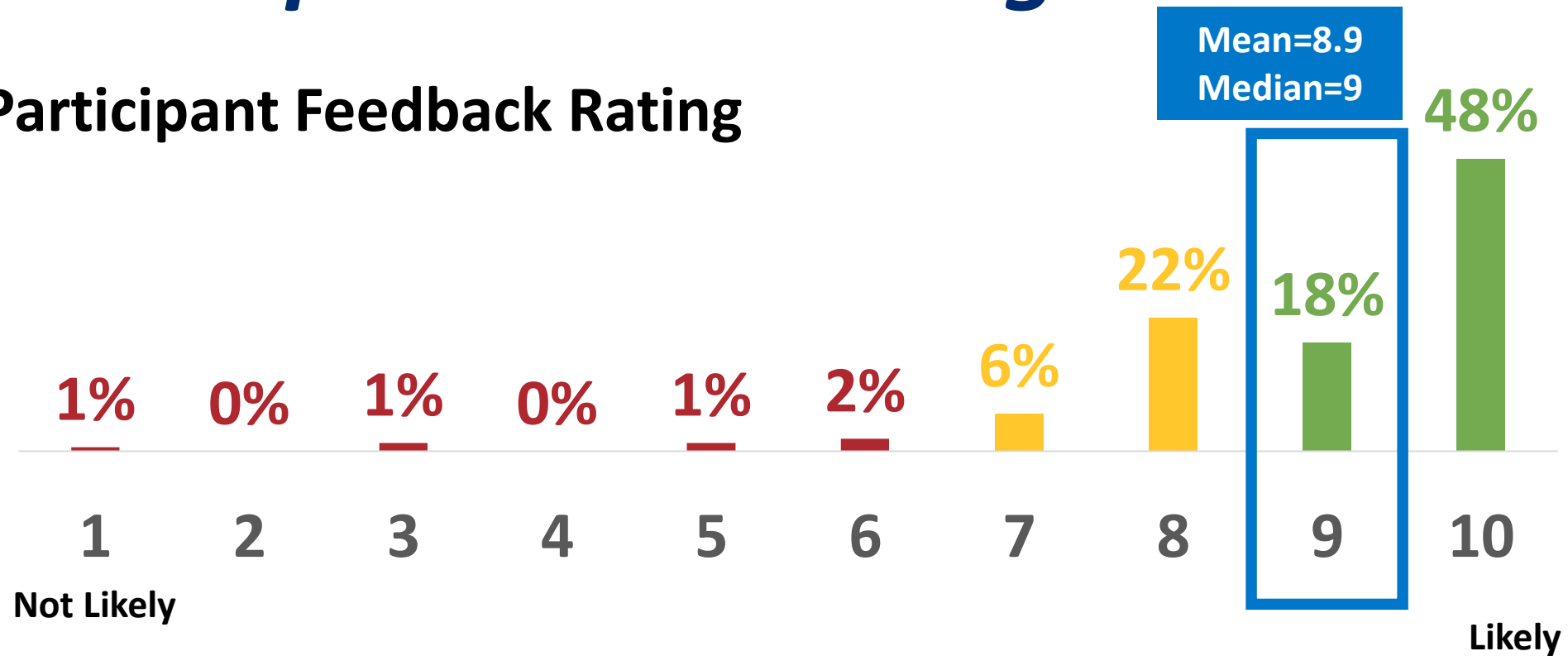
Continent



Results:

“How likely are you to RECOMMEND the workshop to other colleagues?”

Participant Feedback Rating

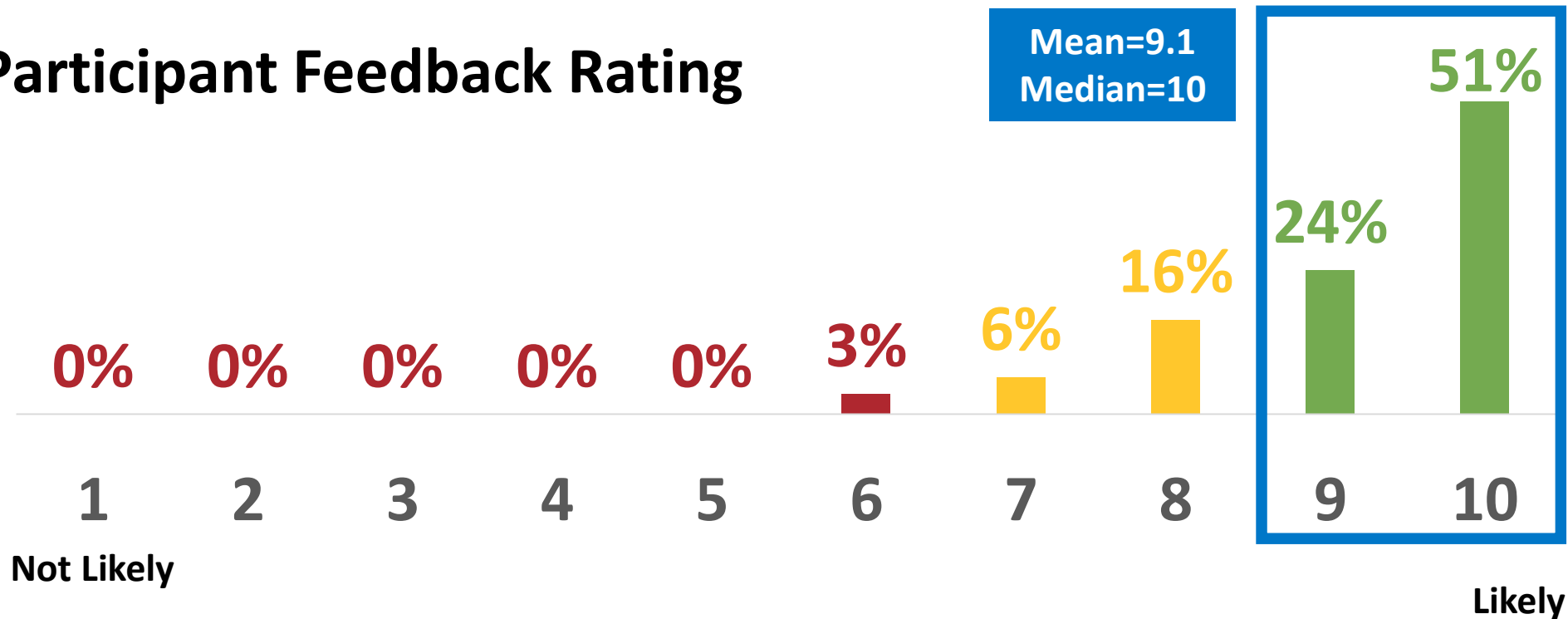


Based on 145 survey responses.

Results:

“Did you find the online synchronous TBL FORMAT of the workshop appropriate?”

Participant Feedback Rating

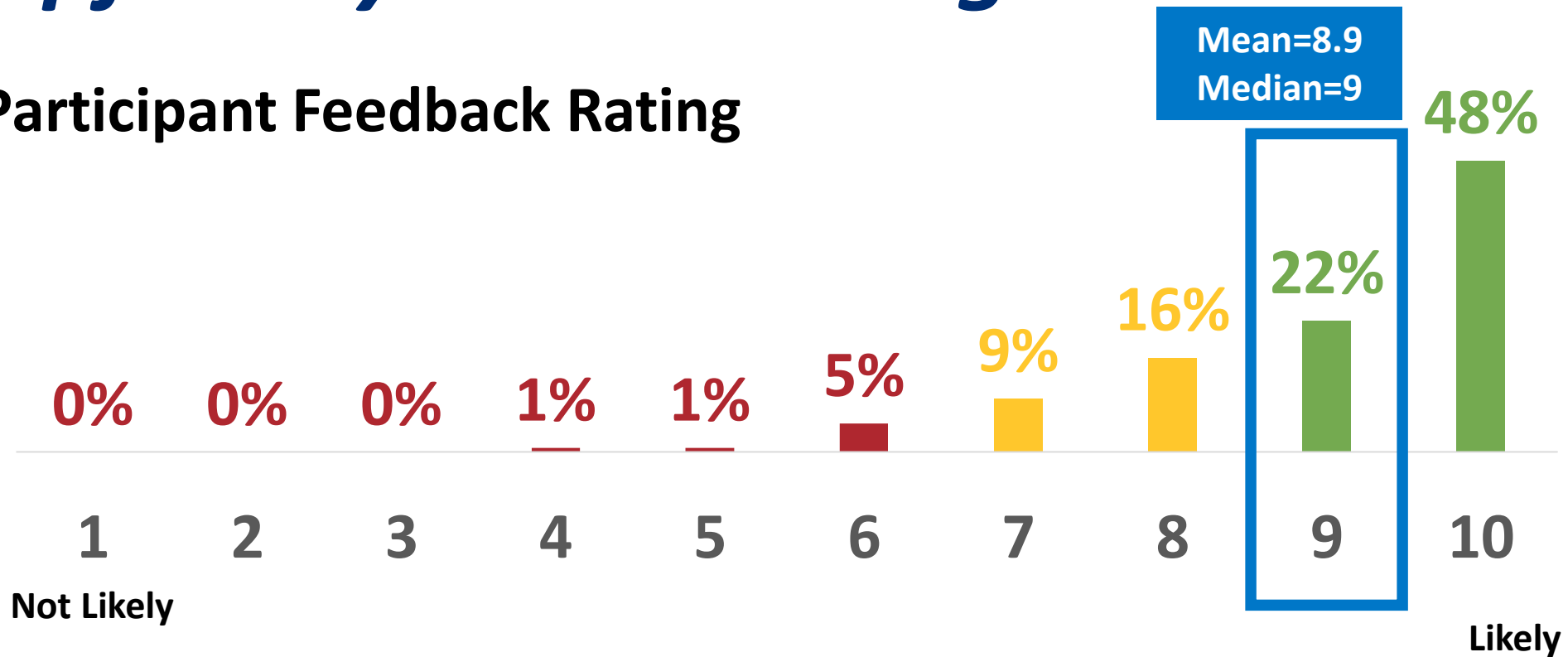


Based on 148 survey responses.

Results:

“Did you find the TECHNOLOGY used to be helpful to you in learning?”

Participant Feedback Rating

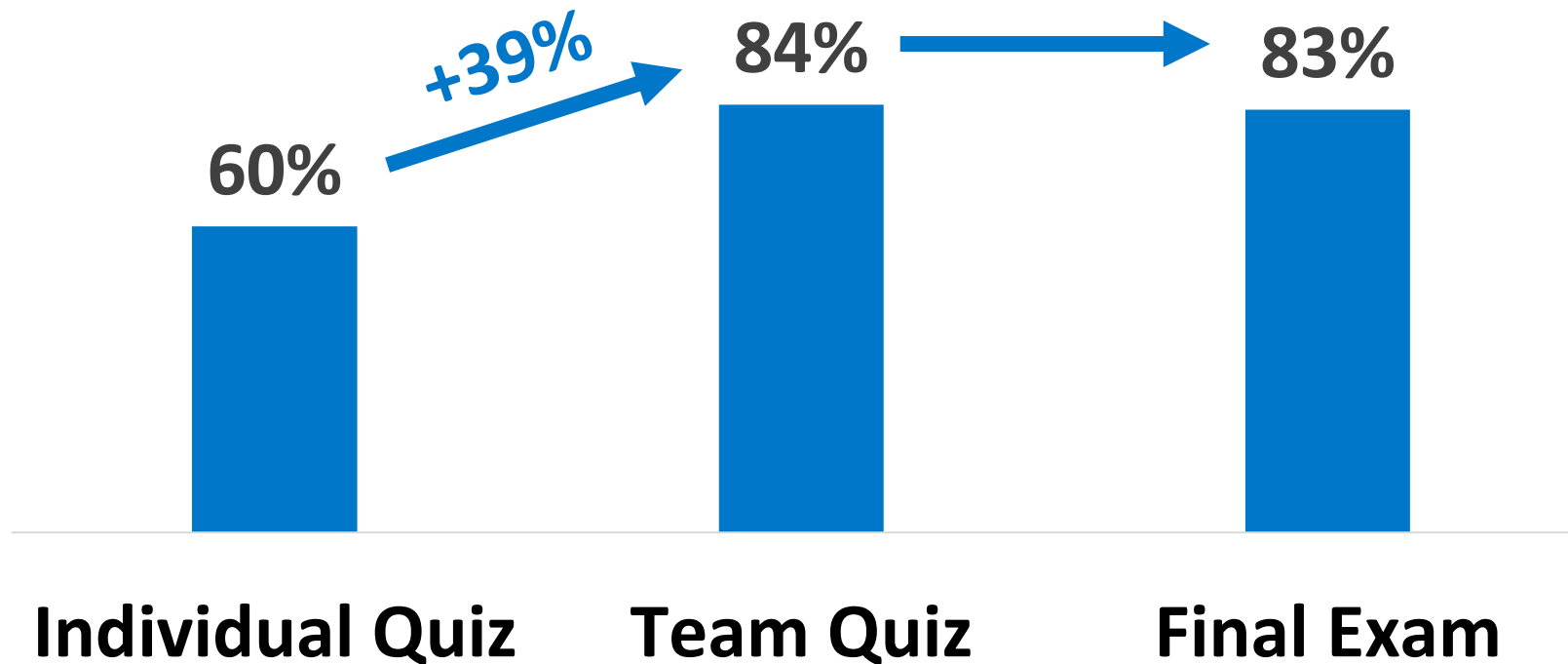


Based on 148 survey responses.

What's next

- **15+ workshops since August 2019**
 - Two five-part paid series leading to **Team-Based Learning Collaborative Fundamentals of TBL Certification**
- **Pending publication**
 - *“Reinventing the Webinar with Online Team-Based Learning: A Case Study in Engaging Online Professional Development Workshops”*
 - Chapter in forthcoming book *“Best Practices for Online Team-Based Learning: Taking Small Group Learning Online”*

What's next: evaluation of learner knowledge from five-part series



Based on results of average individual readiness assurance test ("IRAT"), team readiness assurance test ("TRAT") and final examination for a five-part workshop series in January 2020. 19 of the 24 participants (79%) completed the assessments.

What's next: evaluation of behaviour change

- Follow up surveys to assess
 - If faculty change practice
 - Impact on students
 - Impact on student evaluations
- Survey to be developed
- Follow up intervals to be determined
 - 3-6 months?

Summary

- **On the rise:** Active collaborative learning, team-based learning and online learning
- **Needs:** Expanded access to faculty development for TBL with active learning
- **Method:** 16 online workshops with 342 participants (23 average per workshop) from 27 countries, six continents
- **Results:** 9/10 for recommendation, format and technology
- **Next:** further evaluation and publication

Learn more

Brian O'Dwyer

brian@intedashboard.com

▪ **Upcoming workshops**

<https://www.blog.intedashboard.com/online-workshops>

