

# TurningPoint Cloud @ IU

## Evaluation Report of the Pilot Implemented in 2015-2016

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TurningPoint Cloud is a student response system that allows instructors to poll students within PowerPoint or on top of any application. It also allows for self-paced tests, evaluations, surveys, and real-time assessments to track progress, instantly view results, and collect valuable data. Students can respond to these polls and surveys using either physical clickers or any web-enabled mobile devices. TurningPoint Cloud was added to Next.IU pilot list in fall 2015 semester as one of the student response systems.

In fall 2015, spring 2016, and fall 2016 semesters, an online survey was sent to instructor and student users of TurningPoint Cloud to evaluate its quality and utility and to share their experiences with it.

### **Key Faculty Findings (N = 68; Response Rate = 32%)**

- Most of the faculty (88%) reported using TP Cloud in a primarily face to face setting. Another four faculty reported using TP Cloud in a blended/hybrid (n=3) or primarily online class (n=1). The remaining four respondents used TP Cloud for support or specialized purposes. 79% of the respondents reported using TP Cloud for more than 10 times in the semester. Only six respondents (8%) indicated not using the system.
- When asked to rate their overall satisfaction with TurningPoint Cloud on a 4-point scale (1 – *Strongly Disagree*, 4 – *Strongly Agree*), majority of the faculty indicated (% value combines *Agree* and *Strongly Agree*):
  - TP Cloud was useful for their teaching (85%).
  - They would use TP Cloud in their future courses (75%).
  - TP Cloud was easy for their students to use (61%).

On the other hand, only half of the faculty respondents thought that TP Cloud was easy to use. Similarly, 57% of the faculty stated that they would recommend its use to their colleagues.

- When asked to rate the usefulness and impact of TurningPoint Cloud on their teaching on a 4-point scale (1 – *Strongly Disagree*, 4 – *Strongly Agree*), majority of the faculty agreed with the following statements (% value combines *Agree* and *Strongly Agree*):
  - It was beneficial for their students overall learning (80%)
  - It increased student engagement in their course (80%)
  - It enabled them to do what they wanted to do (79%)
  - It increased their efficiency (63%) and effectiveness (70%)
  - It allowed them to teach in a new way (59%)
  - It increased the sense of community in their course (58%)
- Faculty agreed that the following features of TurningPoint Cloud were moderately or very useful (% value combines *Moderately Useful* and *Very Useful*):
  - Attendance Tracking (86%)
  - PowerPoint Integration (86%)
  - Canvas/LMS integration (71%)

- In terms of utilization of the question types that TurningPoint Cloud offers, the faculty respondents used TP Cloud in the following ways:
  - Multiple Choice-single answer (85%)
  - True/False (52%)
  - Multiple Choice-multiple answer (48%)
- About 32% of the faculty respondents indicated that they had technical difficulties with TP Cloud most of the time or always whereas only 5% reported never having technical problems with TP Cloud.
- Faculty indicated through open-ended responses that they used TP Cloud as means for tracking student attendance, engagement, and understanding of course material.
- Faculty indicated through open-ended responses that they liked TP Clouds ability to provide immediate responses, enable student participation/engagement, and its integration with PowerPoint/Canvas.
- When faculty were asked what they liked least about TP Cloud, several issues emerged from their responses:
  - Multiple logins or authentication complicated the set-up process and ability to manage questions/polls with additional teaching assistants.
  - TP Cloud license and registration created problems for students and caused latency for course progress.
  - TP Cloud software have bugs and failures in functionality.
  - Canvas integration was poor and problematic. Student devices did not register to Canvas roster properly or on time.
- Faculty also indicated through open-ended responses that TP Cloud lacked saving class information between devices (personal laptop and class computer) and sharing of information between multiple instructors/TAs.
- In the spring 2016 survey, 84% of the respondents (n=48) indicated that they used the old TP system before. Majority of these faculty (70%) believed that the old system was easier for registration, better for grade synchronization, and easier to use in the class compared to the new system. The open-ended responses comparing the differences between the two versions also echo faculty complaints about the new system.

### Key Student Findings (N = 222; Response Rate = 7%)

- All but three respondents were undergraduate students. 66% of respondents were female, 33% percent of respondents indicated that they were male. The majority of the students (71%) were at least somewhat comfortable with technology.
- Most of the of the students (75%) reported using TurningPoint Cloud more than 10 times in the semester whereas only 10% indicated that they used it less than five times in the semester.
- As TurningPoint Cloud was intended to use with physical clickers and on mobile devices, students were asked which device they used it with. 37 students (19%) used TP Cloud on their laptop computer most of the time or always; 26 students (13%) used TP Cloud on their smartphones at the same frequency. In comparison, 70 students (65%) indicated they used clickers most or all of the time.
- When asked to rate their overall level of satisfaction with TP Cloud on a 4-point scale (1 – *Strongly Disagree*, 4 – *Strongly Agree*), the majority of the respondents agreed with the following statements (% value combines *Agree* and *Strongly Agree*):
  - It was easy to use (82%)
  - It was useful for my learning (77%)
  - I enjoyed using it (72%)
  - I would recommend it for other courses (65%)
- The highest rated statements regarding the learning impact of the TurningPoint Cloud for students were as follows (% value combines *Agree* and *Strongly Agree*):
  - It increased my engagement in the course (80%)
  - It was beneficial for my overall learning (67%)
  - It enhanced my understanding of course material (61%)
  - It helped complete my course assignments (54%)
  - It helped me collaborate with my classmates (53%)
- Students also rated the usefulness of TurningPoint Cloud features. A majority of the students who used the listed features found it moderately or very useful (% value combines *Moderately Useful* and *Very Useful*):
  - PowerPoint Integration (77%)
  - Attendance/Participation Tracking (71%)
  - Canvas/LMS Integration (70%)
- When asked what they liked most about TurningPoint Cloud, its ease-of-use and enabling of participation were most frequently noted by students.
- When asked what they liked least about TurningPoint Cloud, some students indicated that there were difficulties in gaining access and logging into the system; 16% of the students indicated that they had technical difficulties with TurningPoint Cloud most of the time or always. Another 19% reported never having technical problems with the system. Students also complaint about having to purchase license in addition to clicker devices.