Summary

Fall 2018 saw **13,501 students and faculty** use the Media Commons, Maker Commons, and Immersive Experiences Lab initiatives across the Commonwealth. Much of this use was focused in **350 classes** in nearly every discipline offered at Penn State. To facilitate these interactions outside of University Park, traveling consultants **visited campuses 60 times** to offer instruction and consultations.

One Button Studios at 18 campuses helped students and faculty create **12,875 academic videos**, comprising over **22 straight days of video**. Students across the Commonwealth also created **2,465 3D prints** in pursuit of their own curiosity and course work.

The report that follows breaks down our interactions with students and faculty and examines engagement levels with services offered, locations, and by individual colleges. Throughout the report we'll draw attention to exciting assignments, surprising class partnerships, and interesting observations from the semester - stories that tell the ways in which Penn State faculty and students are pushing the boundaries of education into the future. We'll also point out usage and technology trends that draw from Media Commons' proven history in supporting multimedia and emerging technology as well as reflect on challenges and opportunities in the coming semesters.

People Helped

Faculty and students used Media Commons and Maker Commons services in a variety of ways in all of our locations over the course of the semester. These charts count how many people were aided by our consultants in either 1-on-1 consultations or in-class workshops.

Media Commons @ University Park	# of People Helped
Pattee Library Knowledge Commons	3,172
Pollock Building Computer Lab	376
PAMS Library, Davey Lab	163
Immersive Experiences Lab, Agricultural Sciences & Industries Building	72
Media Commons Workshops	5,614
Maker Commons Workshops	1,013
Immersive Experiences (IMEX) Workshops	180
University Park Total	**10,590**

Technology Breakdown:
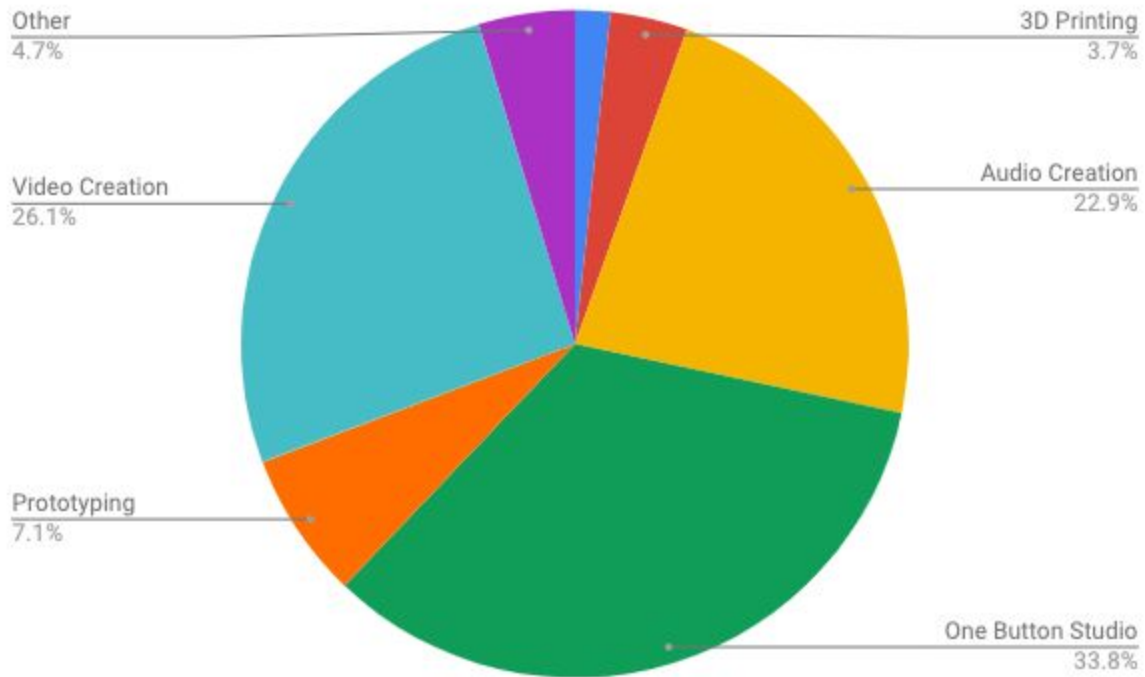
360 Video Creation	3D Printing	Audio Creation	One Button Studio	Prototyping	Video Creation	Other
180	396	2423	3582	753	2765	493

Featured Story:

- For her SC 220 course, Dr. Jenay Robert had her students create Spark pages to pitch their ideas of how to improve teaching and learning at Penn State. Using various forms of media, research, and the tools within Spark, groups of four or five students identified a problem facing our university, explained what makes it important, and offered a possible solution. These ideas were then presented to the relevant stakeholders at Penn State.

Media Commons @ Western Campuses	# of People Helped
Altoona	259
Beaver	550
Behrend	178

DuBois	-
Fayette	-
Greater Allegheny	67
Harrisburg	212
Mont Alto	126
New Kensington	225
Pittsburgh Center	16
Shenango	13
Western Campuses Total	**1,646**

Featured Story:

- In her **BIOL 110** course at the **Beaver campus**, Sarah Nilson used Spark pages as a means of maximizing lab time. Instead of spending weeks lecturing about different characteristics of flora, students worked in small groups to develop their own field guides which they used to teach one another the content.

Media Commons @ Eastern Campuses	# of People Helped
Abington	66
Berks	530
Brandywine	183
Great Valley	1
Hazleton	259
Lehigh Valley	-
Philadelphia Center	12
Schuylkill	22
Scranton	64
Wilkes-Barre	8
York	121

Eastern Campuses Total	1,265

Featured Story:

- Students in Jim Hart's **CAS 250 at Scranton** were challenged to create short documentaries about different topics or people that were prominent in the 1960s. Students worked in groups and used the iMovie app on the iPad Minis that are part of the Media Commons Mobile Media Program.

Class Partnerships Across Colleges

Media Commons consultants partner with faculty from every college at Penn State to help design multimedia and making assignments, provide workshops for students, and 1-on-1 consultations as the students complete their work. This table represents how many classes were worked with in which colleges during the semester.

Partnered Service Key: Media Commons = MeC, Maker Commons = MaC, Immersive Experiences Lab = IMEX

Colleges	University Park				Western Campuses				Eastern Campuses				Grand Totals
	MeC	MaC	IMEX	Total	MeC	MaC	IMEX	Total	MeC	MaC	IMEX	Total	
Agricultural Sciences	9	-	-	**9**	-	-	-	**-**	-	-	-	**-**	**9**
Arts & Architecture	9	-	11	**20**	1	-	-	**1**	2	-	-	**2**	**23**
Business	-	-	-	**-**	3	-	-	**3**	4	-	-	**4**	**7**
Communications	4	1	4	**9**	-	-	-	**-**	3	-	-	**3**	**12**
Earth & Mineral Sciences	4	1	-	**5**	-	-	-	**-**	3	-	-	**3**	**8**
Education	4	5	-	**9**	1	-	-	**1**	1	-	-	**1**	**11**
Engineering	-	15	-	**15**	-	-	1	**1**	-	-	-	**-**	**16**
Graduate School	2	-	-	**2**	-	-	-	**-**	-	-	-	**-**	**2**
Health & Human Development	3	2	-	**5**	3	-	-	**3**	3	-	-	**3**	**11**
Information Sciences & Technology	1	3	-	**4**	5	1	-	**6**	1	-	2	**3**	**13**
Liberal Arts	175	28	-	**203**	17	-	3	**20**	7	1	-	**8**	**231**
Medicine	-	-	-	**-**	-	-	-	**-**	-	-	-	**-**	**-**
Nursing	-	-	-	**-**	1	-	-	**1**	-	-	-	**-**	**1**
Sciences	3	1	-	**4**	1	-	-	**1**	1	-	-	**1**	**6**
Totals	**214**	**56**	**15**	**285**	**32**	**1**	**4**	**37**	**25**	**1**	**2**	**28**	**350**

Featured Stories:

- In an effort to bring meaningful immersive experiences to a wide variety of students, Nick Smerker worked with Dan Getz to create the [Experience Catalogue](), a library of

360º video and VR content. Starting with an eye towards reaching all disciplines represented across the University's colleges, consultants selected the first 93 examples and then opened up a call to instructors to suggest topics they would like to use in their own classrooms. Currently, 32 have helped to grow the Catalogue and have been or will be used in **AFAM 409**, **WMNST 197N** and **BIOL 220W**. It is expected that further suggestions will continue to expand the resource's reach for other instructors across the Commonwealth.

● At both the **Penn State Center in Pittsburgh and Philadelphia**, students working with local community initiatives for an entire semester as part of the Study Away program were asked to document and reflect on their experiences. In Pittsburgh, four students created 5 minute documentaries while, in Philadelphia, six students used Spark to build informative pages. Both cohorts used their media projects as the basis for an in-person presentation to stakeholders in and outside of the University.

Campus Engagement

Campuses often don't have their own local Media Commons support and so rely on our consultants to visit campus to work with faculty and provide workshops for students. We host several tailored faculty events each semester to discuss opportunities and visit campuses as often as possible to support class partnerships.

Western Campuses	# of Classes	Events	In-Person Visits*	Remote Sessions†
Altoona	5	1	7	5
Beaver	11	1	7	4
Behrend	5	2	5	1
DuBois	-	-	-	-
Fayette	-	-	-	-
Greater Allegheny	5	2	4	-
Harrisburg	2	-	1	-
Mont Alto	5	-	2	2
New Kensington	2	1	2	1
Pittsburgh Center	1	-	3	-
Shenango	-	-	-	-

Totals	36	7	31	13

* In-Person Visits include travel to campus for teaching workshops, faculty consultations, meeting with students, hosting events, equipment and computer service, and/or One Button Studio tune-ups.
† Remote Sessions denote online trainings via Zoom, critiques of project materials uploaded to Canvas, Box, etc and individual meetings with students via videoconferencing.

Featured Stories:

- At **Greater Allegheny**, Johnathan White took his students on a tour of significant moments in 20th Century American history through 360º video. Eight clips were added to the IMEX Experience Catalogue that not only his **HIST 21** and **AFAM 209** course can make use of, but also many other instructors teaching on similar topics.
- At **Behrend**, Heather Cole kicked off the first semester of an open **Faculty Learning Community** centered on creative methods of using a wide variety of technologies in the classroom. As liaison, Nick Smerker continues to interact with the co-organizers, starting with a launch event in Fall.

Eastern Campuses	# of Classes	Events	In-Person Visits*	Remote Sessions†
Abington	3	-	4	-
Berks	7	-	5	4
Brandywine	8	1	8	1
Great Valley	-	-	6	-
Hazleton	3	-	1	2
Lehigh Valley	-	-	1	-
Schuylkill	1	2	2	1
Scranton	2	-	1	2
Wilkes-Barre	1	-	-	1
York	3	1	1	-
Totals	**28**	**4**	**29**	**11**

* In-Person Visits include travel to campus for teaching workshops, faculty consultations, meeting with students, hosting events, equipment and computer service, and/or One Button Studio tune-ups.
† Remote Sessions denote online trainings via Zoom, critiques of project materials uploaded to Canvas, Box, etc and individual meetings with students via videoconferencing.

Featured Story:

- **IST 110 students and faculty at York** took part in a 360/VR demonstration that displayed how the technology works and how to create and edit a 360 video. There was much interest in the technology, and several class projects were created as a result.
- Students in Kathleen Fadigan's **SUST 200 at Abington** were asked to create short videos about what nature means to them using Adobe Spark Video. The students were so enthusiastic about the project that they created their own Youtube Channel with their own videos and additional videos they found about sustainability.

One Button Studio

Media Commons supports the One Button Studio project across many campuses. The One Button Studio allows students and faculty to simply create good quality academic videos, often for recording presentations, lectures, and demonstrations, or completing class assignments.

Location	# of Videos Created	Total Duration of Videos H:M:S
Pattee Library Knowledge Commons (2 studios)	5,506	247:55:57
Pollock Building Computer Lab (2 studios)	1,496	62:18:28
PAMS Library, Davey Lab	341	20:06:34
University Park Total	**7,343**	**330:20:58**
Abington	171	4:43:14
Altoona	218	38:05:12
Beaver	994	24:22:15
Behrend	59	2:31:12
Berks	716	16:24:41
Brandywine	335	6:18:57
Great Valley	Closed	For Renovations
Harrisburg	152	6:54:22
Hazleton	275	19:17:19
Hershey	154	9:47:24

Lehigh Valley	476	18:12:46
Mont Alto	413	11:40:02
New Kensington	694	13:19:06
Schuylkill	25	1:10:00
Scranton	570	17:02:05
Shenango	59	1:30:20
York	221	10:50:13
Commonwealth Total	**5532**	**203:10:0**
Total One Button Studio Use	**12875**	**533:30:58**

Featured Story:

- This semester brought on board a new developer for the One Button Studio, and with him came a new version of the OBS app! The new version addressed a major change in the way automatic lighting functions in the studio, as well as minor requests that we had received over the years. The app was made available - for free, as always - on the Mac App Store, and we began rolling out this new build to all of the Commonwealth campuses. Our OBS support documentation was also updated to reflect these new changes and features.

3D Printing

The Maker Commons offers students at University Park, the Commonwealth Campuses, and World Campus access to 34 3D printers through an online submission process. The printers are located at University Park but, through a partnership with University Libraries, are able to ship prints to any student for easy pick-up.

Unique PSU Users	934
Hours of Print Time	11,875
Successful Prints	2,465
New Print Requests	1,925
Filament Used	126,144 grams (~278 lbs)

Featured Story:

- Students form Mark Shriver's **ANTRO 21** course at **University Park** attended a TinkerCAD workshop with pre-scanned models of their own faces. The students then 3D printed their modified models in coordination with ongoing research efforts with Dr. Shriver.

Impressive Website Reach

The Media Commons website seems to be undergoing a transformation from a largely inward-facing tool to a global resource for information about video and audio production. While usage within the university audience has remained stable, increased visitation from literally everywhere else continues growing rapidly.

- The number of unique visitors reached **143,410, an increase of 169%** from the Fall 2017 semester.
- Another very high growth figure was to be found in **pageviews, up 86% year over year**.
- Pages per session continued to fall, **dropping 28%** from Fall 2017 **to just 1.36**. Again, we interpret this as users being able to more quickly find content via nav and search.
- Just 21,016 users originated in Pennsylvania, allowing for the rough inference that **about 15% of website traffic was from Penn State** students.
- Within Pennsylvania, **16,833 users visited our homepage** while elsewhere on the website:
    - 3,449 users visited the Free Media Library
    - 998 visited the Storyboarding tutorial
    - 973 visited the faculty-focused Using Your One Button Studio resource
    - 284 visited the Spark tutorials landing page
    - 282 visited the Video Production Tips tutorial
- Of the other 85% of website traffic, over half originated in the United States while **37% of visits originated outside of the country** (just over 53K visitors)

Challenges, Opportunities & Notable Trends

- Tyler Greer joined the Media Commons team as the Creative Designer. This position was created to help push Media Commons and TLT forward in a number of key areas but was also born out of a recognition that, given how busy the Media Commons is with serving Penn State students and faculty, there wasn't as much time to create and collect robust and interesting examples of new media use, especially as we increase our service offerings with emerging technologies. Tyler spent the semester in the Pattee Media Commons to learn how the service works and is tackling projects in key areas like augmented reality, storytelling, community-building, and making.
- At the end of Fall 2018 as we combed through the data that we had collected, we noticed that the "Other" category had been steadily increasing dramatically over the last few semesters. Upon further investigation, the vast majority of consultations collected under "Other" was revealed to be using Adobe Spark. We are responding to the growing

interest among faculty and students by transitioning Spark out of the "Other" category and adding it as a key component of the Media Commons initiative. This will be expanded on further with new offerings being created during the Spring 2019 semester.