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## **A**GENDA

- About Us
- Background
- Overview of Document Accessibility Process
- **DEMO**: CommonLook Office Pro
- Results & Findings
- Costs
- Hit & Misses
- Next Steps
- Q&A

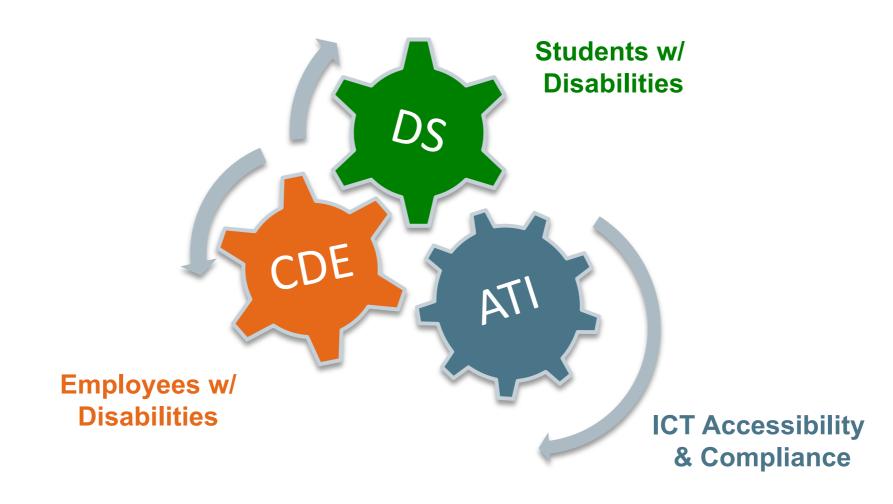
# **ABOUT US**

## LOCATION AND ENROLLMENT

- Enrollment
  - ~37k+ students from 130+ countries
  - Projected increases of 1k per year over next 5-6 years (online)
- Over 1500+ Instructional and Research Faculty
- 10 colleges and schools
- Campus locations
  - 4 locations in Northern Virginia (Fairfax/*Main*, Arlington, Manassas, and Sterling)
  - International: Songdo (Korea)



## ACCESSIBILITY@MASON: A COLLABORATIVE PARTNERSHIP



## DOCUMENT ACCESSIBILITY: BACKGROUND

## STATEMENT OF THE PROBLEM

- Large numbers of students with print impairments enrolled at institution
  - Average 40-50 students with visual impairments that may require services
  - # of totally blind students fluctuates between 0 15 with active needs

- Issues with lack of timely access to instructional materials (docs & supplemental applications)
  - Factors: lack of communication, lack of adequate staffing, lack process, etc.

## **ATTEMPTS TO ADDRESS ISSUES...**

- Faculty/Staff Training and/or Remediation Support
  - Group/Individual (compliance), one-to-one support (accommodation)
- Automated OCR solutions (i.e., ABBYY Recognition Server) (~2012)
- Doc Accessibility Pilot (Fall 2014)
  - 2 IDs, 3 Faculty Members
  - **Findings:** Doc Formats (Word, PPT, PDF), *CommonLook Office Pro, Acrobat Pro*, strategies for supporting faculty with students with visual impairments
- Online course accessibility reviews (Spring 2015 Fall 2017)
  - Partnership with Office of Digital Learning
  - **Findings:** Snapshot of accessibility problems (over 100 online courses reviewed in 2 years e.g., captions vs. docs), need to offer accessibility services/solutions/targeted trainings

## **DOCUMENT ACCESSIBILITY: CURRENT PROCESS**

## **PILOT PARTNERS**

## **Disability Services (DS)**

- Faculty/Staff trainings 2-3
   weeks prior to semester for
   faculty teaching students with
   visual impairments
- Accommodation-focused
- Training:
  - Document Preparation

     (alternative text, headings, tables, built-in slide layouts)

## Office of Digital Learning (ODL)

- Online Course Development Trainings for faculty teaching online courses
  - SOUPR 1yr, OCDI 6wk
- Compliance-focused
- Training:
  - Document Preparation

     (alternative text, headings, tables, built-in slide layouts)

## **PROCESS OVERVIEW**



Step 1
New
Requests



Document Accessibility Review

Step 2



Remediate Documents



Step 4
Quality
Control



Step 5
Return
Remediated
Documents

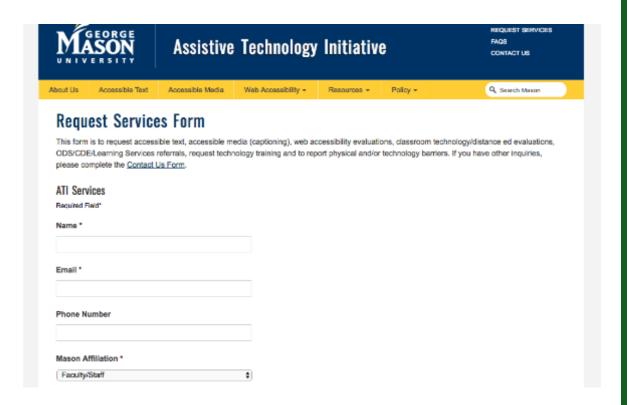
## STEP 1 – NEW REQUESTS

### URL

https://ati.gmu.edu/request-services-form/

## Information Collected

- Type of Request (Accommodation, Compliance, SOUPR/OCDI)
- # of Documents
- Document Types (PDF, Word, PPT)
- Due Date
- Semester
- First & Last Name of Submitter
- Course Name and # (e.g. MGMT 100)



## STEP 2/3 – DOCUMENT REMEDIATION WORKFLOW

## **Workflow Steps**

- 1. Document(s) uploaded directly to request form or emailed to ATI
- 2. Information entered into spreadsheet for tracking purposes
- 3. Document(s) reviewed and then moved to 'Step 1 New Request' folder
- 4. Student worker starts initial **remediation** (i.e., headings, lists, etc.) and moves to 'Step 3 Word/PPT' and 'PDF' folders for **additional remediation** (i.e., alt text, hyperlink text, etc.)\*
- 5. After remediation, documents moved to 'Step 4 Quality Control' folder for quality check
- 6. If necessary, documents with issues are returned to the 'Step 1 New Request' folder with notation indicating issue. ATI staff is also alerted.
- 7. Once document(s) pass QC, source and remediated document(s) moved to faculty's Dropbox folder. Faculty member receives email with link to the folder.\*\*

## STEP 2/3 – GENERAL DOCUMENT REMEDIATION TASKS

## **Word and PowerPoint**

- Headings
- Lists
- Meaningful Hyperlink Text
- Tables
- Color Contrast
- Alternative Text for Images

## **PDF**

- Headings
- Lists
- Meaningful Hyperlink Text
- Tables
- Color Contrast
- Alternative Text for Images
- Page Numbers

## STEP 4 — QUALITY CONTROL

## **Manual Review**

- 1. Headings
- 2. Links
- 3. Tables
- 4. Alternative Text
- 5. Logical Reading Order



## **Screen Reader Review (Jaws)**

- 1. Headings
  - Keystroke: Insert + F6, H
- 2. Links
  - Keystroke: Insert + F7, Tab
- 3. Tables
  - *Keystroke*: Insert + T, Ctrl + Alt + Arrows
- 4. Alternative Text
  - Keystroke: G
- 5. Logical Reading Order
  - Keystroke: Arrows

## **COMMONLOOK OFFICE** PROFESSIONAL DEMO

DOCUMENT
ACCESSIBILITY:
POST-PILOT
RESULTS AND
FINDINGS

## TRAININGS CONDUCTED (1-YR)

## **Disability Services (10)**

- Face-to-face Faculty trainings prior to fall and spring semesters (4)
- One-to-one Faculty trainings during semester (6)

## Office of Digital Learning (13)

- Face-to-face/Online faculty training workshops (9)
- One-to-one Faculty/Staff sessions (4)



## PILOT RESULTS (1-YR)

- Faculty/Staff Participants: 40
- # of Docs Processed
  - 498 documents
  - 7,956 pages
- By Format
  - 196 PPT (39%), 147 Word (30%), 155 PDF (31%)
- By Type of Request:
  - 49% Compliance (244 requests 62% SOUPR)
  - 51% Disability Accommodation (254 requests)

## **ADDITIONAL FINDINGS**

- Avg. turnaround time Approx. 2 weeks\*
- Avg. document length Approx. 15 pages
- Format-specific findings...
  - Word
    - Syllabi
    - More common to have tables than images
  - PPT
    - Most faculty use built-in layouts
    - More training needed with respect to use of nested tables, grouping images, alternative text
  - PDF
    - Articles pulled from databases or web
    - Scans of hard-copy resources/scans of scans
- Only one instance where same document was used in another course\*\*



## HITS AND MISSES

## What worked...

- Trainings (student workers, faculty/staff)
- Partnerships with DS and ODL
- Hybrid process (Assembly-line approach vs. Per file)
- Online submission workflow
  - STEM content, Tactile graphics
- Increased ATI's capacity to provide timely access for other types of requests (e.g., STEM, tactile graphics)

## What DID NOT work...

- Faculty training (sometimes)
- Document management/Data tracking
- Assembly line approach solely



## ASSOCIATED COSTS, FY18

Staffing (annual)	PT Student Workers (3), Avg. 10-15 hours/week	\$10,600.00
	ATI Staff (2), Avg. 2-4 hours/week**	\$8,000-\$14,000
	ODL Staff (1), Avg. 5 hours/week**	\$12,000
Equipment	Windows PC (5)*	N/A
Software	Acrobat Pro 11 (3), students*	N/A
	Acrobat Pro DC (2), staff*	N/A
	CommonLook Office Pro (annual, 10- seat license)	\$722.00
	Office 2016*	N/A
	DropBox Business (annual, 1 TB)	\$99.00
	TactileView (2 )	\$750
Total Costs (approx.)	\$31,750 (\$3.99/page) - \$37,750 (\$4.74/page)	

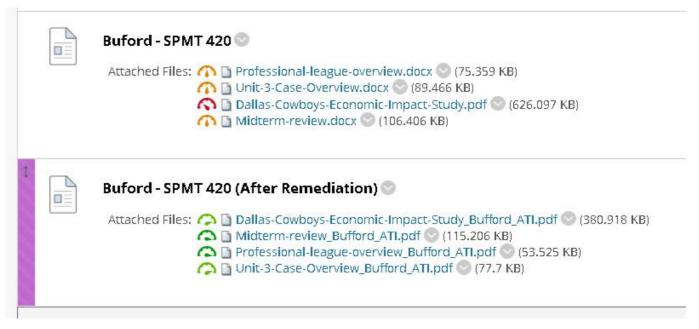
## ASSOCIATED COSTS CONT. (DISCLAIMERS)

Take this with a grain of salt... your situation may be different

- Equipment Costs
  - Items owned or free to Mason students, staff, and/or faculty
- ATI (non student-wage) and ODL Staffing Costs
  - Includes faculty/staff communications, student/staff/faculty training, and doc remediation.
  - ODL Staff Includes coordination of the workshops; creation and maintenance of Blackboard course used in the training workshops; leading workshops; accessibility checks on the SOUPR courses in Blackboard.

## BLACKBOARD ALLY SANDBOX

- 6-month pilot (March 2018 Sept. 2018)
- Uploaded documents submitted for processing and those completed post-remediation
- Laying groundwork





## 2<sup>ND</sup>-YR NUMBERS, So FAR (AS OF 11/09)...

- Faculty/Staff Participants: 35\*
- # of Docs Processed
  - 416 documents
  - 5,299 pages
- By Format
  - 178 PPT (43%), 90 Word (21%), 148 PDF (36%)
- By Type of Request:
  - 65% Compliance (80% SOUPR)
  - 35% Disability Accommodation

## **N**EXT **S**TEPS

## Streamline Workflow

- Document Management System (Ticketing)
- Staffing responsibilities (reduce costs)

## Training

- Re-training for student workers (software updates, consistency, etc.)
- Document preparation (videos)

## Seek out new partners...

- by Academic Dept. (MAPPS Initiative)
- ODL/Academic Units (Bb Ally) Plans to increase online offerings/programs

## **QUESTIONS**



## **CONTACT US**

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