BUILDING A SUSTAINABLE DOCUMENT REMEDIATION PLAN: HITS AND MISSES FROM GMU'S 1-YEAR PILOT

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Agenda

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

ABOUT US

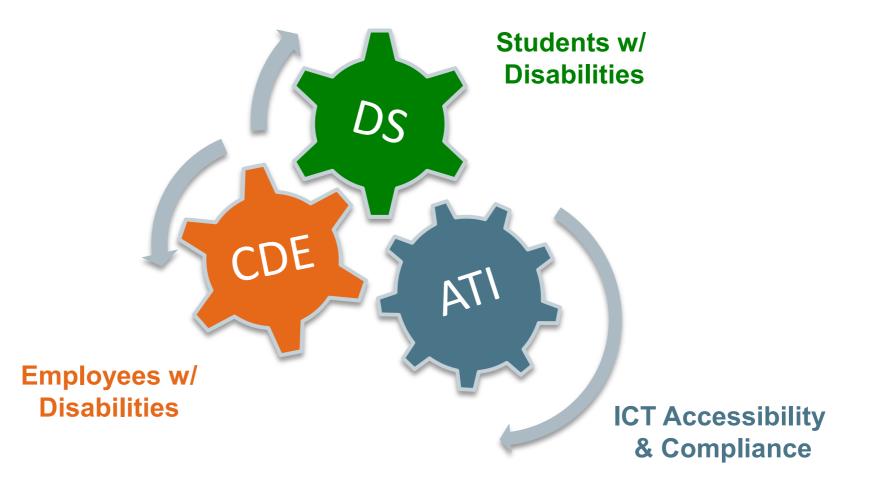
LOCATION AND ENROLLMENT

- 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*, *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

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)

	SON	Assistive	Technology	Initiative	9	HEQUEST SERVICES FAQS CONTACT US
About Us	Accessible Text	Accessible Media	Web Accessibility +	Resources +	Policy +	Q. Search Mason

Request Services Form

This form is to request accessible text, accessible media (captioning), web accessibility evaluations, classroom technology/distance ed evaluations, ODS/CDE/Learning Services referrals, request technology training and to report physical and/or technology barriers. If you have other inquiries, please complete the <u>Contact Us Form</u>.

ATI Services Required Field*		
Name *		
Email *		
Phone Number		
Mason Affiliation *		
Faculty/Staff	\$	

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 moves file(s) to '*Step 2 In Progress'* folder and starts **remediation** process (i.e., headings, lists, alt text, etc.)
- 5. After remediation, documents moved to '*Step 3 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 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 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 (1ST 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. 13 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.

GOING FORWARD

2ND-YR NUMBERS, SO FAR (AS OF MARCH 4TH)

- Faculty/Staff Participants: 55 (27% increase)
- # of Docs Processed
 - 645 documents (23% increase)
 - 8,647 pages
- By Format
 - 254 PPT (40%), 131 Word (20%), 260 PDF (40%)
- By Type of Request
 - 52% Compliance (337 requests 81% SOUPR)
 - 48% Disability Accommodation (309 requests)

NEXT STEPS

• 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





Assistive Technology Initiative (ATI)

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