iLAB: YEAR ONE

Dakota County Library - Wescott

March 15, 2017

PRESENTED BY

Mary Wussow, Wescott Branch Manager /
iLab Project Coordinator

Holly Carlson, Technology Librarian /
iLab Librarian Coordinator

Shawn Foster-Huot, Library Technology Specialist

MANAGEMENT PERSPECTIVE

MARY WUSSOW

MAKERSPACE TEAM

Library Administration

↓

Managers

↓

Librarians

↓

Technology Specialist

↓

Circulation Staff

↓

Employment or union representative concerned over changing staff roles

PLANNING

Learn about your community. Reach out, get support.

Who are you trying to reach? What are you trying to accomplish?

Find money or apply for grants.

Research equipment & software.

Get administration & possible funders on board with vision.

PLANNING

Check with legal or risk management for waivers or risk considerations.

Allow for building modifications.

Order equipment & train staff.

Promote.

Evaluate.

PLANNING

Everything will take longer than expected!

DECISIONS: POTENTIAL USERS

Learn more about your community (environmental scan)

Contact community stakeholders

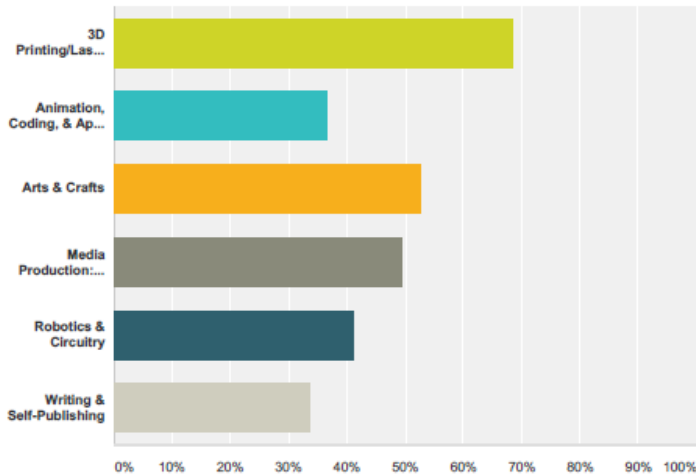Survey what the community would like for equipment & software

SURVEY & MEET WITH COMMUNITY
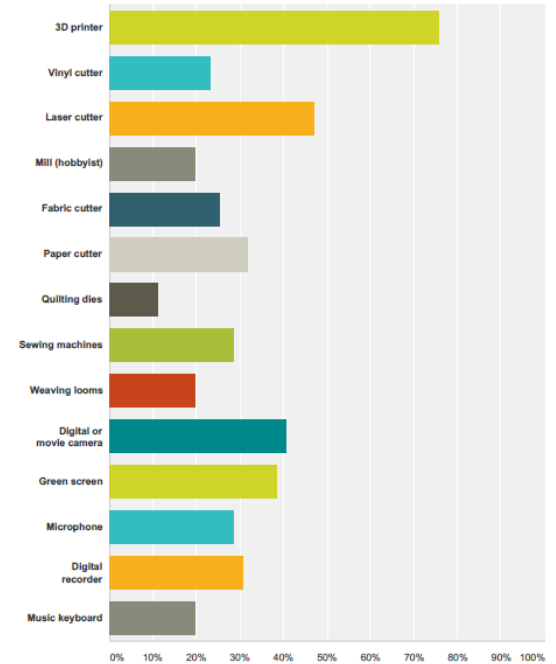

Dakota County Library/Wescott Makerspace Survey

Q1 Which of the following would you use in a creative/makerspace at the Wescott Library in Eagan?

Answered: 95   Skipped: 5

Answer Choices	Responses	
3D Printing/Laser or Vinyl Cutting/Milling	68.42%	65
Animation, Coding, & App or Game Development	36.84%	35
Arts & Crafts	52.63%	50
Media Production: Photos, Video, Music	49.47%	47
Robotics & Circuitry	41.05%	39
Writing & Self-Publishing	33.68%	32
Total Respondents: 95		

Dakota County Library/Wescott Makerspace Survey

Answer Choices	Responses	
3D printer	75.82%	69
Vinyl cutter	23.08%	21
Laser cutter	47.25%	43
Mill (hobbyist)	19.78%	18
Fabric cutter	25.27%	23
Paper cutter	31.87%	29
Quilting dies	10.99%	10

DECISIONS: SPACE(S)
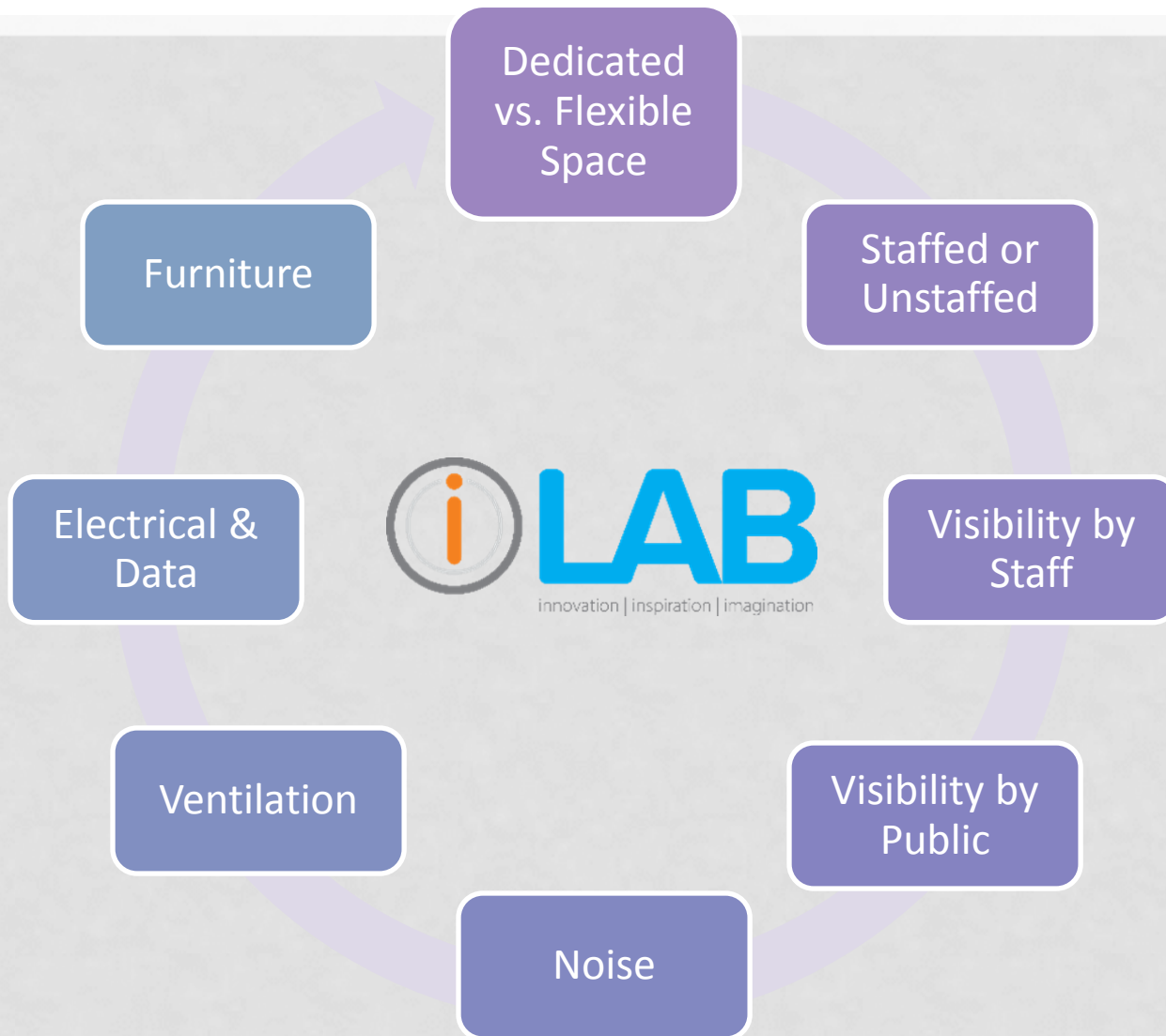
Wescott Library:

Repurposed computer lab

- Fewer library desktop computer users
- Higher Wi Fi users
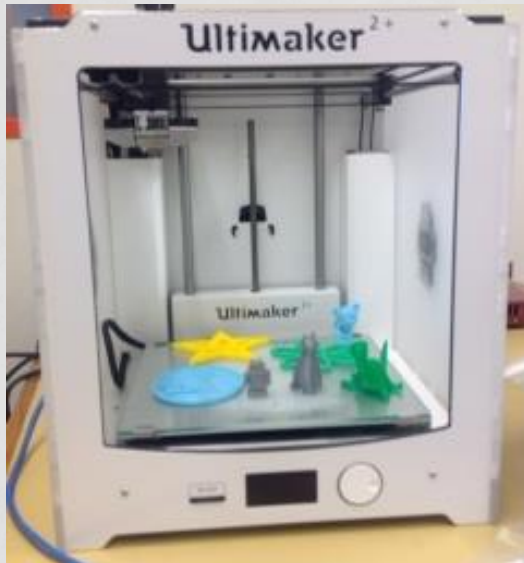- Fewer people attending computer classes

Former library coffee shop

DECISIONS: SPACE(S)

Dedicated vs. Flexible Space

Furniture

Staffed or Unstaffed

Electrical & Data

Visibility by Staff

Ventilation

Visibility by Public

Noise

DECISIONS: EQUIPMENT & SOFTWARE

Research & visit local library or school makerspaces.

⬇

Contact out-of-area makerspaces via phone/email.

⬇

Attend conferences or webinars with makerspace sessions.

⬇

Join Facebook groups (e.g., MakerSpaces & the Participatory Library).

⬇

Will you charge for supplies or use? What will you provide?

START SMALL

Can you do this without a dedicated space?

Try adding a new piece of equipment into the main library when you can.

It's easier to add slowly than to have to subtract if staffing is not sustainable.

DECISIONS: BUDGET

Local library budget

Regional library system funding

Grants or foundation

Businesses, Chamber of Commerce or community organizations

Friends of the Library

Family bequests

Consider ongoing supplies, repairs, replacements or upgrades

ALIGN MAKERSPACE GOALS WITH FUNDERS' OR LIBRARY GOALS

A great place to live	Good for business	A clean & green place	Thriving people	County government that leads the way
Providing tools for creativity & growth	Assisting with creating a more skilled workforce	Learning skills for DIY to be self-sufficient	Connecting with the community for learning & sharing interests	Offering resources to meet new demands and trends in a fast-changing digital world

DECISIONS: HOURS & STAFFING

Staffing:

- Librarians, Circulation Staff and/or Paraprofessionals?
- Volunteers
- Level of risk to leave equipment unattended

Hours:

- All open hours of the library or selected hours (e.g., after school)
- Consider your target audience for most-needed hours
- Bring out equipment only for programs & limited times or all times?

Sustainability of above:

- What can you give up to make this happen?
- Is additional staff funding likely?
- If you received grants, what happens when grant money runs out?

DECISIONS: RESERVE AHEAD? WALK-IN?

RESERVATION SOFTWARE

PROMOTION & SIGNAGE

TV/Radio/ Newspapers	Web Page/ Social Media
Program Guides	City/County Newsletters
Library Signage	Community Fairs

Word of mouth is still the most effective!

PROMOTION & SIGNAGE

Concrete Pillar Wraps

Floor Decals

Sandwich Board

Door Signage

LIBRARIAN PERSPECTIVE

HOLLY CARLSON

IDENTIFYING POTENTIAL EQUIPMENT

3D Printing & Scanning, Laser Cutting & CNC Milling?

Animation, Coding & App Development?

Sewing, Paper & Vinyl Cutting, Arts & Crafts?

Media Production: Photos, Videos & Music?

Robotics, Circuitry & Electronics?

Writing & Self-Publishing?

NARROWING THE FOCUS

Which items would be a better fit for programs?

Which items require consumables?

Which items carry a potential risk to safety?

What community needs can we fulfill?

Which items have tutorials & tech support?

What are staff interested in learning and teaching?

ILAB EQUIPMENT & SOFTWARE

3D Printing & Scanning
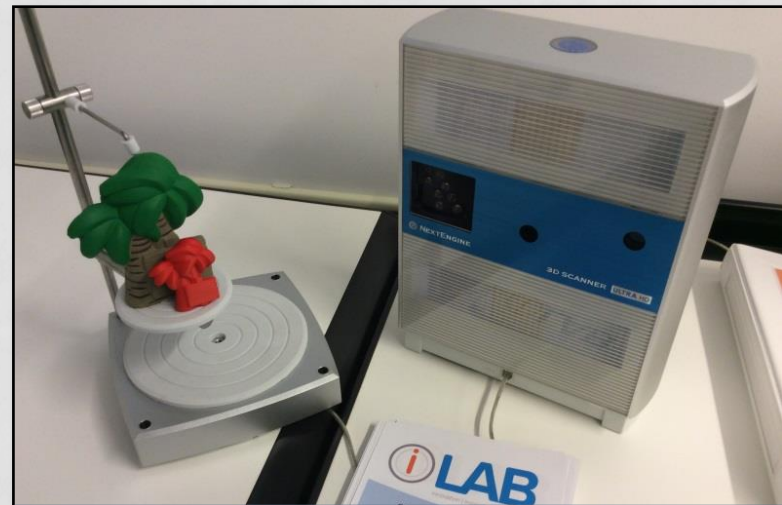
Sewing, Fabric & Paper Cutting

Photo & Film Digitization

Audio & Video Production

Digital Art

3D PRINTING & SCANNING

Ultimaker 2+ 3D Printers

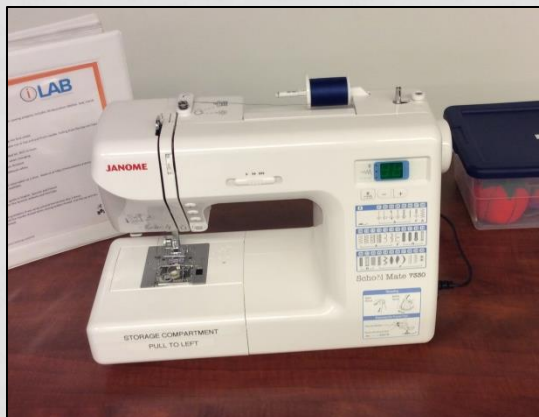**NextEngine 3D Scanner**

FREE VS. FEE

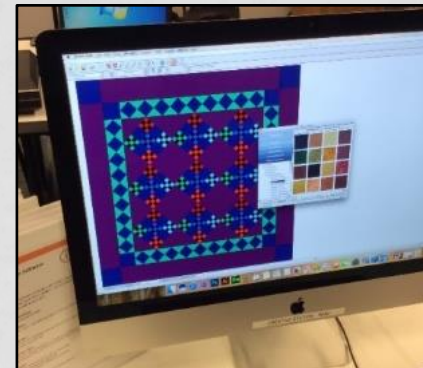# SEWING, FABRIC & PAPER CUTTING

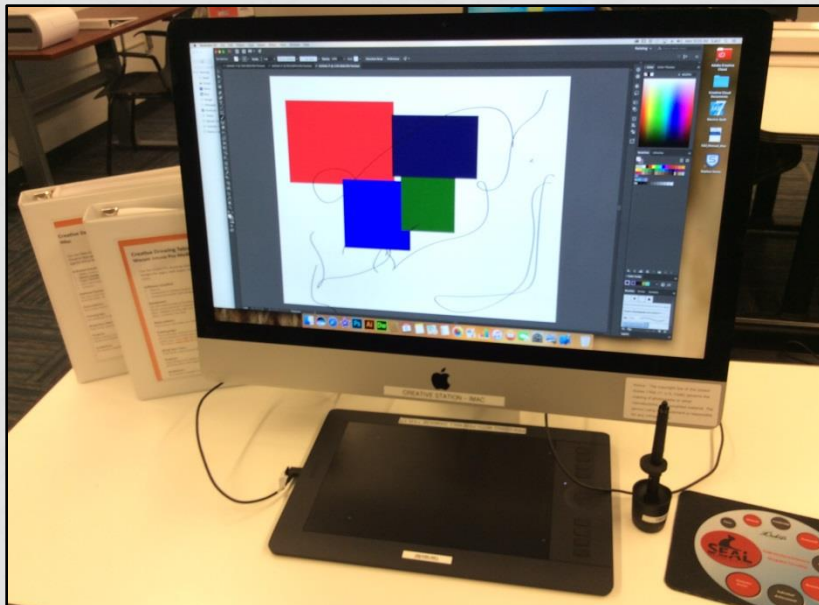**Silhouette Cameo Paper Cutter**

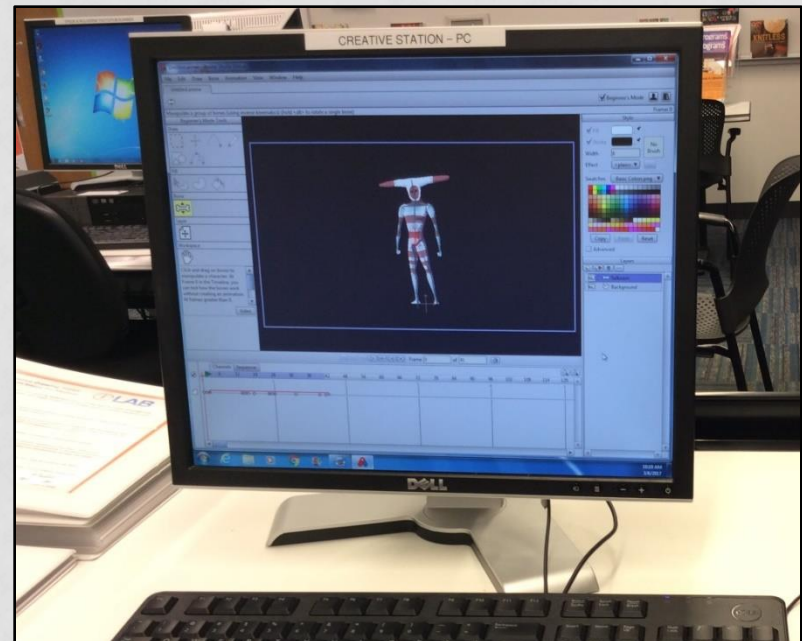**Accuquilt Fabric Cutter**

Janome Schoolmate Sewing Machines

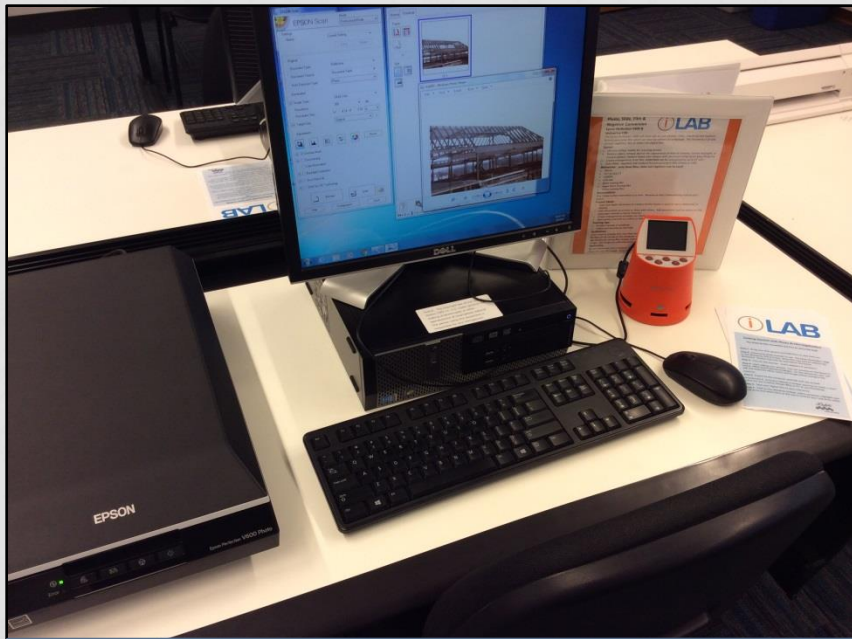**EQ7 Quilting Software**

IMAC AND CREATIVE PC

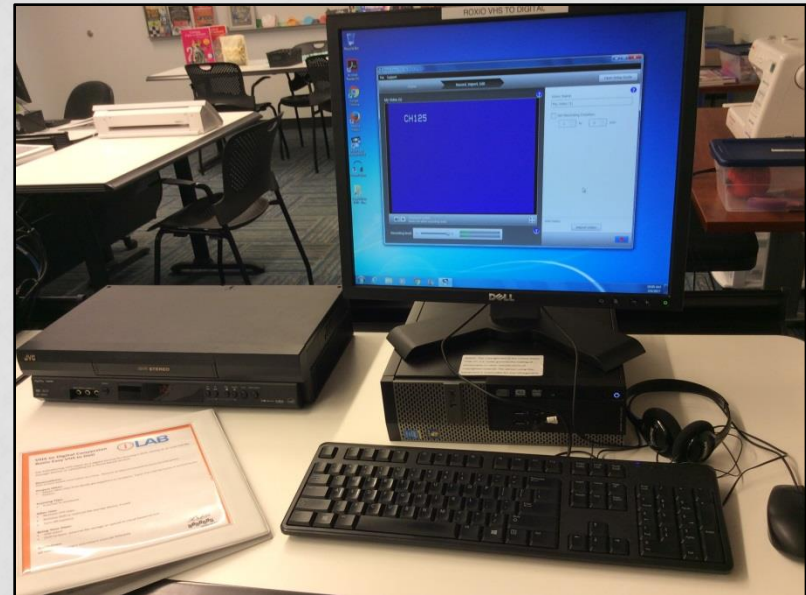
iMac & Wacom Creative Drawing Tablet

PC with creative software

PHOTO AND FILM DIGITIZATION

Photo, Slide & Negative Conversion

VHS to DVD Conversion
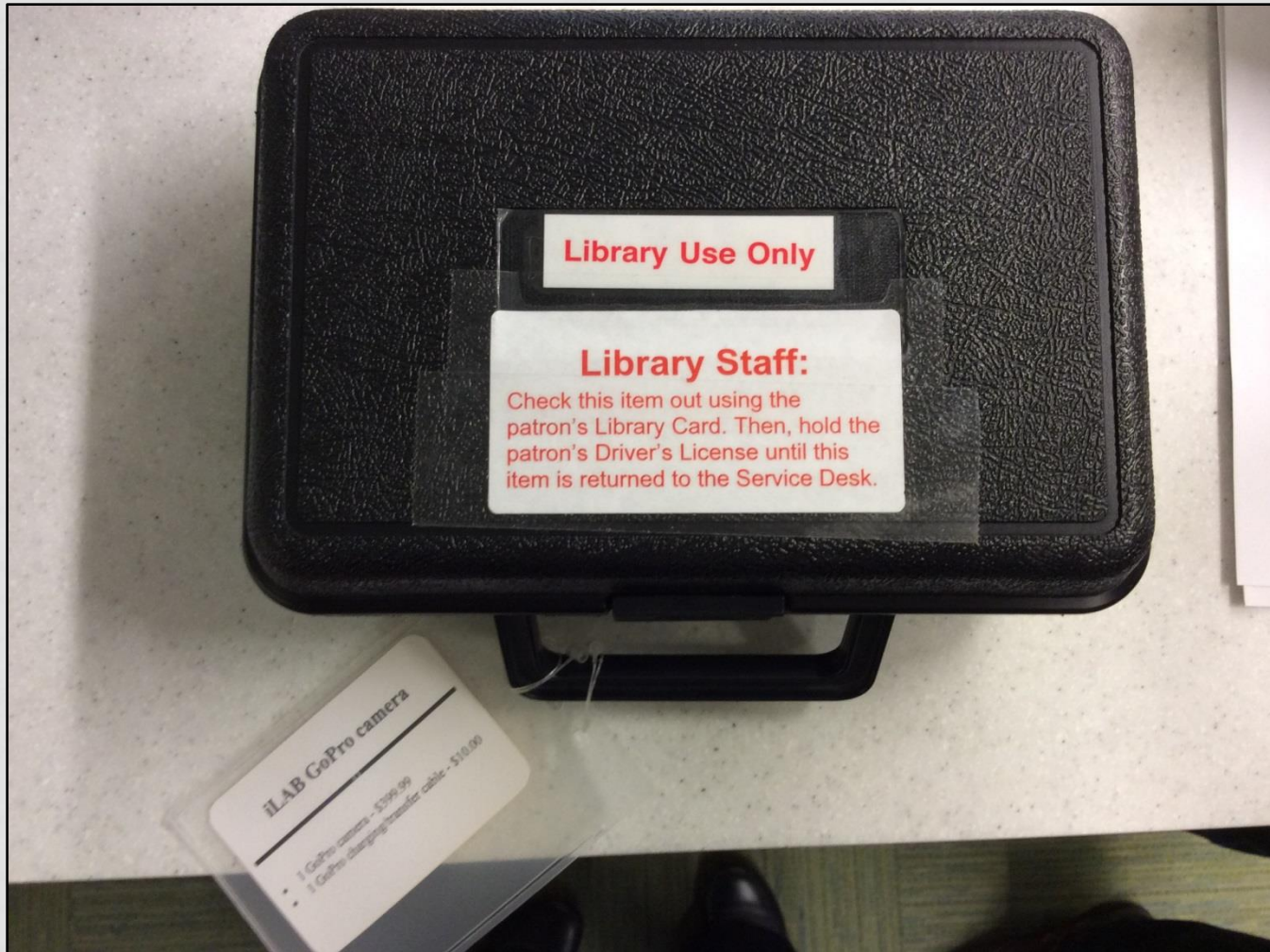
MEDIA PRODUCTION

WhisperRoom Sound Booth

Green Screen

MIDI Keyboard
& Mac Pro

PREVENTING LOSS

ONGOING MAINTENANCE & SUPPLIES

ILAB STATISTICS

iLAB Workstations

EQUIPMENT	NUMBER OF RESERVATIONS
3D Printer	384
Audio Production	146
Paper Cutter	127
Video Production	99
Photo, Slide, Negative Conversion	92
Creative Design iMac	85
Sewing	69
VHS to Digital	59
3D Digital Scanner	38
Fabric Cutter	33
Creative Design PC	32
Total	**1,164**

Total Workstation Hours: 2,125.5

iLAB Accessories/Optional Equipment

EQUIPMENT	NUMBER OF CHECKOUTS*
Audio Production Kit (wireless keyboard & mouse)	106
Condenser Mics (set of 2)	93
Video Production Kit (wireless keyboard & mouse)	73
Tripod with iPad and iPhone Mounts	43
Go Pro Camera	42
iMac Kit (wireless keyboard & mouse)	18
Wacom Intuos Drawing Tablet	12
Total	**389**

LEARNING TEAMS

3D Printing & Scanning:

Librarians:
- Wescott Librarian A[1]
- Wescott Librarian B[2]
- Wescott Library Associate

Circulation Staff:
- Senior Information Assistant F[3]
- Assistant Circulation Supervisor
- Senior Information Assistant A
- Senior Information Assistant D
- Senior Information Assistant B

Paper Cutter:

Librarians:
- Wescott Librarian C[1]
- Wescott Librarian A[2]
- Wescott Branch Manager

Circulation Staff:
- Senior Information Assistant B[3]
- Senior Information Assistant A
- Senior Information Assistant C

VHS to Digital Conversion:

Librarians:
- Wescott Branch Manager[1]

Circulation Staff:
- Senior Information Assistant D[2]

Video Production/ Digital Camera:

Librarians:
- Wescott Librarian B[1]
- Wescott Librarian A[2]
- Wescott Librarian D

Circulation Staff:
- Senior Information Assistant A[3]
- Senior Information Assistant D
- Senior Information Assistant B

Fabric Cutter:

Librarians:
- Wescott Librarian E[1]
- Wescott Librarian D[2]
- Wescott Branch Manager

Circulation Staff:
- Senior Information Assistant F[3]
- Circulation Supervisor
- Senior Information Assistant C

Sewing:

Librarians:
- Wescott Librarian D[1]
- Wescott Librarian E[2]
- System Services Librarian (time permitting)

Circulation Staff:
- Senior Information Assistant C[3]
- Circulation Supervisor
- Senior Information Assistant G
- Senior Information Assistant F

Audio Production/ WhisperRoom:

Librarians:
- Wescott Librarian B[1]
- Wescott Librarian C[2]
- Wescott Librarian D
- Wescott Library Associate
- Inver Glen Librarian
- Library Technology Specialist (time permitting)

Circulation Staff:
- Senior Information Assistant A[3]

Digital Art/ Creative Drawing Tablet:

Librarians:
- Wescott Librarian D[1]
- Wescott Branch Manager

Circulation Staff:
- Senior Information Assistant D[2]
- Senior Information Assistant G[3]
- Senior Information Assistant B

Photo/Slide/Film Converters & Photo Editing:

Librarians:
- Wescott Librarian C[1]
- Wescott Librarian B[2]
- Wescott Librarian E
- Wescott Librarian D

Circulation Staff:
- Senior Information Assistant B[3]
- Circulation Supervisor
- Assistant Circulation Supervisor
- Senior Information Assistant C
- Senior Information Assistant D

LEARNING TEAMS

Unbox & learn the basics

Provide staff training

Provide learning guides & training for the public

Make workstation setup & procedural recommendations

STAFF TRAINING METHODS

1-hour, classroom-style session

YouTube video playlists

Product website tutorials

Hands-on demonstration/ Q&A sessions

Lynda.com courses

10-30 minute, informal sessions

Impromptu demos

Lessons from external experts

Any combination of these

TRAINING THE PUBLIC

Audio Production 101	Intro to 3D Printing	Intro to 123D Design
Intro to Paper Cutting	3D Modeling Basics	Getting Started with Green Screen and iMovie
Intro to Fabric Cutting and Sewing	Photo and Film Digitization 101	Intro to 3D Scanning

TRAINING THE PUBLIC

| Staff-led introduction classes | iLAB staff person on duty | Book-a-Librarian for 30 minutes | Other iLAB users | Notebooks with quick-start guides and instructions | Lynda.com courses and online resources |

TOURS

Drop-ins

Other Library Systems

School Administrators & Teachers

Community Groups

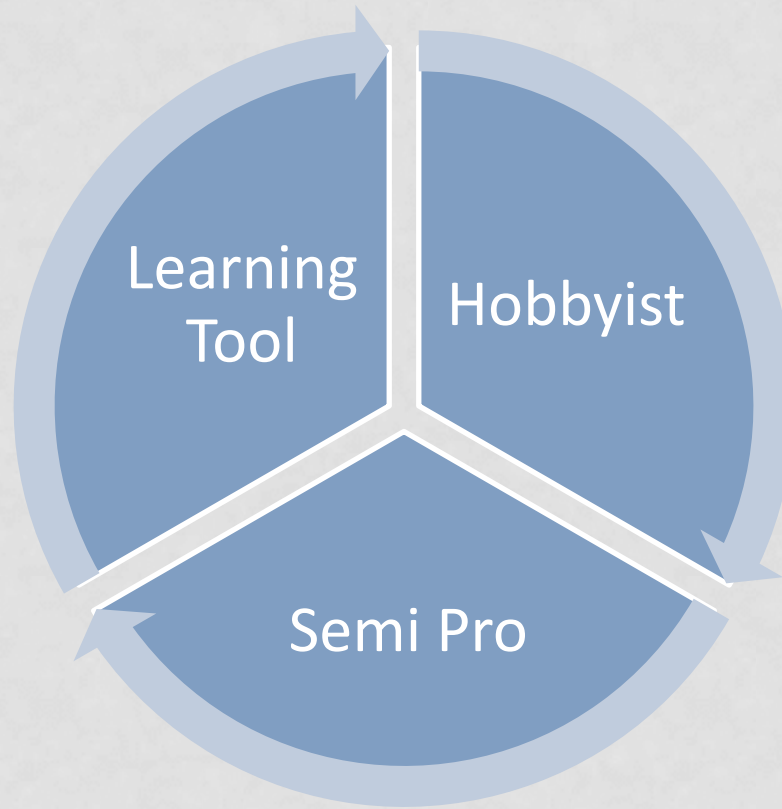**Other Dakota County Departments**

ILAB PHASE 2

TECHNOLOGY SPECIALIST PERSPECTIVE

SHAWN FOSTER-HUOT

SOFTWARE DECISIONS

CHOSEN SOFTWARE (AUDIO)

	Multitrack recording with pre-made MIDI keyboards, pre-made loops and various effects. Comes with OS X.
	Can be used to multi-track, known to be an instrument for live performance/composing. Used widely in EDM.
	Industry standard.

CHOSEN SOFTWARE (VIDEO)

Video editing software with basic color correction and video enhancement tools. Comes with OS X.

Widely used in industry. Part of Adobe Creative Cloud.

Widely used in industry. Easy jump from iMovie users.

TO DO LIST

Repurpose 6 lab PC's

- Remain on domain
- Create new user accounts.
- Retain licensing / disk protection, etc.
- Same Group Policies as public internets

Add 3 Macs to system

- Not on Domain
- No disk protection
- No group policy
- Create local users/groups

Soundbooth Assembly and Media wiring

- Microphone / Headphone wiring
- GreenScreen Lights

SOUND BOOTH OVERVIEW/FINDINGS

WhisperRoom MDL7272E
- Ventilation System
- Door Window

SOUND BOOTH OVERVIEW/FINDINGS

ADA – Door did not meet requirements so modifications we made
Fans are loud – need to install an override switch

MAC CHALLENGES

Disk Protection

Group Policy

Apple ID's

Software licensing

MAC SOLUTIONS

Disk Protection
- Time Machine Backup & Manual File Cleanup

Group Policy
- Non Admin User with Parental Controls

Apple ID's
- IT controlled Apple ID. Logged out.

Software licensing
- All account go through master gmail account.

SOFTWARE/HARDWARE ACCOUNTS

Added Accounts

- Adobe ID's
- iLok
- Avid (Pro Tools)
- Presonus (Studio One)
- Nektar (Midi controller)
- Steinberg (Midi software)
- Focusrite (soundcard)
- Smith Micro
- EQ7 (Quilting)
- Roxio
- Plasq.com (Comic)
- Ableton Live

ADOBE ACCOUNT CHALLENGES

1 Adobe ID per license

- Solution:

Make use of Gmail alias

- dakotacountylibrary+adobealias@gmail.com
- Documentation!!

FIRST YEAR ISSUES

USB connector damaged. Soldered replacement.

FIRST YEAR ISSUES

Updates (Apple & Adobe)

File / Space Management

OS upgrade resulted in reinstalling MIDI firmware

OS upgrade resulted in re-granting xcode permissions

QUESTIONS?

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