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;;;LEARNINGTIMES WEBINAR 4/15/2013

PRODUCE AND WE WILL BE E-MAILING YOU WITH A RECORDING TO THIS WHEN WE'RE THROUGH TODAY. YOU CAN ALSO FIND LOTS OF GREAT RESOURCES ON OUR COURSE PAGE. WE HAVE HANDOUTS WITH THE POWER POINT SLIDES FROM ALL OF OUR PRESENTATION, LINKS TO THE HOME WORK ASSIGNMENT. WE'VE GOT A WONDERFUL SET OF RESOURCES THAT ALL OF OUR SPEAKERS HAVE PULLED TOGETHER, ALL HYPERLINKED OFF THIS SITE AND AS WE ARE COMPILING ADDITIONAL ANSWERS TO QUESTIONS YOU'VE ASKED DURING THESE WEBINARS YOU'LL BE ABLE TO SEE THOSE DOCUMENTS THERE AS WELL. WE WON'T BE POSTING THE RECORDINGS UNTIL A COUPLE WEEKS FROM NOW, BUT WE WILL BE SENDING YOU AN E-MAIL LATER ON TODAY WHICH WILL HAVE THE RECORDING FOR THIS ONE AND IF YOU'VE MISSED ANY OF THE OTHER E-MAILS FROM US, YOU'LL ALSO GET ALL OF THOSE LINKS IN TODAY'S E-MAIL. SO I HOPE YOU'VE FOUND THAT THE WEB SITE IS HELPFUL TO YOU AS WE'VE GONE AHEAD WITH THIS COURSE. THERE'S BEEN A LOT TO LEARN. AGAIN, JUST IF YOU WANT TO BE WORKING TOWARDS EARNING A CERTIFICATE AND DIGITAL CREDENTIAL FOR THIS CLASS, AND THIS IS AN IMAGE OF OUR DIGITAL CREDENTIAL, JUST A REMINDER YOU NEED TO REGISTER, TURN IN YOUR PERMISSION FORM, WATCH EACH WEBINAR IN THIS COURSE, COMPLETE

ALL HOME WORK ASSIGNMENTS AND WE'LL HEAR A LITTLE BIT MORE ABOUT THAT IN A SECOND AND JUST MAKE SURE YOU GET ALL THAT HOME WORK AND CAUGHT UP ON ALL THE WEBINARS NO LATER THAN A WEEK FROM TODAY.

SO THAT'S MONDAY, APRIL 22. OF COURSE IF YOU HAVE ADDITIONAL QUESTIONS JOIN THE ONLINE COMMUNITY, THE CONNECTING TO COLLECTIONS ONLINE COMMUNITY IS A GREAT PLACE NOT ONLY WHERE YOU'LL FIND THE COURSE HOME PAGE BUT A GREAT PLACE TO NETWORK WITH YOUR COLLEAGUES IF YOU HAVE ADDITIONAL QUESTIONS OR AS YOU'RE WORKING TOWARDS ANY PRESERVATION PROJECT.

WE HOPE THIS IS A GREAT RESOURCE FOR YOU ALL.

SO I JUST WANT TO TURN IT OVER BRIEFLY TO DANIELLE PLUMER, SHE HAS BEEN HELPING ME COORDINATE THIS COURSE, GETTING ALL OUR SPEAKERS ORGANIZED, PLANNING OUR ENTIRE SCHEDULE AND SHE WANTED TO GIVE YOU A FEW UPDATES ON THE HOME WORK ASSIGNMENT YOU'VE BEEN COMPLETING.

DANIELLE?

>> THANK YOU, KRISTEN.

SO SOME OF YOU HAVE BEEN DOING THE HOME WORKS AS WE GO ALONG AND IT LOOKS LIKE A FEW PEOPLE MAY BE GETTING BEHIND.

KRISTEN MENTIONED THAT THE HOME WORKS NEED TO BE TURNED IN BY NEXT MONDAY SO YOU HAVE A WEEK FROM THE LAST RECORDING TO FINISH THE HOME WORKS.

AND SOMEONE JUST ASKED A QUESTION, YOU KNOW, IF I MISSED A WEBINAR DO I NEED TO LET YOU KNOW OR HOW DO I GET CREDIT FOR IT?

WELL, YOU CAN ABSOLUTELY WATCH

THE WEBINARS ON YOUR OWN.  
WE SEND YOU THE LINKS TO THEM  
AFTER THE SESSIONS.  
BUT IT'S THE HOME WORKS THAT ARE  
REALLY THE KEY FOR US TO KNOWING  
WHO PARTICIPATED IN THE  
WEBINARS.  
WE HAD OVER 400 PEOPLE WHO HAVE  
DONE THE HOME WORK FOR THE FIRST  
OF THE SESSIONS AND THAT'S  
FANTASTIC.  
THAT ONE FOCUSED ON IDENTIFYING  
SOME COLLECTIONS AND INFORMATION  
ABOUT THOSE COLLECTIONS AT YOUR  
INSTITUTIONS.  
FOCUSING ON DIGITAL ITEMS THAT  
YOU ALREADY HAVE.  
THE SECOND SESSION WE'VE HAD  
OVER 300 PEOPLE DO THE HOME WORK  
FOR THAT ONE AND THAT ONE WAS  
LOOKING AT SUSTAINABILITY  
FACTORS FOR SOME OF THE FORMATS  
OF DIGITAL ITEMS THAT YOUR  
INSTITUTION HAS AS WELL AS JUST  
SOME QUESTIONS ABOUT ADOPTING  
NEW FORMATS AS THEY BECOME  
AVAILABLE.  
THE THIRD SESSION RIGHT NOW 250  
PEOPLE HAVE DONE THE HOME WORK  
FOR THAT ONE.  
THAT WAS THE SESSION ON METADATA  
AND THE QUESTIONS FOR THAT HOME  
WORK WERE REALLY JUST LOOKING AT  
WHAT SORTS OF INFORMATION DO YOU  
NEED TO RECORD TO PRESERVE  
OBJECTS INTO THE FUTURE AS WELL  
AS A COUPLE OF EXERCISES THAT  
ARE HOPEFULLY GOING TO MAKE YOU  
THINK ABOUT HOW YOU RECORD  
INFORMATION FOR PURPOSES OF  
INTEROPERABILITY, THAT IS  
STANDARDIZING THE WAY YOU RECORD  
INFORMATION SO THAT IT'S SIMILAR  
TO WHAT OTHER PEOPLE IN OTHER  
INSTITUTIONS ARE DOING, MAKING  
IT EASIER TO SHARE IN THE  
FUTURE.

AND THAT ONE I JUST WANT TO REITERATE IS SOMETHING THAT WE SAID BEFORE.

THIS IS NOT A TEST LOOKING TO SEE IF YOU GET THE RIGHT ANSWERS IT'S JUST MEANT TO THINK ABOUT HOW GHOUL THROUGH AS YOU DO METADATA AND ENTER THAT INFORMATION IN THE FUTURE.

THE FOURTH SESSION WE HAD 220 PEOPLE LOOKING AT THE HOME WORK FOR THAT IS LOOKING AT PRESERVATION AND CHECKSUMS AND SOME OF YOU SEEM TO HAVE FUN WITH THE CHECKSUM.

IF IT WASN'T WORKING, DON'T WORRY ABOUT IT WHEN YOU TRIED IT.

JUST GO AHEAD AND DO IT AND PUT IN A NOTE SAYING THAT THE COMPUTER YOU'RE USING DOESN'T LET YOU DO THAT.

YOU DON'T WANT YOU TO FEEL FRUSTRATED OR NOT GET CREDIT FOR THE COURSES SIMPLY BECAUSE OF A TECHNICAL PROBLEM LIKE THAT SO GO AHEAD AND EVEN IF YOU HAVE TO SAY NO RESPONSE, GO AHEAD AND FINISH THE HOME WORK AND SUBMIT IT AND THAT WAY WE KNOW WHO FINISHED THE COURSE AND WE CAN GET THOSE DIGITAL CERTIFICATES OUT TO EVERYBODY AS SOON AS WE CAN.

AGAIN, THE DEADLINE FOR THAT IS MONDAY, APRIL 22.

SO THE SOONER YOU GET IT IN, THE BETTER.

KRISTEN, YOU WANT TO --

>> THANK YOU SO MUCH, DANIELLE. AND DANIELLE WILL BE HELPING ANSWER QUESTIONS WHEN WE GET GOING IN THE CHAT BOX AS WELL AND IT'S JUST BEEN A GREAT HELP SO WE REALLY APPRECIATE ALL OF OUR CONTRIBUTIONS TO THIS COURSE.

AGAIN, UP ON THE WEB SITE IS OUR  
E-MAIL ADDRESS INFO.

IF YOU HAVE ANY QUESTIONS AND  
OUR PHONE NUMBER AS WELL.

AND WITH THAT I WOULD LIKE TO  
INTRODUCE YOU TO TODAY'S  
INSTRUCTORS.

WE HAVE TWO TODAY, LIZ BISHOFF  
IS THE PRINCIPAL PARTNER OF THE  
BISHOFF GROUP, A LIBRARY AND  
CULTURAL HERITAGE ORGANIZATION  
CONSULTING SERVICES.

SHE PREVIOUSLY WAS THE DIRECTOR  
AND PRESERVATION -- DIRECTOR OF  
DIGITAL AND PRESERVATION  
SERVICES AT B.C.R. INCORPORATED  
AND SHE ALSO SERVED AS VICE  
PRESIDENT OF DIGITAL COLLECTIONS  
SERVICES AT OCLC AND AS THE  
EXECUTIVE DIRECTOR OF THE  
COLORADO DIGITIZATION PROGRAM.

ALL THAT TO SAY THAT SHE HAS LED  
THE DEVELOPMENT OF COLLABORATIVE  
BEST PRACTICES IN METADATA AND  
DIGITAL IMAGING AND HAS A WEALTH  
OF EXPERIENCE.

SHE HELPED ADOPT ALL HER WORK  
HAS HELPED -- RESULTED IN WILD  
ADOPTING A CDP METADATA, DUBLIN  
CORE BEST PRACTICES AND DIGITAL  
IMAGING BEST PRACTICES.

SHE HOLDS A MASTERS DEGREE IN  
LIBRARY AND SCIENCE AND HAS  
POST-PUBLIC ADMINISTRATION AT  
ROOSEVELT UNIVERSITY.

AND TOM CLARESON IS THE SENIOR  
CONSULTANT FOR DIGITAL AND  
PRESERVATION SERVICES AT  
LYRICIST.

AND LYRICIST IS A LIBRARY  
SERVICE ORGANIZATION THAT WAS  
FORMED WITH A MERGER OF THREE  
COMPANIES.

TOM CONSULTS NATIONALLY AND  
INTERNATIONALLY ON PRESERVATION,  
DIGITIZATION, SPECIAL  
COLLECTIONS AND ARCHIVES, REMOTE

STORAGE FUNDING AND ADVOCACY.  
SO, LIKE LIZ, HAS A WEALTH OF  
EXPERIENCE IN THIS TOPIC.  
HE'S WORKED WITH ALL TYPES AND  
SIZES OF ACADEMIC AND PUBLIC  
LIBRARIES, ARCHIVES, MUSEUMS AND  
OTHER CULTURAL INSTITUTIONS  
INCLUDING SUCCESSFULLY  
CONDUCTING OVER 200 SITE VISITS  
COVERING PRESERVATION  
DIGITIZATION AND SPECIAL  
COLLECTIONS RELATED ISSUES.  
HE HAS A MASTER IN LIBRARY  
SCIENCE DEGREE FROM KENT STATE  
AND AN M.A. FROM OHIO STATE  
UNIVERSITY.

HIS B.A. IS FROM OHIO WESLEYAN.  
SO WITH THAT I WILL CLOSE MY  
SCREEN HERE AND BRING UP TOM AND  
LIZ'S POWER POINT AND TOM WILL  
BE GETTING US STARTED TODAY.  
SO JUST GIVE ME A SECOND, TOM,  
THEN I'LL TURN IT OVER TO YOU.  
OKAY, I'LL LET YOU GO AHEAD, TOM  
THANK YOU.

>> OKAY, THANK YOU, KRISTEN, AND  
GOOD AFTERNOON, EVERYONE.  
THANK YOU FOR JOINING OUR  
SESSION TODAY ON PARTNERING TO  
PRESERVE: DIGITAL PRESERVATIONS  
SOLUTIONS, NETWORKS AND  
COLLABORATION.

AS KRISTEN SAID, I'M TOM  
CLAIRESON AT LIRASIS AND WE ARE  
A LEADING NETWORK FOR LIBRARY  
AND CULTURAL ORGANIZATION  
TRAINING AND SUPPORT SO I WORK  
WITH ALL THE TYPES OF  
ORGANIZATIONS THAT ARE HERE ON  
THE PHONE TODAY.

MY COLLEAGUE AND CO-PRESENTER  
TODAY IS LIZ BISHOFF ANDS, LIZ,  
IF YOU WANTED TO SAY HELLO, THAT  
WOULD BE GREAT.

>> WELL, GOOD MORNING TO  
EVERYBODY I'M PLEASED TO BE  
PARTICIPATING IN THIS HERITAGE

PRESERVATION SET OF WORKSHOPS AS KRISTEN AND DANIELLE INDICATED I WORK EXTENSIVELY IN THE DIGITAL ARENA WITH LIBRARIES, MUSEUMS AND ARCHIVES AND MOST RECENTLY HAVE DONE A GREAT DEAL IN COLLABORATION WITH TOM ON DIGITAL PRESERVATION READINESS ASSESSMENT AND PRESERVATION PLANNING.

SO HOPEFULLY WE WILL HAVE A GOOD INTERACTION WITH YOU TODAY AND WE WELCOME ANY SPECIFIC QUESTIONS YOU HAVE THAT WE MIGHT BE ABLE TO RESPOND TO.

BACK TO YOU, TOM.

THE.

>> OKAY, GREAT.

WELL, THROUGHOUT THIS WEBINAR SERIES THERE HAVE BEEN A NUMBER OF GOALS IT IS INSTRUCTORS HAVE HAD IN MIND AND I WANTED TO REITERATE THOSE BEFORE WE START THIS AFTERNOON.

FIRST IS THAT PARTICIPANTS WILL HAVE A BETTER UNDERSTANDING OF THE INHERENT FRAGILITY OF DIGITAL OBJECTS AND WE'LL CERTAINLY BE TALKING ABOUT THAT TODAY.

PARTICIPANTS ARE GOING TO ACQUIRE INFORMATION TO HELP THEM SELECT PRESERVATION FORMATS, METADATA, AND BACKUP SYSTEMS FOR DIGITAL OBJECTS.

AND PARTICIPANTS WILL BE ABLE TO IDENTIFY ONE OR MORE ACTIONS THAT CAN BE TAKEN TO IMPROVE THEIR INSTITUTION'S DIGITAL PRESERVATION EFFORTS.

WE WILL BE SURE TO MEET ALL OF THOSE GOALS DURING OUR SESSION THIS AFTERNOON.

NOW, YOU HEARD KRISTEN TALKING ABOUT THIS AND YOU CAN SEE FROM OUR CHART HERE, WE ARE THE FIFTH OUT OF FIVE SESSIONS ON THE

DIGITAL PRESERVATION TOPIC AND RECORDINGS OF EACH OF THE SESSIONS WILL BE AVAILABLE. TODAY WE MAY BRIEFLY TOUCH ON SOME OF THE KEY IDEAS YOU'VE HEARD THROUGHOUT THE SERIES SO WE WILL HARKEN BACK TO A COUPLE OF THOSE THINGS AS WE MOVE THROUGH OUR DISCUSSION.

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HERE IS OUR OVERALL SESSION OUTLINE FOR TODAY. WE ARE GOING TO COVER INFORMATION INCLUDING WHY WE NEED DIGITAL PRESERVATION SOLUTIONS, THE COLLABORATIVE APPROACH TO DIGITAL PRESERVATION INFORMATION ON COLLABORATIVE DIGITAL PRESERVATION SERVICES AND SOLUTIONS.

WE'LL CERTAINLY HAVE THE IDEA THAT THE USE OF MULTIPLE SOLUTIONS IS IMPORTANT BECAUSE AS OF NOW THERE IS NO SILVER BULLET OR ONE SIZE FITS ALL DIGITAL PRESERVATION SOLUTION YET.

SO WE'LL TALK ABOUT THE USE OF MULTIPLE SOLUTIONS IN THESE CASES.

WE'LL HAVE AN OPPORTUNITY TO TALK ABOUT WEIGHING YOUR OPTIONS AND THINKING ABOUT YOUR IDEAS OF WHERE TO GO WITH DIGITAL PRESERVATION AND WE WILL END WITH A LITTLE BIT OF DISCUSSION ON PLANNING FOR THE FUTURE AT YOUR INSTITUTION ON DIGITAL PRESERVATION ACTIVITIES.

NOW, ONE OF THE THINGS THAT WE ARE GOING TO TRY TO DO-- AND WE'RE GOING TO HAVE A COUPLE OF THESE COMING ALONG FAIRLY RAPID FIRE-- IS TO DO A COUPLE OF SURVEY POLLS DURING TODAY'S SESSION AND THESE FIRST SERE RISE WILL HELP US IN GETTING TO



KNOW YOU AND WHERE YOU ARE IN DIGITAL PRESERVATION.

SO KRISTEN, IF YOU WANT TO START PULLING OVER THE FIRST COUPLE OF POLLS, PLEASE.

IF THE PEOPLE WHO ARE PARTICIPATING COULD INDICATE HOW MANY OF YOU HAVE LESS THAN ONE TERABYTE, ONE TO FIVE TERABYTES OF DATA, FIVE TO 15 TERABYTES, MORE THAN 15 OR DON'T KNOW THAT WOULD BE GREAT TO SEE THAT FIRST LEVEL OF INFORMATION.

>>

WE CAN SEE THAT AT THIS POINT THERE ARE A NUMBER OF PEOPLE RESPONDING THAT THEY HAVE LESS THAN ONE OR ONE TO FIVE.

IT'S ABOUT A TIE THERE.

AND A NUMBER OF FOLKS WHO DON'T KNOW.

AND THAT IS CERTAINLY FINE.

ONE OF THE THINGS WE WILL TALK ABOUT AS WE GO ALONG DURING THIS SESSION IS TO TRY TO START INVENTORYING YOUR DIGITAL COLLECTIONS TO DETERMINE HOW MUCH VOLUME YOU HAVE AND WHAT TYPE OF FORMATS YOU MIGHT HAVE.

SO WE SEE THAT THERE ARE A NUMBER OF FOLKS-- ABOUT 110-- IN THE "DON'T KNOW" COLUMN AND AS I SAID, THAT IS FINE.

AND WE HAVE A FAIRLY EVEN SPLIT WITH LESS THAN ONE TERABYTE AND ONE TO FIVE TERABYTES AND THEN SOME BIG COLLECTIONS OF DATA AS WELL AT FIVE TO 125 OR MORE THAN 15.

OKAY, GREAT.

THE OTHER QUESTION THAT WE HAVE IS THAT WE ARE TAKING A LOOK AT HOW OFTEN YOU BACK UP YOUR FILES.

DO YOU DO THAT ON A DAILY, WEEKLY, MONTHLY BASIS?

AND WE HAVE SO FAR THE BIGGEST

GROUP IS THE GROUP THAT IS SAYING THAT THEY DO DAILY BACKUPS, ABOUT 80 OF OUR PARTICIPANTS ARE DOING THAT. WEEKLY IS ABOUT 59. NOT ON A REGULAR SCHEDULE IS 61 AND DON'T KNOW IS 65. AND IF -- AGAIN, THOSE OF YOU WHO DON'T KNOW, THIS IS A REALLY GOOD QUESTION TO KNOW ABOUT HOW OFTEN YOUR INFORMATION TECHNOLOGY DEPARTMENT, YOUR I.T. DEPARTMENT, DOES THIS TYPE OF ACTIVITY. OR THE OTHER IDEA IS IF THIS IS SOMETHING THAT YOU ARE RESPONSIBLE FOR AT YOUR INSTITUTION BECAUSE YOU HAVE A SMALL STAFF, THIS IS SOMETHING THAT YOU SHOULD TRY TO WORK INTO YOUR ACTIVITIES DURING THE WEEK, TRY TO WORK INTO YOUR DIGITAL ACTIVITIES. SO WE'VE GOT -- THINGS ARE HOLDING STATIC ON THAT POLE, THANK YOU VERY MUCH FOR YOUR RESPONSES THERE. AND THEN -- BUT ONE OF THE QUESTIONS THAT WE HAD IS HOW MANY LOCATIONS DO YOU STORE YOUR COPIES IN? YOUR DIGITAL COPIES IN? AND WE HAVE A NUMBER OF PEOPLE WHO ARE RESPONDING TWO COPIES IN TWO PLACES AND THAT IS -- WE'RE ACTUALLY HAVING A LOT OF RETURNS HERE RIGHT NOW. AND THAT IS STILL THE HIGHEST VOTE GETTER. BUT WE HAVE A NUMBER OF PEOPLE ALSO WITH UP WITH COPY IN ONE PLACE, TWO COPIES IN ONE PLACE. ONE OF THE THINGS THAT WE WILL BE TALKING ABOUT AND SUGGESTING DURING THE DAY TODAY IS THE IDEA OF MAKING SURE THAT YOU BACK UP ESPECIALLY CONTENT BUT YOU CAN

BACK UP METADATA AS WELL IN MULTIPLE PLACES.

AND WE'RE THINKING ABOUT THE IDEA OF MULTIPLE COPIES IN MULTIPLE PLACES AND LIZ WILL TALK ABOUT HOW SOME OF OUR DIGITAL SOLUTIONS ARE ABLE TO ASSIST YOU IN WORKING ON THAT TYPE OF GEOGRAPHIC DISTRIBUTION FOR DIGITAL PRESERVATION.

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SO, WITH THAT IN MIND, THANK YOU KRISTEN, FOR RUNNING THOSE POLLS AND WE WILL HOLD ON AND HAVE ANOTHER POLL IN JUST A FEW MINUTES.

BUT I REALLY APPRECIATE GETTING A LITTLE BIT OF A PROFILE OF WHERE YOUR INSTITUTIONS ARE AS FAR AS DIGITAL PRESERVATION IS CONCERNED.

SO THANK YOU FOR YOUR RESPONSES. SO TO START OFF I WANTED TO TALK ABOUT WHY DO WE NEED DIGITAL PRESERVATION SOLUTIONS?

AND GIVE YOU A QUICK REVIEW OF SOME OF THE TOPICS ADDRESSED EARLIER IN THE SERIES AND SOME NEW THOUGHTS FOR TODAY AS WELL.

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SO WHY IS DIGITAL PRESERVATION AN ISSUE?

WELL, WE ALL KNOW THAT THE TECHNOLOGY ISSUE IS ONE OF THE RATE OF CHANGE, THE QUICK RATE OF CHANGE, AND THE VARIETY OF TECHNOLOGY.

BUT THERE ARE SOME OTHER ISSUES THAT NEED TO BE ADDRESSED AS WELL.

IN ADDITION TO THE STORAGE MEDIA AND OPERATING SYSTEMS, WE'RE ALSO FACED WITH FILE FORMAT CHANGES AND LOCAL VERSUS DISTRIBUTED BASES OF TECHNOLOGICAL PROJECTS.

BUT THAT'S NOT ALL.

WE HAVE SOME ORGANIZATIONAL CHALLENGES THAT WE NEED TO LOOK AT, TOO.

ONE OF THEM CERTAINLY IS THE EVER-GROWING AMOUNT OF CONTENT AND IN SOME CASES WE ARE DEALING WITH THAT WITH THE SAME AMOUNT OF HUMAN RESOURCES AND TECHNICAL RESOURCES THAT WE'VE ALWAYS HAD.

WE HAVE SOME NEW PARTNERSHIPS THAT WE NEED TO DEAL WITH. TRADITIONALLY OUR PARTNERSHIPS HAVE BEEN WITHIN THE LIBRARY AND CULTURAL HERITAGE COMMUNITY WHERE WE HAVE SOME COMMON CULTURES, SOME COMMON GOALS.

BUT IN THE DIGITAL ENVIRONMENT WE HAVE NEW PARTNERS.

WE'VE ESTABLISHED SOME CAMPUS-BASED PARTNERS AS WE STEWARD FACULTY AND STUDENT CREATED CONTENT IN COLLEGES AND UNIVERSITIES.

>> AND WE HAVE PARTNERING WITH OTHER CULTURAL HERITAGE ORGANIZATIONS LOCALLY AND NATIONALLY AS WE DO SOME THINGS, INCLUDING REUNITING CONTENT VIRTUALLY, WHETHER IT'S TWO COLLECTIONS WITH SIMILAR HOLDINGS THAT ARE A COUPLE OF STATES OR PROVINCES OR COUNTRIES AWAY OR WHETHER THEY MIGHT EVEN BE JUST A MILE AWAY IN DIFFERENT INSTITUTIONS ON CAMPUS.

SO SOME NEW PARTNERSHIPS THAT WE NEED TO DEAL WITH.

WE'RE ALSO PARTNERING WITH PUBLISHERS, WITH CONTENT CREATORS, WITH COMPUTER ORGANIZATIONS AND EVEN THE COMMERCIAL SECTOR AS WE DEVELOP OUR DIGITAL ENVIRONMENT.

AND WITH THESE PARTNERS WE DON'T SHARE AS MUCH COMMON VOCABULARY OR COMMON GOALS OR COMMON VISION.

SO WITH EACH OF THESE NEW COMMUNITIES WE HAVE TO ESTABLISH THE GOALS AND OBJECTIVES AND FIND SOME OF THE COMMONALITIES. FINALLY, SYSTEM ARCHITECTURE IS PART OF THE CHALLENGE AS WELL. WE NEED SYSTEMS THAT SUPPORT AND USE NON-PROPRIETARY PROGRAMS THAT ALLOW THE INTEROPERABILITY TO PROVIDE THE RELIABILITY THAT DIGITAL PRESERVATION REQUIRES. WE HAVE REGULAR EXAMPLES OF SOME STATE-BASED OR MULTISTATE DISASTERS.

WHETHER IT'S HURRICANE KATRINA OR HURRICANE SANDY THAT REQUIRE US TO CONSIDER PRESERVATION PROGRAMS PROVIDING NETWORK AND DISTRIBUTIVE SERVICES UTILIZING ONE OF THE SEVERAL APPROACHES WE'LL DISCUSS TODAY.

SO YOU'LL HEAR ABOUT SOME NETWORK DISTRIBUTED MULTISITE MULTISTATE APPROACHES AS WE GO THROUGH THE DAY.

AND THEN FINALLY DIGITAL PRESERVATION ALSO REQUIRES US TO ADOPT STANDARDS FOR CONTENT MIGRATION TO ASSURE LONG-TERM ACCESS.

AND SO THAT MIGRATION OF CONTENT ACROSS PLATFORMS IS EXTREMELY HELPFUL AS WELL.

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SO, AS YOU CAN SEE, IT'S NOT JUST THE TECHNOLOGY, BUT WE HAVE TO THINK ABOUT OUR ORGANIZATIONAL ISSUES AND SOME SYSTEM ARCHITECTURE ISSUES AS WELL.

NOW, THIS IS A GREAT QUOTE FROM THE HIGHER EDUCATION FUNDING ORGANIZATION IN THE UNITED KINGDOM.

THEY SAY "DISASTER RECOVERY STRATEGIES AND BACKUP SYSTEMS ALONE ARE NOT SUFFICIENT TO

ENSURE SURVIVAL OF AND ACCESS TO AUTHENTIC DIGITAL RESOURCES OVER TIME.

A BACKUP IS A SHORT-TERM DATA RECOVERY SOLUTION FOLLOWING LOSS OR CORRUPTION AND IS FUNDAMENTALLY DIFFERENT TO AN ELECTRONIC PRESERVATION ARCHIVE."

SO THE IDEA THAT WE HAVE TO HAVE A LITTLE BIT MORE COMPLEX AND PLANNED ACTIVITY FOR DIGITAL PRESERVATION OVER JUST A GENERAL BACKUP IS CERTAINLY TRUE.

WE'RE LOOKING AT THE COMBINATION OF TECHNICAL RESOURCES, HUMAN RESOURCES, AND FINANCIAL RESOURCES IN ORDER TO WORK ON OUR DIGITAL PRESERVATION ACTIVITIES.

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NOW YOU CAN CERTAINLY SEE A RISK ON THE RIGHT-HAND SIDE OF THE LIGHTNING STRIKE.

AND WHEN WE DISCUSS DIGITAL PRESERVATION RISKS WHAT IMMEDIATELY COMES TO MIND FOR MOST PEOPLE ARE THE RISKS ASSOCIATED WITH TECHNOLOGY, HARDWARE AND SOFTWARE FAILURES AND THEN ACTS OF GOD LIKE DAMAGE ASSOCIATED WITH FIRES, MAJOR WEATHER EVENTS AND THE RESULTING CHAOS AND DAMAGE AFTER THAT. THOSE ARE ACTIONS THAT WE REALLY CAN'T CONTROL.

BUT THERE ARE A LOT OF OTHER RISKS TO DIGITAL COLLECTIONS AND SOME OF THEM WE CAN ANTICIPATE OR MAYBE CONTROL.

A FEW ARE OUTSIDE OF OUR CONTROL BUT LET'S LOOK AT A COUPLE OF THESE CHALLENGES, A COUPLE OF THESE RISKS AS WE MOVE THROUGH. ORGANIZATIONAL CHANGES CAN HAVE A MAJOR IMPACT ON OUR DIGITAL PROGRAM.

AND PUT THE DIGITAL COLLECTIONS AT RISK.

ADMINISTRATIVE SUPPORTERS WHO ARE AT OUR MUSEUM, LIBRARY ARCHIVE MAY COME AND GO AND THAT MIGHT RESULT IN CHANGES IN RESOURCING FOR OUR DIGITAL PROGRAMS.

SOCIOCULTURAL VIEWS ON THE IMPORTANCE OF CULTURAL HERITAGE HAVE A DIRECT AND INDIRECT IMPACT ON OUR DIGITAL COLLECTIONS.

THIS IS DIRECTLY RELATED TO POLITICAL RISK.

THE GOVERNOR WHO WHO MIGHT BE SUPPORTIVE OF MUSEUMS AND LIBRARIES DIRECTS FUNDING TO THESE INITIATIVES.

THE GOVERNOR AND THE LEGISLATOR THAT ISN'T CAN END FUNDING FOR DIGITAL PRESERVATION PROGRAMS AND LEAVE OUR REPOSITORY HIGH AND DRY SO WE HAVE TO BE READY TO WEATHER THE UPS AND DOWNS OF POLITICAL CHALLENGES AS WELL. MAYOR MENINO LIBRARY, ARCHIVES AND MUSEUMS HAVE A LEGISLATIVE MANDATE TO PROVIDE LONG-TERM ACCESS TO DIGITAL COLLECTIONS AND UNDERSTANDING THAT MANDATE IS CRITICAL IN PRIORITIZING THE OVERALL RATIONALE FOR PRESERVATION AND THE DESIGNATED COMMUNITY AND DEVELOPING THE FINANCIAL STRUCTURE FOR THE DIGITAL MATERIALS THAT WE HAVE AVAILABLE.

AND YOU'VE PROBABLY HEARD THIS TERM BEFORE, BUT THE DESIGNATED COMMUNITY IS THE AUDIENCE, IN SOME WAYS THE TARGET AUDIENCE, WHO ARE ARE DIRECTING TOWARD OUR DIGITAL RESOURCES.

FAILURE TO CREATE A SUSTAINABLE BUSINESS PLAN FOR THE PRESERVATION PROGRAM MAY BE ONE

OF THE MAJOR RISKS FOR THE PROGRAM.

LEGISLATORS FREQUENTLY DEVELOP UNFUNDED PROGRAMS AND REQUIRE A LIBRARY OR MUSEUM TO IMPLEMENT A PROGRAM WITHOUT ADEQUATE NEW FUNDING.

SO WE WANT TO SEE IF WE CAN MOVE THIS FROM SOMETHING THAT MIGHT BE SUPPORTED BY GRANTS TO SOMETHING THAT IS SUPPORTED BY OUR INTERNAL BUDGETING AND A BUDGET LINE, A DEDICATED BUDGET LINE.

UNDERSTANDING THE CONTRACTS ASSOCIATED WITH CONTENT INGESTED INTO A REPOSITORY AS WELL AS THE COMMITMENTS TO DEPOSITORS WHO PUT MATERIALS IN THERE ARE ALSO EXAMPLES OF AREAS OF RISK.

AND FINALLY, A FORCE MAJURE IS A SET OF UNFORESEEABLE CIRCUMSTANCES THAT MAY OVERPOWER AN ORGANIZATION AND THAT CAN BE THE KIND OF DISASTER WE HAVE HEARD ABOUT WITH KATRINA, WITH HURRICANE SANDY AND OTHERS AND THAT CAN BRING ALONG SOME OF THESE OTHER RISKS AND CHALLENGES AS WE GO ALONG.

SO HERE ARE THE RISKS AS I'VE OUTLINED, BUT I WANTED TO TALK WITH YOU ALSO ABOUT THE WHAT THE RISK IMPACT ON THE DIGITAL COLLECTIONS MIGHT BE.

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WHEN A COLLECTION IS AT RISK, OUR FIRST THOUGHTS ARE OF DAMAGE TO OR LOSS OF DIGITAL ASSETS. HOWEVER, THERE ARE ADDITIONAL IMPACTS BEYOND THE ACTUAL COLLECTION.

DEPENDING ON THE SERIOUSNESS OF THE FAILURE, THE REPUTATION OF THE STAFF MANAGING THE REPOSITORY COULD BE DAMAGED AS WELL.



LACK OF AVAILABILITY OF THE CONTENT MIGHT RESULT UNTIL A STATUTORY BREACH.

IF THE INSTITUTION HAS AN OBLIGATION TO MAKE THE COLLECTION AVAILABLE AND THE COLLECTION IS EITHER DAMAGED OR LOST THE ORGANIZATION MIGHT BE IN BREACH.

THE PUBLIC WELL-BEING IS AT RISK BECAUSE CONTENT IN THE LIBRARY OR THE ORGANIZATION MIGHT NOW BE LIABLE AS WELL.

THE RIPPLE EFFECT IS THAT THE LIBRARY'S REPUTATION CAN BE MERGED IN THIS CASE AS WELL.

WHILE THERE MAY BE NO DIRECT FINANCIAL LIABILITY THERE MAY BE SIGNIFICANT FINANCIAL IMPACT IN THE ATTEMPT TO RECOVER DATA.

SO THAT IS SOMETHING THAT WE CAN LOOK AT WITH DAMAGE TO FINANCIAL LIABILITY.

IN A FEW CASES, THE ORGANIZATION MAY HAVE TO CONSIDER ENVIRONMENTAL DAMAGE IF FOR A REASON THERE WERE LEAKS OF CHEMICALS WHICH WERE NOT TRACKED BECAUSE COLLECTIONS OR MONITORS WERE OFFLINE OR FAILING.

AND THERE'S, OF COURSE, THE PROBLEM OF THE INSTITUTION NOT MEETING THE OBLIGATION OF ENSURING THE AUTHENTICITY AND UNDERSTANDABILITY OF THE DIGITAL RESOURCES AND THAT IS REALLY THE PURPOSE AS WE'VE LEARNED OVER THIS WHOLE SERIES OF DIGITAL PRESERVATION: ENSURING THE AUTHENTICITY AND UNDERSTANDABILITY OF OUR DIGITAL RESOURCES AND MAKING SURE THAT OUR USERS ARE ABLE TO WORK WITH THOSE MATERIALS.

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WHAT YOU'RE DOING THROUGH RISK ASSESSMENT IN GENERAL TO SORT OF

WRAP UP THIS AREA IS DETERMINING  
THE LIKELIHOOD OF ANY OF THESE  
CONDITIONS OCCURRING.

IS IT A HIGH RISK?

A MEDIUM RISK?

OR A LOW RISK?

IF YOU DON'T HAVE A LEGISLATIVE  
OR STATUTORY MANDATE TO RETAIN A  
PARTICULAR COLLECTION THEN YOU  
MIGHT HAVE A LOWER RISK  
ASSOCIATED WITH ANY LOSS OF  
DATA.

IF THE CONTENT THAT'S CREATED  
DOESN'T USE ANY COMMERCIAL  
SOFTWARE TO CREATE THE CONTENT  
THEN YOU HAVE A LOWER RISK OR  
LOWER LEVEL OF CONTRACTUAL  
LIABILITY.

SO THINK ABOUT HOW THE WAY YOU  
ARE OFFERING YOUR DIGITAL  
PRESERVATION SERVICES MIGHT BE  
ABLE TO LOWER YOUR RISK.

AND THAT IS CERTAINLY SOMETHING  
WHEN WE HAVE AN OPPORTUNITY TO  
TALK ABOUT ALL OF THE DIFFERENT  
TYPES OF DIGITAL PRESERVATION  
SOLUTIONS THAT ARE OUT THERE  
DURING LIZ'S PART OF THE  
PRESENTATION THAT WE WILL BE  
ABLE TO UTILIZE TO TALK ABOUT  
HOW SOME OF THESE TOOLS HELP US  
SHARE THE RISK.

>>

ONE OF THE THINGS I TALK ABOUT  
QUITE A BIT IN ALL OF THE TYPES  
OF WORKSHOPS THAT I RUN AND  
ESPECIALLY DIGITAL PRESERVATION  
IS THE IDEA OF POLICIES AND  
DOCUMENTATION.

DIGITAL PRESERVATION POLICIES  
CAN DEMONSTRATE COMMITMENT TO  
PROVIDING LONG-TERM ACCESS TO  
YOUR DIGITAL MATERIALS.

SO I WANT YOU TO THINK ABOUT  
THIS: WHAT COMMITMENTS HAVE YOUR  
ORGANIZATIONS MADE?

DOES YOUR MISSION STATEMENT FOR

YOUR INSTITUTION INCLUDE  
PRESERVATION OF DIGITAL  
COLLECTION?

HAVE YOU INCLUDED DIGITAL  
RESOURCES IN YOUR COLLECTION  
DEVELOPMENT POLICY?

DOES YOUR EMERGENCY PLAN, YOUR  
DISASTER PLAN, SOME OF THOSE  
THAT YOU'VE STARTED TO WORK ON  
DURING THESE CONNECTING TO  
COLLECTIONS COURSES, DOES THAT  
INCORPORATE DIGITAL COLLECTIONS?

DOES YOUR DEED OF GIFT, YOUR  
GIFT INFORMATION AND  
DOCUMENTATION INCLUDE THE RIGHTS  
TO ALLOW MODIFICATIONS AND DOES  
IT SUPPORT DIGITAL PRESERVATION?  
AND HOW LONG DO YOU INTEND TO  
MAKE YOUR DIGITAL COLLECTIONS  
AVAILABLE?

ESPECIALLY IF THERE'S A CERTAIN  
RETENTION PERIOD OR DO YOU WANT  
TO KEEP THEM AS FAR INTO THE  
FUTURE AS POSSIBLE?

THINK ABOUT THAT AS YOU ARE  
TRYING TO DETERMINE HOW LONG YOU  
NEED TO KEEP YOUR MATERIALS AND  
IS THERE ANY KIND OF LEGAL OR  
INSTITUTIONAL RULING ON WHAT  
NEEDS TO BE DONE AS FAR AS THE  
LENGTH OF YOUR RETENTION TIME.

SO WITH THAT IN MIND, I'M GOING  
TO ASK KRISTEN TO HELP US WITH  
OUR LAST POLL OF THE DAY AND  
THAT IS WHERE ARE DIGITAL  
HOLDINGS ARE INCORPORATED AS FAR  
AS SOME OF OUR MAIN POLICY  
DOCUMENTS IN OUR INSTITUTION.

SO NOW THAT WE HAVE YOU THINKING  
ABOUT POLICIES, LET'S TAKE  
ANOTHER POLL.

LET US KNOW IF YOUR DIGITAL  
HOLDINGS ARE INCORPORATED INTO  
YOUR MISSION STATEMENT, YOUR  
LONG RANGE PLAN, YOUR COLLECTION  
DEVELOPMENT PLAN, EMERGENCY OR  
DISASTER PLAN, AND EXHIBITS AS

WELL.

AND HOW MANY OF YOU HAVE A DIGITAL PRESERVATION PATROLSY, INCLUDING THE FEATURES WE'VE TALKED THROUGH DURING THIS WEBINAR SERIES.

SO LET'S LOOK AT THIS.

>>

THE COLLECTION PLAN IS DOING VERY WELL.

A NUMBER OF PEOPLE HAVE MATERIALS THERE.

YOUR DISASTER PLAN MAY BE LAGGING JUST A LITTLE BIT. EXHIBITS.

HOW MANY OF YOU ARE PUTTING TOGETHER VIRTUAL EXHIBITS? THAT'S IMPORTANT TO THINK ABOUT. DO YOU HAVE VIRTUAL AND DIGITAL EXHIBITS INCLUDED IN THERE?

SO LET'S TAKE A LOOK.

THE NUMBERS SEEM TO BE EVENING OUT FAIRLY WELL AND -- OKAY.

SO A NUMBER OF YOU MIGHT WANT TO CONSIDER PUTTING YOUR DIGITAL HOLDINGS INTO YOUR MISSION STATEMENT AS YOU GO FORWARD.

I'M PLEASED TO SEE THAT REALLY CLOSE TO A THIRD OF US HAVE -- 44% OF THE PEOPLE WHO ARE INCLUDING INFORMATION THEIR LONG-RANGE PLAN.

RIGHT NOW THE COLLECTION PLAN, THE COLLECTION DEVELOPMENT PLAN INCLUDING DIGITAL HOLDINGS IS BY FAR AND AWAY THE WINNER HERE FOR WHERE THAT IS DONE SO I'M REALLY GLAD TO SEE THAT.

OUR EMERGENCY PLAN?

LET'S THINK ABOUT BUILDING OUR DIGITAL HOLDINGS INTO OUR DISASTER PLANS IN THE FUTURE. EXHIBITS.

AGAIN, ANOTHER AREA THAT WE MIGHT WANT TO DO SOME WORK IN ORDER TO EXPAND THAT AND HAVE DIGITAL HOLDINGS CONSIDERED AS

WELL.

AND FINALLY WE HAVE A NUMBER OF PEOPLE WHO ARE INCORPORATING DIGITAL HOLDINGS INTO THEIR PRESERVATION POLICIES OR DEVELOPING DIGITAL PRESERVATION POLICIES IN GENERAL.

SO THIS IS ACTUALLY A SET OF VERY GOOD FINDINGS.

WHEN LIZ AND I STARTED TO DO MANY OF THESE SURVEYS BOTH ON SITE AND SOME WEB SURVEYS IN GENERAL WE WERE NOT SEEING THIS LEVEL OF RESPONSE THAT PEOPLE HAD DIGITAL INCLUDED IN THEIR PLANS SO I'M VERY PLEASED TO SEE THIS INFORMATION.

THANK YOU, EVERYONE, FOR THAT LEVEL OF ACTIVITY.

NOW IF WE CAN MOVE FORWARD.

LET US TAKE A MOMENT, HERE, TO SEE IF THERE ARE ANY QUESTIONS FROM THE AUDIENCE.

>>

>> HI, TOM, THIS IS DANIELLE. WE HAD ONE QUESTION AND I THINK IT'S A FAIRLY GENERAL QUESTION. SO WE HAD SOMEONE WHO ASKED ABOUT ONLINE VENDORS, BASICALLY, PEOPLE WHO ARE SELLING BACKUPS. THEY'RE NOT NECESSARILY SELLING THEM AS PRESERVATION SERVICES BUT THEY'RE SELLING THEM ON A RANGE OF LEVELS FROM PERSONAL DIGITAL BACKUP SERVICES TO INSTITUTIONAL BACKUP SERVICES. AND THE ONE THAT WAS SPECIFICALLY MENTIONED WAS CARBONITE.

CAN YOU TALK A LITTLE BIT MORE? I KNOW YOU'LL GET TO THIS LATER, BUT HOW DOES A SERVICE LIKE THAT DIFFER FROM A PRESERVATION SOLUTION?

>> WELL, ONE OF THE THINGS THAT LIZ WILL ESPECIALLY TALK ABOUT AS WE MOVE FORWARD IN OUR

DISCUSSION IS THE FACT THAT MANY OF THE PRESERVATION SOLUTIONS THAT WE'RE LOOKING AT ARE ACTUALLY MULTISITE AND MULTIINSTITUTIONAL.

SO WE ARE HAVING A NUMBER OF ORGANIZATIONS JUST LIKE US WHO ARE WORKING TO PRESERVE THE MATERIAL.

AND IN SOME CASES WITH THE MATERIALS THAT WE HAVE IN CULTURAL HERITAGE INSTITUTIONS IT'S A LITTLE BIT DIFFERENT KIND OF DIGITAL OBJECT THAN MAYBE SOMETHING WE WOULD SEE IN A BUSINESS TYPE OF SITUATION, BUSINESS SOLUTION.

WHETHER IT IS HIGH QUALITY ART WORK THAT'S BEEN DIGITIZED OR WHETHER IT IS A \$450 PAGE VOLUME WITH ALL SORTS OF MAPS AND OTHER MATERIALS AS WELL.

SO IN SOME CASES WE WOULD -- I WOULD SAY THE CAPACITY, THE RELIABILITY, AND THE IDEA THAT WE HAVE, AGAIN, MULTISITE AND MULTIGEOGRAPHIC LOCATION TYPE OF BACKUP IS A VERY IMPORTANT ASPECT OF WHAT MIGHT SEPARATE THE BACKUP FOR YOUR PERSONAL COMPUTING AND YOUR MAYBE PERSONAL BUSINESS FROM WHAT YOU WOULD SEE THERE A LIBRARY SETTING OR A CULTURAL HERITAGE SETTING.

>> THIS IS LIZ.

I THINK THAT ONE OF THE MAJOR DIFFERENCES IS IF WE LOOK BACK AT THAT DEFINITION FROM JISC ON THE DIFFERENCE BETWEEN BACKUP AND PRESERVATION.

PRESERVATION BY ITS DEFINITION IS ASSURING THE INTEGRITY OF THE BITS GOING FORWARD WHERE BACKUP RESTORES YOU TO THE LAST AVAILABLE, RELIABLE COPY OF THE FILES.

SO I'M SURE IN YOUR EARLY SESSIONS YOU WERE GIVEN DEFINITIONS OF PRESERVATION. SO WHEN YOU'RE LOOKING AT SOMETHING LIKE CARBON NIGHT OR GLACIER BRING THOSE DEFINITIONS UP AND REVIEW THEM FOR THE FUNCTIONALITY THAT THE SERVICES OFFERING.

I'LL TALK A LITTLE BIT MORE ABOUT THEM LATER, BUT THERE'S A BIG DIFFERENCE BETWEEN PRESERVATION AND BACKUP.

>> YES, THANK YOU, LIZ, AND TOM FOR YOUR ANSWERS.

I THINK WE DO WANT TO STRESS TO EVERYBODY AGAIN WE WANT YOU TO HAVE BACKUPS.

AND CLOUD OR ONLINE BACKUPS ARE A GREAT WAY TO HAVE A COPY THAT'S NOT AT YOUR INSTITUTION. BUT IT MIGHT NOT BE THE SAME AS YOUR PRESERVATION SYSTEM SOLUTION.

WE HAD ANOTHER QUESTION -- ACTUALLY, A COUPLE QUESTIONS ABOUT METADATA.

AND HOW YOU SHOULD TREAT METADATA.

SO IN THE METADATA SESSION I TALKED ABOUT EMBEDDING METADATA INTO THE DIGITAL OBJECTS SO IT CAN NEVER BE SEPARATED.

BUT SOMEONE IS WANTING TO KNOW IS FOR PRESERVATION PURPOSES SHOULD WE ATTEMPT TO SEPARATE THE METADATA AND KEEP THEM SEPARATELY SOMEHOW WITH LINKS?

>> THAT IS SOMETHING THAT -- IT IS REALLY DIFFERENT -- REALLY SOME DIFFERENT PRACTICES IN DIFFERENT CASES.

I THINK THE IDEA OF HAVING EMBEDDED METADATA OR METADATA THAT IS PACKAGED WITH THE DIGITAL OBJECT ITSELF IS THE DIRECTION THAT MOST

ORGANIZATIONS ARE LOOKING TO GO WITH THEIR DIGITAL PRESERVATION ACTIVITIES.

AND I ALSO SEE THAT WE HAVE ONE MORE QUESTION HERE.

WHEN YOU SAY "INCLUDED IN THE MISSION STATEMENT" DO YOU MEAN SPECIFICALLY STATING DIGITAL MATERIALS AS FAR AS HAVING THAT INCLUDED IN YOUR DOCUMENTATION? AND I WOULD SAY YES.

IS THERE A MENTION OF DIGITAL COLLECTIONS OR DIGITAL MATERIALS WHETHER IT IS IN YOUR MISSION STATEMENT, YOUR COLLECTIONS PLAN OR YOUR EMERGENCY PLAN?

THE IDEA THAT WE HAVE COLLECTIONS THAT ARE NOT JUST ANALOG ANYMORE BUT WE HAVE DIGITAL COLLECTIONS THAT MAY BE GROWING EVEN FASTER THAN OUR ANALOG COLLECTIONS.

SO THIS IS SOMETHING THAT A NUMBER OF ORGANIZATIONS ARE STARTING TO REVISE AND UPDATE MANY OF THEIR POLICIES TO INCLUDE.

>>

>> GREAT, WELL I THINK THAT WAS IT FOR THE QUESTIONS SO IF YOU WOULD LIKE TO MOVE ON WE'LL CONTINUE MONITORING THE QUESTIONS AND IF YOU ASK THEM WE'LL GO AHEAD AND MOVE THEM OVER AND WE CAN GET TO THEM IN THE NEXT BREAK.

>> GREAT.

ALL RIGHT.

WELL NOW WE'VE SAID UP FRONT IN THE TITLE OF OUR SESSION THAT COLLABORATION ON DIGITAL PRESERVATION IS IMPORTANT.

SO WE WANTED TO TALK ABOUT WHY YOU WOULD WANT TO COLLABORATE IN THIS AREA AND THERE ARE CERTAINLY MANY REASONS FOR THIS. AND WHAT I'M GOING TO DO IS SORT



OF GO COUNTERCLOCKWISE TO TALK ABOUT SOME OF THE IMPORTANT REASONS TO COLLABORATE FOR DIGITAL ACTIVITIES.

FIRST OF ALL, THE POOLING OF FINANCIAL AND HUMAN RESOURCES TO DEAL WITH THE ISSUES IS EXTREMELY IMPORTANT.

IT MIGHT BE THAT IF YOU WORK WITH OTHER INSTITUTIONS IN YOUR STATEMENT OR IF YOUR TIME OF ORGANIZATION ACROSS THE FIELD THAT YOU'LL BE ABLE TO HAVE MORE PEOPLE THINKING ABOUT THIS AND POTENTIALLY A LITTLE BIT MORE FUNDING TO DEAL WITH SOME OF THE SOLUTIONS IN THE SITUATION.

SHARING OF EXPERTISE AND PERSPECTIVE BETWEEN INSTITUTIONS IS ALWAYS IMPORTANT AND THIS IS FOR COLLABORATION ON ANY LEVEL WHETHER IT'S COLLABORATIVE DIGITIZATION OR DIGITAL CREATION ALL THE WAY OVER TO COLLABORATIVE DIGITAL PRESERVATION.

YOU CAN GAIN GREATER CREDIBILITY WORKING WITH OTHER EXPERT CULTURAL HERITAGE INSTITUTIONS. IN SOME CASES, WE SEE STATEWIDE DIGITAL PRESERVATION PROJECTS OR REGIONAL PRESERVATION PROJECTS WHERE YOU HAVE A SORT OF THE IDEA OF SAFETY IN NUMBERS AND GREATER CREDIBILITY IN NUMBERS WHEN YOU'RE WORKING WITH A LARGER GROUP.

YOU'RE CERTAINLY INCREASE EFFICIENCY AND FUNDING OPPORTUNITIES FROM WHAT WE SEE. FUNDERS ARE VERY INTERESTED IN BOTH COLLABORATIVE DIGITIZATION AND DIGITAL PRESERVATION PROGRAMS THAT ARE COLLABORATIVE IN NATURE.

SO THE IDEA OF A BUZZ WORD FOR FUNDERS OF COLLABORATION STILL

EXISTS AND IS VERY IMPORTANT.  
YOU CAN SHARE SKILLS AND  
NAVIGATING DEPARTMENTAL CULTURE  
AND POLICIES, THAT IS ALWAYS A  
HELP.

THE IDEA THAT SOMEONE IN ANOTHER  
INSTITUTION MAY HAVE TRIED  
SOMETHING THAT PUSHED FORWARD  
FUNDING FOR OR POLICY MAKING FOR  
DIGITAL PRESERVATION AND YOU CAN  
UTILIZE THAT TOO AS PART OF A  
COLLABORATIVE GROUP.

IT'S A SHARED RESPONSIBILITY.  
BOTH SHARING THE PAIN AND THE  
GAIN FINANCIALLY HUMAN RESOURCES  
WISE, ET CETERA.

SO TAKE A LOOK AT THAT AS ONE OF  
THE BEST BENEFITS OF  
COLLABORATION AND CERTAINLY TO  
ANSWER RESEARCH QUESTIONS FROM A  
WIDER POOL OF EXPERIENCED  
RESOURCES.

SO WE HAVE A NUMBER OF THAT WE  
WOULD MOVE FORWARD IN  
COLLABORATION IN GENERAL BUT  
ALSO SPECIFICALLY FOR DIGITAL  
PRESERVATION.

AND I WANTED TO TAKE US OUT OF  
OUR DIAGRAM A BIT AND TALK WITH  
YOU SPECIFICALLY ABOUT SOME OF  
THE AREAS OF COLLABORATION AND  
PRESERVATION HAVE BEEN MAKING  
FOR BENEFITS OF CULTURAL  
INSTITUTIONS.

SO TO MEET THE NEEDS OF OUR  
USERS, LIBRARIES AND OTHER  
CULTURAL HERITAGE ORGANIZATIONS  
HAVE BEEN COLLABORATED FOR  
DECADES SHARING HUMAN, FINANCIAL  
AND TECHNICAL RESOURCES AND  
SHARING COLLECTIONS.

DIGITAL PRESERVATION SOLUTIONS  
ARE UNDERTAKEN AT THE  
INTERNATIONAL, NATIONAL, STATE  
AND LOCAL LEVEL AND DEVELOPMENT  
OF STANDARDS UNDERTAKING  
RESEARCH, CREATION OF

COLLECTIONS AND ATTENTION TO INSTITUTIONAL MANDATES ARE SOMETHING THAT OCCUR ON ALL LEVELS AS WELL.

TO REALIZE THE LEVEL OF ASSISTING ABILITY WE NEED AND THE SECURITY WE NEED FOR OUR DIGITAL COLLECTIONS, GEOGRAPHIC DISTRIBUTION IS KEY.

GEOGRAPHICALLY DISTRIBUTED DIGITAL PRESERVATION IS ONE OF THE TOPICS THAT LIZ WILL DISCUSS AT LENGTH IN HER PART OF THE SESSION.

AND A COLLABORATIVE APPROACH TO DIGITAL PRESERVATION ALLOWS US TO SHARE AND REDUCE THE OVERALL RISK.

WE CAN MANAGE OUR OWN INSTITUTIONAL RISKS BY SHARING THE COSTS, SHARING TECHNOLOGY INFRASTRUCTURE AND EXPERTISE AND WE CAN REDUCE THE RISK THROUGH DISTRIBUTION OF COLLECTIONS TO BE PRESERVED AND THAT IDEA OF DISTRIBUTED COLLECTIONS IS, AGAIN, SOMETHING THAT IS IMPORTANT IN OUR DIGITAL PRESERVATION SYSTEMS AND MAY TAKE US A STEP BEYOND THE BACKUP SYSTEMS THAT HAVE BEEN MENTIONED BEFORE.

VERY FEW ORGANIZATIONS ARE OF THE SIZE AND THE SCALE THAT THEY CAN OR NEED TO BUILD THEIR OWN DIGITAL PRESERVATION SYSTEM. SO EXPANDING OUR CAPACITY AND ACTUALLY NOT HAVING TO HAVE A HUGE BUDGET BUT BEING ABLE TO WORK WITH OTHERS COLLABORATIVELY IS IMPORTANT AS WELL.

THERE'S CERTAINLY TWO CORE PRINCIPLES IN THE SURVIVABILITY AND PRESERVATION OF DIGITAL COLLECTIONS.

THE FIRST IS THE MORE COPIES THE BETTER AND THE SECOND IS THE

MORE LOCATION IT IS BETTER.  
SO THAT IDEA OF GEOGRAPHIC  
MULTICOPY DISTRIBUTION FOR  
DIGITAL PRESERVATION IS VERY  
IMPORTANT.  
AND THE MORE HETEROGENEOUS THE  
BETTER AS WELL.  
LIZ WILL TALK ABOUT ALL OF THOSE  
AREAS AS WE GOES FORWARD IN HER  
DISCUSSION.  
SO I'D LIKE TO TURN THINGS OVER  
TO LIZ TO TALK ABOUT OUR NEXT  
SECTION OF THE WORKSHOP.  
>> TOM, I THINK WE HAVE ANOTHER  
POLL.  
>> UH-HUH.  
OKAY.  
LET'S SEE HERE.  
KRISTEN, WOULD YOU LIKE TO MOVE  
THAT IN?  
>>  
WE HAVE ANOTHER POLL.  
DO YOU PARTICIPATE IN  
COLLABORATIVE DIGITAL INITIATIVE  
EITHER REGIONAL, STATEWIDE OR  
NATIONAL?  
AND WE HAVE YES, NO, DON'T KNOW  
AND NOT APPLICABLE.  
SO WE'D LIKE TO SEE IF THIS IS  
SOMETHING FOLKS ARE  
PARTICIPATING IN AND WE HAVE A  
COUPLE OF SAMPLES OF WHAT PEOPLE  
ARE PARTICIPATING IN.  
IT COULD BE SOLUTIONS LIKE  
PORTICO, LOCKS OR THE HOCKEY  
TRUST AND SO IF THERE ARE A  
NUMBER OF PEOPLE WHO ARE SAYING  
YES THEY DO PARTICIPATE IN A  
COLLABORATIVE DIGITAL INITIATIVE  
WE CAN GO FORWARD AND TAKE A  
LOOK AT THAT.  
WE HAVE ABOUT 105 PEOPLE WHO ARE  
SAYING YES AND ABOUT 127 TO 130  
WHO SAY NO.  
AND JUST A COUPLE OF PEOPLE  
REPORTING IN THAT PORTICO HAS  
ABOUT FOUR YEARSERS AMONG OUR

GROUPS WE'LL HEAR ABOUT THAT IN LIZ'S SESSION.

SO THOSE ARE SOME OF THE ACTIVE THESE ARE BEING USED BY A NUMBER OF FOLKS.

AND FINALLY WE TALK A LITTLE BIT THE NATIONAL DIGITAL STEWARDSHIP ALLIANCE.

ARE YOU A MEMBER OF THE NATIONAL DIGITAL STEWARDSHIP ALLIANCE?

AND SO FAR I THINK WE NEED TO-- AND LIZ MAYBE THIS IS SOMETHING WE CAN TALK ABOUT WHEN WE DO OUR WRAPUP AT THE END, TALK A LITTLE BIT ABOUT THE NATIONAL DIGITAL STEWARDSHIP ALLIANCE AND HOW IT IS AN ORGANIZATION THAT HELPS YOU REALLY KEEP ABREAST OF A LOT OF THE DEVELOPMENTS IN DIGITAL PRESERVATION.

SO THAT IS AN AREA WHERE PEOPLE MIGHT WANT TO GO TAKE A LOOK AT THE SITE AND PUBLICATIONS.

SO WITH THOSE ACTIVITIES IN MIND WE HAVE A COUPLE MORE THINGS TO HELP US FIGURE OUT MORE ABOUT WHERE OUR USERS ARE AND WHERE YOU ARE IN YOUR DIGITAL PRESERVATION PLANNING.

SO I APPRECIATE THAT INFORMATION FROM THOSE POLLS AS WELL.

AND LIZ WHY DON'T WE GO AHEAD WITH YOUR PART OF THE SESSION.

>>

>> CAN YOU HEAR ME?

>> YES.

OKAY, GOOD.

WELL, GOOD MORNING AGAIN.

DURING THIS SECTION OR THIS UNIT OF THE WEBINAR WE'RE GOING TO BE LOOKING AT THE SPECIFIC SERVICES AND SOFTWARE, PARTICULARLY THOSE THAT SUPPORT COLLABORATIVE DIGITAL PRESERVATION PROGRAMS.

AS TOM SAID, WE'RE LOOKING AT THE COLLABORATIVE PROGRAMS

MOSTLY BECAUSE THIS IS NOT AN

ACTIVITY THAT IS FOR THE FAINT  
OF HEART.

WE DO THIS MUCH MORE EFFECTIVELY  
TO MEET OUR GOALS, OUR POLICIES,  
OUR PLANS WHEN WE WORK TOGETHER.  
UNLIKE A DECADE AGO TODAY WE  
HAVE A WIDE RANGE OF DIGITAL  
PRESERVATION SERVICES AND  
SOLUTIONS THERE ARE DIFFERENT  
WAYS TO THINK ABOUT THESE  
SERVICES AND THE CATEGORY THEY  
FIT IN.

SO YOU CAN SEE THE METAARCHIVES  
DURA SPACES, DURA CLOUD.  
ARCHIVEMATICA ARE JUST A FEW OF  
THESE.

YOU CAN LOOK AT THEM BY THE  
TECHNOLOGY THAT THEY USE.

SO A SERVICES SUCH AS LOCS, THE  
COOPERATIVE IN CANADA, THE MEHTA  
ARCHIVE.

PETAL WHICH IS IS A PROGRAM OUT  
OF SEVERAL STATE ARCHIVES, THEY  
ALL USE A GEOGRAPHICALLY  
DISTRIBUTED APPROACH TO DIGITAL  
PRESERVATION BASED ON THE LOCKSS  
SOFTWARE.

YOU CAN LOOK AT THEM BY  
PHILOSOPHY.

THE FLORIDA CENTER FOR LIBRARY  
AUTOMATION DATES, LOCKSS, THEY  
ALL HAVE EMBEDDED INFRASTRUCTURE  
AND KNOWLEDGE IN LIBRARIES AND  
OTHER CULTURAL HERITAGE  
ORGANIZATIONS WHERE OTHER  
SERVICES MAY BE OFFERED BY  
EXTERNAL THIRD PARTIES SUCH AS  
TESTIMONY OCLC DIGITAL ARCHIVE  
AND PORTICO.

YOU CAN ALSO LOOK AT THEM BY  
METHODOLOGY: SOME OF THESE  
ARE CENTRALIZED BOX-BASED  
SOLUTIONS, SOME ARE CENTRALIZED  
AND OFF SITE SUCH AS CCLC AND  
PORTICO.

AND SOME ARE DISTRIBUTED AND ON  
SITE WHERE THE LOCAL

INSTITUTIONS RUN A LOCKSS BOX.  
SOME OF THESE PROGRAMS OFFER  
OPEN ACCESS.

IN OTHER WORDS THEY ARE THE  
MEANS NOT ONLY FOR PRESERVATION  
OF THE DIGITAL COLLECTIONS BUT  
ALSO END-USER ACCESS.

AND HATHI TRUST IS ONE THAT  
COMES TO MIND.

AND SOME CAN BE A MIX OF OPEN  
AND CLOSED SUCH AS LOCKSS AND  
COPPUL.

AND FINALLY WE HAVE  
SUBSCRIPTION-BASED SERVICES SUCH  
AS THE OCLC DIGITAL ARCHIVE AND  
PORTICO.

SOME PRESERVE WHATEVER FORMAT  
YOU GIVE THEM SUCH AS THE  
METAARCHIVE AND SOME OF THEM  
WORK BETTER FOR ONE FORMAT THAN  
THE OTHER SUCH AS THE HATHI  
TRUST.

OTHER SERVICES MAYOR MALLIZE THE  
CONTENT AS IT COMES IN THROUGH  
THE INGEST PROCESS WHILE OTHERS  
REQUIRE YOU TO DO THE  
NORMALIZATION IN ADVANCE.

OTHERS HAVE SOFTWARE THAT  
MIGRATE CONTENT AS FILE FORMATS  
BECOME OBSOLETE WHILE OTHER  
PROGRAMS REQUIRE AN EXTERNAL  
REVIEW AND PLAN FOR MIGRATION.

SO YOU CAN SEE THEY THERE'S  
ALREADY A WIDE RANGE OF OPTIONS  
AND UNDERSTANDING MA WHAT YOUR  
INSTITUTION'S GOALS ARE AND  
UNDERSTANDING THE FILE FORMATS  
THAT YOU HAVE, WHETHER IT'S  
REFORMATTED CONTENT OR BORN  
DIGITAL WILL ALL HELP YOU MAKE A  
DECISION ON HOW TO MOVE FORWARD.

AS TOM SAID EARLIER NOT ALL  
OPTIONS ARE EQUAL AND WE DON'T  
HAVE A SILVER BULLET SOLUTION.  
IN OTHER WORDS, YOU GO OUT, YOU  
LOOKED WITH THE VENDOR, YOU LOOK  
AT OPEN SOURCE SOFTWARE AND YOU

SAY THIS IS THE PERFECT SOLUTION FOR US, IT WILL HANDLE ALL OF OUR NEEDS.

IN REALITY, THERE'S NONE OF THESE SERVICES THAT HANDLE ALL FORMATS OF MATERIAL WITH EQUAL LEVEL OF RELIABILITY, FLEXIBILITY VERACITY, ETC.

WE HAD HOPE WHEN WE BEGAN THINKING ABOUT DIGITAL PRESERVATION IN THE MID-1990s THAT A SINGLE SOLUTION WOULD BE AVAILABLE.

IN REALITY THERE'S A WIDE ARRAY OF SERVICES AND SOLUTIONS AND AN UNDERSTANDING THAT SOME OPTIONS ARE NOT APPROPRIATE TO ALL FORMAT THAT MEANS THAT WE NEED TO HAVE A PLAN THAT WILL DETAIL THE STRATEGY FOR DIFFERENT FORMATS, WHETHER IT'S BORN DIGITAL OR REFORMATTED, WHETHER IT'S IMAGES, AUDIO, VIDEO DATA SETS.

FLEXIBILITY IS KEY TO ASSURING THE LONG-TERM ACCESS TO DIGITAL COLLECTIONS SO YOU NEED TO BUILD IN THAT FLEXIBILITY FROM THE VERY START.

OUR COLLEAGUE AND FRIEND CATHERINE SKINNER, WHO'S THE EXECUTIVE DIRECTOR OF TEDUCOPIA INSTITUTE.

AND EDUCOPIA INSTITUTION IS THE ORGANIZATION THAT MANAGES THE METAARCHIVE HAS LONG SAID THAT THE PERFECT IS THE ENEMY OF THE GOOD.

AND BECAUSE OF THE FRAGILE NATURE OF OUR DIGITAL COLLECTIONS WE REALLY NEED TO MOVE FORWARD, WE CANNOT WAIT, WE NEED TO BRING THESE COLLECTIONS UNDER PRESERVATION MANAGEMENT EVEN IF IT'S NOT THE PERFECT SOLUTION.

SO WE'VE CREATED SEVERAL



CATEGORIES OF WHO HAVE DOES WHAT  
AND THIS IS A QUICK OVERVIEW OF  
WHICH OF THE SERVICES AND  
SOFTWARE ARE PRESERVATION  
SERVICES AND WHICH WILL DIGITAL  
OR INSTITUTIONAL REPOSITORY  
CONTENT MANAGEMENT SOFTWARE.  
BACK IN THE -- PROBABLY THE  
MID-'90s CLIFF LYNCH HAD DONE A  
BENCHMARK PAPER THAT TALKED  
ABOUT INSTITUTIONAL REPOSITORIES  
WITH THE PROMISE THAT  
DEVELOPMENT OF THESE  
REPOSITORIES WOULD ASSURE THE  
LONG-TERM ACCESS AND  
PRESERVATION OF THESE MATERIALS.  
IN REALITY AS WE'VE MOVED INTO  
2010, 2013 WE'VE REALIZED AGAIN  
THAT ONE SET OF REPOSITORY  
SOFTWARE CANNOT DO EVERYTHING.  
SO IF YOU'RE IN THE RIGHT HAND  
COLUMN WE LIST D SPACE FOR DORA,  
CONTENT DM AS JUST AN EXAMPLE  
OF DIGITAL CONTENT SOFTWARE.  
THEY DO NOT HAVE PRESERVATION --  
INTEGRATED PRESERVATION SERVICES  
ALL IN ONE PACKAGE.  
YOU REALLY NEED TO LOOK TO THE  
LIST THAT'S ON THE LEFT-HAND  
SIDE OF THE PRESERVATION  
SERVICES.  
SOME OF THESE HAVE COME OUT OF  
THE ARCHIVAL COMMUNITY SUCH AS  
ARCHIVEMATICA AND PRESERVEICA.  
OTHERS HAVE COME OUT OF THE  
RESEARCH COMMUNITY SUCH AS  
CHRONOPOLIS AND OTHERS HAVE COME  
OUT OF THE LIBRARY COMMUNITY.  
SEVERAL OF THESE SUCH AS THE  
OCLC DIGITAL ARCHIVE IT  
INTEGRATES WITH CONTENT DM.  
DURA CLOUD -- FROM DURA SPACE  
INTEGRATES WITH CONTENT DM,  
D-SPACE AND FEDORA AND YOU CAN  
INTEGRATE CONTENT DM AND SOME OF  
THESE OTHER REPOSITORIES SUCH AS  
FEDORA WITH A LOCKSS PRIVATE

NETWORK.

SO WE SEE THAT THE NAME OF THE GAME IS INTEGRATION RATHER THAN A SINGLE SOLUTION.

AS YOU MOVE FORWARD WITH MANAGING YOUR COLLECTIONS THERE ARE A VARIETY OF SERVICES THAT ARE AVAILABLE.

AND THIS IS THE SUMMARY SLIDE, SO I'LL GO INTO MORE DETAIL IN OTHER SLIDES.

OFTEN THESE ARE COMBINED OR INTEGRATED BY THIS SAME SERVICE PROVIDER.

IN OTHER WORDS, DATA PREPARATION MAY BE INTEGRATED IN WITH THE PRESERVATION SERVICES.

IT IS REALLY CRITICAL FOR YOU TO UNDERSTAND WHAT DATA PREPARATION YOU WILL NEED TO DO AND WHAT DATA PREPARATION CAN BE DONE BY YOUR VENDOR OR BY YOUR THIRD PARTY PROVIDER.

THE DATA WILL NEED TO BE PREPARED FOR INGEST AND THAT CAN INCLUDE MOVING DIGITAL FILES TO A SUPPORTS HARVESTING OR INGESTING.

MANY ORGANIZATIONS ARE STORING FILES ON OFFLINE MEDIA SUCH AS C.D.s OR EXTERNAL HARD DRIVES. SO YOU'RE GOING TO HAVE TO MOVE YOUR CONTENT TO A SERVER BEFORE IT'S INGESTED INTO THE PRESERVATION REPOSITORY YOU MAY ALSO NEED TO DONOR MALLIZATION OF YOUR METADATA.

STRUCTURE FOR DATES FREQUENTLY IS A PROBLEM THAT NEEDS TO BE ADDRESSED.

CONSISTENCY AND FOLLOWING THE PROTOCOL OF THE PRESERVATION REPOSITORY.

THERE ARE SOME ADDITIONAL DATA PREPARATIONS SERVICE THAT WILL BE PUT INTO PLACE ON THE INGEST PHASE.

MANY OF THE OPEN SOURCE SOFTWARE AND COMMERCIAL SERVICES HAVE INTEGRATED TOOLS SUCH AS JOB AND DROID THAT WILL HELP YOU MANAGE THE DATA JOVE, AS MANY OF YOU KNOW IS THE J STORE AND HARVARD LIBRARY UNIVERSITY PROJECT TO DEVELOP AN EXTENSEABLE FRAMEWORK FOR OBJECT VALIDATION.

IT -- THIS APPLICATION WILL INDICATE AND VALIDATE THE FORMAT TYPE AS IT IS IMPORTANT FOR ALL DIGITAL REPOSITORIES TO HAVE THIS BASIC LEVEL OF INFORMATION. IT WILL ALSO MANAGE THE IDENTIFICATION, VALID DAY, AND CHARACTERISTICS OF THE DIGITAL OBJECTS.

SUCH ACTIONS ARE FORMED BY MODULES.

IT'S AN AUTOMATED PROCESS. FOR VARIOUS TYPES -- FORMAT TYPES.

AND THE OUTPUT FROM THE PROCESS IS CONTROLLED BY OUTPUT HANDLERS USING A PLUG IN ARCHITECTURE.

JH.O.V. IS FORMAT SPECIFIC DIGITAL OBJECT VALIDATION APPLICATION WRITTEN IN JAVA. AND IT CAN BE DOWNLOADED FOR LOCAL IMPLEMENTATION IF NEEDED.

DROID-- WHICH STANDS FOR THE DIGITAL RECORD OBJECT IDENTIFICATION-- IS AN AUTOMATED FILE FORMAT IDENTIFICATION TOOL THAT WAS DEVELOPED BY THE NATIONAL ARCHIVES OF THE U.K.

AND IT'S USED IN CONJUNCTION WITH PRONOM, AN ONLINE REGISTRY OF TECHNICAL INFORMATION.

THE TECHNICAL INFORMATION ABOUT THE STRUCTURE OF THE FILE FORMEATS AND THE SOFTWARE AND HARDWARE REQUIREMENTS TO SUPPORT THEM IS INCLUDED IN PRONOM.

SO IT'S A MATTER OF USING BOTH DROID AND PRONOM AND YOU SHOULD

BE TALKING WITH ANY VENDOR OR INVESTIGATING THE TOOLS THAT ARE USED FOR OPEN SOURCE SOFTWARE SO YOU'RE SURE TO DO THESE SET OF ACTIVITIES ON INGEST.

AS I INDICATED EARLIER, WE WILL BE LOOKING AT DIFFERENT SERVICES AND SOLUTIONS FROM DIFFERENT ANGLES BUT THERE ARE THREE BASIC APPROACHES.

LOCALLY MANAGED, CENTRALIZED HOSTED SOLUTIONS OR THIRD PARTY SOLUTIONS AND THEN DISTRIBUTED SERVICES.

>>

LOCALLY MANAGED SUBPOENA A SOLUTION THAT WOULD BE INSTALLED IN YOUR LOCAL ENVIRONMENT, YOUR LOCAL I.T. WOULD MANAGE AND ADMINISTER THE SOFTWARE.

THERE ARE BOTH OPEN SOURCE LOCALLY MANAGED SOLUTIONS AS WELL AS COMMERCIAL AND SOME OF THE COMMERCIAL INCLUDES TESSELLA'S XRB AND EX LIBRIS' ROSETTA.

VERY FEW PEOPLE TODAY ARE DEVELOPING THEIR OWN PRESERVATION SOLUTION, BUT IF YOU DID, THEN IT WOULD BE A LOCALLY MANAGED SOLUTION.

>>

CENTRALIZED/HOSTED SOLUTIONS OR THIRD-PARTY SOLUTION ARE SERVICES THAT ARE HOUSED IN ONE MAIN LOCATION BUT CAN BE USED BY MULTIPLE PARTNERS, CLIENTS, OR MEMBERS.

FREQUENTLY THESE ARE SUBSCRIPTION SERVICES SUCH AS -- WITH AN ANNUAL SUBSCRIPTION FEE THAT BASED ON THE VOLUME OF DATA THAT YOU WILL BE STORING.

IN A FEW CASE THERE IS'S ALSO A MEMBERSHIP SHEET.

SO THE OCLC DIGITAL ARCHIVES, PORTICO, TESSELLA'S PRESERVICA,

DURA SPACE'S DURA CLOUD AND THE HATHI TRUST ARE ALL EXAMPLES OF CENTRALIZED POSTED SOLUTIONS. AND THEN THERE'S DISTRIBUTED SOLUTIONS.

AND THIS IS THE ONE THAT WE'RE REALLY GOING TO LOOK AT FURTHER. IS UNDER DISTRIBUTED SOLUTIONS YOU CAN BE LOOKING AT JUST A BACKUP SERVICE.

AS WE SAID EARLIER, BACKUP IS NOT PRESERVATION, HOWEVER, A QUALITY, THOUGH ROE BACKUP PLAN NEEDS TO BE IN PLACE BY ALL ORGANIZATIONS THAT WISH TO ASSURE LONG-TERM ACCESS TO THEIR DIGITAL COLLECTIONS.

AS I MENTIONED EARLIER, TOM AND I DO A LOT OF DIGITAL PRESERVATION READINESS ASSESS AND FREQUENTLY WHEN WE'RE ON SITE TALKING WITH LIBRARIES AND ARCHIVES THEY REPORT THAT THEY ARE DOING MULTIPLE BACKUPS. HOWEVER, THE MULTIPLE BACKUPS ARE ALL LOCATED IN THE SAME GEOGRAPHIC AREA.

FREQUENT LIVE IN TWO DIFFERENT BUILDINGS ON CAMPUS OR IF IT'S A PUBLIC LIBRARY OR A MUSEUM THERE'S ONE BACKUP COPY IN THE MUSEUM AND ANOTHER ONE, LET ICE SAY, AS -- AT THE POLICE DEPARTMENT.

>>

TODAY WHEN WE LOOK AT BACKUPS, NOT ONLY SHOULD THEY BE DONE REGULARLY-- PREFERABLY INCREMENTAL BACKUPS AND FULL BACKUPS-- ARE DONE ON A WEEKLY BASIS, BUT WE'RE ALSO LOOKING AT STORING AT MULTIPLE GEOGRAPHICALLY DISTRIBUTED LOCATIONS.

TODAY'S CLOUD SERVICE OFFERS US THE ABILITY TO REALIZE THAT GEOGRAPHIC DISTRIBUTION.

GOOD PRACTICE IS THAT THERE BE AT LEAST TWO COPIES IN -- THREE COPIES IN TWO DIFFERENT MEDIA. THAT ALLOWS US WHEN WE HAVE THE THREE COPIES IF THERE IS NOT AGREEMENT BETWEEN TWO OF THE COPIES WE CAN LOOK TO THAT THIRD COPY AS A TIEBREAKER.

-ORGANIZATIONS WILL NOT HAVE EXACTLY THE SAME DATA IN ALL OF THEIR BACKUPS.

SO, FOR EXAMPLE, THEY HAVE ONE BACKUP IN THE LIBRARY AND THEN TWO DAYS OR THREE DAYS LATER THEY SHIP THAT COPY TO ANOTHER LOCATION ON CAMPUS BUT IT IS NOT THE SAME DATA AS THE ONE THAT'S IN THE LIBRARY.

AND THEN THEY MAY PARTICIPATE IN A THIRD PARTY OFF SITE STORAGE SUCH AS IRON MOUNTAIN AND THAT CAN BE FURTHER DIFFERENT.

THAT'S NOT THE PRACTICE WE WANT TO SEE.

WE WANT TO SEE THE ESTABLISHMENT OF THE SAME COPIES IN THREE DIFFERENT LOCATIONS.

THE BULLET POINT SAYS KEEPING THESE BACKUPS SYNCD IS OF UTMOST IMPORTANT.

AS WE LOOKED AT PROVIDERS, GLACIER AND DURA CLOUD DO PROVIDE BACKUP, ACTUALLY, DURA CLOUD AS THE OPTION OF ONE, TWO, OR THREE CLOUD-BASED SERVICES. CARBON NIGHT IS ANOTHER ONE OF THESE BACKUPS, CLOUD-BASED BACKUP SERVICES AGAIN.

THEY DON'T GUARANTEE LONG-TERM VIABILITY OF THE CONTENT, THEY'RE MERELY BACKUP.

THERE WERE SEVERAL TYPES OF PRESERVATION SERVICES.

THERE WAS A PROJECT THAT -- LET ME BACK UP.

ONE OF THE HALLMARKS OF OAI AND TRUSTED DIGITAL REPOSITORIES IS

THAT YOU WOULD BE ABLE TO  
REPLICATE YOUR PRESERVATION  
SERVICE ON OTHER SOFTWARE.  
SO PRESERVATION SERVICE  
SOFTWARE.

SO THAT YOU WOULD BE ABLE TO  
MIGRATE YOUR CONTENT FROM ONE  
SYSTEM TO THE OTHER.

TO TEST THIS, THE FLORIDA CENTER  
FOR LIBRARY AUTOMATION, CORNELL  
UNIVERSITY INYU RECEIVED AN IMLS  
GRANT IN THE EARLY TO MID-2000s.  
RATHER THAN JUST USING ONE  
STORAGE MECHANISM, THEY PLACED  
THEIR ARCHIVAL INFORMATION  
PACKAGES OR THEIR APES IN  
MULTIPLE PRESERVATION  
REPOSITORIES.

AS A RESULT OF THIS PROJECT,  
WHICH THEY CALLED TIPPER, THEY  
FOUND THAT KEEPING THE COPIES  
SYNCHRONIZED WAS A MAJOR  
CHALLENGE.

AND WE HAVEN'T SEEN A GREAT DEAL  
OF THIS HETEROGENEOUS STORAGE OF  
THE APES MOVE FORWARD.

HOWEVER IT IS SOMETHING THAT'S  
REALLY CRITICAL TO THE LONG-TERM  
ENVIRONMENT OF PROGRAMS.

THEN THERE'S THE DISTRIBUTED  
APPROACH OVERALL.

THIS IS INITIALLY DEVELOPED OUT  
OF STANFORD UNIVERSITY, THE  
CONCEPT OF DISTRIBUTED  
APPROACHES CAME THROUGH  
STANFORD.

AND LOTS OF COPIES KEEP STUFF  
SAFE INITIATIVE.

LOCKSS INITIATIVE.

AND THIS IS AN APPLICATION WHERE  
THERE ARE MULTIPLE COPIES  
REDUNDANT, PERFECTLY MIRRORED  
COPIES THAT ARE UPDATED AND  
COMPARED ON A REGULAR BASIS TO  
ENSURE THAT THERE'S NO FILE DEG  
RID DECONTAMINATION.

THE LOCKSS BOX WHICH WAS

DEVELOPED INITIALLY OUT OF  
STANFORD USES THE INTERNET  
INFRASTRUCTURE TO DO THIS  
VERIFICATION ON AN ONGOING BASIS  
IN AROUND 2003 A FUNDED PROJECT  
WAS UNDERTAKEN BY THE FOLKS AT  
EMORY UNIVERSITY AND IT BECAME  
THE METAARCHIVE WHERE THEY  
TESTED THE USE OF LOCKSS IN  
CREATING PRIVATE LOCKSS NETWORK.  
IN THIS CASE A MINIMUM OF SIX TO  
SEVEN REDUNDANT COPIES ARE USED  
TO ASSURE THE RELIABILITY OF THE  
PRESERVATION OF THE CONTENT  
ANOTHER DISTRIBUTED APPROACH WAS  
UNDERTAKEN BY THE FOLKS AT SAN  
DIEGO STATE UNIVERSITY IN THE  
CHRONOPOLIS PROJECT AND HOW THIS  
DIFFERS FROM LOCKSS IS THAT  
CHRONOLOPIS LOOKED AT VERY LARGE  
DATA SETS AND AND THEY WORKED  
WITH THE CENTER COMPUTING  
CENTER, THE UNIVERSITY OF  
CALIFORNIA SAN DIEGO, THE  
UNIVERSITY OF MARYLAND AND THE  
DATA CENTER AT THE NATIONAL  
CENTER FOR ATMOSPHERIC RESEARCH  
IN BOLDER.

TWO VERY SIMILAR TYPES OF  
STRATEGIES THAT HAVE BEEN  
IMPLEMENTED A BIT DIFFERENTLY.

>>

SO WE SEE THAT TODAY WE HAVE  
MULTIPLE SOLUTIONS AVAILABLE TO  
US.

SOME OF THEM ARE COMMERCIAL,  
SOME OF THEM ARE NOT FOR PROFIT.  
SOME OF THEM ARE OPEN SOURCE.

WE NEED TO LOOK AT WHAT THE  
SPECIFIC FORMATS AND MATERIALS  
ARE THAT MAY REQUIRE ONE OR MORE  
OF THESE DIFFERENT SOLUTIONS.

HOW ARE YOU GOING TO MANAGE BORN  
DIGITAL MATERIALS VERSUS  
REFORMATTED OR DIGITIZED  
MATERIALS?

DO YOU NEED THE SAME LEVEL OF



RELIABILITY FOR THOSE DIGITIZED PHOTOGRAPHS THAT YOU MAY NEED FOR A BORN DIGITAL THESIS OR NEWBORN DIGITAL ONLY AUDIO OR VIDEO.

YOU NEED TO LOOK ABOUT WHETHER THERE WILL BE OPEN ACCESS OR WHETHER THERE WILL BE RESTRICTED ACCESS.

IN OTHER WORDS, IS THERE A DARK ARCHIVE OR IS THIS A LIGHT ARCHIVE?

YOU NEED TO SEE HOW UNIQUE THESE MATERIALS ARE.

ARE YOU THE ONLY OWNING ORGANIZATION AS MIGHT BE THE CASE IN AUDIO OR VIDEO OR IMAGES OR ARE THEY COMMONLY HELD ITEMS SUCH AS E-JOURNALS, E-BOOKS DATA SETS.

SO IT'S REALLY CRITICAL FOR YOU TO THINK ABOUT THE MATERIALS, THE DIFFERENCES, THE REQUIREMENTS, THE USES OF THESE DIFFERENT MATERIALS OVER THE LONG TERM IN PICKING YOUR SOLUTION.

AT THIS POINT I THINK WE HAVE A NUMBER OF QUESTIONS SO LET'S PAUSE.

DANIELLE?

>> YES, LIZ, QUESTIONS HAVE KIND OF BEEN PORING IN.

SO I'M GOING TO JUST BASICALLY SUGGEST THAT -- BECAUSE WE ONLY HAVE 15 MINUTES LEFT.

WE'RE GOING TO DO THE SAME THING WITH A LOT OF YOUR QUESTIONS THAT WE'VE DONE WITH OTHER QUESTIONS IN THIS SERIES WHICH IS TO SAY WE WILL GO BACK AND WE WILL PUT UP A DOCUMENT WITH THE QUESTION AND ANSWERS AFTER WE'VE HAD A CHANCE TO REVIEW THEM AND LOOK AT SOME OF THE INFORMATION WE MIGHT NEED TO ANSWER THEM FULLY.

WE CAN'T ALWAYS ANSWER  
INFORMATION ABOUT SPECIFIC  
SYSTEMS THAT YOU ARE INTERESTED  
IN BUT WE WILL DO AS MUCH AS WE  
CAN IN THAT DOCUMENT.

DOES THAT SOUND OKAY, LIZ?

>> YEAH.

AND I KNOW THAT WE'RE RUNNING  
OUT OF TIME AND I DO WANT TO  
MAKE SURE THAT I COVER SOME OF  
THESE SOLUTIONS AND THEN GIVE  
TOM TIME TO GET TO THE WHAT YOU  
SHOULD DO NEXT.

>> SO I WANT TO BASICALLY TAKE  
ONE QUESTION RIGHT NOW AND THIS  
WAS -- SO AS YOU'RE LOOKING AT A  
SERVICE-- AND IT CAN BE  
ANYTHING-- WHAT ARE SOME OF THE  
QUESTION QUESTIONS YOU SHOULD BE  
ASKING YOURSELF AND ASKING THE  
VENDOR OR THE INSTITUTION IF  
YOU'RE PARTNERING WITH ANOTHER  
INSTITUTION.

WHAT ARE THE KEY THINGS YOU NEED  
TO FOCUS ON AS YOU'RE DOING WHAT  
WOULD BE CALLED IN BUSINESS DUE  
DILIGENCE.

>> SURE.

SURE.

SO WE ACTUALLY IS A SLIDE ON  
THAT CALLED CENTRAL QUESTIONS TO  
ASK OF ANY MODEL OR SERVICE  
CERTAINLY YOU WANT TO KNOW IF  
THE REPOSITORY IS OPEN.

IS IT A LIGHT ARCHIVE OR IS IT A  
CLOSED OR DARK ARCHIVE?

YOU NEED TO UNDERSTAND WHETHER  
YOU'RE GOING TO BE USING THIS  
FOR ACCESS, FOR END USERS OR  
ONLY FOR PRESERVATION.

SO THAT'S THE FIRST THING YOU  
NEED TO KNOW.

THAT QUESTION WILL THEN -- THAT  
ANSWER TO THAT QUESTION WILL  
THEN LEAD YOU DOWN A PATH.

SO, FOR EXAMPLE, WE KNOW THAT  
THERE ARE SIGNIFICANT COSTS

ASSOCIATED WITH DOWNLOADING  
CONTENT FROM A CLOUD SERVICE.  
SO AN OPEN ACCESS OR ONE THAT IS  
AVAILABLE TO END USERS AND HAS  
HEAVY USE WE PROBABLY DON'T WANT  
TO USE A CLOUD-BASED SERVICE  
BECAUSE OF THE FEES.

YOU'RE GOING TO WANT TO  
UNDERSTAND WHAT THE  
FUNCTIONALITY OF THE SERVICE IS.  
YOU'RE GOING TO WANT TO KNOW  
WHETHER THEY ARE OAIF COMPLIANT.  
AND WHAT ASPECTS OF OAIF DO THEY  
FOLLOW.

YOU'RE GOING TO WANT TO KNOW  
WHETHER THEY HAVE A PRESERVATION  
PLAN.

AS WE GET TO MORE SPECIFICS, IT  
IS BIT LEVEL?

ARE THEIR STRATEGIES FOR  
PRESERVATIONS BIT LEVEL?

ALMOST ALL OF THE SERVICES TODAY  
OFFER -- DO OFFER THE BIT LEVEL.  
OTHERS OF THEM TEND TO WAFFLE A  
BIT WHEN WE TALK ABOUT THE  
ABILITY TO MIGRATE FORMATS AND  
WHAT THEY ACTUALLY -- THE  
SOFTWARE THEY HAVE TO DIAGNOSE  
WHEN AN OBJECT HAS BECOME  
OBSOLETE, ETC.

AND EMULATION, WHILE IT IS ONE  
OF THE STRATEGIES, WE DON'T SEE  
IT WIDELY IMPLEMENTED WITHIN THE  
CULTURE HERITAGE COMMUNITY.

WE ALREADY TALKED ABOUT  
IDENTIFYING DATA PREP SEPARATION  
AND WHAT YOU WILL DO AND WHAT  
THE VENDOR WILL DO.

WHAT FORMATS THEY'RE SUPPORTING.  
THE DURA CLOUD SERVICE IT WAS  
DEVELOPED INITIALLY TO SUPPORT  
AUDIO AND VIDEO BECAUSE MANY OF  
OUR EXISTING SERVICES DIDN'T DO  
A VERY EFFECTIVE JOB AT THAT.  
SO YOU'RE GOING TO WANT TO LOOK  
AT THAT.

METADATA, UNDERSTAND WHAT YOU

NEED TO PROVIDE AND WHAT THE SERVICE WILL AUTOMATICALLY CREATE.

WHAT YOUR ORGANIZATION'S ROLE WILL BE.

IF YOU ARE PURCHASING A SERVICE THAN THAT'S ONE THING.

IF YOU ARE JOINING A COLLABORATIVE SUCH AS PETALS OR THE METAARCHIVE OR THE HATHI TRUST YOU WILL NEED TO BE ACTIVELY ENGAGED.

SO WHAT TECHNICAL EXPERTISE IS REQUIRED AND WHAT WILL YOUR ROLE BE IN GOVERNANCE?

HOW YOU'RE GOING TO DISTRIBUTE -- ADDRESS THE ISSUE OF GEOGRAPHIC DISTRIBUTION IS REALLY CRITICAL.

SO FINDING OUT HOW IS OCLC DEALING WITH GEOGRAPHIC DISTRIBUTION?

IS THERE ANOTHER COPY?

AND FINALLY AND MAYBE MOST IMPORTANT WHAT IS THE EXIT STRATEGY?

WHAT HAPPENS IF YOU WANT YOUR CONTENT OUT OF THAT SERVICE BECAUSE YOU'RE GOING TO ANOTHER SERVICE OR MAYBE MORE CRITICALLY HOW WILL YOU GET YOUR CONTENT OUT AND IN WHAT FORMAT IF THAT SERVICE THAT YOU'RE USING SHUTS DOWN SO THOSE ARE SOME OF THE DECISION MAKING FACTORS.

>>

SO IT LOOKS TO ME -- WELL, I KNOW ALL OF YOU HAVE ACCESS TO THE SLIDES AND FOR THE SAKE OF TIME I THINK MAYBE YOU CAN LOOK AT THE DIFFERENT SOLUTIONS THAT ARE UP THERE AND E-MAIL US ANY QUESTIONS THAT YOU MIGHT HAVE ON THE DIFFERENT SERVICES, THE PROS AND CONS, ETC.

DOES THAT MAKE SENSE, KRISTEN AND DANIELLE?

>>

>> I THINK THAT SOUNDS LIKE A GREAT PLAN, LIZ.

>> OKAY, SO I THINK IT NOW GETS TURNED BACK OVER TO TOM.

>> OKAY AND ONE OF THE THINGS THAT LIZ WAS JUST TALKING ABOUT, THE IDEA OF MAKING SURE YOU EVALUATE A NUMBER OF DIFFERENT AREAS WITH EACH OF THE VENDORS IS EXTREMELY IMPORTANT.

THE IDEA OF IS THE SYSTEM WORKING AND HAS IT BEEN EVALUATED FOR SAFETY AND SECURITY?

IS THE THE SYSTEM FLEXIBILITY, EXTENSEABLE AND SUSTAINABLE AND HAVE THEY BUILT THAT INTO THEIR BUSINESS PLAN?

DOES IT ACCEPT THE FORMATS YOU NEED TO STORE?

ALL OF THESE AREAS ARE EXTREMELY IMPORTANT AND YOU ALSO NEED TO ASSESS THE TECHNICAL INFRASTRUCTURE OF THE DIFFERENT SERVICES AS WELL.

IS THIS SOMETHING YOU CAN WORK ON IN HOUSE OR SOMETHING FROM A THIRD-PARTY VENDOR?

ONE OF THE THINGS WE TALK ABOUT IN ALL AREAS OF DIGITIZATION AND ESPECIALLY DIGITAL PRESERVATION IS INVENTORYING YOUR TECHNICAL SKILLS AND MAKING SURE TO GET TRAINING IF YOU NEED TO IN ORDER TO UNDERSTAND SOME OF THE ASPECTS OF THE WORK THAT NEEDS TO BE DONE TO GET MATERIALS READY FOR DIGITAL PRESERVATION. SO THE FINAL IDEA HERE ON THIS SLIDE, UNDERSTAND YOUR ABILITY TO MAKE YOUR LONG-TERM COMMITMENT.

IT IS A LONG-TERM COMMITMENT?

IF YOU'RE GOING TO EITHER SAVE YOUR MATERIALS FOR TEN YEARS OR AS FAR INTO THE FUTURE AS ARE

NEEDED AND WE CAN WRAP ALL THE WAY BACK AROUND TO WHAT WE SAID AT THE BEGINNING.

THAT IT IS A COMMITMENT OF TECHNICAL RESOURCES, HUMAN RESOURCES AND FINDING RESOURCES AS WELL.

SO THIS IS A GOOD SLIDE.

WHEN YOU TAKE A LOOK AT ALL THE THINGS THAT LIZ TALKED ABOUT SO FAR AND ALL THE SERVICES THAT SHE'S PROFILED IN HER SLIDES THIS IS A NICE LITTLE SCORE CARD TO USE WHEN YOU ARE THINKING ABOUT THOSE DIFFERENT SOLUTIONS. I'M GOING TO ACTUALLY SO THAT WE CAN TAKE QUESTIONS AT THE VERY END OF THE SESSION BECAUSE I WANTED TO HAVE YOU THINK ABOUT A COUPLE MORE THINGS.

ESPECIALLY NEXT STEPS FOR COLLABORATION ON DIGITAL PRESERVATION AND SO WHAT I WOULD SAY IS THAT SO MANY OF THESE DIGITAL PRESERVATION SOLUTIONS RELY ON COLLABORATION THAT IT MIGHT BE GOOD FOR YOU TO THINK ABOUT IN YOUR DIGITAL ACTIVITIES WHAT IS HAPPENING AND WHO YOU MIGHT BE ABLE TO WORK WITH TO FACE THESE CHALLENGES.

SO IDENTIFY POTENTIAL PARTNERS IN YOUR STATE, AMONG YOUR INSTITUTION TYPES, EVER, SAY HISTORICAL SOCIETIES IN YOUR STATE OR REGION.

OR INSTITUTIONS WITH SIMILAR PEOPLE.

ESTABLISH THE LONG-TERM COMMITMENT TO DIGITAL COLLECTIONS AND THAT IS SOMETHING THAT IS, I THINK, VERY BASIC THE IDEA OF KEEPING DOCUMENTATION AND INCLUDING DIGITAL PRESERVATION IN YOUR POLICIES.

EVEN IF YOU ARE JUST STARTING TO

DIGITIZE NOW, WORKING TOWARD DIGITAL PRESERVATION AND DOING MANY OF THE THINGS THAT LIZ SUGGESTED AND I HAVE SUGGESTED IN THE DISCUSSION TODAY IS VERY IMPORTANT SO THAT YOU CAN HAVE PRESERVATION READY DIGITAL MATERIALS.

ESTABLISH A PLANNING TEAM WITHIN YOUR ORGANIZATION OR WITH PARTNERINGS TO LOOK AT DIGITAL PRESERVATION ACTIVITIES.

DETERMINE THE ROLES AND RESPONSIBILITIES.

WHO'S GOING TO DO WHAT?

AND ESPECIALLY A COLLABORATION IT'S IMPORTANT TO KNOW.

THESE FOLKS ARE REALLY GOOD AT DOING BUDGETING AND GRANT WRITING.

OTHERS ARE GREAT AT DOING TECHNICAL WORK SO MAYBE WE CAN SPLIT ROLES AND RESPONSIBILITIES UP THAT WAY.

LEADERSHIP AND GOVERNANCE.

IT IS CENTRAL OR DISTRIBUTED AS FAR AS YOUR DIGITAL PRESERVATION SOLUTION MIGHT GO?

WELL, FOR THE COMMERCIAL IT'S CERTAINLY SOMETHING WHERE YOU PROBABLY DON'T HAVE TO THINK ABOUT IT THAT MUCH BUT IF YOU ARE LOOKING AT A SHARED OR DISTRIBUTED DIGITAL PRESERVATION SERVICE AS SOME OF THOSE THAT WE'VE TALKED ABOUT SUCH AS THE METAARCHIVE YOU'LL WANT TO TAKE A LOOK AT HOW THEY WORK AS FAR AS PRICING, GOVERNANCE AND LEVEL OF ACTIVITY.

DETERMINE FUNDING STRATEGIES.

MAYBE SOME OF YOUR DIGITAL WORK AND PRESERVATION WORK CAN START WITH GRANTS BUT I WANT YOU TO LOOK AT BUILDING UP TO HAVING A DEDICATED BUDGET LINE FOR DIGITAL PRESERVATION AT SOME

PINT IN THE FUTURE.  
IT MAY BE THAT YOU START  
EXPLORING AND GETTING SOME  
PRICING INFORMATION NOW AND THEN  
YOU CAN WORK TOWARD FUNDING  
STRATEGIES THAT INCLUDE BUILDING  
A BUDGET LINE IN THE FUTURE.  
EXPLORE THE TECHNOLOGY OBJECTS.  
ANOTHER THING I'D SAY TO DO AS A  
STARTING ACTIVITY AFTER THIS SET  
OF WEBINARS IS TO LOOK AT THE  
SOLUTIONS THAT LIZ HAS NAMED AND  
SEE WHAT THE PRICING LEVELS ARE  
AND ALSO SEE IF THERE IS THE  
ABILITY TO PILOT SOME OF THESE  
SOLUTIONS THAT YOU'VE HEARD  
ABOUT AND PUT A CERTAIN SMALL  
AMOUNT OF DATA INTO THOSE  
DIFFERENT TYPES OF SOLUTIONS,  
DIFFERENT TYPES OF ARCHIVES.  
DEFINE THE DIGITAL CONTENT TO BE  
PRESERVED.  
THAT IS VERY IMPORTANT IF THE  
FACT THAT YOU WANT TO KNOW WHAT  
FORMAT NEEDS TO BE PRESERVED,  
HOW MUCH OF EACH FORMAT THERE IS  
AND WHAT DO YOU WANT THE  
MATERIALS TO DO?  
DO YOU WANT YOUR DATA SETS TO BE  
ABLE TO WORK TOGETHER IN THE  
FUTURE AND YOU WANT TO PRESERVE  
THAT DIETY 'NAM I CAN ASPECT OF  
THE MATERIAL.  
IDENTIFY THE METADATA  
REQUIREMENTS AS DANIEL DISCUSSED  
IN HER DISCUSSION THAT ARE  
NEEDED FOR DIGITAL PRESERVATION  
AND FINALLY START TO DEVELOP A  
DIGITAL PRESERVATION PLAN FOR  
YOUR INSTITUTION AND POTENTIALLY  
FOR YOUR COLLABORATING GROUP.  
I'LL TELL YOU THAT I WAS JUST  
WORKING WITH A LIBRARY IN NORTH  
CAROLINA LAST WEEK AND THEY  
WROTE AS THEIR FIRST LEVEL OF  
THEIR DIGITAL PRESERVATION PLAN  
IT WAS ALMOST A WHITE PAPER WISH



LIST, WHAT WE'RE GOING TO EXPLORE.

THEY HAD WRITTEN THAT IN MAY 2012 AND IT HAD SIX MAJOR POINTS THEY WANTED TO COVER.

THEY WERE DOING VERY WELL.

THEY HAVE ACTUALLY -- IT WAS A LONG-TERM PLAN AND THEY'VE COVERED ABOUT THREE AND A HALF OF THEIR SIX POINTS BY INVESTIGATING THE SERVICES THAT ARE OUT THERE BETWEEN LAST YEAR AND NOW.

SO I THINK THAT YOU HAVE A NUMBER OF QUESTIONS AND A NUMBER OF ACTIVITIES YOU CAN LOOK AT BOTH FROM A SINGLE INSTITUTION LEVEL AS WELL AS FROM A LEVEL OF WHAT YOU MIGHT WANT TO DO ON A COLLABORATIVE PROJECT.

I WANT TO ANSWER ONE QUESTION IN THE PARKING LOT HERE FROM CHERYL McCLELLAN TALKED ABOUT JOINING A REGIONAL INDEXING PROJECT AND ENTER INDEXING INFO DIRECTLY INTO THEIR COLLECTION.

WE ASSUME THEY'RE TAKING PROPER CARE OF ALL THE DATA THEY RECEIVED BUT WHAT SHOULD BEASKING THEM?

I'D SAY EITHER FOR A COLLABORATIVE PROJECT LIKE THIS OR FOR WORK YOU MIGHT BE DOING WITH SOME CHRESHL SOLUTIONS ASK THEM WHAT THEY ARE DOING FOR DIGITAL PRESERVATION.

GET SOME DOCUMENTATION FROM THEM AND YOU'LL BE ABLE TO DETERMINE A BIT MORE IF IT COMPARES TO WHAT LIZ HAS BEEN TALKING ABOUT AND WHAT I HAVE BEEN TALKING ABOUT DURING THE DAY TODAY.

SO WITH THOSE ACTIVITIES IN MIND I'D LIKE TO MOVE ON TO OUR LAST SLIDE THAT GIVES YOU SOME VERY GOOD INFORMATION ON BEING ABLE TO CONTACT US AND YOU CAN

CERTAINLY DO THAT AFTER THE FACT BUT I KNOW ONE OF THE OTHER THINGS IS THAT DANIELLE IS GOING TO TRY TO DEVELOP A LIST OF QUESTIONS FROM TODAY AND POTENTIALLY SHE AND LIZ AND I ARE GOING TO BE ABLE TO WORK TOGETHER ON ANSWERING MANY OF YOUR QUESTIONS.

SO WITH THAT IN MIND, DANIELLE, I'LL PASS THINGS BACK OVER TO YOU AND WE CAN GO FROM THERE IN AT DRESSING SOME OF THE KEY QUESTIONS OR SORT OF TRANSIENT QUESTIONS THAT YOU'VE SEEN COME UP TODAY.

>> SURE.

WELL, FIRST OFF I THINK WE'RE GOING TO START ASKING IF QUESTION IF YOU NEED TO LOG OFF NOW THE QUESTION ABOUT WHETHER YOU'RE WATCHING BY YOURSELFS OR PART OF THE GROUP.

YOU DON'T NEED RESPOND IF YOU'RE ALONE BUT IF YOU HAVE OTHER PEOPLE AT THE SITE WITH YOU GO AHEAD AND TYPE ALL OF THEIR NAMES IN THE BOXES.

I ALSO WANT TO MAKE A QUICK NOTE FOR PEOPLE WHO NEED TO GET OFF ABOUT THE HOME WORK FOR TODAY. KRISTEN MENTIONED THIS IN THE Q&A BOX BUT YOUR HOME WORK FOR TODAY IS REALLY EASY.

WE'RE GOING TO ASK YOU TO EVALUATE THIS SERIES AND GIVE US SOME IDEAS ABOUT WHAT WORKED AND DIDN'T WORK FOR YOU AND IF YOU HAVE ANY IDEAS FOR FUTURE THINGS IN THE SERIES YOU CAN INCLUDE THAT IN THE EVALUATION OR E-MAIL HERITAGE PRESERVATION.

SO WE'RE ALWAYS HAPPY TO HEAR FROM YOU ABOUT THOSE SORTS OF THINGS.

OKAY, SO WE DO HAVE A LOT OF QUESTIONS AND WE'VE BEEN TOLD WE

CAN STAY ON LINE FOR ABOUT TEN  
MORE MINUTES BEFORE THE SERVICE  
PROVIDERS NEED TO KICK US OFF.  
SO LET'S SEE IF WE CAN SKIP  
THROUGH.

THERE WERE A COUPLE THINGS ABOUT  
SIMPLE DOCUMENTS AND I THINK  
THAT'S A VERY VALUABLE QUESTION  
TO ASK