

# ITS Executive Steering Committee (ITESC)

Agenda and Materials – June 11, 2014



# Agenda

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- Private Cloud/SharePoint Direction
  - D. Vonder Heide
- Video Repository Technology Recommendation
  - B. Montes
- ITS Project Prioritization
  - S. Malisch, J. Sibenaller
- Technology Briefing Preview
  - S. Malisch
- Upcoming ITESC Meeting Schedule
  - S. Malisch

# Microsoft SharePoint

- **SharePoint** is platform that provides a secure place to store, organize, share, and access information from anywhere on almost any device using a web browser



# Microsoft SharePoint



## BUILD EFFECTIVE COMMUNITIES

News & Announcements  
Events & Calendars  
Tools & Links  
Integrated Communication  
Social Computing



## MANAGE DOCUMENTS

Create & Load  
Paper Capture  
Review & Approve  
Publish  
Browse & Search  
View & Print  
Audit & Compliance



## CONNECT WITH CUSTOMERS

Share Files  
Present Information  
Integrated Communication  
Self-Support  
Interactive Marketing



## DRIVE EFFICIENCIES

Business Insight  
Decision Support  
Process Automation  
Workflow  
Line-of-Business Solutions

# Use Cases for Higher Education

1. Public Website Content Management
2. Intranet / Portal – Faculty / Staff, Student
3. Group / Team / Project Collaboration
4. File Sharing and Document Management
5. Information Sources & Systems Integration
6. Business Intelligence and Analytics (IR, etc.)
7. Employee / Staff / Faculty Directory
8. Board of Trustees Portal & Event Management
9. Employee / Faculty Handbook Change Management
10. Employee On-Boarding Process
11. Time Off Request Processing (and other requests)
12. Communities / Discussions / Social

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# SharePoint Direction & Governance

- Setting Direction
- Why is Governance Necessary
  - Complex
  - Not a “build it and they will come” solution
  - Adoption



Followed Sites

+ new site Search everything

Manage the promoted sites below



Sites I'm following

JAPA-TEST  
https://loyolauniversitychicago.sharepoint.com/JAPA...  
Stop following

Server Operations  
https://loyolauniversitychicago.sharepoint.com/Server O...  
Stop following

Blog  
https://loyolauniversitychicago-my.sharepoint.com/per...  
Stop following

Suggested sites to follow

Blog  
https://personal/ekillham\_luc\_edu/Blog  
Follow

Loyola University Chicago Team Site  
https://loyolauniversitychicago.sharepoint.com  
Follow

Blog  
https://personal/rtapia1\_luc\_edu/Blog  
Follow



personal-ondrive - Windows Photo Viewer

File Print E-mail Burn Open

Office 365

BROWSE FILES LIBRARY

Search everything

OneDrive for Business

# Documents

new upload sync edit manage share

| Name                             | Modified           | Sharing | Modified By  |
|----------------------------------|--------------------|---------|--------------|
| AD Project                       | September 16, 2013 | lock    | Apa, Jeffrey |
| Admin Scripts                    | September 16, 2013 | lock    | Apa, Jeffrey |
| BCDR Plans                       | 5 hours ago        | lock    | Apa, Jeffrey |
| Box Implementation               | September 16, 2013 | lock    | Apa, Jeffrey |
| Box Reports                      | September 16, 2013 | lock    | Apa, Jeffrey |
| Default Sync Folder              | September 16, 2013 | lock    | Apa, Jeffrey |
| Email Project                    | September 16, 2013 | lock    | Apa, Jeffrey |
| Guides and User Documentation    | September 16, 2013 | lock    | Apa, Jeffrey |
| HSD Projects                     | September 16, 2013 | lock    | Apa, Jeffrey |
| Invoices-POs-Quotes              | September 16, 2013 | lock    | Apa, Jeffrey |
| ITS Quarterly Report             | September 16, 2013 | lock    | Apa, Jeffrey |
| Personnel                        | September 16, 2013 | lock    | Apa, Jeffrey |
| Presentations                    | September 16, 2013 | lock    | Apa, Jeffrey |
| Quarterly Report - Board Updates | September 16, 2013 | lock    | Apa, Jeffrey |
| Scorecards                       | September 16, 2013 | lock    | Apa, Jeffrey |
| Server Documentation             | September 16, 2013 | lock    | Apa, Jeffrey |
| SharePoint Project               | December 16, 2013  | lock    | Apa, Jeffrey |
| TAC Documentation                | October 01, 2013   | lock    | Apa, Jeffrey |
| Weekly Updates                   | September 16, 2013 | share   | Apa, Jeffrey |
| AUDIX-031814                     | March 19           | lock    | Apa, Jeffrey |



# Server Operations

- Home
- Notebook
- Documents
- Server Ops Links
- Metrics
- Recent
  - Server Ops Projects
  - On-Call Schedule
- Site Contents
- EDIT LINKS

## Server Ops Projects



new task or edit this list

| Task Name   | Due Date | Assigned To                                 | % Complete |
|---|----------|---|------------|
| Database and Server Architecture Review TAC         | Today    | Apa, Jeffrey<br>Kott, Paul<br>Wardzala, Joe | 5%         |
| Retire eDirectory User Administration for Help Desk | Thursday | Wardzala, Joe<br>Apa, Jeffrey               | 90%        |
| DNS Improvements                                    | June 30  | Wardzala, Joe                               | 99%        |
| Implement Monitoring Solution for PCI               | June 30  | Killham, Eric                               | 0%         |
| Implement WSUS Throughout the Windows Environment   | June 30  | Killham, Eric                               | 85%        |
| Panopto / Shibboleth Integration                    | June 30  | Tapia, Rene                                 | 50%        |
| Replace Citrix Environment for PCI                  | June 30  | Killham, Eric                               | 97%        |
| Update/Patch all Linux Servers                      | June 30  | Tapia, Rene                                 | 90%        |
| SharePoint Pilot Implementation                     | June 30  | Apa, Jeffrey<br>Wardzala, Joe               | 0%         |

## On-Call Schedule

| On-Call Person | Backup Person | Start Time         | End Time           |
|----------------|---------------|--------------------|--------------------|
| Rene Tapia     | Jeffrey Apa   | 6/10/2014 12:00 AM | 6/10/2014 11:59 PM |
| Sam Martinez   | Jeffrey Apa   | 6/17/2014 12:00 AM | 6/17/2014 11:59 PM |
| Paul Kott      | Jeffrey Apa   | 6/24/2014 12:00 AM | 6/24/2014 11:59 PM |

## Server Ops Links

new link or edit this list

| Edit                     | URL                                | Notes  |
|--------------------------|------------------------------------|--|
| <input type="checkbox"/> | Loyola Exchange ECP                | Exchange Admin Console for O   |
| <input type="checkbox"/> | Exchange 2013 Cmdlets              | Exchange Server 2013 Cmdlets   |
| <input type="checkbox"/> | Loyola Opsview                     | Opsview System Monitoring  |
| <input type="checkbox"/> | Loyola BIG-IP Management Console   | BIG-IP Management Console /  |
| <input type="checkbox"/> | Loyola KVM                         | Raritan KVM Gateway  |
| <input type="checkbox"/> | Loyola vCenter Console             | VMWare vCenter Web Console   |
| <input type="checkbox"/> | Server Ops Admin Guides            | OneNotes for Server Ops  |
| <input type="checkbox"/> | Web LDAP Search                    | Check for Password Sync  |
| <input type="checkbox"/> | Loyola Blade Center(s)             | https://ls-blade1.is-svr.luc.edu<br>https://ls-blade2.is-svr.luc.edu<br>https://ls-blade3.is-svr.luc.edu<br>https://ls-blade5.is-svr.luc.edu |
| <input type="checkbox"/> | Bradford LSC Controller            | Bradford Wireless Management   |
| <input type="checkbox"/> | IDM3 Admin Console                 | IDM3 Admin Console   |
| <input type="checkbox"/> | Lync Admin GUI                     | Administrative Website for Lync  |
| <input type="checkbox"/> | Raritan Command Center/KVM Console | https://ls-kvm-cc.is-svr.luc.edu<br>For accessing Physical server co   |

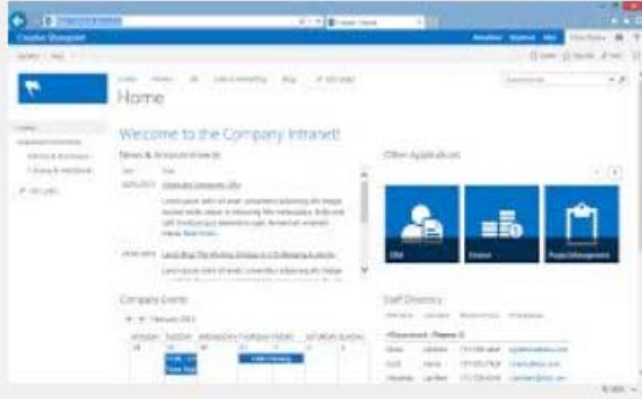
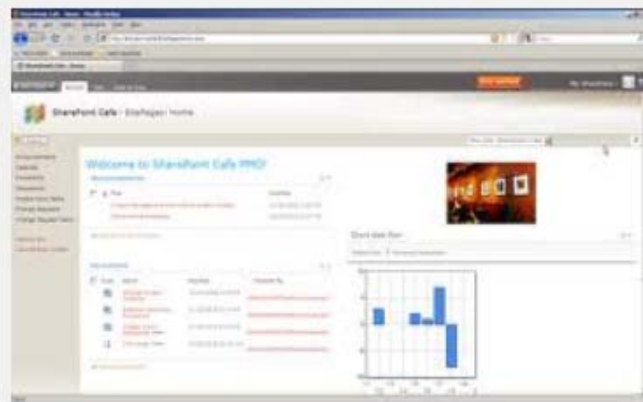
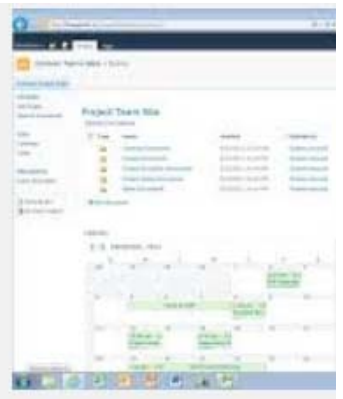
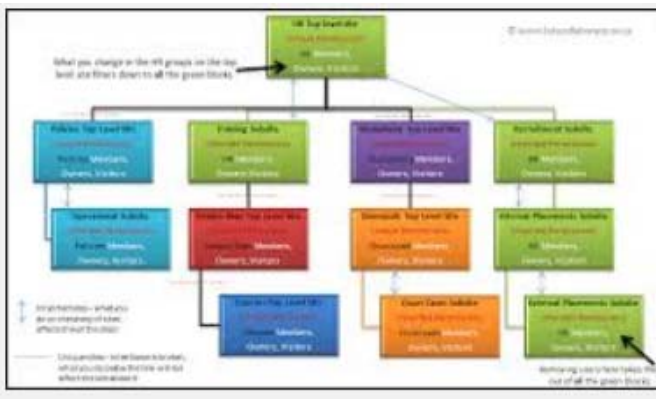
## Newsfeed

Start a conversation

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**Smith, James A**  
 Don't forget - Jimmy's birthday is next week. Remember to buy him a PS4 and/or Xbox One!  
 February 07 Like Reply

**Tapia, Rene** Awww saw this too late, if not I would have gotten you one.  
 February 13 Like





# Team Site Template

PORTAL > PROJECTS > TEST

You can make changes to this page by tapping 'edit', then tapping what you want to change.



## NEW STAFF MEMBER: JOHN CITIZEN

### QUARTERLY GROWTH EXCEEDING EXPECTATIONS

KNOW ANYONE? EXCITING NEWS : WE'RE HIRING!

[ANNOUNCEMENTS ARCHIVE...](#)

26/12/2012  
JULIE LARSEN GREEN

I'm thrilled to be able to announce that John will be joining us.

Many of you will have worked with John on previous UX projects in the SharePoint team. John will be joining us to assist in leading the core HTML5 Metro team going forward.

#### Shared Documents

**Document A**  
Modified 1 April, 2007 by me



**Document B**  
Modified 2 May, 2008 by nf



**Document C**  
Modified 3 June, 2009 by og



**Document B**  
Modified 2 May, 2008 by nf



**Document C**  
Modified 3 June, 2009 by og



**Document A**  
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#### Feedback Forms



#### Team Calendar



#### Team Stream

Julie Larsen Green contributed to Document A - "Heading 1"  
5 MINS AGO  
[View Changes](#) [Comment](#) [Like](#) [Tag](#)

JSpataro tagged this team with "Super Cool"  
15 MINS AGO  
[View Changes](#) [Comment](#) [Like](#) [Tag](#)

BillG: "Hey, Does anyone know"





# ALUMNI

LOG IN VOLUNTEERS CLUBS REUNIONS BULLETIN HELP

STORIES COMMUNITY CAREERS EVENTS CAMPAIGN

Harvard Business School → Alumni

SITE GUIDE ?



LEFA Username  LOG IN  
Password  Can't log in?

ALL COMMUNITY NEWS TOP STORIES

- What's Next
- 80,084 alumni in the HBS community
- Hüsnu Özyeğin (MBA 1969): Making a Difference
- 4,740 alumni mentioned in Class Notes in the March B...
- Ready for Takeoff
- 36,137 Alumni Directory searches performed in the last...
- Ravi Venkatesan: Making a Difference

SEND US YOUR FEEDBACK

## SEARCH THE DIRECTORY

Name, City, Company, Interest, etc.  SEARCH  
Be found. --> [Update your profile](#)  
--> [Search the Alumni Directory](#)

### ALUMNI TOOLKIT

- CAREER HUB
- CLASS NOTES
- EDAKER
- FIND A FACULTY MEMBER
- FIND A CLUB
- HARVARD BUSINESS REVIEW

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# Video Repository Proposal

*ITESC*

June, 2014



# ***The Video Repository TAC Recommends ....***



***As Loyola's Video Repository Solution***

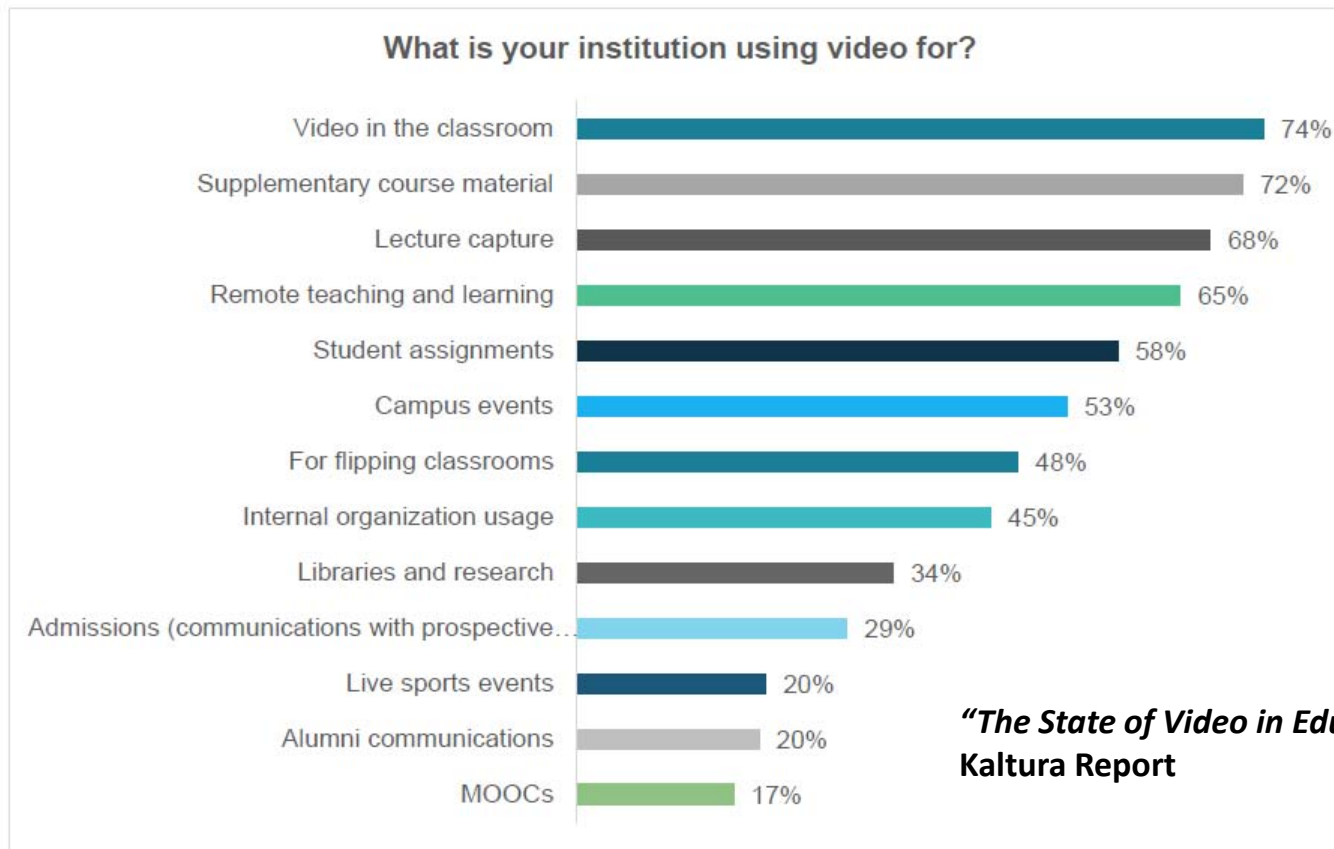




# Video Capture vs. Video Repository

| Feature\Function   | Video Capture (Panopto) | Video Repository (Ignation) | Video Repository (Kaltura) |
|--|-------------------------|-----------------------------|----------------------------|
| Allow People to Upload\Download Videos   | ✓                       | ✓                           | ✓                          |
| Store Videos in Multiple Formats for Consumption   | ✓                       | ✓                           | ✓                          |
| Provide Seamless Integration to LMS (Sakai)  | ✓                       | ✓                           | ✓                          |
| Integrate\Synchronize Technology in Classroom to Seamlessly Capture a Live Audio\Video\Screen Event  | ✓                       | ✗                           | ✗                          |
| Provide Optimized Video Streams to Multiple Platforms and Devices  | ✓                       | ✗                           | ✓                          |
| Provide Independent Control of Uploads, Downloads, and Permissions of All Types of Videos (classroom, event) for All People (Students, Faculty, Staff) | ✗                       | ✗                           | ✓                          |
| Seamless Integration with Loyola Brand (websites)  | ✗                       | ✓                           | ✓                          |

# Other Institutions ...



*"The State of Video in Education 2014"*  
Kaltura Report



# Future Primary Services ...

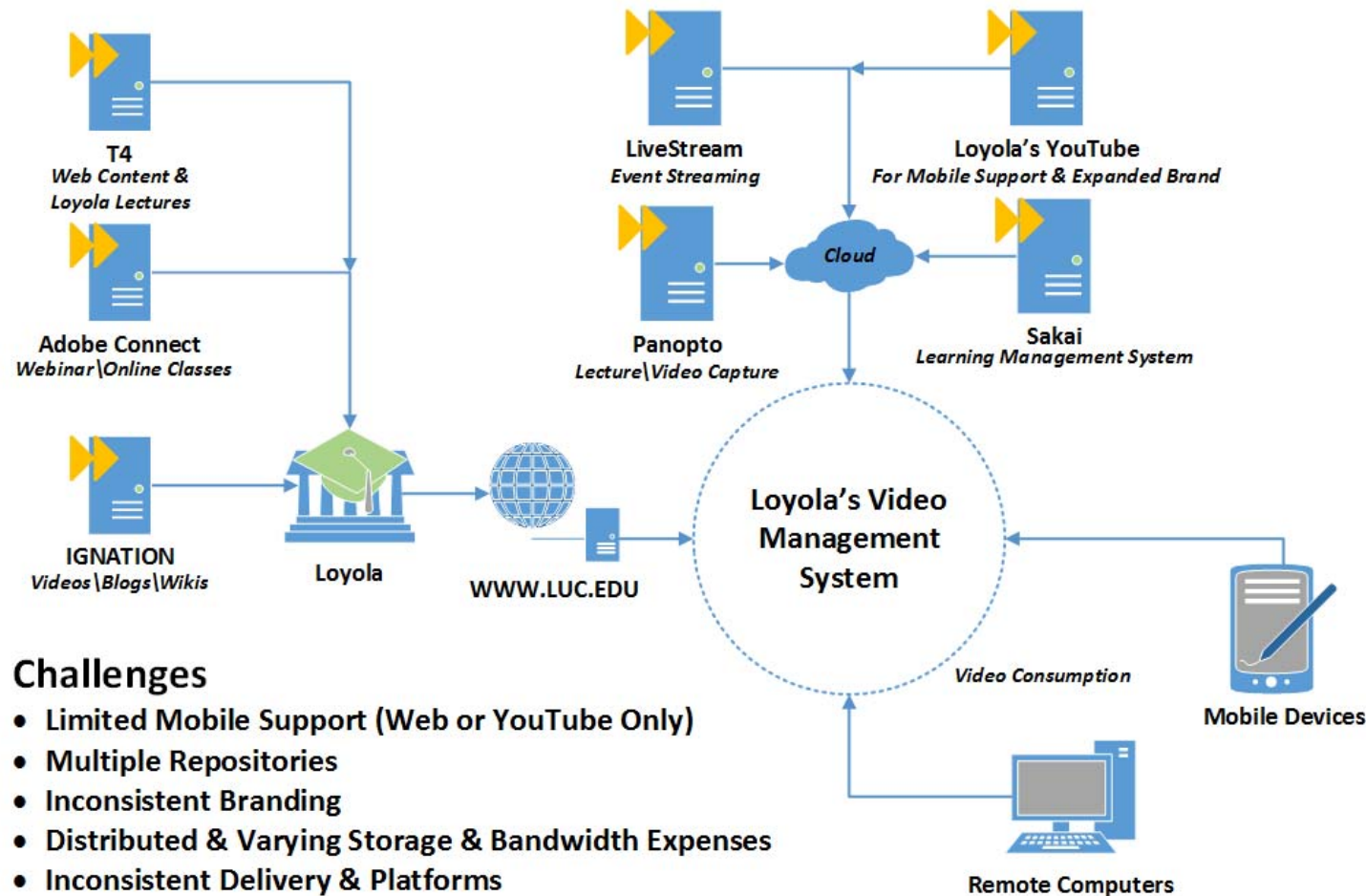
| Service                                 | Kaltura | Sakai | Panopto | Adobe Connect | T4 | Loyola Lectures Website | Livestream |
|---|---------|-------|---------|---------------|----|-------------------------|------------|
| Store Videos for Consumption            | ✓       |       |         |               |    |                         |            |
| Store Course Content (non-Video)        |         | ✓     |         |               |    |                         |            |
| Capture Classroom Lectures              |         |       | ✓       |               |    |                         |            |
| Facilitate Webinars\Synchronous Classes |         |       |         | ✓             |    |                         |            |
| Store Web Content                       |         |       |         |               | ✓  |                         |            |
| Consume Featured Loyola Lectures        |         |       |         |               |    | ✓                       |            |
| Stream Live Events                      |         |       |         |               |    |                         | ✓          |

## Benefits

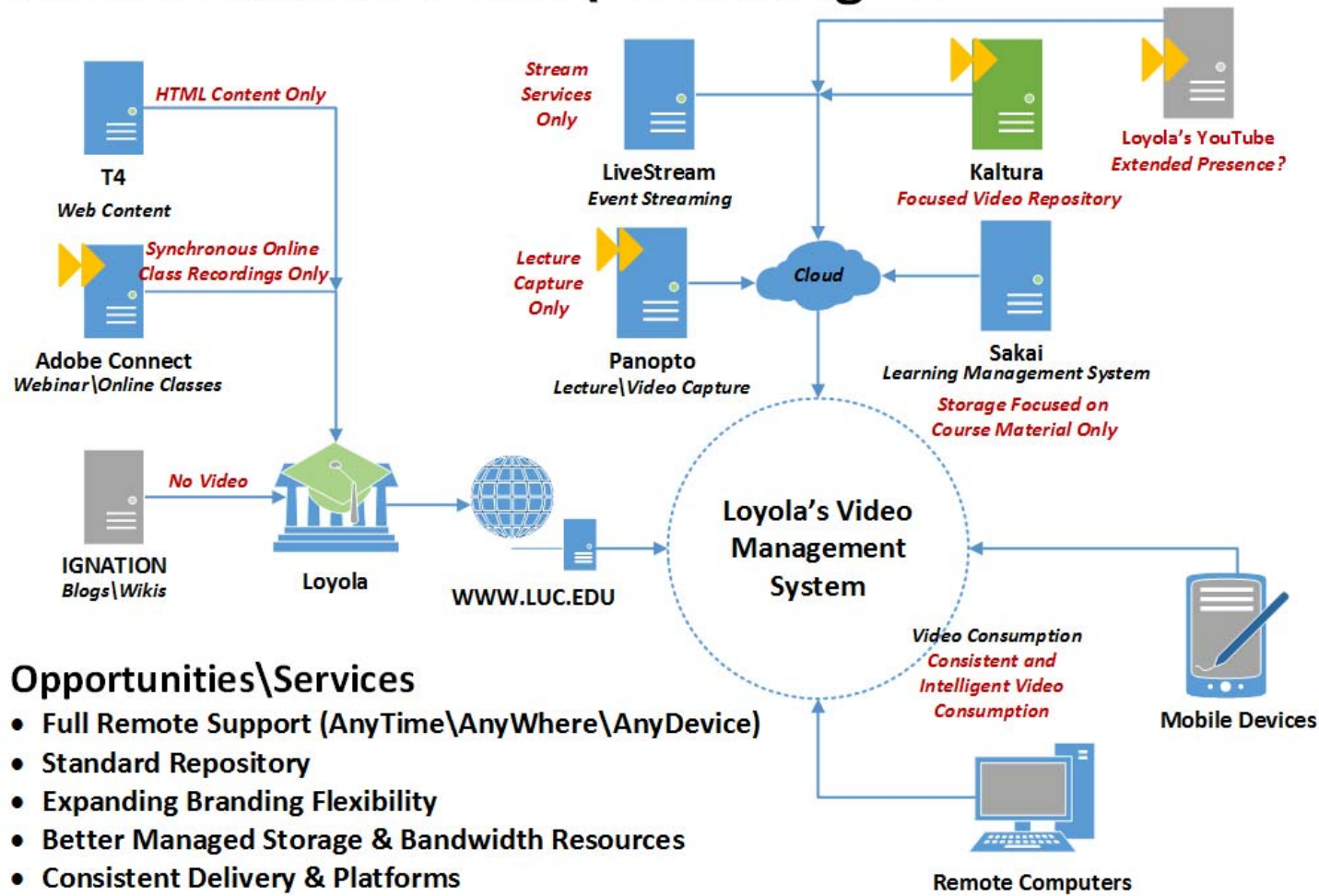
- Services use URL to link to videos in Kaltura
- Storage\Bandwidth Resources Managed More Efficiently
- Client Services Standardized and Easier to Understand
- Will Better Position Loyola to Grow Online Classes\Services
- Loyola Visual Story & Vocabulary is Better Told



# Current State of Video\Streaming ...



# Future State of Video\Streaming ...



## Opportunities\Services

- Full Remote Support (AnyTime\Anywhere\AnyDevice)
- Standard Repository
- Expanding Branding Flexibility
- Better Managed Storage & Bandwidth Resources
- Consistent Delivery & Platforms



# The Loyola Landscape ...

| Repository    | Purpose              | Audios\Videos | Storage    | Views\Streams | Hours Viewed |
|---------------|----------------------|---------------|------------|---------------|--------------|
| Ignation      | All Media            | 2,570         | 1.8 TB     | 540,000       | 1.5 M        |
| Adobe Connect | Classroom\Webinars   | 30,000        | 423 GB     | N/A           | N/A          |
| Panopto       | Classroom Capture    | 1,140         | N/A        | 520           | 80           |
| Sakai         | Course Content       | 129           | 41Gb (25%) | N/A           | N/A          |
| T4            | Audio\Video          | 80            | 1.6 GB     | N/A           | N/A          |
| No Home       | Modern Languages     | N/A           | 4 GB       | N/A           | N/A          |
| LUC YouTube   | Broad Mobile Support | 200           | N/A        | N/A           | N/A          |
| UMC Drobo     | B-Roll Like Video    | 500           | 13 TB      | N/A           | N/A          |

- **Nearly 35,000 Videos**
- **Nearly 2.5 TB of Storage**
- **Average 500 GB of Viewing (bandwidth per month)**

# Loyola Video Related Directions ...

Top Institutional IT Priorities, 2013

|    | Campus Computing Survey<br>(pct.. reporting "very Important")                            | EDUCAUSE "Top 10 IT Issues"<br>(panel assessment)   |
|----|--|---|
| 1  | Assisting faculty integrate technology into instruction (74%)                            | Leveraging the wireless and device explosion on campus  |
| 2  | Hiring / retaining qualified IT staff (73%)  | Improving student outcomes by leveraging technology   |
| 3  | Providing adequate user support (73%)  | Developing a campus-wide cloud strategy   |
| 4  | Leveraging IT resources to advance student success / student completion priorities (72%) | Developing an agile and open IT organizational model to accommodate a changing IT environment |
| 5  | Implementing/supporting mobile computing (67%)   | IT security: the balance between infrastructure openness and security                         |
| 6  | Providing Online Education (64%)   | Funding IT strategically  |
| 7  | Network and Data Security (64%)  | Developing a sustainable strategy for online ed   |
| 8  | Financing the replacement of aging IT (52%)  | Supporting the trend towards consumerization and BOYD   |
| 9  | TIE: Professional development for IT personnel & Learning/Managerial Analytics (50%)     | Transforming the institution's business with IT   |
| 10 | Upgrading the campus network (48%)   | Using analytics to support critical outcomes  |

- AnyWhere, AnyTime, accessLUC
- Grow Online & Hybrid Course\Program Offerings

# ***Technology Advisor Committee ...***

- **Information Technology Services**
  - Bruce Montes
  - Adam Smeets
  - Tim Walker
  - Heather Tomley (PM)
  - Dave Wieczorek
  - Jim Pardonek
  - Jeff Apa
  - Jack Corliss
- **Student Staff**
  - PMO Office
  - Digital Media Services
- **Provost's Office**
  - Carol Scheidenhelm
  - Terry Moy
- **University Libraries**
  - Fred Barnhart
  - James Conley
  - Ursula Scholz
- **University Marketing & Communications**
  - John Dreves
  - Heather Edison



# Pilot Participants ...

- Kelly Barry (SCPS)
- Christina Bello (ITS)
- Jamason Chen (SOC)
- David Dennis (History)
- Olympia Gonzalez (Modern Languages)
- Ron Greenberg (CS)
- Susan Grossman (Social Work)
- Bob Johnson (HSD)
- Nick Jones (Reg & Records)
- Jules Tavis (SOE)
- Jennifer Tyler (ITS)
- Robert Morrison (Psychology)
- Holly O'Conner (Nursing)
- David Pankratz (Modern Languages)
- Shweta Singh (Social Work)
- Jeanne Sokolec (Social Work)
- Robert Yacobellis (CS)



# TAC Activities ...

- Requirements
- EA Evaluation
- User Experiences \ Training
- Survey \ Feedback
- Other Institutions \ Research

MUST\_Haves

| Rank | Work Group            | Sign-Off & Importance | Description   | "Must Have" | Category | Kaltura     |
|------|-----------------------|-----------------------|---|-------------|----------|-------------|
| 1    | Security              | Network               | Allows options to authenticate via LDAP Sakai and password (Shibboleth)   | Yes         | High     | Yes         |
|      | SME                   | Jim P, Sam M, Jeff A  | <b>Technical:</b>   |             |          |             |
|      |                       |                       | <b>User Feedback:</b>   |             |          |             |
| 2    | Support/Training      | John Drevs            | Videos should be able to be accessed from any web-enabled device  | Yes         | High     | Yes         |
|      | SME                   | John Drevs            | <b>Technical:</b>   |             |          |             |
|      |                       |                       | <b>User Feedback:</b>   |             |          |             |
| 3    | Security              | Carol, Fred, Bruce    | Permissions must provide capability for public, private, features, etc.   | Yes         | High     | Yes         |
|      | SME                   | Carol, Fred, Bruce    | <b>Technical:</b>   |             |          |             |
|      |                       |                       | <b>User Feedback:</b>   |             |          |             |
| 4    | Support/Training      | Adam, John            | Able to support a wide variety of file formats* and codecs*   | Yes         | High     | Yes         |
|      |                       | Adam, John            | <b>Technical:</b>   |             |          |             |
|      |                       |                       | <b>User Feedback:</b>   |             |          |             |
| 5    | Transition Management | Tim, Adam, John       | Ability to generate stable URLs for videos (embed code, URL's, etc)   | Yes         | High     | Yes         |
|      |                       | Tim, Adam, John       | <b>Technical:</b>   |             |          |             |
|      |                       |                       | <b>User Feedback:</b>   |             |          |             |
| 6    | Security              | Adam, Tim, Fred       | Levels of Administration should be part of the system (i.e. some power admins, etc)                                     | Yes         | High     | Yes         |
|      |                       | Adam, Tim, Fred       | <b>Technical:</b>   |             |          |             |
|      |                       |                       | <b>User Feedback:</b>   |             |          |             |
| 7    | Security              | Adam, John, Fred      | Files can be set to prevent download/stream   | Yes         | High     | Yes (RTM)   |
|      |                       | Adam, John, Fred      | <b>Technical:</b>   |             |          |             |
|      |                       |                       | <b>User Feedback:</b>   |             |          |             |
| 8    | Support/Training      | John, Tim, Adam       | Ability to embed videos in other web pages  | No          | High     | Yes         |
|      |                       | John, Tim, Adam       | <b>Technical:</b>   |             |          |             |
|      |                       |                       | <b>User Feedback:</b>   |             |          |             |
| 9    | Security              | Jim, Adam             | Provide administrative capability to "take down" a video  | Yes         | High     | Yes         |
|      |                       | Jim, Adam             | <b>Technical:</b>   |             |          |             |
|      |                       |                       | <b>User Feedback:</b>   |             |          |             |
| 10   | Support/Training      | Fred, Carol           | A "click through" should be provided for submitters as it relates to copyright  | No          | High     | Yes         |
|      |                       | Fred, Carol           | <b>Technical:</b>   |             |          |             |
|      |                       |                       | <b>User Feedback:</b>   |             |          |             |
| 11   | Security              | Jim, Adam, Tim        | System needs to support encryption for streaming and/or authoring   | Yes         | High     | Yes         |
|      |                       | Jim, Adam, Tim        | <b>Technical:</b>   |             |          |             |
|      |                       |                       | <b>User Feedback:</b>   |             |          |             |
| 12   | Security              | Bruce                 | System must meet LUC's architecture standards   | Yes         | High     | To be fixed |
|      |                       | Bruce                 | <b>Technical:</b>   |             |          |             |
|      |                       |                       | <b>User Feedback:</b>   |             |          |             |
| 13   | Transition Management | John, Tim, Adam       | System must integrate with mobile social media, LMS, Library (i.e. Proq), F4, E-Commons, video conference systems, etc. | No          | High     | Yes         |
|      |                       | John, Tim, Adam       | <b>Technical:</b>   |             |          |             |
|      |                       |                       | <b>User Feedback:</b>   |             |          |             |
| 14   | Support/Training      | Adam, Tim             | Tool to make bookmarks of videos and/or link to a specific time signature within a video                                | No          | High     | Yes         |
|      |                       | Adam, Tim             | <b>Technical:</b>   |             |          |             |
|      |                       |                       | <b>User Feedback:</b>   |             |          |             |

| Principle Number | Principle Name                             | Rationale   | Rationale ?   | 5 Strongly Agree | 4 Agree | 3 Neutral | 2 Disagree | 1 Strongly Disagree | Explanation (Required) |
|------------------|--|---|---|------------------|---------|-----------|------------|---------------------|------------------------|
| 01               | Centralized Governance for IT Acquisitions | A common assessment process will ensure that all proposed changes and projects are business-driven and that they align with strategic goals, as well as the principles, best practices, and standards defined and documented in the ITS's EA. | A common assessment and governance process is being utilized for researching solutions or products. | X                |         |           |            |                     |                        |
| 01               | Centralized Governance for IT Acquisitions | It will ensure that individual subsidiary change proposals are optimized from the global University perspective, rather than from only a departmental or project perspective.   |   | X                |         |           |            |                     |                        |
| 01               | Centralized Governance for IT Acquisitions | Unnecessary redundancy will be decreased.   |   | X                |         |           |            |                     |                        |
| 01               | Centralized Governance for IT Acquisitions | Technology that is based on a common framework will provide a greater opportunity for information collaboration and process efficiency.   |   | X                |         |           |            |                     |                        |
| 02               | Mission, Vision and Promise Alignment      | Information technology environment changes will respond to the needs of the University, rather than having the University change in response to ITS changes.  | The solution is clearly aligned with the University's Mission, Vision, and Promise?                 | X                |         |           |            |                     |                        |
| 02               | Mission, Vision and Promise Alignment      | This ensures that meeting the University's Mission, Vision, and Promise is the basis for any proposed change.   |   | X                |         |           |            |                     |                        |
| 02               | Mission, Vision and Promise Alignment      | Unintended effects on University processes due to IT changes will be minimized.   |   | X                |         |           |            |                     |                        |
| 02               | Mission, Vision and Promise Alignment      | A change in technology may provide new opportunities that improve business processes.   |   | X                |         |           |            |                     |                        |

|                                       | INTERFACE Faculty & Staff | INTERFACE Faculty & Staff |
|---------------------------------------|---------------------------|---------------------------|
| <b>KALTURA</b>                        |                           |                           |
| <b>Action</b>                         |                           |                           |
| Upload                                | A                         | A                         |
| Upload a video                        | A                         | A                         |
| Upload an image                       | A                         | A                         |
| Upload an audio                       | A                         | A                         |
| <b>Change Permissions on File</b>     |                           |                           |
| Change / edit access right on a file  | B                         | A/C                       |
| Transfer ownership of file            | C                         | D                         |
| <b>Delete a File</b>                  |                           |                           |
| Delete uploaded content               | A                         | A/B                       |
| <b>Share a File</b>                   |                           | (Bell Curve)              |
| Share a file with Social Media        | A                         | A                         |
| Share a file with secure URL          | C                         | A                         |
| Share a file with LDAP authentication | C                         | Not Assessed              |
| Embed video in content                | A                         | A                         |
| <b>Consume Content</b>                |                           |                           |
| Watch a video                         | A                         | A                         |
| View an image                         | A                         | A                         |
| Listen to an audio                    | A                         | A                         |
| Take down / report / notify an issue  | A                         | A                         |

### 3. What methods did you use to learn Panopto/Unison? Please check all that apply.

|                               |          |
|-------------------------------|----------|
| Vendor-provided training      | 0        |
| Loyola-provided training      | 5 (100%) |
| Vendor-provided documentation | 1 (20%)  |
| Loyola-provided documentation | 4 (80%)  |
| Personal experimentation      | 2 (40%)  |

### Of the methods listed above, which was your primary method for learning Panopto/Unison?

|  |  |
|--|--|
| All 3 were equal                                   |  |
| I consulted the ITS people for specific questions. |  |
| Loyola-provided training                           |  |

### 4. Please indicate whether the following training and documentation sources were helpful.

|                                 | Helpful  | Not helpful | Did not use |
|---------------------------------|----------|-------------|-------------|
| 4 Vendor-provided training      | 1 (25%)  |             | 3 (75%)     |
| 5 Loyola-provided training      | 5 (100%) |             |             |
| 4 Vendor-provided documentation | 1 (25%)  |             | 3 (75%)     |
| 4 Loyola-provided documentation | 4 (100%) |             |             |

### If you have any comments on your ratings, please include them here:

I looked at documentation from Loyola and I had personal assistance from LUC tech support (uploading video) and HSD tech support (using Panopto to record classroom lecture). There were ample sources from where to gain insights but it was very helpful to have available ITS personnel for technical support.

### 5. What was the primary way you accessed Panopto/Unison?

|                              |          |
|------------------------------|----------|
| Through Sakai                | 5 (100%) |
| Via Panopto/Unison's website |          |

### 6. Did Panopto/Unison allow you to control which students could access the media or how they were able to access it?

|                                 |         |
|---------------------------------|---------|
| Yes                             | 1 (20%) |
| No                              |         |
| Unsure/did not use this feature | 4 (80%) |

### Summary of the Academic Institutions Using Video Repositories Interviews

The TAC pilot group reached out to eight institutions across the United States that are currently using one of the three systems tested in the pilot (Unison, ShareStream, and Kaltura) to investigate how they are using their systems and some basics about their experiences. The sizes of institutions contacted varied from 4,700-27,000 FTE and mostly used the BlackBoard Learning Management System (LMS) for course management. Only The University of Baltimore and Mesa Community College used other systems: Sakai and Canvas respectively.

The focus of our investigation was to determine the relative sizes of various institutions using the products we've piloted, the blending of academic and public content across their streaming systems, and the issues surrounding use and infrastructure that have been encountered after adopting one of these platforms.

Overwhelmingly and regardless of platform all of the institutions have stated that their video repositories are only used for academic purposes. In most cases the institutions are open to allowing students, student groups, or campus departments upload access to their systems however they have all said unequivocally that students prefer to use the popular commercial systems already available to them. YouTube was the number one system used by most students and academic departments due to its ease of use and popular currency. This left the institutions with the ability to focus more closely on faculty video needs and in all cases their repository services were accessed almost exclusively via the learning management system. Faculty and IT employee feedback specified that in all cases except for St. Joseph's Kaltura installation the web (non-LMS) interface was never/rarely used and in fact most faculty members seemed unaware that the web interface existed at all.

All of the institutions using Kaltura or ShareStream handled uploads to the system via a centralized "Media Centers" on campus (designated librarian, IT staff member, academic department person) save for the University of Illinois at Chicago and Mesa Community College. These two institutions, both ShareStream clients, allow faculty to upload their course assets via the Blackboard interface. Both institutions using Panopto Unison allow faculty to upload media to their courses however the primary function of Unison in both institutions is for Panopto-recorded lecture capture video. Vanderbilt University in particular uses Adobe Media Server for its non-Panopto video uploads.

None of the institutions we spoke with have had any major security or copyright violations though all respondents mentioned that they have no system in place to police or audit video assets for copyright issues. All institutions mention that they spend significant time educating faculty on the importance of staying within copyright laws before giving them access to these tools.

Aside from the usual information literacy deficits and occasional small bugs common in a mixed group of individuals using complex systems the only real problem mentioned as a barrier to entry for any of these systems was the lack of promotion of the tool. Several of the institutions interviewed said that they implemented the systems without a lot of external promotion and although faculty adoption has been



# Pilot Project ...

## Products

- Sharestream
- Panopto Unison
- Kaltura

## Timeline

- Product\Landscape Review – 6 Months
- Pilot – Fall Term 2013

The screenshot shows a web interface for the "Video Repository Pilot Project" at Loyola University Chicago. The top navigation bar is maroon with white text, including the university name and several dropdown menus. A left-hand navigation menu lists various site functions such as "Home", "Announcements", "Email", "Online Meeting", and several "ShareStream" and "Panopto Unison" related items. The main content area features a large graphic of a filmstrip with various nature scenes, and the text "Loyola's Video Repository Pilot Project Site" is written across the bottom of the filmstrip. Above the filmstrip, it says "A project site for the 'Video Repository' Pilot Project."

# Panopto Solution ...

## Magic Quadrant for Enterprise Video Content Management

Published: 26 September 2013

Analyst(s): Whit Andrews

Enterprise video content management is now a market with comparable vendors, significant and stable revenue, and a meaningful customer base. Vendors range from megavendor Cisco to very small vendors that are just beginning to have an impact in the market.

**The lecture-capture vendor is seeking to expand beyond the higher education market, and is addressing corporate training and corporate executive messaging. It offers innovative adaptive rate video delivery and is particularly strong at multicamera, multiperspective video capture.**

### Strengths

- Its usage analytics are quite strong for a vendor that is entering general video content
- management from lecture capture.
- Its solid workflow is designed to accommodate more than just the higher education market.
- Its simple pricing model combines the number of creators and the number of hours delivered.

### Cautions

- Its search of the talk track requires the use of a partner.
- It is just emerging as an enterprise video content management vendor from a history as a lecture-capture specialist.



### Magic Quadrant

Figure 1. Magic Quadrant for Enterprise Video Content Management



We added **Panopto**, a significant lecture-capture specialist that is seeking to expand decisively beyond higher education and other high-complexity training environments (such as medical practices) into extended, full-spectrum video content management in commercial and government entities. We also added MediaPlatform, which is appearing in inquiries.

Gartner



# Kaltura Solution ...

## Magic Quadrant for Enterprise Video Content Management

Published: 26 September 2013

Analyst(s): Whit Andrews

Enterprise video content management is now a market with comparable vendors, significant and stable revenue, and a meaningful customer base. Vendors range from megavendor Cisco to very small vendors that are just beginning to have an impact in the market.

***Kaltura has developed a modular and extensible platform that allows for significant customization and development. It pursues multiple clusters of use cases with specific capabilities, including media and high education.***

### Strengths

- Its very strong cloud/on-premises hybrid storage model also allows third parties to be storage partners.
- It has an extremely modular architecture, which allows for application development, customization and incorporation into other applications.
- It has a highly flexible workflow engine.
- Its powerful and flexible analytics serve most use cases.

### Cautions

- Transcription for search or other purposes is currently licensed from other vendors and provided through Kaltura.
- The administration and management interface will need more streamlining to make it easy to use.

## Magic Quadrant

Gartner.

Figure 1. Magic Quadrant for Enterprise Video Content Management



anywhere  
anytime  
accessLUC

# Kaltura Proposal ...

## Proposal

- Hosted Solution 3-Year Term (50K Annually)
- Setup of Environment & Migration of Content – 4.6K
- Total Fees Year One – 54.6K
- Years 2 & 3 – 50K per year
- Provides for 60 TB of Storage & Bandwidth Together
- Overage is charged at 0.50 per GB (i.e. 5K for 1 TB)

## Kaltura

- Over 450 Education Clients (host all but 2)
- Midwest Clients include - Michigan, Michigan State, Indiana University, University of Cincinnati, DePaul, University of Chicago, University of Illinois, Eastern Illinois, Purdue University, Indiana Wesleyan, The Wisconsin State System, The entire MNSCU system, Northern Kentucky University, and University of Kentucky.



# **Video Repository Proposal**

## ***Architecture Review Board***

May, 2014





# Agenda

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- Private Cloud/SharePoint Direction
  - D. Vonder Heide
- Video Repository Technology Recommendation
  - B. Montes
- **ITS Project Prioritization**
  - S. Malisch, J. Sibenaller
- Technology Briefing Preview
  - S. Malisch
- Upcoming ITESC Meeting Schedule
  - S. Malisch



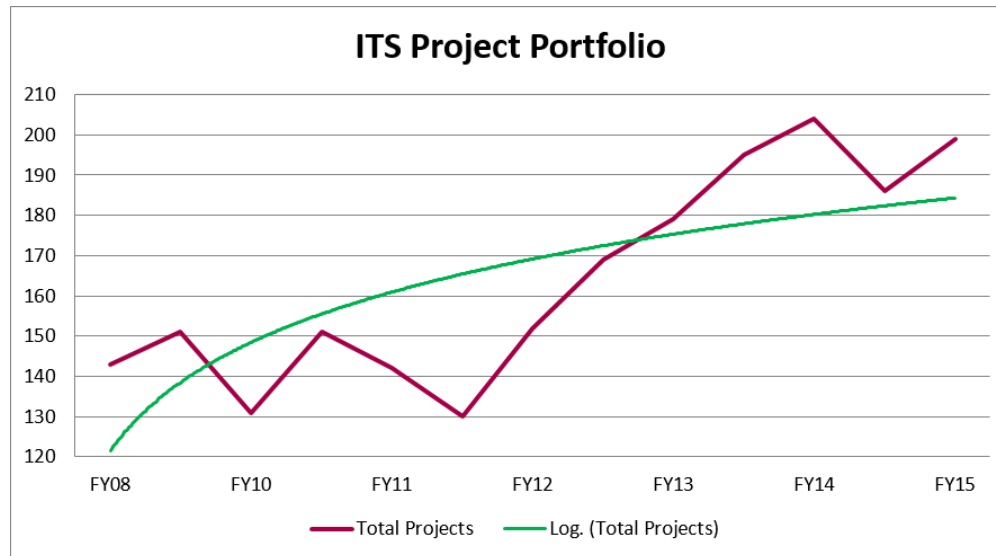
# Plan of Record Tracking

| POR Activity                  | Total Count | T-Shirt Sizing Breakdown |       |        |       |         |
|-------------------------------|-------------|--------------------------|-------|--------|-------|---------|
|                               |             | X-Large                  | Large | Medium | Small | X-Small |
| Original FY14 Q3-Q4 POR       | 186         | 13                       | 34    | 74     | 55    | 10      |
| Revised FY14 Q3-Q4 POR        | 186         | 14                       | 36    | 73     | 53    | 10      |
| New Projects Started          | 75          | 5                        | 14    | 24     | 23    | 9       |
| Final FY14 Q3-Q4 POR          | 261         | 19                       | 50    | 97     | 76    | 19      |
| Completed Projects            | (51)        | 4                        | 9     | 13     | 20    | 5       |
| Forecasted Completed Projects | (14)        | 2                        | 3     | 2      | 4     | 3       |
| Duplicate / Canceled          | (5)         | 0                        | 1     | 4      | 0     | 0       |
| Rollover Projects             | 191         | 13                       | 37    | 78     | 52    | 11      |
| New Projects not Started      | 8           | 4                        | 2     | 2      | 0     | 0       |
| FY15 Q1-Q2 POR (Draft)        | 199         | 17                       | 39    | 80     | 52    | 11      |
| Net Change                    | 13          | 3                        | 3     | 7      | (1)   | 1       |

# Project Sizing Trend

## Portfolio Counts

| T-Shirt Sizing | Work Effort | FY10  | FY10  | FY11  | FY11  | FY12  | FY12  | FY13  | FY13  | FY14  | FY14  | FY15  |
|----------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                |             | Q1-Q2 | Q3-Q4 | Q1-Q2 | Q3-Q4 | Q1-Q2 | Q3-Q4 | Q1-Q2 | Q3-Q4 | Q1-Q2 | Q3-Q4 | Q1-Q2 |
| TBD            | TBD         | 2     | 1     | 1     | 2     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| X-Small        | < 5 Days    | 15    | 8     | 6     | 4     | 6     | 10    | 13    | 12    | 12    | 10    | 11    |
| Small          | 5-30 Days   | 14    | 44    | 35    | 28    | 34    | 44    | 43    | 58    | 56    | 55    | 52    |
| Medium         | 31-60 Days  | 67    | 59    | 61    | 64    | 71    | 74    | 75    | 68    | 72    | 74    | 80    |
| Large          | 61-120 Days | 32    | 33    | 33    | 19    | 32    | 31    | 37    | 43    | 49    | 34    | 39    |
| X-Large        | >120 Days   | 1     | 6     | 7     | 18    | 9     | 10    | 11    | 14    | 15    | 13    | 17    |
|                |             | 131   | 151   | 143   | 135   | 152   | 169   | 179   | 195   | 204   | 186   | 199   |



|           | Avg. | Min | Max | This Period |
|-----------|------|-----|-----|-------------|
| Portfolio | 160  | 125 | 204 | 199         |



# Capacity Estimates

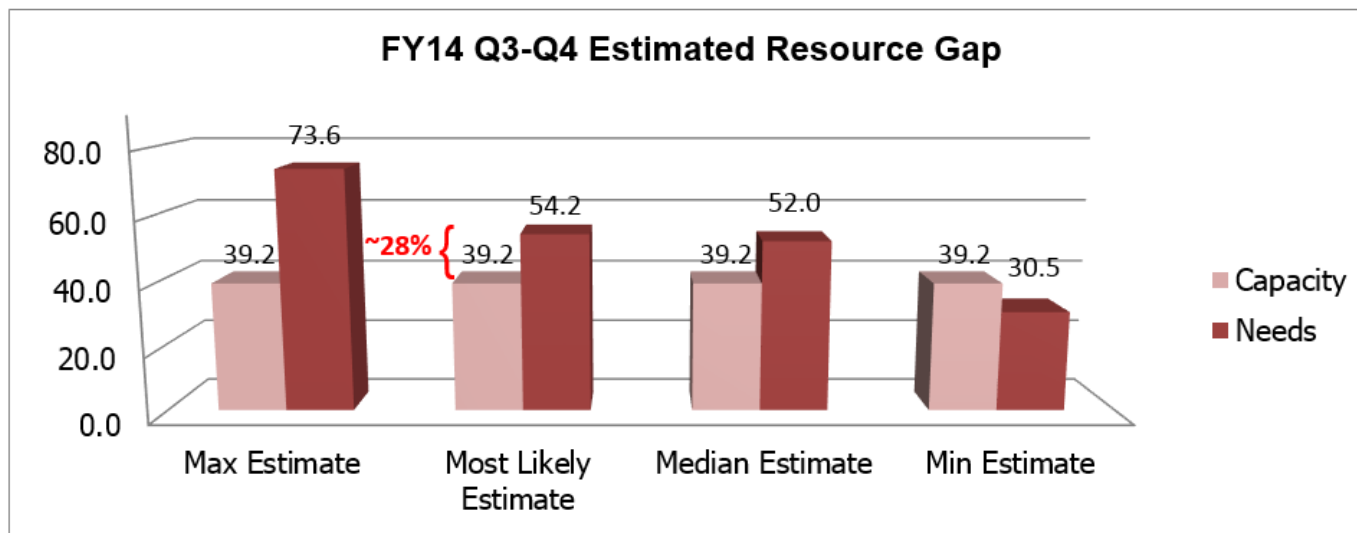
| T-Shirt Sizing | Work Effort | Initial Project Count* | Project Effort** (FTE) |
|----------------|-------------|------------------------|------------------------|
| TBD            | TBD         | 0                      | 0.0                    |
| X-Small        | < 5 Days    | 11                     | 0.2                    |
| Small          | 5-30 Days   | 52                     | 4.7                    |
| Medium         | 31-60 Days  | 80                     | 15.4                   |
| Large          | 61-120 Days | 39                     | 15.0                   |
| X-Large        | >120 Days   | 17                     | 18.9                   |
| <b>Total</b>   |             | <b>199</b>             | <b>54.2</b>            |

\* snapshot as of 5/30/14

\*\* most likely scenario

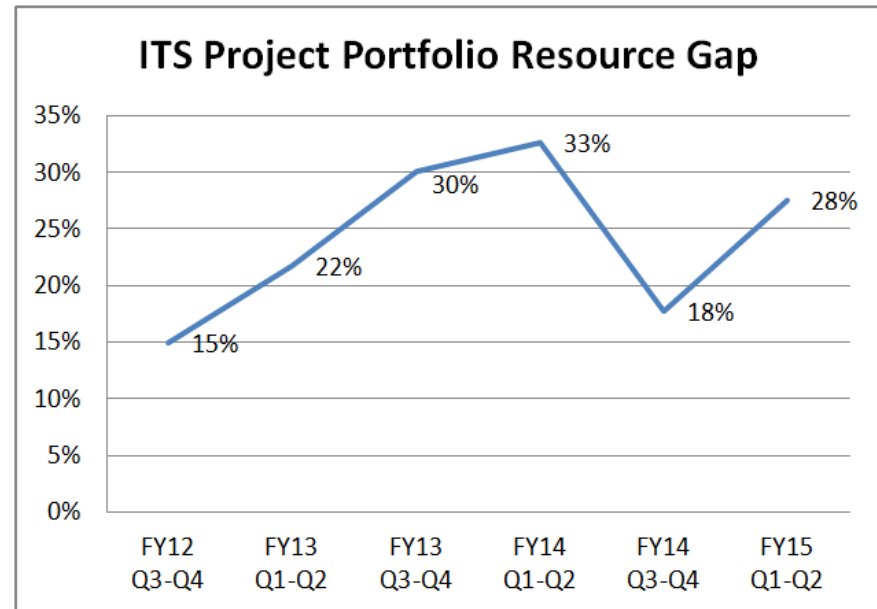
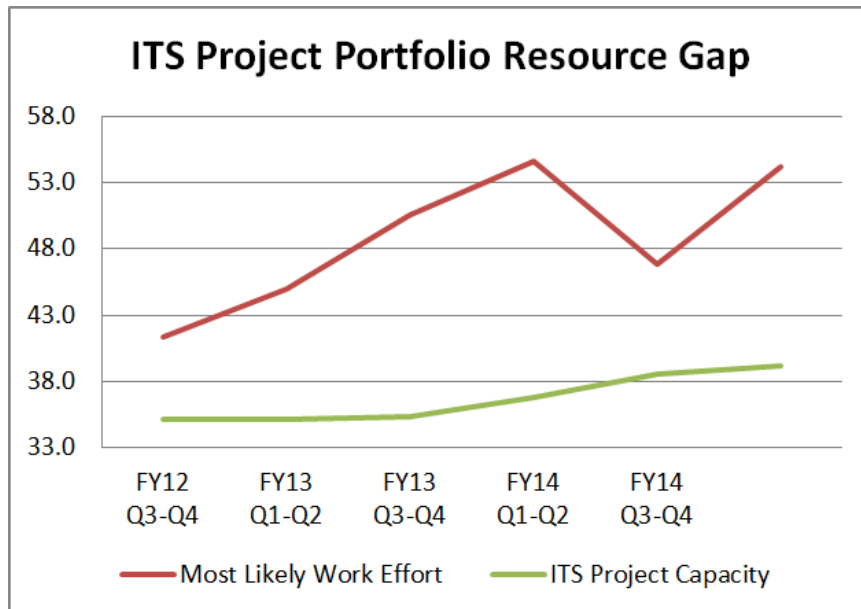
| ITS Capacity/Resource Calculations (FTE) |              |
|--|--------------|
| Full Time                                | 101.0        |
| Part Time                                | 3.3          |
| <b>Annual Total</b>                      | <b>104.3</b> |

|              | Est. Effort Allocation | Est. Time Allocation | Most Likely Estimate Gap |
|--------------|------------------------|----------------------|--------------------------|
| Admin.       | 26.5                   | 26%                  | 28%                      |
| Support      | 38.6                   | 38%                  |                          |
| Project      | 39.2                   | 37%                  |                          |
| <b>Total</b> | <b>104.3</b>           | <b>100%</b>          |                          |

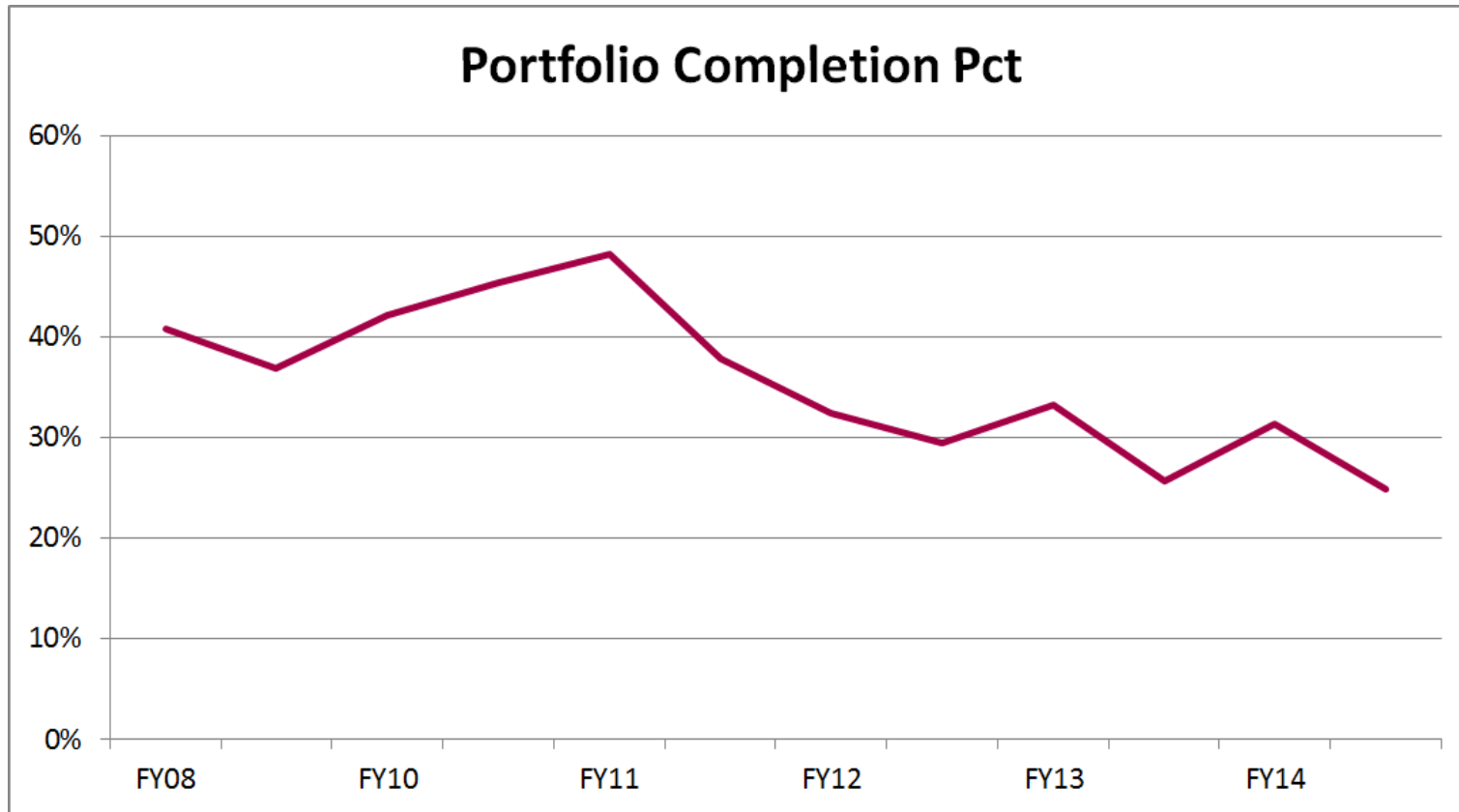


# Portfolio Growth Details

|                                       | FY12<br>Q3-Q4 | FY13<br>Q1-Q2 | FY13<br>Q3-Q4 | FY14<br>Q1-Q2 | FY14<br>Q3-Q4 | FY15<br>Q1-Q2 | 5 Period<br>Growth |
|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|
| <b>Portfolio Count</b>                | 169           | 179           | 195           | 204           | 186           | 199           |                    |
| <b>Portfolio Growth</b>               | --            | 7%            | 11%           | 6%            | -14%          | 9%            | 15%                |
| <b>Most Likely Work Effort</b>        | 41.4          | 45.0          | 50.6          | 54.6          | 46.9          | 54.2          |                    |
| <b>Most Likely Work Effort Growth</b> | --            | 8%            | 11%           | 7%            | -16%          | 13%           | 24%                |
| <b>ITS Project Capacity</b>           | 35.2          | 35.2          | 35.4          | 36.8          | 38.6          | 39.2          |                    |
| <b>ITS Project Capacity Growth</b>    | --            | 0%            | 1%            | 4%            | 5%            | 2%            | 10%                |
| <b>Estimated Resource Gap</b>         | 15%           | 22%           | 30%           | 33%           | 18%           | 28%           |                    |



# Completed Project Forecast

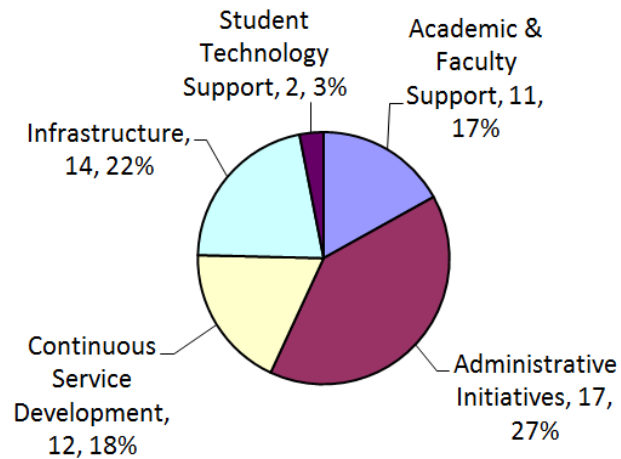


65 projects forecast completed this period

|                | Avg. | Min | Max | This Period      |
|----------------|------|-----|-----|------------------|
| Completed Pct. | 35%  | 25% | 48% | 25% (forecasted) |

# FY14 Q3-Q4 Completed Projects Forecast

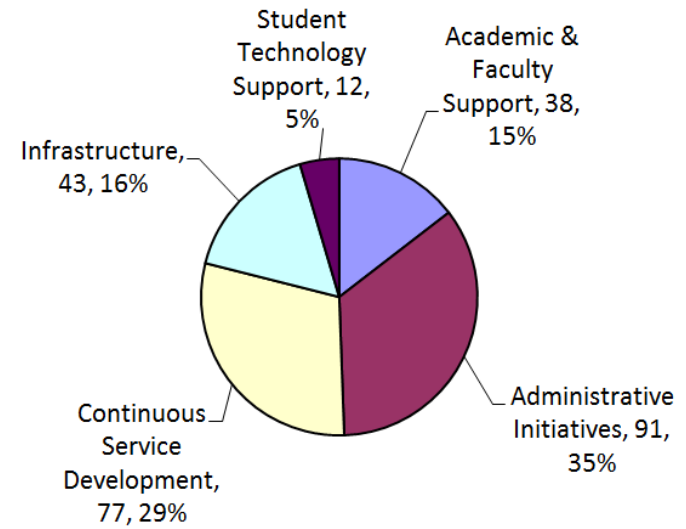
FY14 Q3-Q4 Completed Projects by Strategic Alignment



Data as of 5/30/2014

65 Projects

FY14 Q3-Q4 Project Portfolio by Strategic Alignment



Forecasted Data as of 5/30/2014

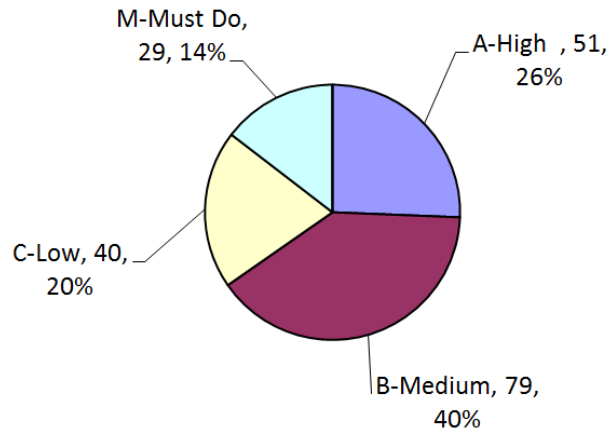
261 Projects

| Strategic Category             | Completed Count | Completed Percent | Portfolio Percent | Net Difference |
|--------------------------------|-----------------|-------------------|-------------------|----------------|
| Academic & Faculty Support     | 11              | 17%               | 15%               | 2%             |
| Administrative Initiatives     | 26              | 40%               | 35%               | 5%             |
| Continuous Service Development | 12              | 18%               | 30%               | -11%           |
| Infrastructure                 | 14              | 22%               | 16%               | 5%             |
| Student Technology Support     | 2               | 3%                | 5%                | -2%            |
|                                | <b>65</b>       |                   |                   |                |

Draft

# FY15 Q1-Q2 Plan of Record

FY15 Q1-Q2 Projects by Priority (Draft)

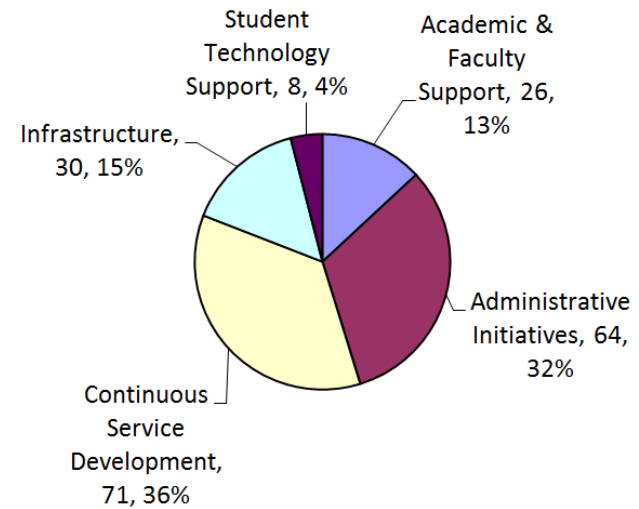


Data as of 5/30/2014

199 Projects

| Priority  | Count      |
|-----------|------------|
| A-High    | 51         |
| B-Medium  | 79         |
| C-Low     | 40         |
| M-Must Do | 29         |
|           | <b>199</b> |

FY15 Q1-Q2 Projects by Strategic Alignment (Draft)



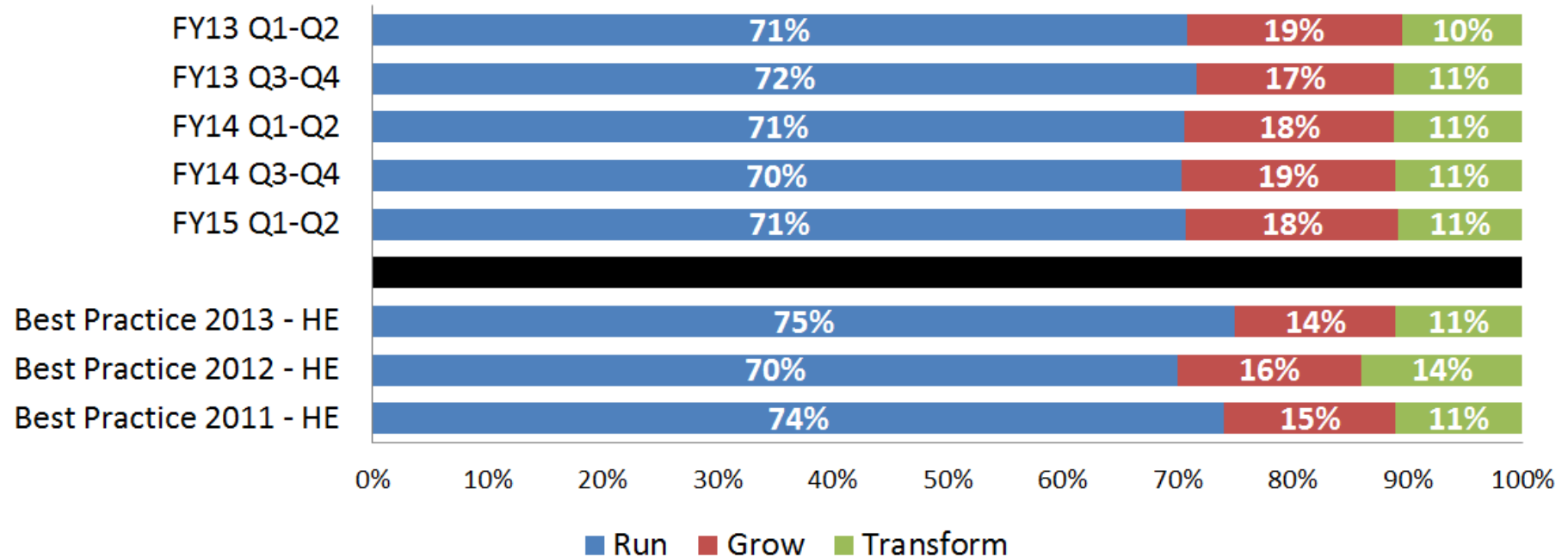
Data as of 5/30/2014

199 Projects

| Strategic Alignment            | Count      |
|--------------------------------|------------|
| Academic & Faculty Support     | 26         |
| Administrative Initiatives     | 64         |
| Continuous Service Development | 71         |
| Infrastructure                 | 30         |
| Student Technology Support     | 8          |
|                                | <b>199</b> |

# ITS Project Portfolio Impact

## Portfolio Strategic Breakdown - History



**Run** – Ongoing operations

**Grow** – Information systems and services to optimize performance

**Transform** – New technologies and processes that fundamentally promote change



**FY15 Q1-Q2 ITS Pre-Approved/Established Projects**

| Priority | Row Nbr      | Program Group  | Prior PRB Ranking               | T-Shirt Sizing | Status        | Est. Compl. (QTR) | Primary Customer   |
|----------|--------------|--|---------------------------------|----------------|---------------|-------------------|--|
|          | <b>30-34</b> | <b>LOCUS Enhancements (5)</b>                                      | <b>1</b>                        | <b>XLarge</b>  | <b>Active</b> | <b>TBD</b>        | <b>Enterprise/Multiple</b>   |
| A        | 30           | Student Data Collection Enhancements - 2014                        |                                 | Medium         | Active        | Q1 FY15           | Student Development - Office   |
| A        | 31           | Transferology Extracts   |                                 | Medium         | Active        | Q1 FY15           | Registration & Records   |
| A        | 32           | Enhancements to LOCUS Immunization Processing - Phase II           |                                 | Large          | Active        | Q2 FY15           | Wellness Center  |
| A        | 33           | Financial Aid - Loan/Disbursement - 2014-15                        |                                 | Medium         | Active        | Q3 FY15           | Information Services   |
| A        | 34           | Review of Admission Interface data and architecture                |                                 | Medium         | Pending       | TBD               | Registration & Records   |
|          | <b>35-39</b> | <b>Enterprise Content Management (5)</b>                           | <b>Not Provided for Ranking</b> | <b>XLarge</b>  | <b>Active</b> | <b>Q2 FY15</b>    | <b>Enterprise/Multiple</b>   |
| A        | 35           | Treasury-Cash Mgmt ECM Implementation - Phase 2                    |                                 | Large          | Active        | Q1 FY15           | Finance- Office of the VP-CFO  |
| A        | 36           | ECM DocFinity School of Continuing and Professional Studies        |                                 | Medium         | Active        | Q1 FY15           | School of Continuing and Professional Studies                        |
| A        | 37           | Electronic Document Retention                                      |                                 | Large          | Active        | Q2 FY15           | Information Services   |
| A        | 38           | ECM - Faculty Administration Phase 2                               |                                 | Medium         | On Hold       | Q1 FY15           | Human Resources- Office of the VP                                    |
| A        | 39           | HR ECM - Wage Garnishments, Performance Eval and Salary Planning   |                                 | Large          | On Hold       | Q1 FY15           | Human Resources- Office of the VP                                    |
|          | <b>40-41</b> | <b>Business Intelligence/Data Warehouse Program Management (2)</b> | <b>2</b>                        | <b>XLarge</b>  | <b>Active</b> | <b>Q2 FY15</b>    | <b>Academic Affairs/<br/>Information Technology Services</b>         |
| A        | 40           | Business Intelligence/Data Warehouse Program Management            |                                 | XLarge         | Active        | Q2 FY15           | Information Services   |
| A        | 41           | Migrate Advance LUCIA System to WebFocus 8.0                       |                                 | Small          | Pending       | Q1 FY15           | Information Services   |
|          | <b>42-45</b> | <b>LUHS/LUC/HSD Technology Program (4)</b>                         | <b>Not Provided for Ranking</b> | <b>XLarge</b>  | <b>Active</b> | <b>Q4 FY15</b>    | <b>Health Sciences Division/<br/>Information Technology Services</b> |
| A        | 42           | Application Access and Authentication for HSD                      |                                 | XLarge         | Active        | Q1 FY15           | Information Services   |
| A        | 43           | Identity Management Systems Strategy & Current State Documentation |                                 | Large          | Active        | Q2 FY15           | Information Services   |
| A        | 44           | LUHS/LUC/HSD Technology Program                                    |                                 | XLarge         | Active        | Q4 FY15           | Info Services: Office of VP  |
| A        | 45           | Migration of HSD/SSOM Desktops                                     |                                 | XLarge         | Active        | Q1 FY15           | Information Services   |
|          | <b>46-50</b> | <b>Information Security Program (5)</b>                            | <b>Not Provided for Ranking</b> | <b>XLarge</b>  | <b>Active</b> | <b>TBD</b>        | <b>Enterprise/Multiple</b>   |
| A        | 46           | Wireless Payment Processing  |                                 | Small          | Active        | Q1 FY15           | Office of the Treasurer  |
| A        | 47           | LOCUS Security Admin Role Audit & Review                           |                                 | Large          | Active        | Q2 FY15           | Information Technology Services                                      |
| A        | 48           | Information Security Awareness                                     |                                 | Large          | Active        | Q4 FY15           | Information Technology Services                                      |
| A        | 49           | Asset Management Program   |                                 | Large          | Pending       | TBD               | Information Technology Services                                      |
| A        | 50           | Security Program for Non-Standard Systems                          |                                 | Medium         | Pending       | TBD               | Information Technology Services                                      |

# FY15 Q1-Q2 ITS Project Prioritization Worksheet

| Pri | Row Nbr | Program Group  | Recommended Ranking<br>(Pre-Approved Recommendation) | Prior ITESC Ranking | Prior PRB Ranking        | T-Shirt Sizing | Status  | Est. Compl. (QTR) | Primary Customer               |
|-----|---------|--|--|---------------------|--------------------------|----------------|---------|-------------------|--------------------------------|
| A   | 51-64   | Business Continuity/Disaster Recovery (14)   |  | 1                   | Not provided for Ranking | Xlarge         | Active  | Q2 FY15           | Enterprise/Multiple            |
| A   | 65-69   | Maxxess (5)  | 1  | 3                   | 3                        | Xlarge         | Active  | TBD               | Enterprise/Multiple            |
| A   | 70      | 25Live Decentralized Scheduling for Multi-Purpose Rooms  | 2  | --                  | 6                        | Medium         | Active  | Q1 FY15           | Student Development Office     |
| A   | 71      | RMS Mercury Upgrade  | 3  | 4                   | 4                        | Medium         | Active  | Q2 FY15           | Residence Life                 |
| A   | 72      | Electronic Outbound Transcripts Feasibility  | 4  | 5                   | 5                        | Small          | Active  | Q1 FY15           | Registration and Records       |
| A   | 73      | Website to Self identify a Disability and Protected Veteran Status   | 5  | --                  | 12                       | Xsmall         | Active  | Q1 FY15           | Human Resources                |
| A   | 74      | Parking Permit Management and Enforcement Phase II   | 6  | 7                   | 11                       | Medium         | Active  | Q1 FY15           | Campus Transportation          |
| A   | 75      | Prospect Management Data Mart with Self Select Parking Access and Receivables Control System - Replacement | 7  | --                  | 7                        | Medium         | Pending | Q1 FY15           | Development and Donor Services |
| A   | 76      |  | 8  | 8                   | 8 (tie)                  | Large          | Active  | Q4 FY15           | Campus Transportation          |
| A   | 77      | Online Performance Management System   | 9  | 9                   | 8 (tie)                  | Medium         | Active  | Q1 FY15           | Human Resources                |
| A   | 78      | Lawson - Retirement Vendor Switch  | 10   | --                  | 8 (tie)                  | Large          | Pending | Q2 FY15           | Human Resources                |
| A   | 79      | Motor Vehicle Records Check Authorization  | 11   | --                  | 13                       | Xsmall         | Active  | Q1 FY15           | Treasurer                      |
| A   | 80      | Alumni Email for Life  | 12   | --                  | Not provided for Ranking | Medium         | Active  | Q1 FY15           | Information Services           |

# Agenda

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- Private Cloud/SharePoint Direction
  - D. Vonder Heide
- Video Repository Technology Recommendation
  - B. Montes
- ITS Project Prioritization
  - S. Malisch, J. Sibenaller
- **Technology Briefing Preview**
  - S. Malisch
- Upcoming ITESC Meeting Schedule
  - S. Malisch

# Agenda

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  - S. Malisch

# 2014 ITESC Schedule

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## **Jan. 31, 2013 – Friday, 12:00 – 2:00 PM**

- Lawson System Update – Michelle/Kevin
- Maxxess System Update – Ashley / Cheryl
- Overview of Unified Communication and Lync  
Jeff/Dan
- HSD Email Update – Dan

## **June 11, 2014 - Wednesday, 12:00-2:00 PM**

- Private Cloud/SharePoint Direction
- Video Repository Technology Recommendation
- Project Portfolio Prioritization
- Technology Briefing

## **August 14, 2014 - Thursday, 1:30-3:30 PM**

- BCDR Update
- “Near Complete” Project Updates

## **October 9, 2014 - Thursday, 1:30-3:30 PM**

- Subcommittee Reports
- Major Projects Status Reviews
- BCDR

## **December 11, 2014 - Thursday, 1:30-3:30 PM**

- Project Portfolio Prioritization
- Technology Scorecards