

IT SERVICE INVESTMENT BOARD

January 28, 2021

INFORMATION TECHNOLOGY

UNIVERSITY *of* WASHINGTON



AGENDA

- > Call to order
 - Governance Board Update
- > Student Information Systems Current State
- > Enterprise Standards: APS 2.3 Policy Revision/Update
- > UW Finance Transformation
- > UWFT Combined Quarterly Report and IT Project Portfolio Executive Summary
- > Wrap up

Governance Board Update

Aaron Powell

Vice President for UW-IT and CIO

Mike Middlebrooks

Director of Information Technology, School of Medicine
Chair, IT Service Management Board



QUESTIONS

Student Information Systems Current State

Bill Ferris

Chief Financial Officer, UW-IT

Erik Hofer

Associate Vice President for Academic Services, UW-IT



Background (1)

- > The foundation of our Student Information System (SIS) is a large, mainframe application developed at the UW over the past 40 years
- > This homebuilt application is augmented by a collection of complementary applications that are either built in-house (using a variety of technology stacks) or licensed from vendors and integrated into the ecosystem
- > A major initiative to overhaul this systems ecosystem is anticipated, but is some years off
 - Institutional capacity
 - Lack of viable solutions on the market
- > The institutional strategy to date has been to leverage the historical investments in these systems as much as possible

Background (2)

- > In recent history, the SIS has required continual development work to keep up with evolving institutional demands
 - Operations and Maintenance also has to include some degree of non-discretionary enhancement work
- > External factors contribute to operations and maintenance costs
- > Over the past several years, evolving student needs and institutional demands have led to a series of modernization projects to address major functional gaps
 - MyPlan
 - Undergraduate Admissions Modernization
 - Financial Aid Modernization
- > These modernization projects have led to increases in the costs to operate and maintain these system

Student Systems – Temporary Funding

Temporary Funding*	2015	2016	2017	2018	2019	2020	2021	Total
Undergrad Admissions Mod								
Implementation	250,000	690,000	365,500	365,500	240,000			1,911,000
Ongoing Support			240,000	240,000	240,000			720,000
Finance Aid Management Sys	-	310,000	781,474	981,474				2,072,948
MyPlan/Academic Explorer**	995,000							995,000
Total	1,245,000	1,000,000	1,386,974	1,586,974	480,000	-	-	5,698,948

*Source: Provost Reinvestment Funds (UW-IT & Enrollment Mgmt)

** In FY15, partial funding for MyPlan from STF

Provost/OPB has provided temporary funding for these modernization initiatives, with no funding for ongoing support.

Student Admin System - Budget

Permanent Funding	\$4.4 M
-GOF/DOF/TRF	
Current FY21 Budget	6.0 M
Labor & Non-Labor – (Servers, Kualii)	
Funding Gap*	-\$1.6M

Use of “Carryover Funds” related to temporary investments has covered the gap through end of FY21.

Issues

1. The need for “project capacity” remains due to continued institutional and external change
2. The current foundation of permanent funding does not cover the operations and maintenance of the SIS
 - a. Use of UW-IT Reserves
 - b. Cost saving measures
 - c. Temp dollars from partners to address some new major enhancements, but do not address (and exacerbate!) the underfunding of O&M
3. The Student Program is in the midst of a wave of retirements of long time technical staff, leading to challenges of both institutional knowledge and reduced capacity while new staff are onboarded
4. With a full transformation effort several years off, we **should** be investing in a set of projects to ensure that the SIS is operable until a replacement can be adopted



Discussion / Next Steps

- > The structural deficit is real, and UW-IT's reserves to lessen the impacts will not hold out much longer
- > How might we balance current financial constraints with downstream operational risk?
- > How might we accommodate a high rate of change and churn in the academic / student space in a period of very constrained resources?



QUESTIONS



Enterprise Standards: APS 2.3 Policy Revision/Update

Jim Phelps

Director of Enterprise Architecture & Strategy



Change to Enterprise Architecture

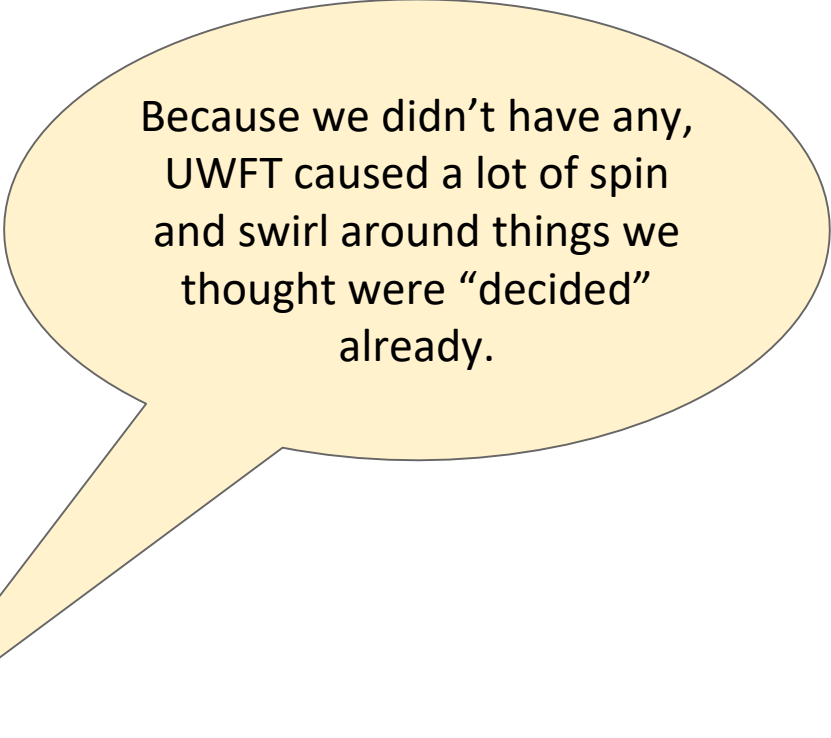
*“At the direction of the VP for UW-IT and CIO of UW, Enterprise Architecture (EA) helps stakeholders maximize the architectural value of their services, solutions, data, processes, or organizations **on behalf of the UW** in an environment of constant change. The EA team is accountable to the **broad, long-term interests of the UW** and advocates for decisions that make the **most of the UW’s investments**. The Director of EA will arbitrate architectural tradeoffs where they occur.”*

The scope of the standards are meant to be UW-wide services and technologies not just UW-IT services.

Agenda

- > Two example case studies
- > Why set standards – the goals of these standards
- > What standards are ***not*** meant to do
- > Approval of next steps/changes to APS 2.3

UWFT – Deloitte asking...



Because we didn't have any, UWFT caused a lot of spin and swirl around things we thought were "decided" already.

“Where are the standards that we need to comply with?”

SMB Recommendations – Feb. 2020

SMB [Recommendations from 2020](#) include things that look like standards

“The top seven IT Service Management Board recommendations are:

1. Enterprise Service Management investment
2. Standardize and consolidate Admissions applications and review systems
3. Implement Student Database improvements and application interface
4. Develop a centralized online software registry
5. Develop and publish guidance for “pre-qualified” Customer Relationship Management systems
6. Promote and support the implementation of 25Live for space scheduling and management
7. Adopt Zoom as the preferred campus-wide solution for video conferencing and collaboration”

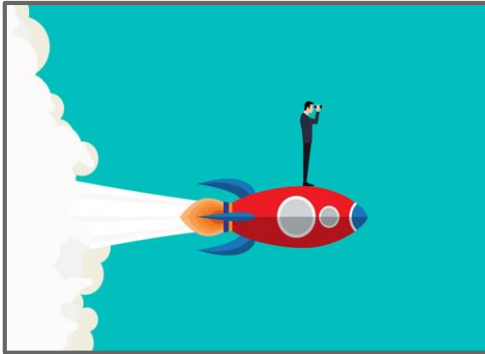
SMB: Enterprise Service Management Investment

*“The UW Connect Service is now utilized by **25 UW Schools/units** including, the Integrated Service Center, Foster School of Business, Health Sciences Shared Service Center, and UW Bothell. Some units use the service to manage local IT support as well as local finance and HR support. Along with this success, there is a recognized need for continuing to advance a **UW-wide Service Management** approach supported by shared practices, templates, and tools. ... An Enterprise Service Management Investment to minimize this barrier would **support scale and repeatable processes and create a common platform facilitating collaboration and service delivery across organizational boundaries.**”*

SMB: 25Live

*“Implementing 25Live will improve **efficiency at multiple levels in multiple offices across all three campuses**. Instead of a chaotic playing field, it provides a single source for scheduling/room assignment needs. Additionally, it can **reduce the cost spent by multiple offices implementing multiple solutions**. UW-Tacoma has already seen that happen with a nearly complete implementation across its campus. By implementing 25Live as an enterprise-wide solution, **users looking for spaces could find them in a single online location without having to search all around campus.**”*

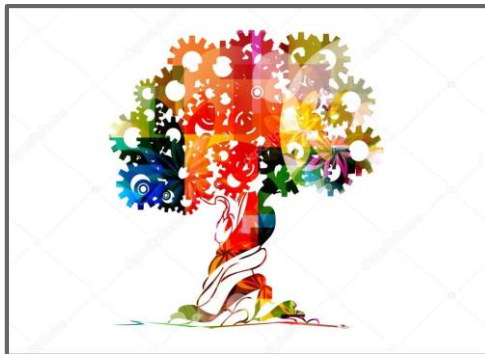
Accelerate Decisions



Improve User Experience



Good Stewards



Building a Community



Good Peer Examples

- > University of Wisconsin - Madison
- > University of Michigan
- > [Harvard University](#)
- > Miami University
- > [Penn State University](#)

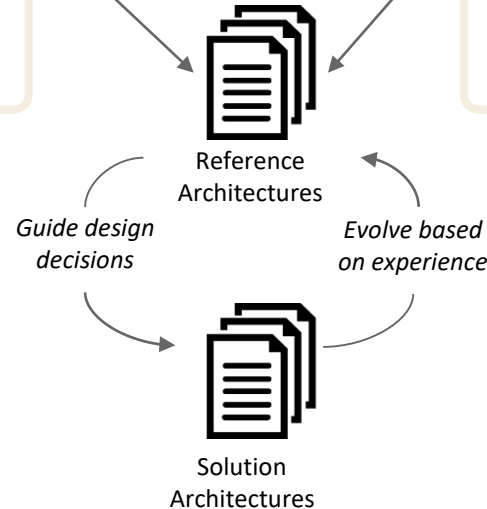
How will standards be developed?

Based on best practices

- High level approaches to technology, applications, data, and business architecture
- From experience in higher education, IT, and related industries

Community sourced

- Developed by contributors at the UW
- Grounded in existing practices and feasible goals
- Facilitated by the EA team



Why? What is my (EA) goal for this?

- > **Decision Making** - Reduce the noise of false choices, reduce the tyranny of choice. Accelerate decision making where the answer is obvious.
- > **Reducing Complexity / Technical Debt** - using a one tool to solve the same problem is better than using and managing many tools.
- > **Leveraging Investment** - both in technology and staff / training.
- > **Security, Resiliency, etc.** - Easier to manage one solution such that it meets the “ities”* than many solutions.

[Steven Carmody](#), IT Architect at Brown University and friend of R.L. Bob, introduced me to the idea of “The Ities” way back in 2002.

What is this NOT meant to do?

- > **Stifle Innovation** - we will still want to pilot new solutions and new tools. We will need a good way of doing those pilots. **Edge - Leverage - Core** is key.
- > **Force misfit solutions** - if the standard doesn't fit, then let's find a solution. Try the standard first. See if it meets the business needs before buying something else.
- > **Command and Control local decisions** - it should help local decisions move faster if step one is obvious - *try the solution, if it works, great we're done.*

What we don't know:

- > For any specific standard, we don't know what the funding implication would be.
- > For any specific standard, we don't know what the enforcement level would be (should vs. must). We do think there would always be exemptions.

Questions or comments about the intent and vision?

Next Step: Update APS 2.3

APS 2.3 - ***needs to be updated*** - mentions Jeff Scott's role draft changes

Change:

*“The Vice President for UW Information Technology and Chief Information Officer (Vice President for UW-IT and CIO) has delegated authority in [Executive Order No. 63](#) to provide leadership, guidance, ~~and~~ oversight, **and leads standards work** for all aspects of IT investments. In addition, the University's IT governance boards have oversight responsibilities for IT investments.”*

Change:

*“Note: The office of the State CIO may from time to time make changes to the policies, **standards** and requirements for IT project approvals. Any subsequent changes will be reflected as updates in the UW-IT Investment Procedures, and those updates will prevail over the requirements defined in this policy.”*

Change:

Accordingly, every University information technology (IT) acquisition and project must comply with:

- *All federal and state legal requirements;*
- *The rules and policies of the state of Washington including the state's Chief Information Officer (State CIO), the University's Board of Regents, and any relevant funding agencies;*
- *The provisions of this policy;*
- *The University of Washington Information Technology (UW-IT) Investment Procedures; and*
- ***Standard IT Solutions.***

APS 2.3

7. Exemptions from University Approval and Oversight

An acquisition and/or project may be exempt from University approval and oversight (small project exemption) when that acquisition and/or project is under a certain cost (initially \$1 million in total project cost, and under \$2.5 million in system life cost), is a Level 1 project, and the impact is within a single department. **These projects should still align with and leverage the Standard IT Solutions where feasible.**

A project or acquisition does not qualify for this small project exemption if any of the following is true:

- Requires use of central administrative systems or resources, including, but not limited to, new data interfaces or integrations
- **Is in conflict with a Standard IT Solution (i.e. would replace or replicate the Standard IT Solution)**

Final Questions

- > Other questions or comments?
- > Do you support drafting changes to APS 2.3 to insert setting of IT Standards as part of the CIO role?
- > Do you support this direction and approach to standards?

Thank You.

Questions or Comments: phelps@uw.edu

UW Finance Transformation - Discussion

Ed Loftus

Assistant Vice President for Finance Transformation



QUESTIONS

UWFT Combined Quarterly Report and IT Project Portfolio Executive Summary

Erik Lundberg

Assistant Vice President, Research Computing & Strategy,
UW-IT



UW FT Combined Program

Executive Summary - December 31, 2020

Project	Sponsor	Organization	Overall Risk & Project Health *	Budget Rating	Schedule Rating	Scope Rating	Resource Rating	Issues Rating	Actual Cost	Budget
Finance Transformation Combined Effort	–	UW	(A) <i>New</i>						\$60,499,000	\$269,246,000
UW Finance Transformation Implementation	Mark Richards	Core Project	(B)						\$56,019,000	\$219,874,000
Collab Partner: IT Finance	Aaron Powell	UW-IT	<i>First</i>						\$2,733,000	\$20,619,000
Collab Partner: ORIS	Mary Lidstrom	Office of Research	<i>First</i>						\$659,000	\$13,511,000
Collab Partner: UW Medicine	Jacque Cabe Eric Neil	UW Medicine	<i>First</i>						\$848,000	\$4,088,000
Collab Partner: Finance Readiness Program	Ann Anderson	UW Enterprise Services	<i>First</i>						\$240,000	\$4,020,000
Unit Readiness	<i>Overall readiness of academic, medicine and administrative units</i>		(C) <i>New</i>	<i>Piloting a unit readiness dashboard process that leverages unit readiness leads to track and status unit-level readiness</i>					\$0	\$0
Side System Remediation	<i>Overall status outside the Core Implementation Program and Collaboration Partners</i>		(C) <i>New</i>	<i>Piloting a resource allocation process to engage units in determining scope of work and effort required for remediation efforts, at unit level</i>					\$0	\$7,134,000
5 separate projects under one Combined Effort, plus 2 areas of work across the campus									\$60.5M	\$269.2M

Notes:













- (A) The UW FT Integrated Program is a composite of the core UW FT Program, and the four Collaboration Partner Projects; with ratings computed as the average of all five constituent projects; except that Schedule is 'maximum' of others.
- (B) The core UW FT Implementation Project status will be shown in this *Combined Program Summary*, along with the four Collaboration Partner projects. The status of the 'FT Combined' effort will be shown on the main Quarterly Summary Report. Cost figures for the core UW FT Implementation Project shown here are exclusive of cost and budget for the four Collaboration Partners and other remediation efforts, but do include the initial Readiness Phase. All cost and budget figures are as of Oct 30, 2020.
- (C) Engagement with departments and units outside the core program and Collaboration Partners is beginning. Budget is a placeholder value.




- Improvement over previous quarter
- Setback from previous quarter




* Project Health Key

	Project is on time, on budget, and within defined scope, with minimal issues. Overall Risk Rating of 5-10 is Green
	Changes to scope, budget, or resources have placed project at some risk. Project has the potential for delays, cost or scope changes. Overall Risk Rating of 11-17 is Yellow
	Major changes to scope, budget or resources have placed project at critical risk. One or more of the following must change in order to proceed: project schedule, resources, budget, scope. Overall Risk Rating of 18-25 is Red

(over for FT Workstream status breakdown)

UW FT Workstream Status - December 31, 2020				
FT Workstream	Director	Overall Status †	Dependencies ‡	Statis - as of early December, 2020
Program Operations	Leslie Jones			The core program team has worked with the collaboration partners to build a preliminary version of an integrated plan. However, the planning process has highlighted additional areas where increased levels of detail are needed to inform continued integrated planning efforts.
OCM	Jeff Bishop			Currently on track with all deliverables.
Design	Christina Mercer			On track with business process development, FDM maturity, and has an active configuration tenant. Confirmation sessions were completed on time. Collaboration partner organizations are concerned that further business process/FDM maturity is needed in order for integrated planning work to continue.
Operating Model	Libby Hartman			Over the last quarter, UW leadership asked to review additional models for post go-live operations, resulting in new work around the design of the operating model and associated end-to-end business processes. Given the new model development, the team is on track. However, this has pushed out the overall design completion by a quarter.
Technical	Manoj Joshi			While there has been significant progress made in the Integrations space, there are concerns regarding Data Conversion, scope of system remediation work, and overall data management within the full UW enterprise. The technical complexity within the systems landscape at the UW is high, with correlated high levels of dependency from units and partners. The coming quarter will focus on driving higher levels of clarity in the technical space.
Alignment	Paula Ross			Work on HRP Remediation is well underway and on track. There have been delays in progress around reporting inventory and reporting strategy development. Additionally, there is new concern regarding the program's ability to achieve appropriate levels of testing given the complex interactions of systems within the UW. Test strategy development is underway.

† Workstream Overall Status Key	
	Workstream is on track to complete current Phase, with minimal issues or impacts on budget, scope, schedule or resources. Or there may be some risk, but it is being addressed and mitigated.
	Workstream for current Phase is at substantial risk to fully complete scope on schedule with current budget and resources.
	Workstream is at critica risk of not completing current Phase scope or deliverables on schedule.

‡ Workstream Dependencies Key	
	Workstream is on track to provide information to other dependent partner projects to design their solution and deliver on schedule.
	Workstream is at substantial risk of providing information to other dependent partner projects in time to design their solution and deliver on schedule.
	Workstream is at critical risk for providing information to other dependent partner projects in time to design their solution and deliver on schedule.

UW Enterprise IT Projects

Project Portfolio Executive Summary - December 31, 2020

Project	Sponsor	Oversight Level *	Overall Risk & Project Health *	Budget Rating	Schedule Rating	Scope Rating	Resource Rating	Issues Rating	Actual Cost	Budget
Finance Transformation Combined Effort	–	3 - UW	● (A)	●	●	●	●	●	\$60,499,000	\$269,246,000
Destination: One	Tim Dellit	3 - UW	↓ (B)	↓	●	●	●	●	\$128,149,000	\$159,500,000
Advancement CRM Replacement	Julie Brown Dan Peterson	3 - OCIO	●	●	●	●	●	●	\$2,358,000	\$4,000,000
Clinical Trials Management System	John Slattery	2 - UW	● (B)	●	●	●	●	●	\$10,364,000	\$15,704,000
UWM Data Analytics Warehouse	Adam Wilcox	2 - UW	↓ (B)	↑	●	↓	↓	●	\$2,004,000	\$5,172,000
Continuum Online Apps	Marlon Buchanan	2-UW	● <i>pause</i>	●	●	●	●	●	\$213,000	\$600,000
Campus Space Management Modernization	Tim Rhoads	2- UW	↓	●	↓	●	●	●	\$220,000	\$330,000
MSIM Online Program Management	Anind Dey	2 - UW	↑	↑	●	●	●	●	\$59,000	\$216,000
Transportation System Improvement Project	John Chapman	1 - UW	● <i>Final</i>	●	●	●	●	●	\$3,301,000	\$3,401,000
Finance E-Commerce/Touchnet	Brian McCartan	1 - UW	↓ <i>Final</i>	●	↓	●	↑	●	\$243,000	\$1,000,000
Public Records	Ann Anderson	1 - UW	↑ (B)	●	↑	●	↑	↑	\$379,000	\$887,000
EvanTEL	Alison Cullen	1 - UW	● <i>New</i>	●	●	●	●	●	\$15,000	\$100,000
Gradescope	Aaron Timss	1 - UW	●	●	●	●	●	●	\$58,000	\$85,000
Audit/Compliance of Unstructured Network Data	Xiao-Ping Chen	1 - UW	●	●	●	●	●	●	\$59,000	\$60,000



14 projects

\$207.9M	\$460.3M
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Notes:

(A) Details of the UWFT Core Project and Collaboration Partners are shown on a separate "Combined FT" Summary.

(B) COVID-19 has impacted four projects: D:1, DAWG, CTMS (all three due to resourced needed during peak of current surge), and Public Records (due to impact on vendor technical resources).

Program Operations	Executive Leadership	Major Projects Interdependencies Assessment		Note: ISC and UW-IT resources are tracked within the major projects' budgets
Integrated Service Center	Ann Anderson	UW Enterprise		<ul style="list-style-type: none"> • COVID-19 – ISC team members continue with support of COVID-19 related activities (e.g. benefit eligibility, payroll data corrections, over-payment monitoring, unemployment benefit verification, attestations, etc.) with some of the workarounds requiring manual actions which impacts our available resources. On standby for FFCRA-related configuration rollback. • UWNC/CUMG Project - Successful 1/1/21 go-live. Currently preparing for, and monitoring, first payroll activities. Many thanks to the broad team. • Financial Transformation - Key open questions around scope, schedule and budget with impacts to the ISC to be determined. • Reporting Adoption Project - A customer-focused, customer-driven project to improve functionality, efficiency and ease of using Workday HCM Reporting. Twenty two new reports developed, 53 existing reports being modified. This project has focused on the customer experience and includes customer testing and peer demos. Expected completion end of March. • Calendar Year End - An annual project to prepare and deliver tax accounting to university employees and benefit recipients in accordance with state and federal tax requirements. Year-end edit integrations were run, reviewed, and edited by ISC and downstream partners. W-2 data reconciled for mid-January publishing. • Open Enrollment for 2021 - Total submissions increased ~300 from last year, with additional ~3,000 eligible employees for a total of 14,634 submissions out of 36,597 eligible employees (40% submitted events). Introduced a new AWS phone system – customer callback functionality, improved metrics tracking, decreased dropped calls, reduced overall call volume (less need to hang up and call back later). 93% success rate with proactive outreach to employees wanting to add dependents – historically a pain point for employees.
UW-IT	Aaron Powell	UW Enterprise		<p>Critical operations in support of remote teaching, learning and research remain top priorities.</p> <ul style="list-style-type: none"> • UWNC integration project went live as planned on 1/1/21. • UWFT - For a third quarter, FT consuming significant capacity across all UW-IT that is not sustainable for the staff. Integrated schedule produced with FT and partners this quarter reveals significant amount of work likely to extend beyond current go-live timeline. UW-IT now focused on the work that needs to be done to refine estimates, schedules and budgets. Key open questions around scope and requirements remaining with FT. • ADV CRM - UW-IT development work completed by 11/30 as per MOU. Testing work currently being scoped and scheduled.

Completed Projects - Mar 31, 2020




Project	Sponsor	Oversight Level*	Go Live Date	Project Completion Date	Total Project Cost (\$K)
LQI	Susan Camber	2-UW		Aug, 2020	\$459,424

UW Enterprise IT Projects

* Oversight Level Key

1. Overseen by UW management and staff.
Requires OCIO approval and reporting if over delegated authority.
2. OCIO approval required and regular project reporting.
Quality Assurance (QA) reporting required, maybe internal or external.
OCIO may recommend project to be full Technology Services Board (TSB) oversight.
3. High severity and/or high risk, subject to full TSB oversight, which includes TSB approval, written reports to the TSB, periodic status reports to the TSB by the agency director and staff, and submission of other reports as directed by the TSB.
External QA reporting required.

* Project Health Key

-  Project is on time, on budget, and within defined scope, with minimal issues.
Overall Risk Rating of 5-10 is Green
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Project has the potential for delays, cost or scope changes.
Overall Risk Rating of 11-17 is Yellow
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Wrap Up



QUESTIONS AND DISCUSSION

INFORMATION TECHNOLOGY

UNIVERSITY *of* WASHINGTON

