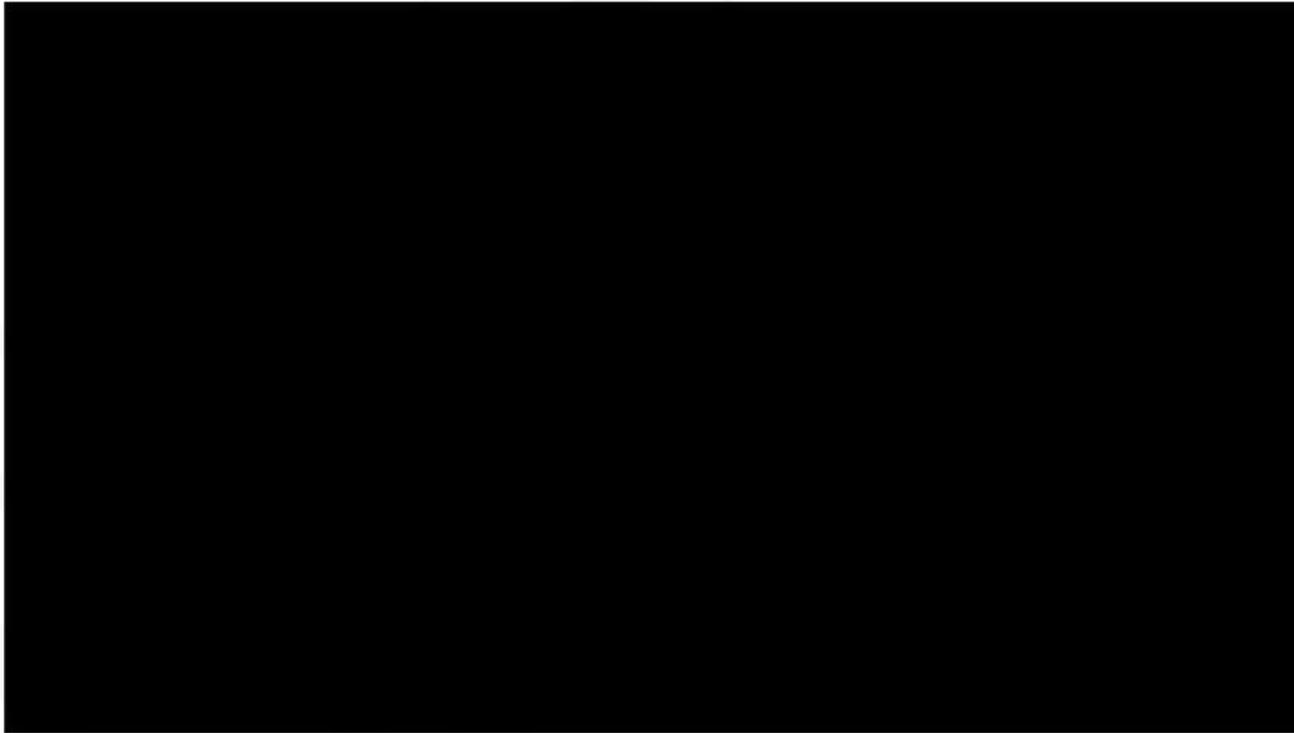


Lean Bench at Work: Bringing Process Improvement to ESR



Prachi Raheja and Shawn Munro, Lean Bench Managers

67 to 3...



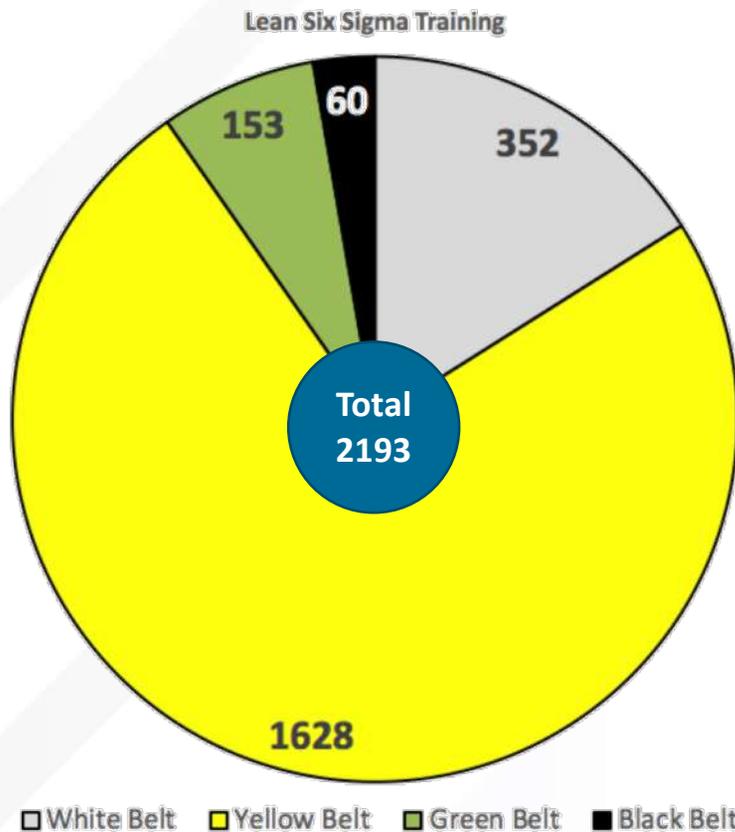
ESR Projects

- The Enterprise Systems Renewal (ESR) program examines business systems used across campus.
- ESR projects address business process and technology needs in key areas including Finance, Academic Administration, Research Administration and Student Analytics.

Program Status		ESR Enterprise Systems Renewal	
2017	2018	2019	2020
DATA AND ANALYTICS			
Activity Hubs: Advancement & Alumni [P] Employee [I] Facilities [I] Financial [I] Research [I] Student [L]			
FACILITIES INFORMATION MANAGEMENT 			
Real Estate [L] Space Management [I]			
FINANCIAL INFORMATION SYSTEM 			
Oracle Financial System [I]			
FACULTY SYSTEMS 			
Academic Professional Review AP Next (Interfolio) [I] Outside Activities Tracking System [I]			
HUMAN RESOURCES AND PAYROLL			
Staff Performance Appraisals [L] UCPath Human Capital Management [I]			
RESEARCH ADMINISTRATION 			
Kuali Conflict of Interest [I] Kuali Protocols [I] Kuali Research Proposal and Rewards [I]			
STUDENT SYSTEM 			
Degree Audit Reporting System (uAchieve) [L] Student Information System (SIS) [P] Student Financial Aid System (ProSAM) [L] Undergraduate Admissions Project (Slate) [L]			
SUPPORTING TECHNOLOGY & INFRASTRUCTURE			
Enterprise Identity Management (EIM) [P] Support Center of Excellence (HyperCare) [P] Enterprise Document Management System (OnBase) [I]			
[P] Pre-Implementation [I] Implementation [L] System is Live			

Updated July 19, 2019

University-wide adoption of Lean Six Sigma



Lean Bench Members

▼ 2019 Cohort

- Valeria Estrada, Biorepository and Tissue Technology Shared Resource
- Manisha Kanodia, IT Services, Academic Technology
- Adriana Long, Academic Resource Center - VCHS Central Services
- Michael Salas, Housing Dining Hospitality
- Ana Portlock, BFS, Integrated Procure to Pay Solutions (IPPS)
- Harrison Watts, IT Services, Research Information Services

OSI Partnership Team

- Traci Carpenter
- Lynette Essey
- Kristin Kielich
- Stephen Larkin
- Antonio Nava
- Allorah Pradenas
- Ricardo Santiago
- Bradley Sollenberger

▼ 2018 Cohort

- Marina Bogdanova, Housing Dining Hospitality
- Stasi Chase, Policy & Records Administration
- Marisol Christinson, Electronic Research Administration Program
- Justin Clow, Information Technology Services
- Jennifer Leich, Office of Contract and Grants Administration
- Kenny Li, Information Technology Services
- Adriana Long, Academic Resource Center - VCHS Central Services
- Linda Luna, Integrated Procure-to-Pay Solutions
- Rosemarie Mirano-Del Mar, Program Management and Business Integration
- Michael Salas, Housing Dining Hospitality

26 staff
from
13 depts

Lean Bench on ESR Landscape



ESR Program Level Support

- Program management
- Enterprise Architecture
- Strategic Organizational Change Management
- Program Communications
- Expert sourcing facilitation
- Program Sponsorship
- Program Governance
- Business Process Improvement



Project Team

- Project Sponsorship
- Project Governance
- Project Escalation
- Business Process Lead
- Configuration Lead
- Subject Matter Experts
- Solution Architect
- Project Manager
- Change Lead
- Change Practitioner
- Change Champion

Project Team



Project Team



Project Team



Project Team



Lean Bench Standards - Pre-requisites

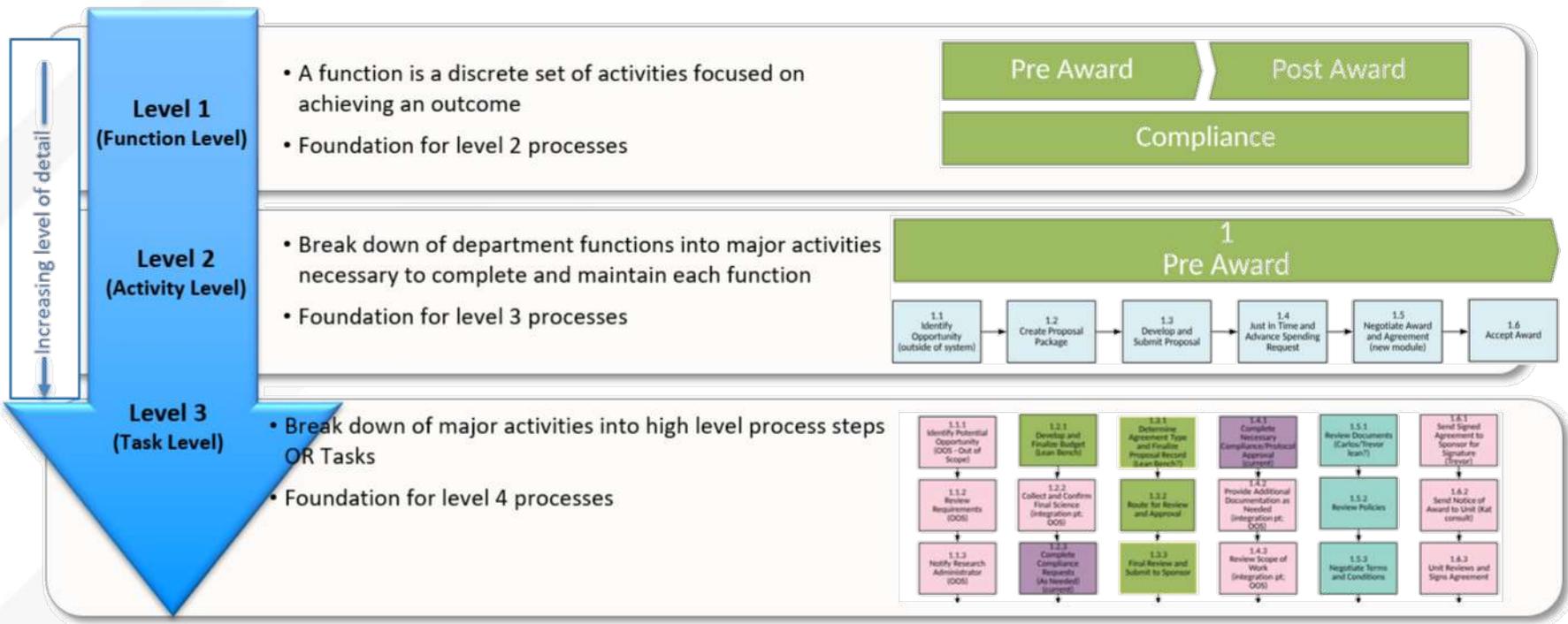
- Project scope
- Governance structure defined (part of OCM plan)
- Sponsorship model defined
- Escalation path identified
- Project roles & responsibilities assigned
- Project leads' understanding and buy-in of process improvement activities



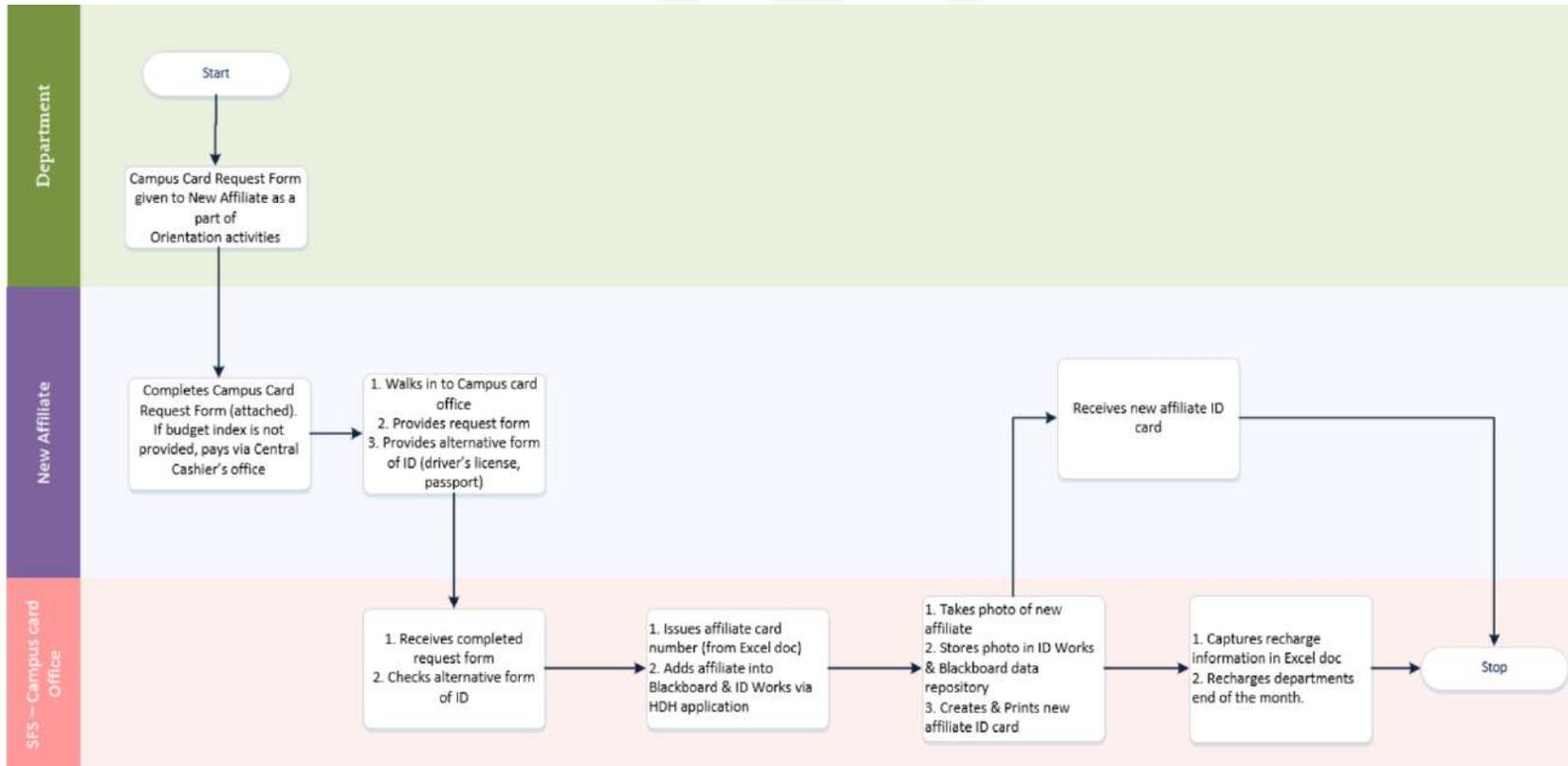
Process Landscape

DEFINITION

EXAMPLE



Current State Map



Lean Bench & ESR Process Improvement Efforts

Process Landscaped	# Processes Identified	# Prioritized for deep dive
Research	64	30
Academic Personnel	58	56
Space Management	18	11
Financial	252	8
Student	60	Prioritization due Nov 2019
OneCard*	24	24

Process
Landscape
mapped out for
476+ processes

Processes prioritized
for deep dives
129+ processes

University-wide Process Landscape snapshots

Year 1	Student			
Year 2	Pre-Enrollment	Enrollment	Post-Enrollment	Student Finance
Description	<ul style="list-style-type: none"> Outreach & Recruitment Application 	<ul style="list-style-type: none"> Enroll Tuition & Fees Instruction 	<ul style="list-style-type: none"> Alumni Translations Alumni Engagements 	<ul style="list-style-type: none"> Financial Package Enrollment Projections

Year 1	Teaching and Learning		
Year 2	Curriculum	Teach	Learn
Description	<ul style="list-style-type: none"> Curriculum Requirements Course Management 	<ul style="list-style-type: none"> Class setup Class Delivery & Support 	<ul style="list-style-type: none"> Academic Advising Learning Support

Year 1	Research			
Year 2	Pre-award	Post-award	Reporting	Compliance
Description	<ul style="list-style-type: none"> Seek Funding Research Setup 	<ul style="list-style-type: none"> Execute Research Track Research Data 	<ul style="list-style-type: none"> Results/Analysis Publish & Share 	<ul style="list-style-type: none"> Subjects Export Control COI

Year 1	Academic Personnel					
Year 2	Recruit & Onboard	Appointment	File Review	Outside Activity	Compensation	Leaves
Description	<ul style="list-style-type: none"> Recruitment Visas Voting Unit IS 	<ul style="list-style-type: none"> Administrative Role Appointment New Appointments 	<ul style="list-style-type: none"> Merit & Approval Promotion Tenure Endowed Chairs 	<ul style="list-style-type: none"> Conflict of Interest OATS 	<ul style="list-style-type: none"> FSEHELP Overload Teaching OSCCP HSOP 	<ul style="list-style-type: none"> Leaves with or without pay Sabbatical Family Medical Leaves

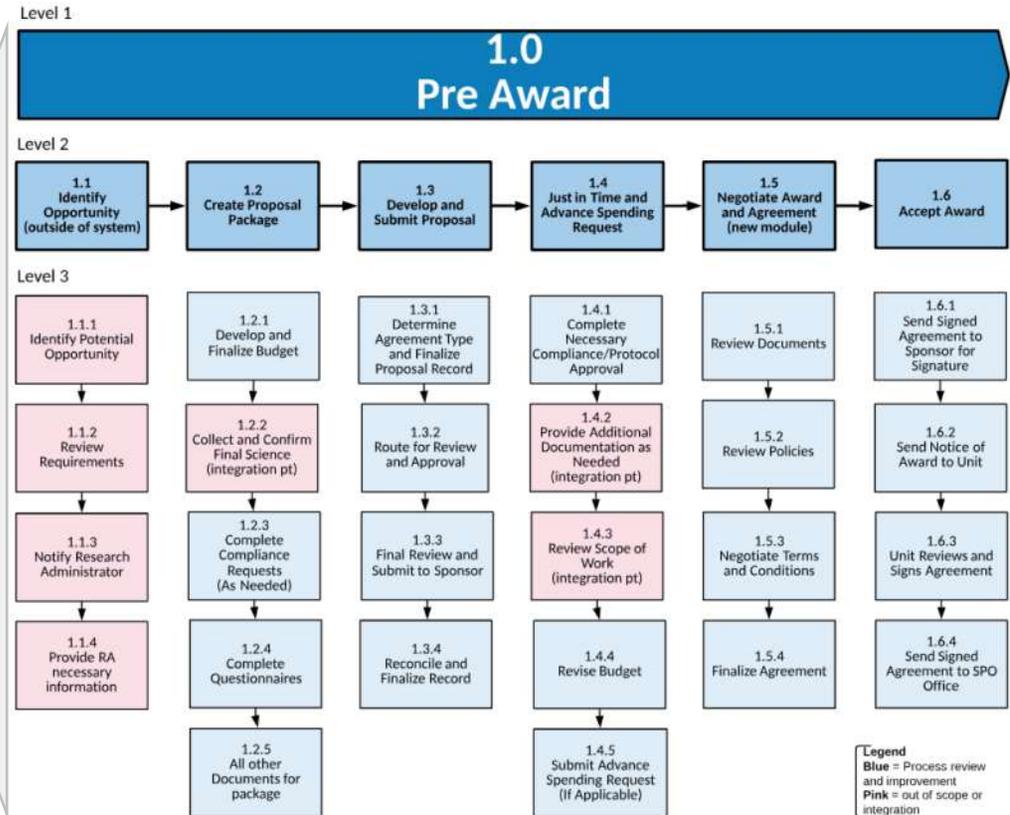
Year 1	Financial Management							
Year 2	Budget & Planning	Procure to Pay	Accounts Receivable & Billing	Cash Management	Fixed Assets	Investments	Financial Management	Internal Control
Description	<ul style="list-style-type: none"> Budget Creation Budget Review Resource Allocations 	<ul style="list-style-type: none"> Purchasing Goods or Services Travel Accounting 	<ul style="list-style-type: none"> AP Management Collections Customer Account Management 	<ul style="list-style-type: none"> Receive Payments Issue Receipts Bank Account Balancing 	<ul style="list-style-type: none"> Asset Acquisition Asset Tracking and Retirements Asset Reporting 	<ul style="list-style-type: none"> Foundation Investment Management 	<ul style="list-style-type: none"> Projects and Award Setup and Management Cost Reporting 	<ul style="list-style-type: none"> Risk Assessment Control Activities Monitoring

Year 1	Human Resources				
Year 2	Recruitment	Compensation	Benefits	Performance Management	Work Accommodations
Description	<ul style="list-style-type: none"> Attract & Select Other & Onboard 	<ul style="list-style-type: none"> Comp & Merit Planning Timekeeping & Payroll 	<ul style="list-style-type: none"> Benefits Management Retirement 	<ul style="list-style-type: none"> Performance Evaluations Talent Development Employee Relations Labor Relations 	<ul style="list-style-type: none"> Flexible Work Arrangements Disability Accommodations

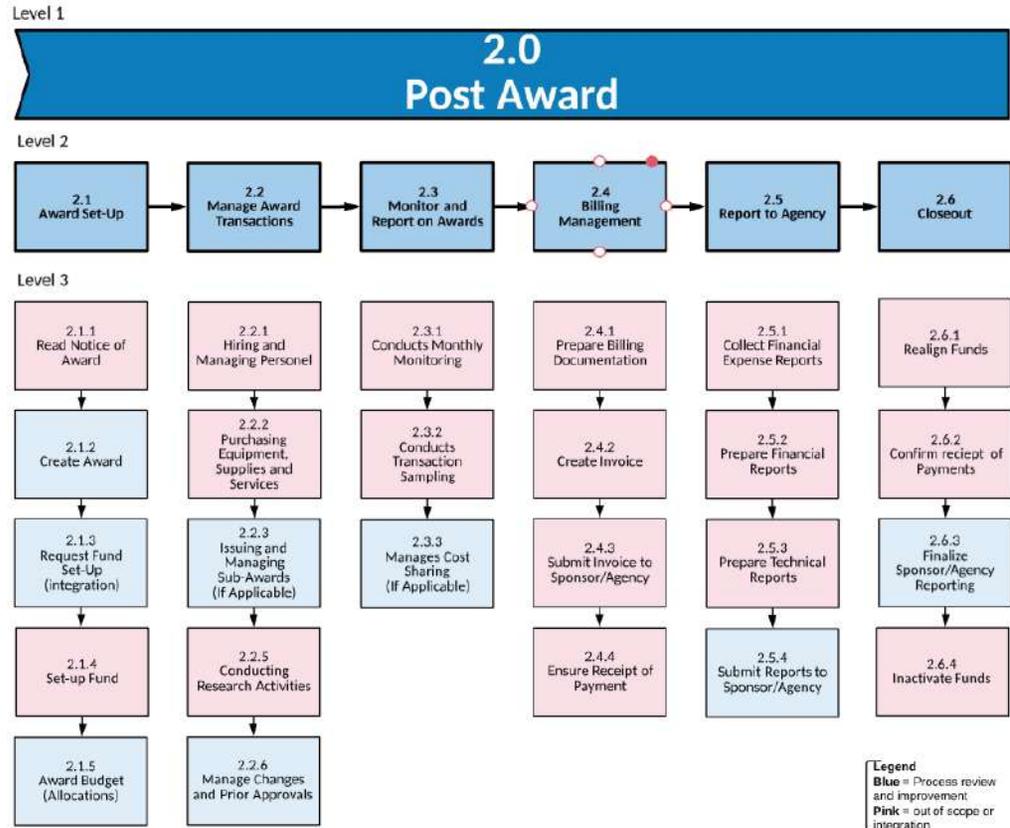
Year 1	Organization and Campus Services							
Year 2	University Outreach	Organizational	Risk Management	Safety	Information Management	Housing, Dining, and Hospitality	Ancillary	Events
Description	<ul style="list-style-type: none"> Brand Management Community Engagement Fundraising 	<ul style="list-style-type: none"> Process Excellence Change Management Program Review 	<ul style="list-style-type: none"> Legal Azuli Compliance 	<ul style="list-style-type: none"> Police Fire EH&S 	<ul style="list-style-type: none"> Solution Management Analysis & Reporting Library Services Information Technology 	<ul style="list-style-type: none"> Housing Dining Hospitality 	<ul style="list-style-type: none"> One Card Passport Office 	<ul style="list-style-type: none"> Planning Marketing Event Management

Year 1	Facilities Management and Capital Projects			
Year 2	Space Management	Build	Operate and Maintain	Real Estate
Description	<ul style="list-style-type: none"> Space Assignments Space Use Agreements Emergency Procedures 	<ul style="list-style-type: none"> New Construction Renovations 	<ul style="list-style-type: none"> Equipment Work Requests Signage 	<ul style="list-style-type: none"> Purchase Lease

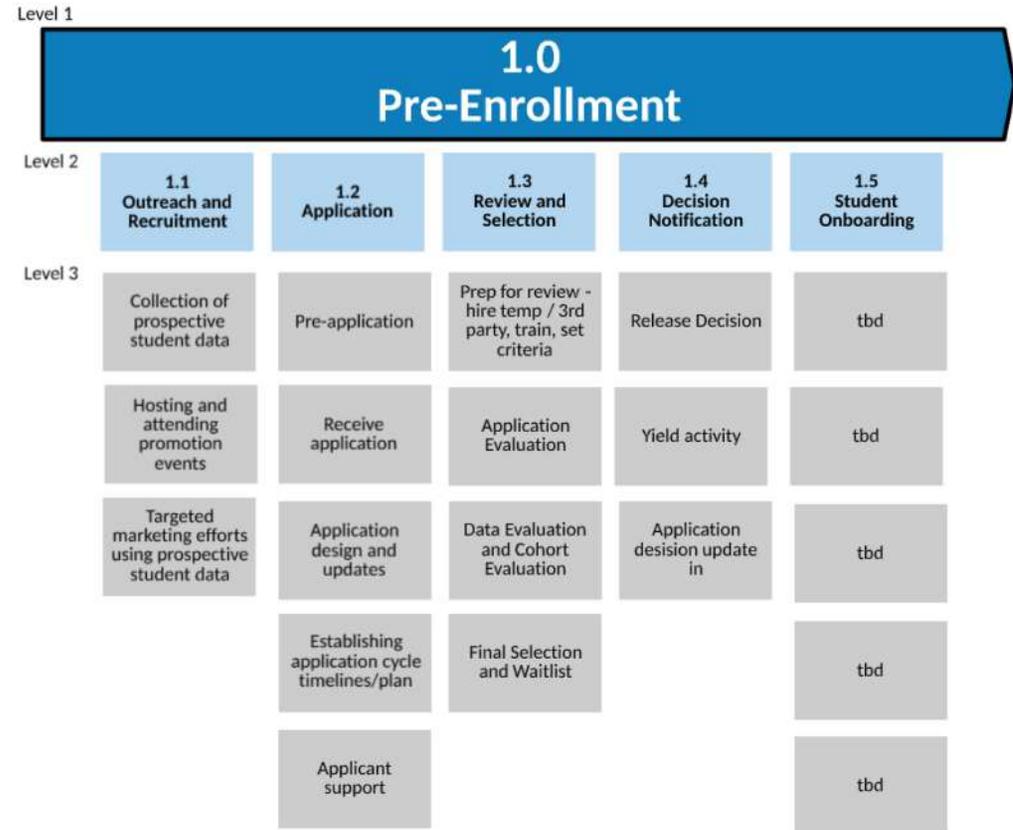
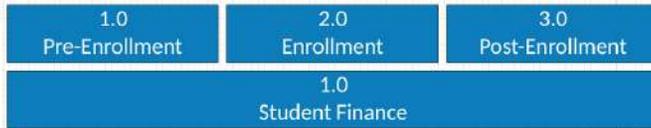
Research Administration



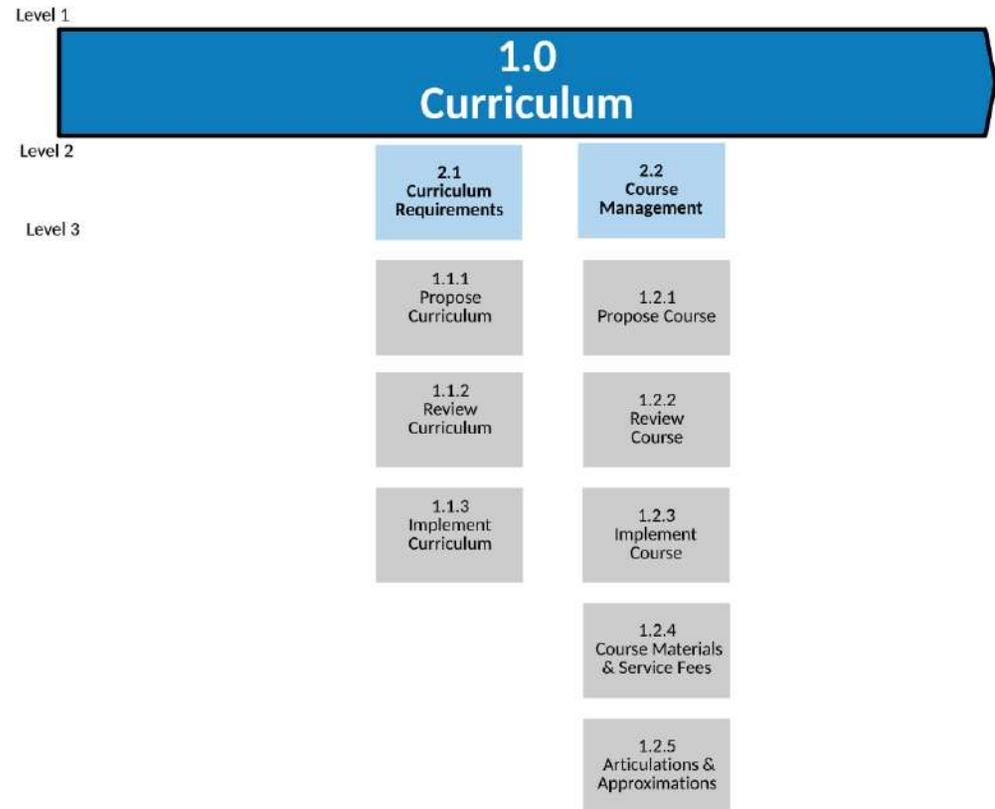
Research Administration



Student Administration



Teaching and Learning



Teaching and Learning



Level 1



Level 2



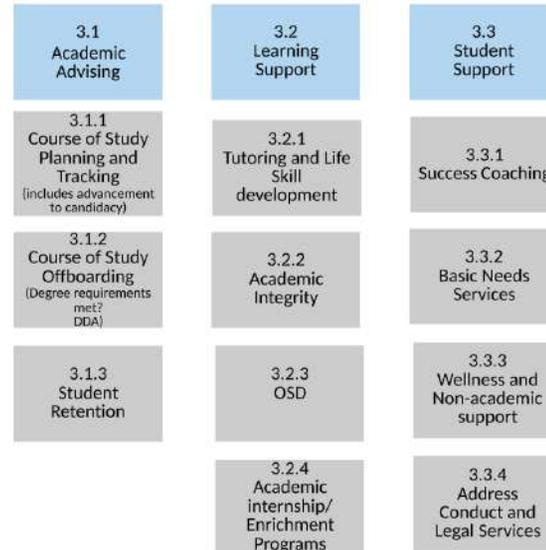
Teaching and Learning



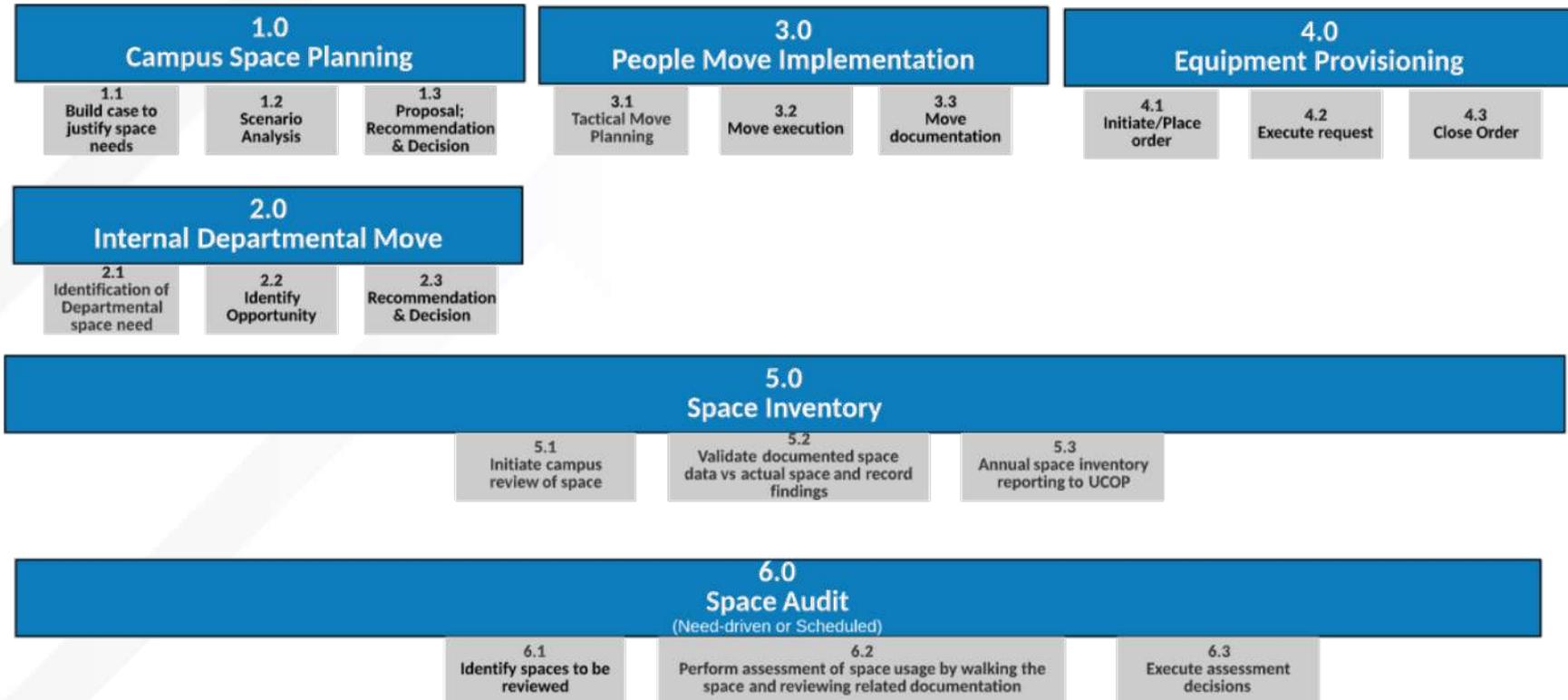
Level 1



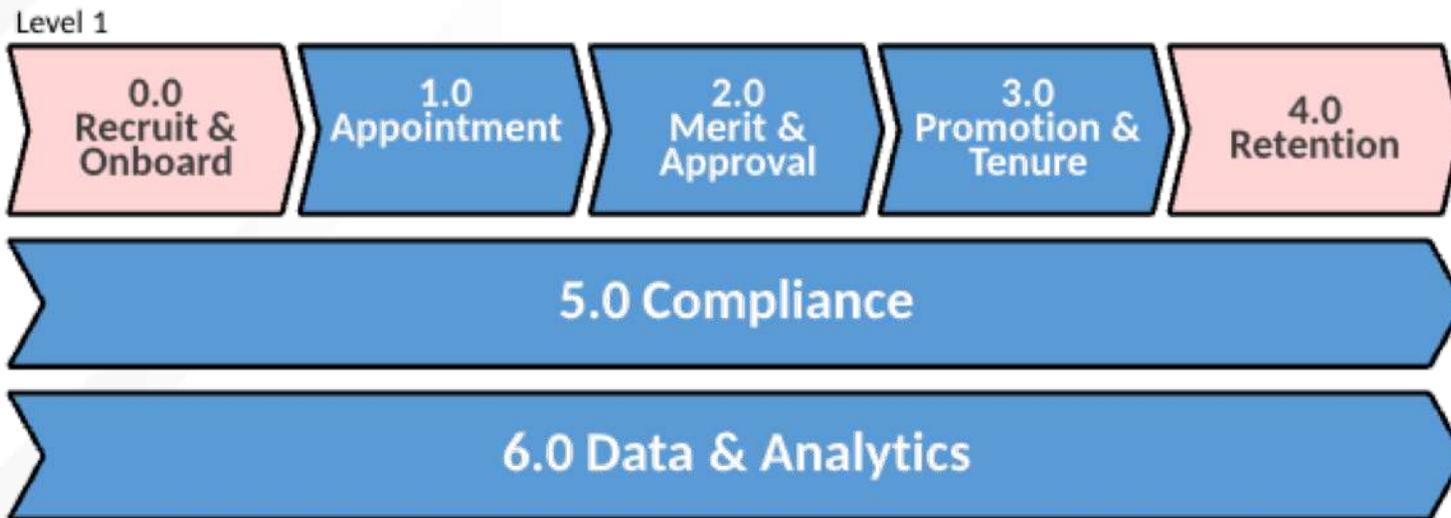
Level 2



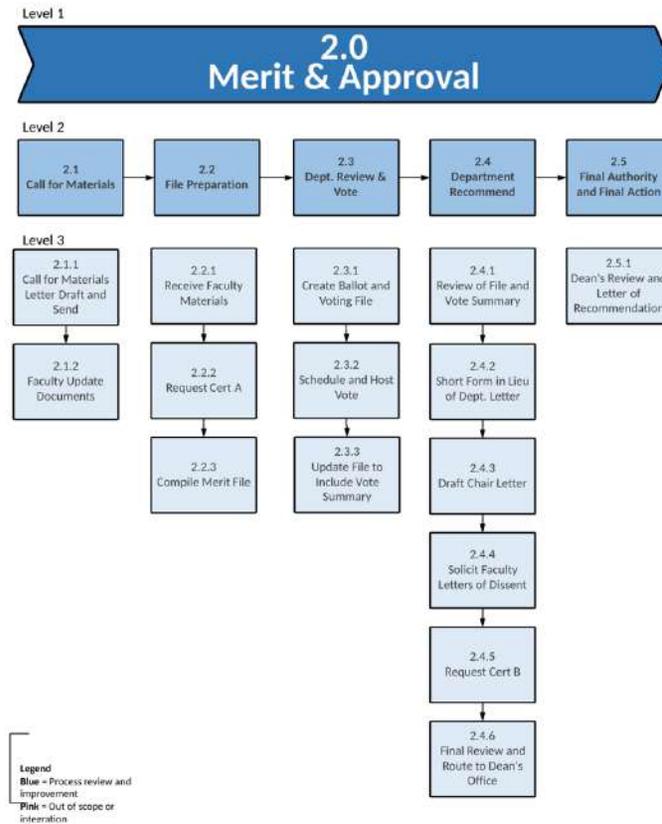
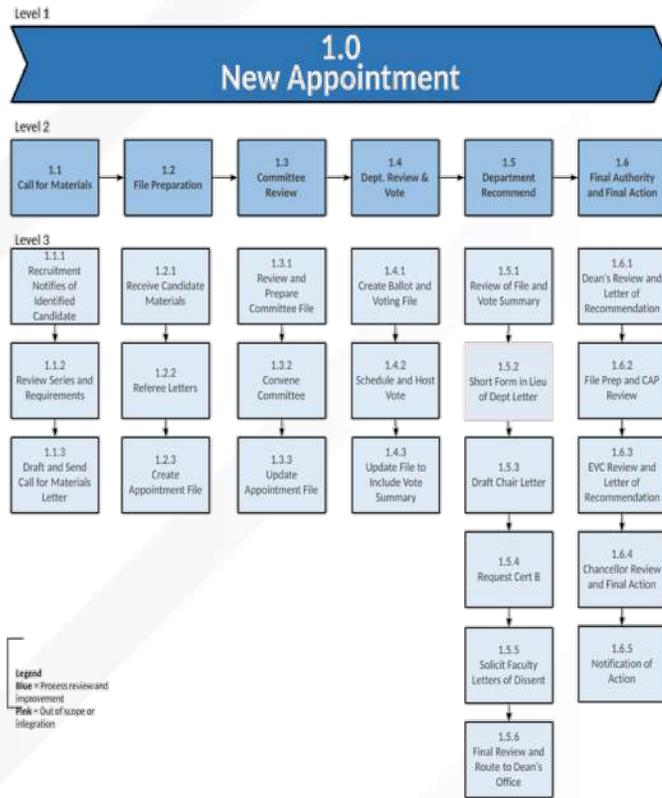
Space Management



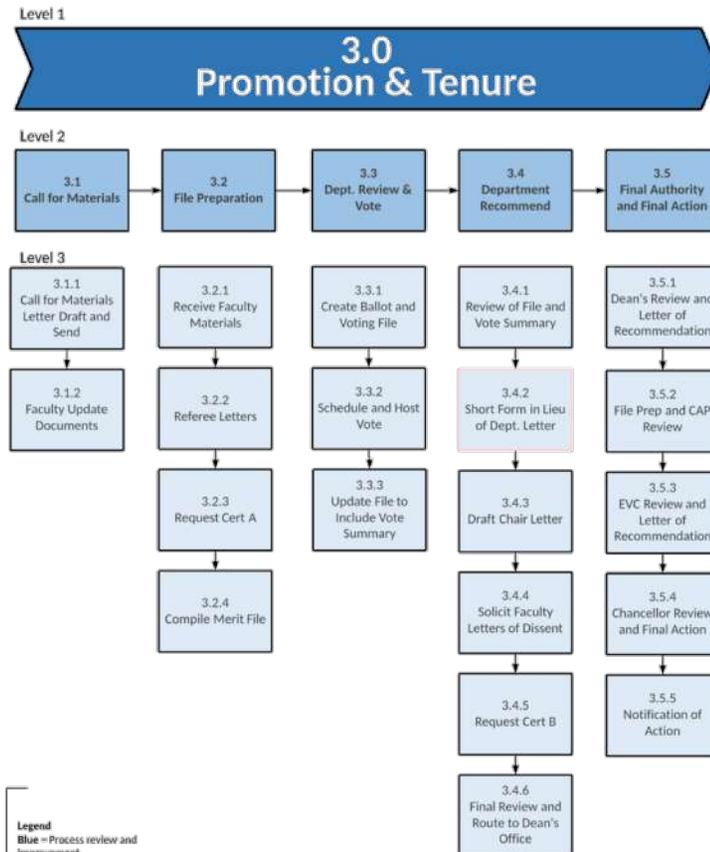
Academic Personnel



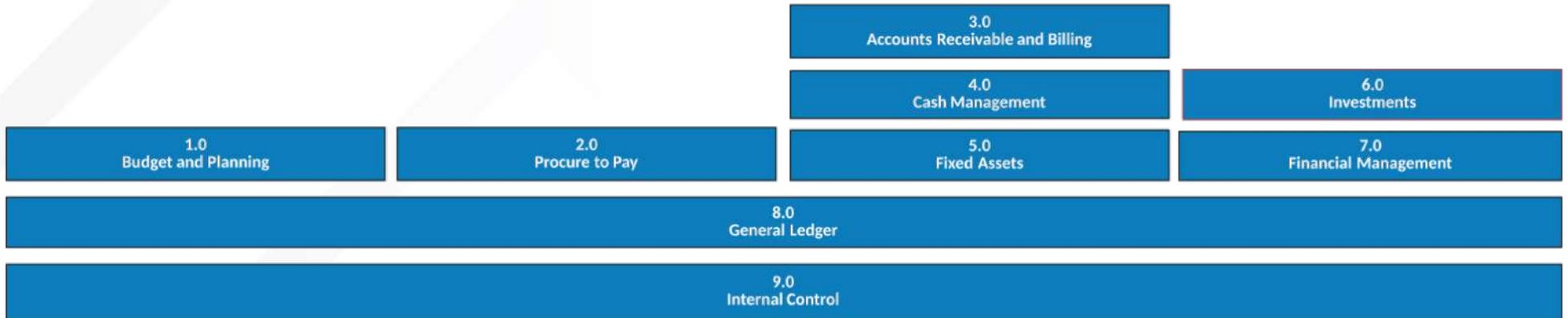
Academic Personnel



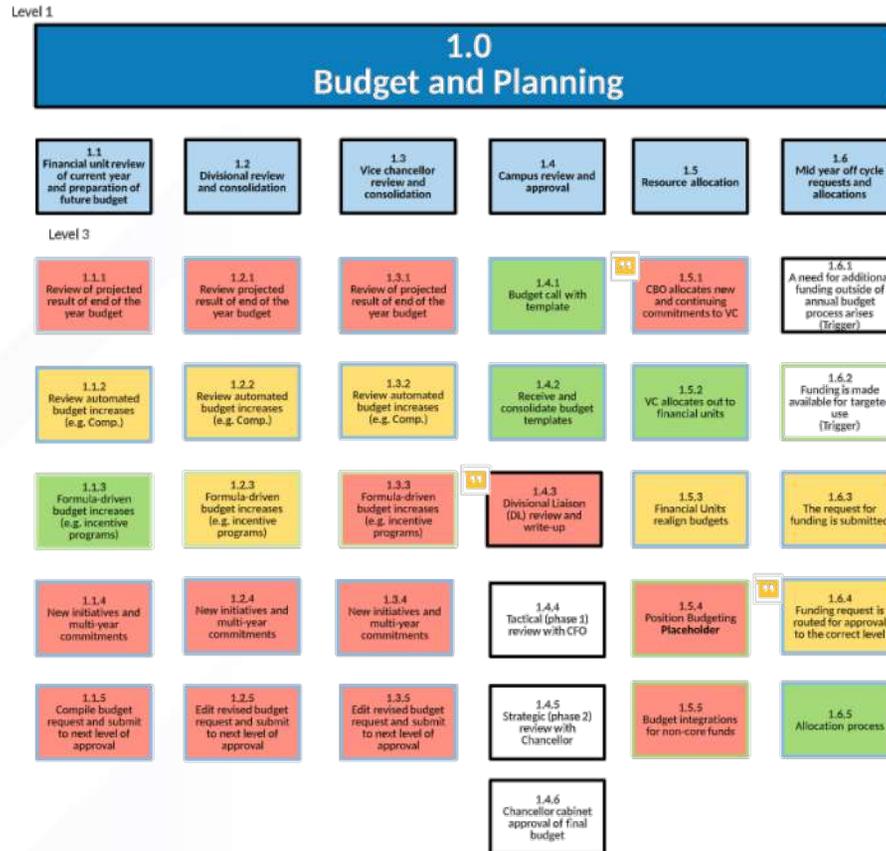
Academic Personnel



Financial Management



Financial Management



Financial Management

4.0 Cash Management

Level 2



Level 3



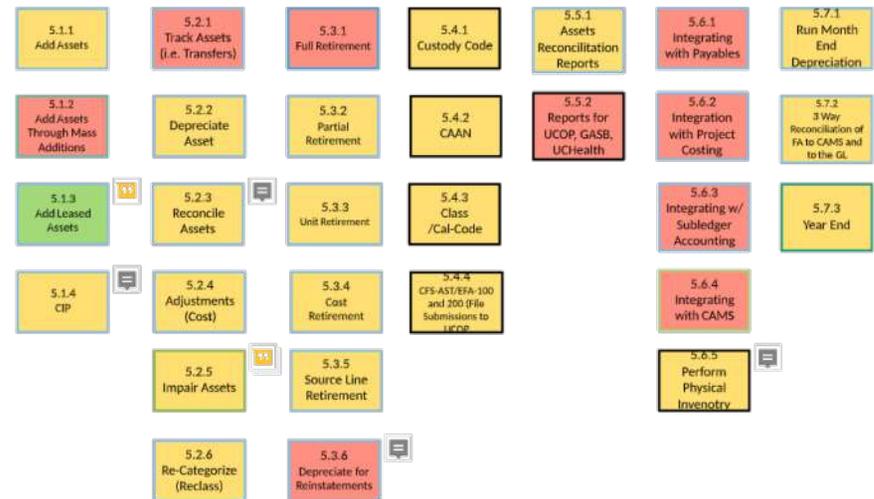
17 processes
1 out of scope

5.0 Fixed Assets (PP&E)

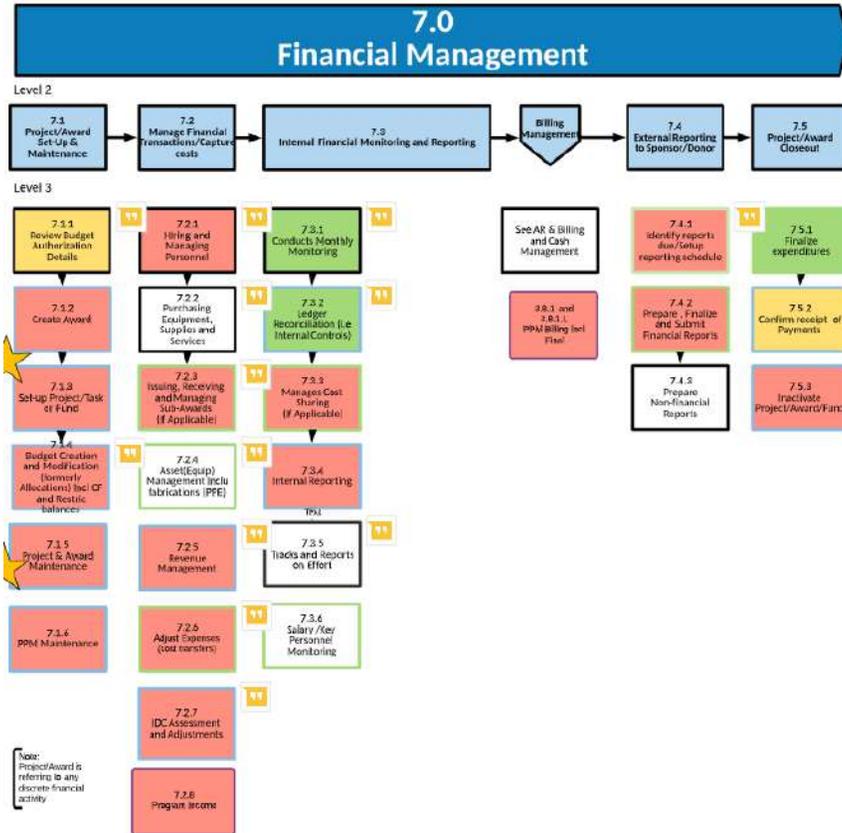
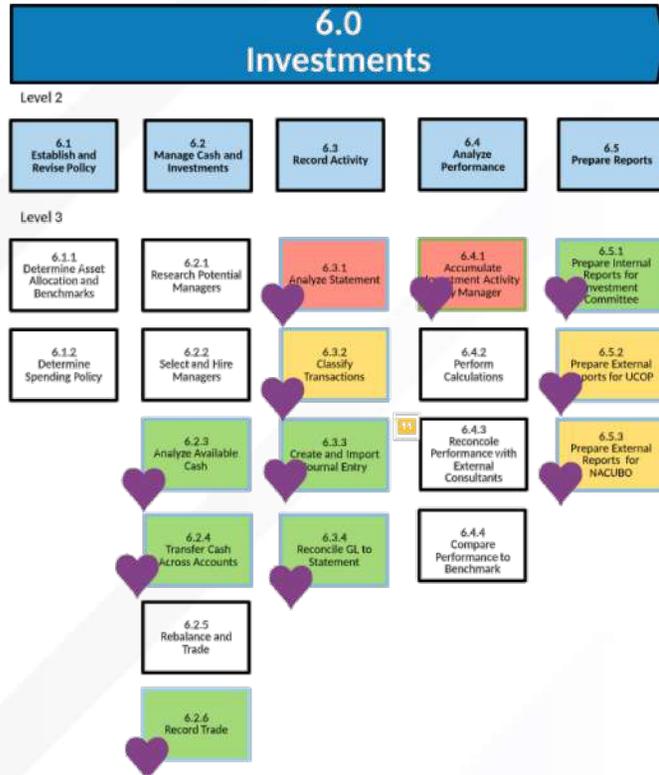
Level 2



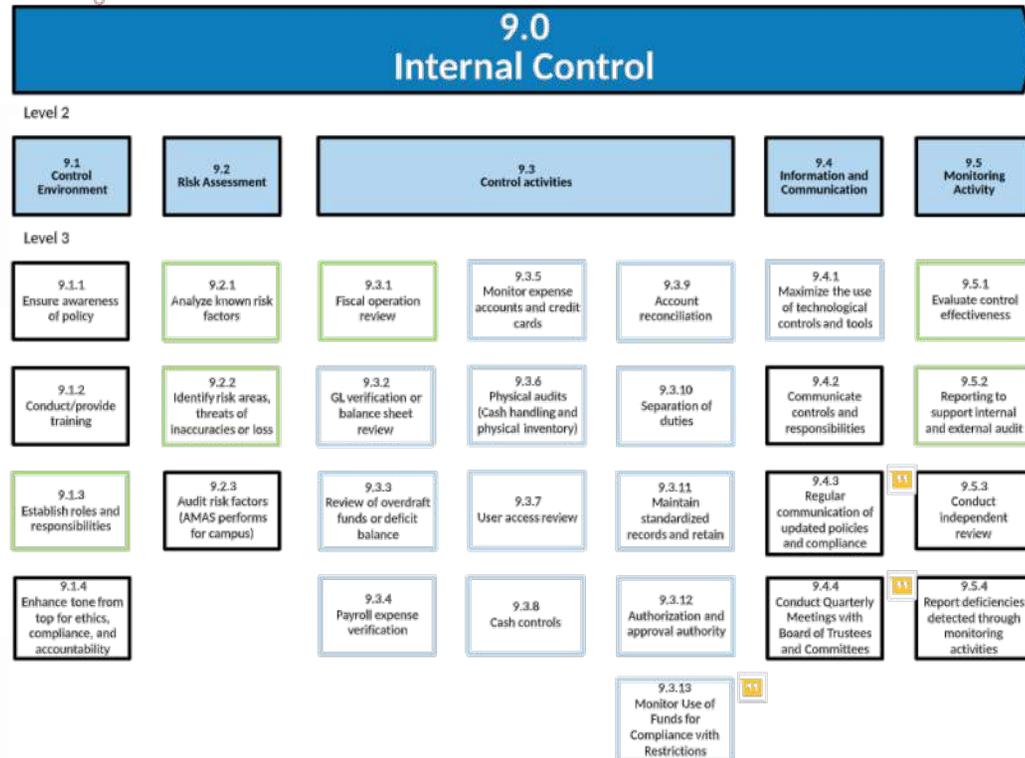
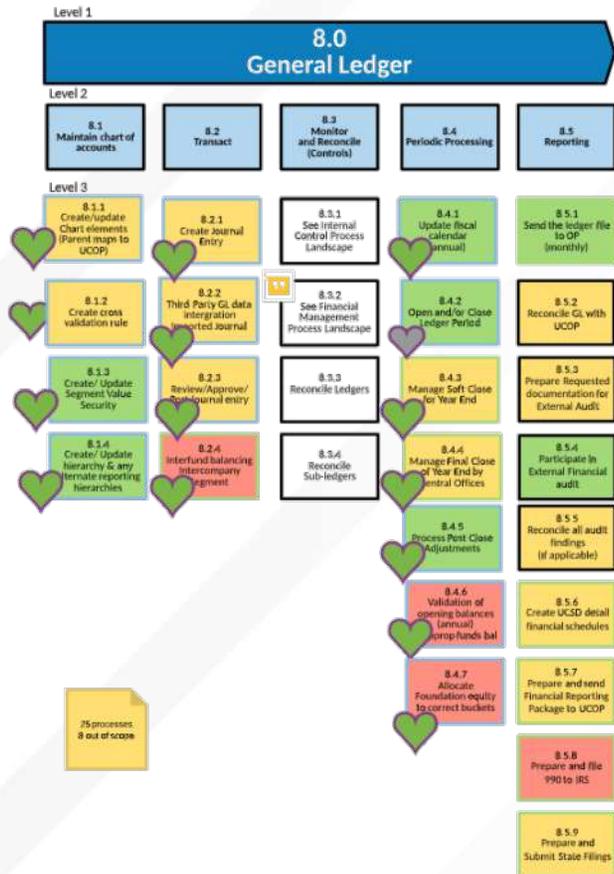
Level 3



Financial Management



Financial Management



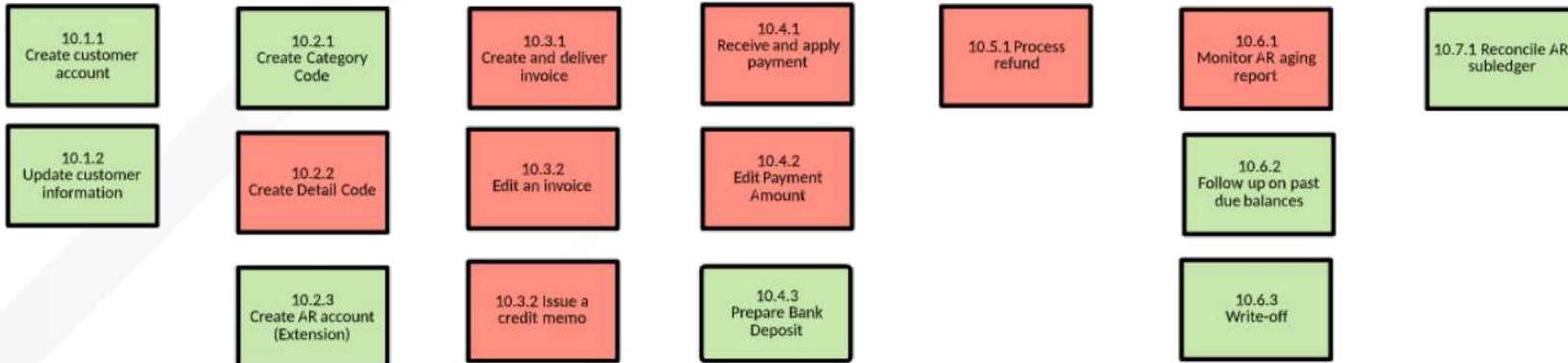
Financial Management

10.0 Student AR

Level 2



Level 3



Academic Personnel Efficiencies Impacts

Quantitative Impacts

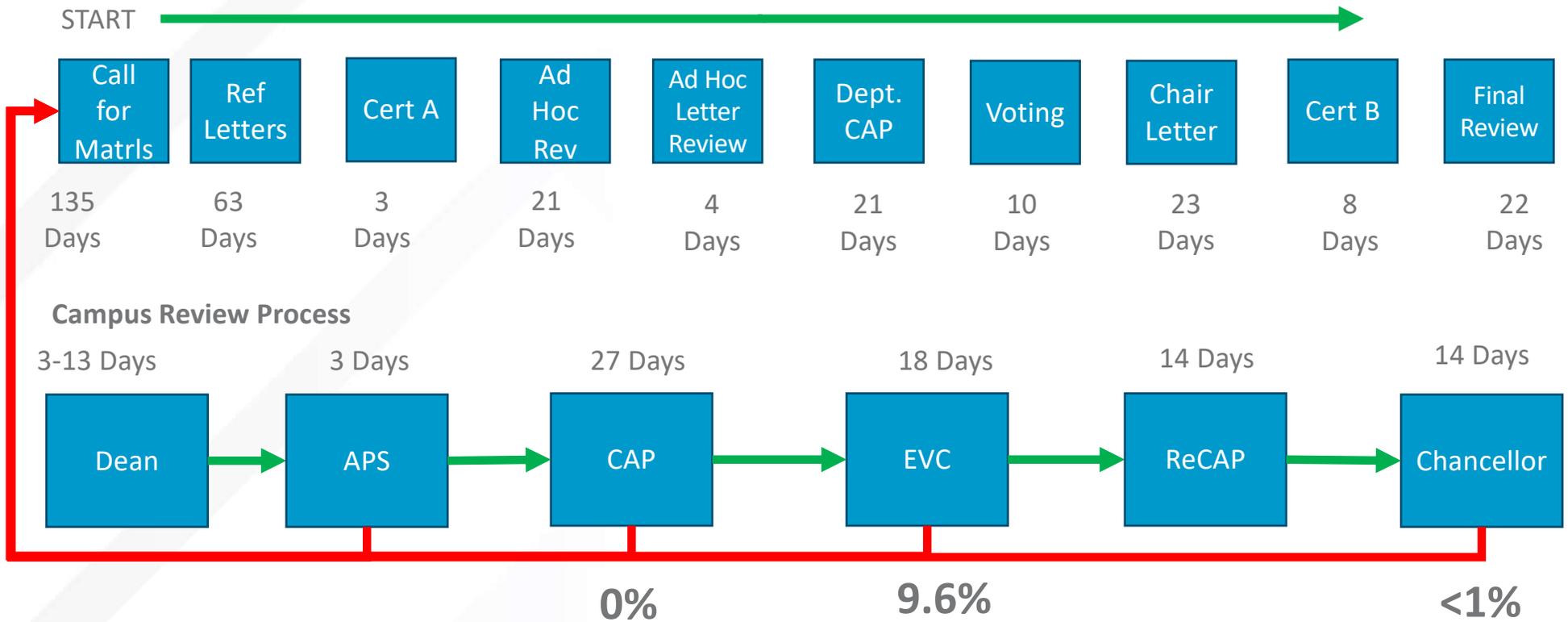
- Interfolio suite reduces overall file preparation time from 24 work hours to 2.5 work hours per file
 - **Savings of ~\$1.25mm annually**
- Reduces faculty time spent updating their biobib from 10 hrs on average per file review period to 20-30 mins per quarter (5.5 hrs saved)
 - **Savings of ~\$361k annually**
- Interfolio eliminates time to create appointment cases by pulling files from AP Recruit (5 hrs saved per case file)
 - **Savings of ~\$12k annually**
- Interfolio suite reduces AP dept level file preparation workload (40 mins/file saved)
 - **Savings of ~\$38k annually**

Qualitative Impacts

- Improved quality of faculty biobibs
 - Complete Files
 - File Order
 - Independence of External Referees
 - Broken Links
 - Paywall
 - Poor quality has a time and effort cost
- Eliminate double data entry and chance of human error input
- **Improved faculty satisfaction by increasing file status visibility**
- **Improved quality of Dean to chancellor review files**
- Reduction of shadow/support systems

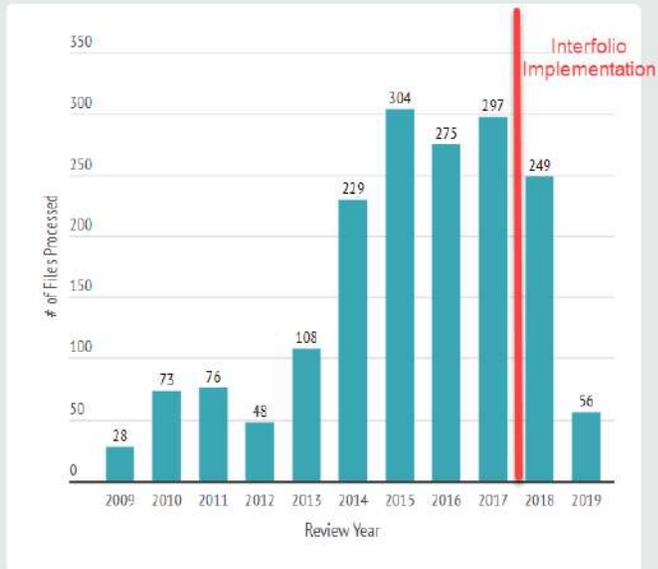
Approximately \$1.66mm
in soft savings annually

Dept. AP File Process (Generalized)



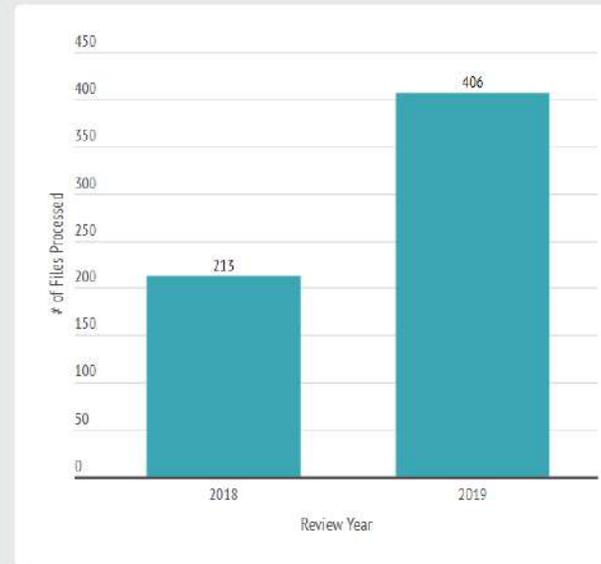
APOL Review: Files Processed

Graphical display of the number of review files processed in APOL Review per review year



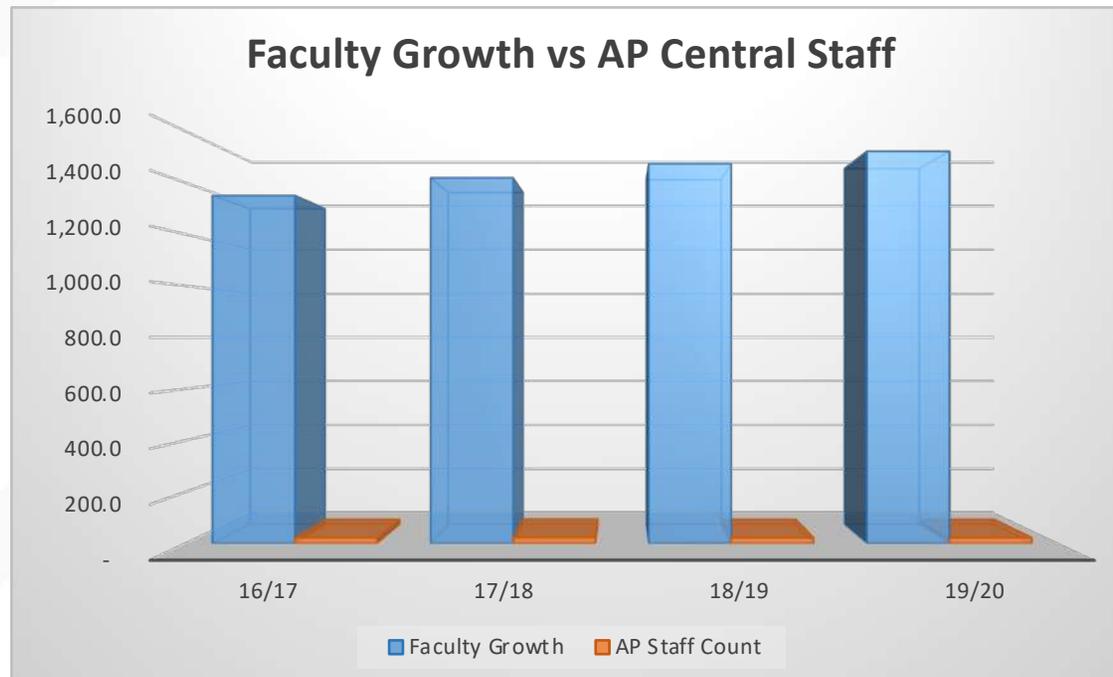
Interfolio: Files Processed

Graphical display of the number of review files processed in Interfolio since implementation as of 1-22-2019



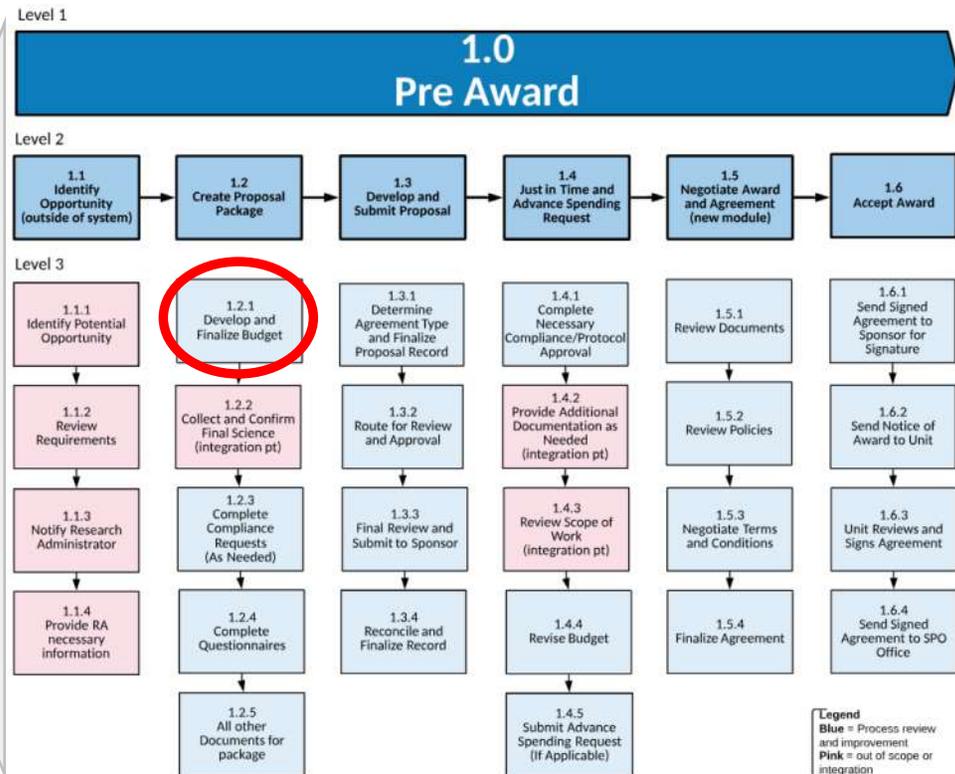
Key takeaway: We are processing more files in pilot year 2 (406) than we did in the most successful year of APOL Review (304)

Central Academic Personnel Staffing



Key takeaway: Efficiencies are translating to capability to absorb more files with central staffing levels remaining flat

Research Administration



Proposal Budget Development & Submission Process

Current State



Large amounts of budget template variations across campus.

Proposal Budget Development & Submission Process

Current State



One default budget template that will support all of campus.

Future State



Future State Benefits

System to System Submissions



Standardization of Non-System to System Submissions



Budget Data Availability



Centralized Managed Accuracy

Downstream Process Impacts



Proposal Budget Development & Submission Process

Process Description

The budget development process is a pre-award function of Research Administration. A detailed budget must be created by the Research Administrator (RA) as part of the proposal package to be submitted to the sponsor for consideration.



Current State

351 budget preparers with the potential to have their own budget template



Proposed Future State

One centrally managed budget template for UCSD using Quali Budgeting module

Projected Impacts & Benefits



System-to-System Submissions

47% of UCSD's proposal budgets can be submitted via system-to-system eliminating manual data entry. This leads to 2,440 redeployable person-hours per year (calculation based on 4,881 proposals in 2018 and about 1 hour manual translation per proposal)



Standardization of Non-System-to-System Submissions

Standardized campus budget template for remaining 50% of budgets allows for campus collaboration and uniform training across departments



Centralized Managed Accuracy

Centralized management of rate updates and calculations allows for formula accuracy and eliminates manual updates. Potential for university to increase IDC recovery by reducing IDC calculation errors



Budget Data Availability

Budget details stored centrally and easily accessible for reporting, analytics, decision making, and future projects potentially leads to increased proposal submissions



Downstream Process Impacts

Seamless integration to downstream data and tools, i.e. Quali Budget module will automate allocations in the future Financial management system

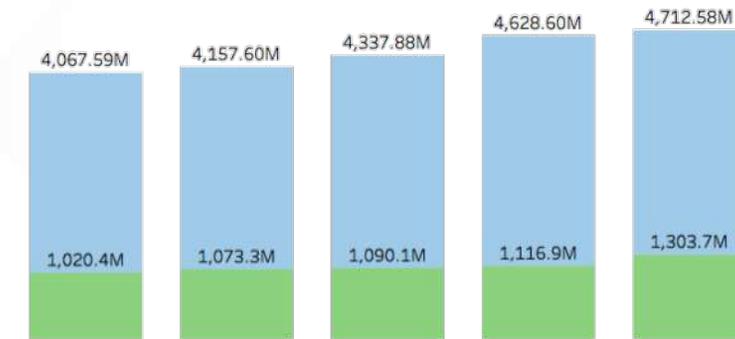
Increasing Efficiency to meet Growth Expectancy

UC San Diego 5-Year Trends Report

Interact with the featured chart below for proposal and award activity by fiscal year. Filter by VC area.

- VC Area
- (All)
 - AA
 - HS
 - SIO
 - Other

- Proposed Total (\$)
- Award Activity (\$)



	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
Proposals (#)	4,742	4,414	4,720	4,881	5,019
Proposed Total (\$)	4,067.59M	4,157.60M	4,337.88M	4,628.60M	4,712.58M
Award Activity (#)	4,635	4,481	4,871	4,752	4,480
Award Activity (\$)	1,020.37M	1,073.33M	1,090.15M	1,116.95M	1,303.68M
Award Direct Cost (\$)	783.20M	829.22M	834.46M	851.37M	1,000.53M
Award Indirect Cost (\$)	237.17M	244.10M	255.69M	265.58M	303.15M

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UC San Diego