


An aerial photograph of the University of California campus, showing various buildings and greenery. In the background, a city skyline is visible through a light haze. The text is overlaid on the upper portion of the image.

University of California
2019 Ethics, Compliance and Audit
Symposium

REACHING NEW HEIGHTS




A foundational Approach Implementing IS-3

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Approaches to policy in higher education

- Thin policy – “we are very committed to information security” – common
- Thin policy + “follow our guide, please” – very popular
- Policies for everything – tempting, common, UC started down this path
- Prescriptive – tell them what to do
- Adaptive – it’s a changing space, rare
- Hybrid – some combination of the above



What we chose hybrid

Prescriptive
Plus Adaptive

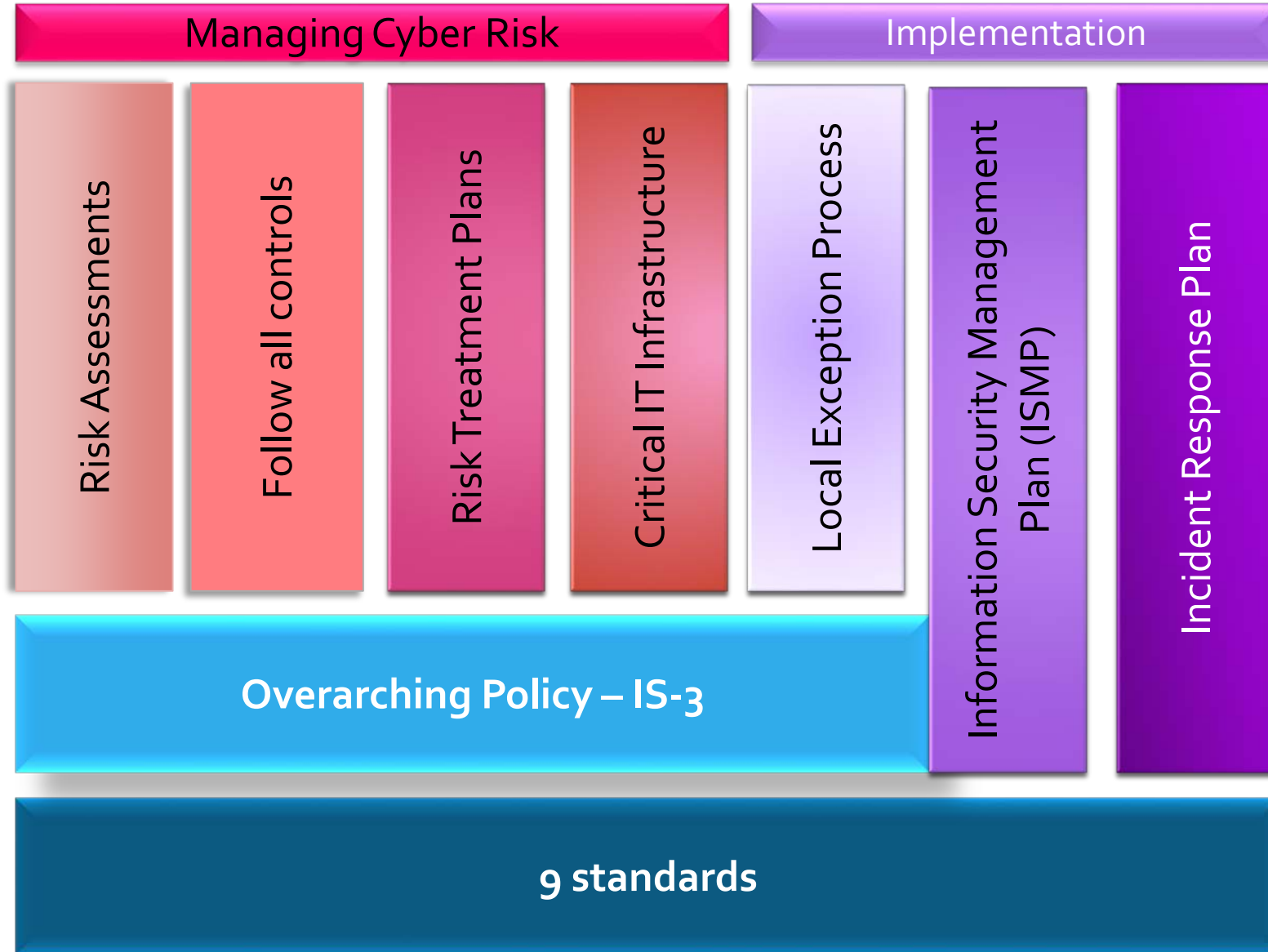
- One overarching policy
 - IS-3
 - With adaptive features!
- 9 Standards – more flexible
 - Minimum Security
 - Account and Authentication
 - Classification
 - Disposal
 - Encryption Key and Certificate Management
 - Event Logging
 - Incident Response
 - Secure Software Configuration
 - Secure Software Development



Policy Architecture

IS-3

UC Security Policy Architecture



Classification of Information and Protection Levels: Impact of disclosure or compromise



P1 – Minimal

Public information or information intended to be readily obtainable by the public, but whose integrity is important and for which unauthorized modification is the primary protection concern. IT Resources for which the application of minimum security requirements is sufficient. (Public.)

P2 – Low

Institutional Information and related IT Resources that may not be specifically protected by statute, regulations or other contractual obligations or mandates, but are generally not intended for public use or access. In addition, information of which unauthorized use, access, disclosure, acquisition, modification or loss could result in minor damage or small financial loss, or cause minor impact on the privacy of an individual or group. (Internal.)

P3 – Moderate

Institutional Information and related IT Resources whose unauthorized disclosure or modification could result in small to moderate fines, penalties or civil actions. Institutional Information of which unauthorized use, access, disclosure, acquisition, modification, loss or deletion could result in moderate damage to UC: students, patients, research subjects, employees, community, reputation related to a breach or compromise; could have a moderate impact on the privacy of a group; could result in moderate financial loss; or could require legal action. This classification level also includes lower risk items that, when combined, represent increased risk. (Proprietary.)

P4 – High

Institutional Information and related IT Resources whose unauthorized disclosure or modification could result in significant fines, penalties, regulatory action, or civil or criminal violations. Statutory, regulatory and contract obligations are major drivers for this risk level. Other drivers include, but are not limited to, the risk of significant harm or impairment to UC: students, patients, research subjects, employees, guests/program participants, UC reputation related to a breach or compromise, the overall operation of the Location or operation of essential services. (Statutory.)

Classification of Availability Levels: Impact of loss of availability or service



A1 – Minimal

Loss of availability may result in minimal impact or minor financial losses.

A2 – Low


Loss of availability may cause minor losses or inefficiencies.

A3 – Moderate

Loss of availability would result in moderate financial losses and/or reduced customer service.

A4 – High

Loss of availability would result in major impairment to the overall operation of the Location and/or essential services, and/or cause significant financial losses. IT Resources that are required by statutory, regulatory and legal obligations are major drivers for this risk level.




Let's think about
Protection Level

What are the set of
controls we need to take
care of this "stuff"?

We have to think
differently!

- Protection Level \neq Confidentiality
 - There are "public" things that need protection.
 - CIA
 - Confidentiality
 - Integrity
 - Availability
 - The old lens of just "confidentiality" is obsolete
 - Add facets for modification and loss
 - These factor into Protection Level
- Think of Protection Level as one input on the selection of controls
- Think of Availability Level as a second input into the selection of controls



IS-3

A Flexible Tool

Setting the stage

- IS-3 is designed to be a flexible tool to manage cyber risk – achieving six goals
- Goal 3 - Follow a risk based approach, III.1.3.3
 - UC is committed to *following a risk-based approach to information security, which allocates resources to protect Institutional Information and IT Resources based on threats and their likelihood of causing an adverse outcome. This approach balances UC's information security goals with its other values, obligations, and interests.*

The policy says

This policy establishes a minimum set of information security requirements, providing Locations with the following four methods of identifying applicable security controls to manage cyber security risk:

- Conduct a Risk Assessment – see Part III, Section 6.
- Use a Risk Treatment Plan – see Part III, Section 6.1.2.
- Use this policy and related standards to identify applicable controls.
- Some combination of the above.

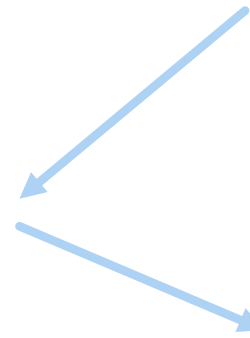
Guide Posts

6 GOALS

- Preserve academic and research collaboration
- Protect privacy
- **Follow a risk-based approach**
- Maintain confidentiality
- Protect integrity
- Ensure availability

5 PRINCIPLES

- A goal-based approach is best
- Units are accountable for implementing information security
- Decision-making rights correspond to risk level
- Security is a shared responsibility
- Security is embedded into the entire lifecycle



What you need to know

- Our policy's adaptive features:
 - Risk based approach – allocate scarce resources based on risk
 - Risk assessment trumps everything
 - Iterative model
 - Based on CSF current state → target state
 - Documented in the Information Security Management Plan
 - Local exception process

What you need to know

- Controls scoped on Protection and/or Availability Levels
- Designation of “Critical IT Infrastructure”
 - Not being used so far, may not be used ...
- Risk Treatment Plans
- Easy to edit standards

Who can make risk decisions?

- A Location could follow the budgetary authority model
- An example based on current delegation of authority at UCOP:
 - Regent appointed officers – no limit
 - With Presidential consultation
 - VPs reporting to the President - VP level Unit Heads (other than those above) \$100K and \$250K
 - Directors and named role officers - \$75K and \$100K
 - Source: <https://www.ucop.edu/business-resource-center/policies-and-guidance/guidelines/delegations-of-authority.html#UCOP-Delegations-of-Authority>

The importance of the ISMP

- The Location Information Security Management Plan (ISMP) is a tool used to answer the key questions about:
 - Managing cyber risk
 - Planning and priorities → investments/budgets
 - Risk acceptance
- The CRE and possibly the responsible executive must sign off!
 - Essentially saying – *"I know the risks, I know our budget, I know our plan – we are managing risk, and I accept the risks that remain"*



IS-3 Foundational Elements

IS-3 Foundational Elements

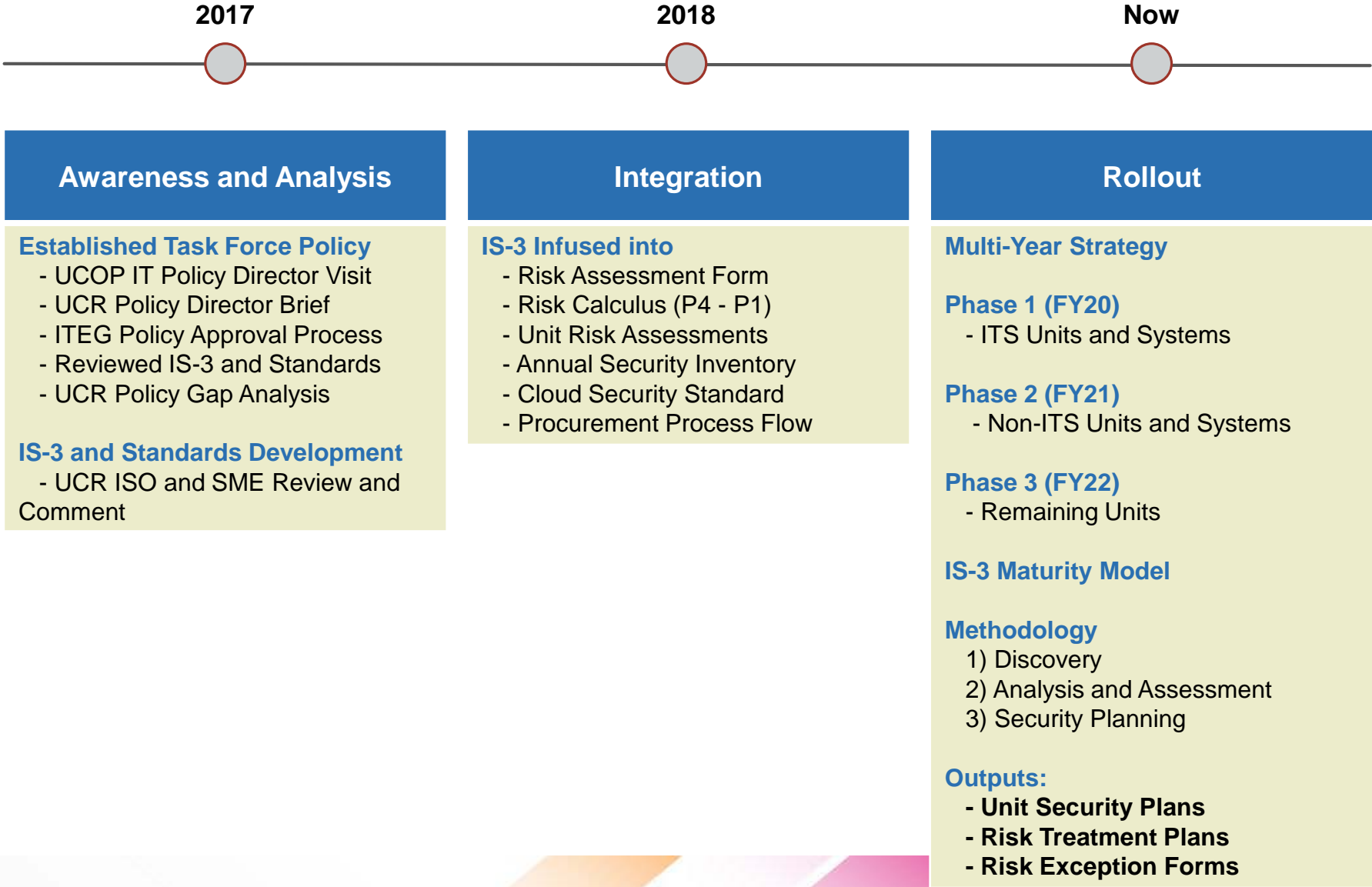
- Start with the macro, realize Locations and Units need time to swing the ship around – possibly start here:
 - Is there an ISMP?
 - Is there an inventory of Protection Level 3 and Protection Level 4 information?
 - Is there a risk assessment?
 - Location? Key Units? P3/P4 collections of Institutional Information?
 - Is there evidence of the risk management process guiding budgeting and planning?
 - Is there evidence of appropriate risk acceptance?
- We want to manage cyber risk
 - Is the Location “having the conversation”?



Agenda

- UCR IS-3 Preparation and Rollout Timeline
- Awareness and Analysis:
 - Task Force Policy
 - IS-3 and Standards Development
- Integration:
 - Risk Assessment Form and Calculus
 - Annual Security Inventory
 - Cloud Security Standard
 - Procurement Process Flow
- Rollout:
 - IS-3 Rollout Scope - Phase 1 and Phase 2
 - Maturity Model and Expanded Model
 - IS-3 Rollout Methodology
- Questions?

UCR IS-3 Preparation and Rollout Timeline



Awareness and Analysis: *Task Force Policy*

2017 convened Task Force Policy, 10 campus-wide IT leaders

- Reviewed draft UC IS-3 policy, standards and other documents
- Conducted UCR policy gap analysis

Gap Analysis Findings

- IS-3 covers all policy needs
- ~11 standards needed
- ~30 procedures and plans needed

BFB-IS-3: Electronic Information Security Policy	UCR specific policy is needed, IS-3 coverage not sufficient	UCR Standard needed	UCR Procedure needed	UCR Plan needed
1.1 Goals	No	No	No	No
2.1 Management direction for information security	No	No	No	No
2.2 Exception process	No	No	TBD	No
2.3 Policies, standards and supporting documents	No	No	No	No
Section 3: Roles and Responsibilities	No	No	No	No
4.1 Policy goals guide decisions	No	No	No	No
4.2 Units are accountable for implementing information security	No	No	No	TBD
4.3 Decision-making rights correspond to risk level	No	No	No	No
4.4 Security is a shared responsibility	No	No	No	No
4.5 Security is embedded in to the entire lifecycle	No	???	TBD	TBD
5.1 Establish an Information Security Management Program	No	No	No	TBD
5.2 Essential Information Security Management Program elements	No	No	No	No
6.1 Risk management minimum requirements	No	No	TBD	TBD
7.1 Prior to employment	No	No	TBD	TBD
7.2 During employment	No	No	TBD	TBD
7.3 Separation and change of employment	No	No	TBD	TBD
7.4 Separation of duties	No	No	TBD	TBD
7.5 Background checks	No	No	TBD	TBD
8.1 Responsibility for assets	No	No	TBD	TBD
8.2 Institutional Information and IT Resource information security classification	No	???	TBD	TBD
8.3 Electronic media handling	No	No	TBD	TBD
9.1 Business requirements of access control	No	No	TBD	TBD
9.2 User access management	No	???	TBD	TBD
10.1 Encryption requirements	No	???	TBD	TBD
11.1 Secure areas	No	???	TBD	TBD
11.2 Equipment security	No	???	TBD	TBD
12.1 Operational security and responsibilities	No	No	TBD	TBD
12.2 Protection from malware and intrusion	No	???	TBD	TBD
12.3 Backup	No	???	TBD	TBD
12.4 Logging and monitoring	No	???	TBD	TBD
12.5 Control of operational software	No	No	TBD	TBD
12.6 Technical vulnerability management and patch management	No	No	No	TBD
12.7 Information systems audit considerations	No	No	TBD	TBD
13.1 Network security management	No	???	TBD	TBD
13.2 Information transfer	No	???	No	No
14.1 Security requirements of information systems	No	No	No	No
14.2 Security in development and support processes	No	No	TBD	TBD
15.1 Information security in supplier relationships	No	No	TBD	TBD
15.2 Supplier service delivery management	No	No	TBD	TBD
16.1 Management of Information Security Incidents and corrective action	No	No	TBD	TBD
17.1 Information security and business continuity	No	No	TBD	TBD
18.1 Compliance with legal and contractual requirements	No	No	TBD	TBD
18.2 Information security reviews	No	No	TBD	TBD

Awareness and Analysis: *IS-3 and Standards Development*

UCR Information Security Office and subject matter experts participated in IS-3 policy and standards reviews and workgroups

- Reviewed and commented on draft IS-3 policy and all 9 draft standards
- Participated in 2 workgroups (Software Development and Disposal)



Special appreciation to **Robert Smith**,
UC IT Policy Director:

- Provided oversight of all doctrine development
- Marshaled drafting and review of all documents
- Provided disposition of ALL location-provided comments!

Integration: Risk Assessment Form and Calculus

- **January 2018** infused IS-3 sections into UCR Risk Assessment Form
 - Form contains 31 items mapping to IS-3 (meets ISO 27002 controls)
 - Using IS-3 data classification (P4-P1) as Impact portion of risk calculus

Added

UC IS-3 Compliance Requirements

Data Classification

External Compliance Requirements

University of California Riverside Information Security Office										
Risk Assessment for CampusLogic Student Forms Date: 02/15/2018										
Institutional Information	UCDP Policy	Questions	Control Provider UCR or Vendor	Compliance Demand	Risk Assessment				Risk Mitigation Identification	Risk Decision
Data Classification	BFB-IS-3: Electronic Information Security	Based on BFB-IS-3		Requirements	Threat	Vulnerability	Impact	Risk	Composants	Accept, Mitigate, Avoid, Transfer?
P4:A4 -Institutional information and related IT Resources whose unauthorized disclosure or modification could result in significant fines, penalties, regulatory action, or civil or criminal violations. Data that is necessary and control obligations are major drivers for this risk level. Loss of availability would result in major impairment to the overall operation of the location and/or essential services, and cause significant financial losses.	5 Information Security Management Program	Are policies defined, approved, published, communicated and reviewed?	UCR	ISO/IEC 27001 International Standard: A.5.1.1.1 HIPAA Security Rule 45 C.F.R. §§ 164.308(e)(1)(ii)(A) NIET SP 800-53 AT-01,AT-02	Low	Low	Moderate	Low	Threat: None Vulnerability: None Mitigation: None	Accept, Mitigate, Avoid, Transfer?
	6 Risk Management Process	Are formal risk assessments conducted for institutional information and IT resources at P4/P3 classification level? Is an IS-3 compliant risk treatment plan in place? Are risk assessments and treatment	UCR	ISO/IEC 27001 International Standard: A.6 HIPAA Security Rule 45 C.F.R. §§ 164.308(e)(1)(E) NIET SP 800-53 CA-7(I), CP-2, RA-1, RA-3 PCI DSS 12.12 FERPA 20 U.S.C. § 1232g; 34 CFR Part 99	Low	Low	Moderate	Low	Threat: None Vulnerability: None Mitigation: None	
	7.1 Prior to employment	Do employees and contractors understand their responsibilities and are suitable for the roles for which they were hired?	UCR	ISO/IEC 27001 International Standard: A.1.1 NIET SP 800-53 AT-2, AT-3 PCI DSS 12.6, 12.6.1,12.6.2 FERPA 20 U.S.C. § 1232g; 34 CFR Part 99	Low	Low	Moderate	Low	Threat: None Vulnerability: None Mitigation: None	
	7.2 During employment	Do all employees and, where relevant, contractors receive appropriate awareness education and training for their job functions?	UCR	ISO/IEC 27001 International Standard: A.7.2 NIET SP 800-53 AT-2, AT-3 PCI DSS 12.6, 12.6.1,12.6.2 FERPA 20 U.S.C. § 1232g; 34 CFR Part 99	Low	Low	High	Moderate	Threat: Possible data leakage or fiduciary leakage issues. Vulnerability: Employees may maliciously or inadvertently damage, remove or access data or equipment using the improper access rights. Mitigation: Ensure a program or method for segregation of duties among employees and contractors.	
	7.4 Separation of duties	Is the principle of separation of duties implemented and administrated?	UCR	ISO/IEC 27001 International Standard: A.7.2 NIET SP 800-53 AC-5, AC-6 HIPAA Security Rule 45 C.F.R. §§ 164.308(e)(1)(ii)(D) PCI DSS 7.1.1	Low	Low	Moderate	Low	Threat: None Vulnerability: None Mitigation: None	
	7.5 Background checks	Are background checks performed prior to employment?	UCR	ISO/IEC 27001 International Standard: A.1.1 NIET SP 800-53 PS-3 FERPA 20 U.S.C. § 1232g; 34 CFR Part 99	Low	Low	High	Moderate	Threat: Insufficient information about an employee. Vulnerability: Possible access to sensitive data made available to an employee improperly vetted. Mitigation: Require sufficient background checks for all staff.	
	8.1 Responsibility for assets	Is a formal inventory (institutional information and IT resources) maintained for P4/P3 level assets?	UCR	ISO/IEC 27001 International Standard: A.8.1 NIET SP 800-53 SC-7, CM-6, PM-5 PCI DSS 3.8.1 FERPA 20 U.S.C. § 1232g; 34 CFR Part 99	Low	Low	High	Moderate	Threat: Exposure or leakage of protected P3 or P4 Data. Vulnerability: Due to no formal inventory, data can be stored in such a way that it is available to employees who should not have access to that data. Mitigation: Implement a formal inventory to ensure all data is properly classified and stored appropriately.	
	8.2 Institutional information and IT Resource information security classification	Are assets formally classified, labeled and reviewed periodically?	UCR	ISO/IEC 27001 International Standard: A.8.2 HIPAA Security Rule 45 C.F.R. §§ 164.304(b)(2)(i) NIET SP 800-53 RA-2, AC-16 PCI DSS 3.1.1, 3.2, 3.7.1 FERPA 20 U.S.C. § 1232g; 34 CFR Part 99	Low	Low	High	Moderate	Threat: Exposure or leakage of protected P3 or P4 Data. Vulnerability: Due to no formal inventory, data can be stored in such a way that it is available to employees who should not have access to that data. Mitigation: Ensure all data is properly classified and stored appropriately.	

Integration: *Annual Security Inventory*

- **Undergoing** revamp of UCR Annual Security Inventory
 - Added 31 item Unit compliance questionnaire
 - Example: *To what extent are assets formally classified, labeled and reviewed periodically at your unit?* Answers: Low, Moderate, High, N/A
 - Added sections: Data classification, regulatory requirements and GDPR



Very high priority for CRE

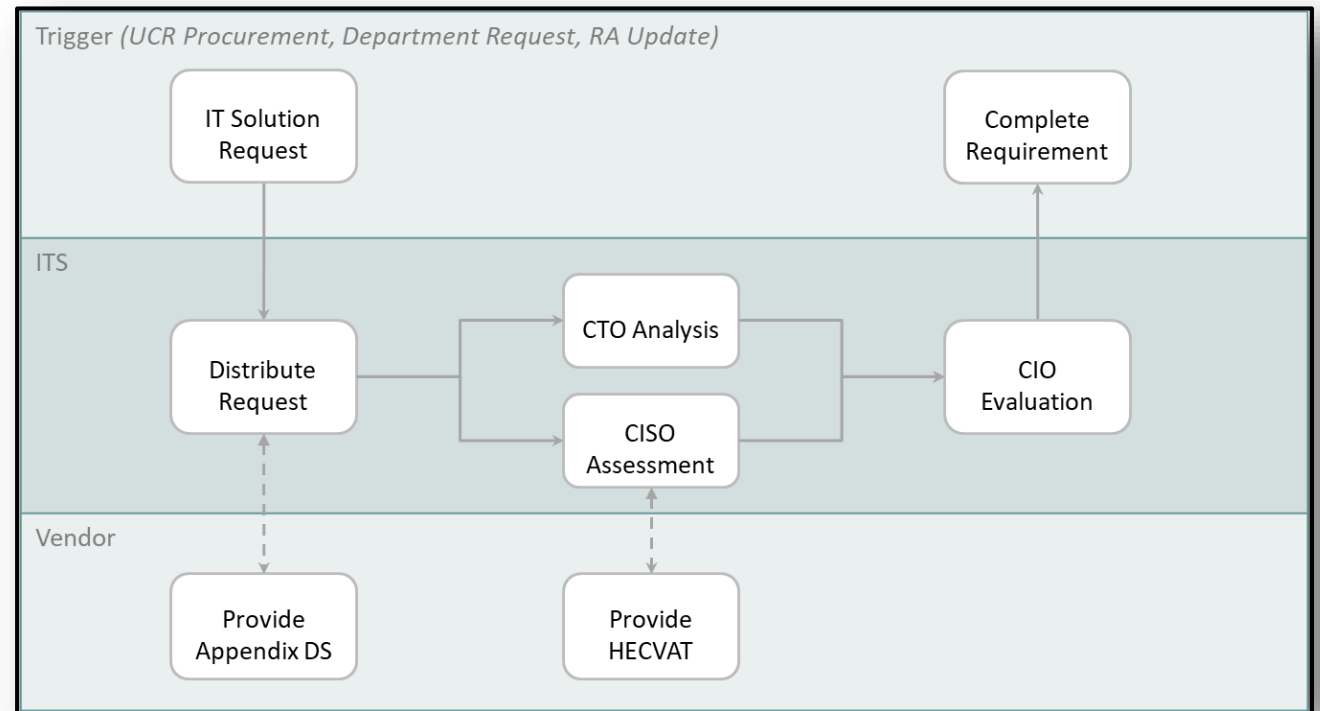
- Allows view of campus risk pockets
- Genesis for department security plans
- Genesis for MFA rollout
- Identifies regulatory mandates (HIPAA, FERPA, GDPR, etc.)

Integration: *Cloud Security Standard*

- Created cloud security standard and handout for workforce members handling sensitive data (P4/P3)
 - Contains 8 requirements from IS-3 for accessing sensitive data
 - Example: *User's systems **must** use Managed Desktop or comply with the UC Minimum Security Standards. BFB-IS-3 Section 8*
 - Contains 13 guidelines from IS-3 for accessing sensitive data
 - Example: *Set expiration dates when creating shared links to files and folders. BFB-IS-3 Section 9*
- Incorporating IS-3 password and passphrase strength requirements from the UC Account and Authentication Management Standard

Integration: *Procurement Process Flow*

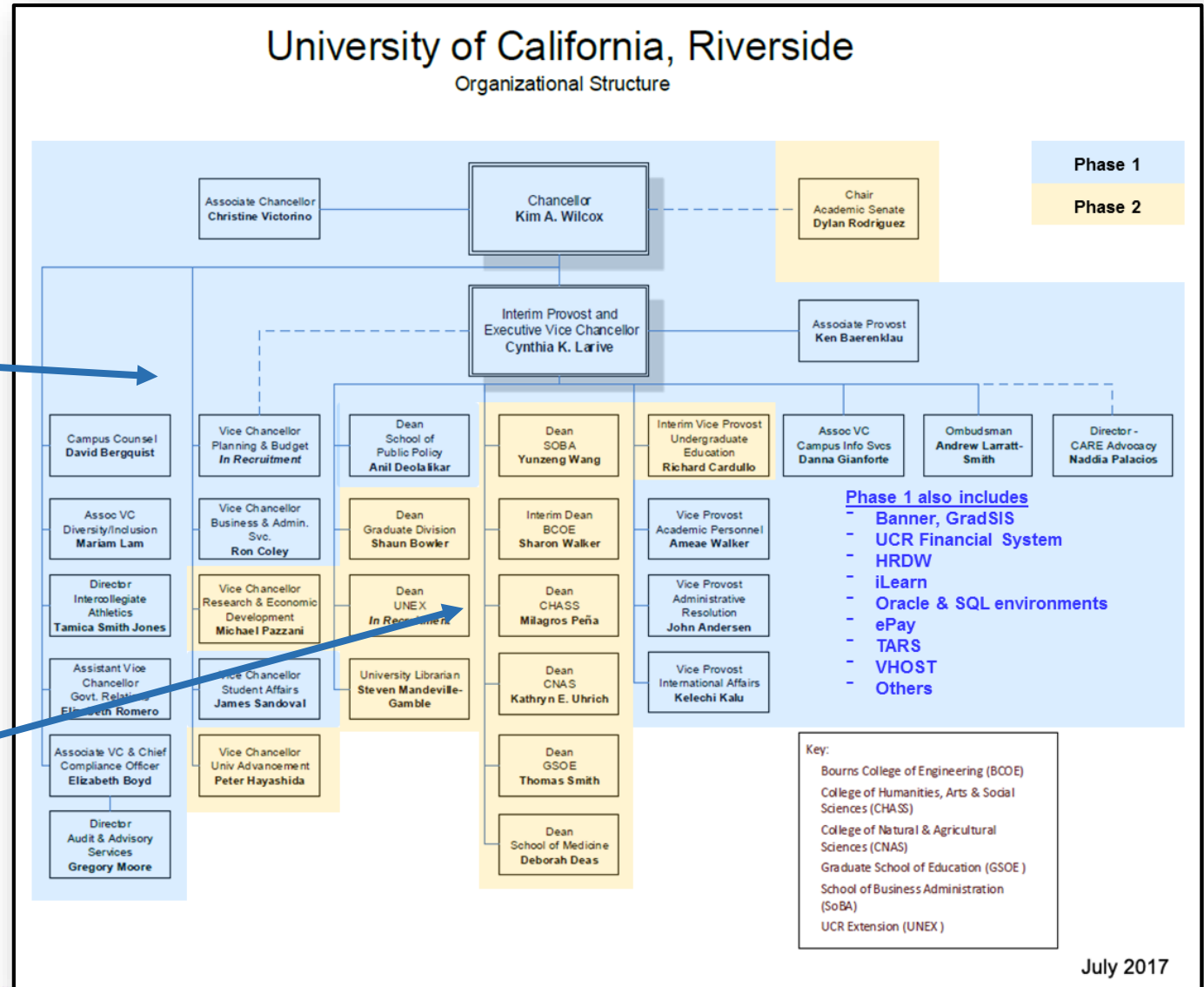
- Instituted UCR Central IT purchase and procurement review process
- UCR Procurement forwards IT requests to Central IT Procurement Analyst
- Procurement Analyst distributes requests to
 - **CTO**
Infrastructure compatibility
 - **CISO**
Risk assessment
Appendix DS
 - **CIO**
Final evaluation



Rollout: IS-3 Rollout Scope - Phase 1 and Phase 2

Phase 1
Central IT
Managed

Phase 2
Non-Central
IT
Managed



July 2017

Rollout: *Maturity Model*

Units will be assigned initial maturity level and provided support to elevate maturity over a 3 to 4 year period

We believe most Units will achieve a strong security posture and demonstrate compliance with IS-3 if they can achieve maturity level 2 or 3

Level 0 - Initial	<ul style="list-style-type: none">• Little or no awareness of new IS-3 policy• Little or no internal (documented) policies or standards in place• Few or no personnel focused on information security identified within the Unit• Little or no awareness of Unit's security posture• No risk assessment performed to date• No security plan in place• Limited security controls in place
Level 1 - Aware	<ul style="list-style-type: none">• Awareness of policy• Key (security) personnel have been identified and training has begun• Limited ad hoc controls are in place - likely not documented• A risk assessment has been scheduled
Level 2 - Operational	<ul style="list-style-type: none">• Risk assessment completed• Internal policies, standards, and procedures are documented• Security plan has been developed
Level 3 - Managed	<ul style="list-style-type: none">• Unit is executing its security plan• Metrics are collected• Unit is leveraging central services when it is feasible to do so
Level 4 – Optimized (The Future)	<ul style="list-style-type: none">• All conditions in level 3 are met• Risk assessments are repeated• Unit is reporting its security posture to central security and/or campus leadership

Special thank you to **Cheryl Washington**, UC Davis CISO

- Created IS-3 maturity model and UC Davis policy rollout plan.

Rollout: *Maturity Model Expanded*

Expanded UC Davis model into categorized key areas and maturity continuum

IS-3 Rollout	Level 0 <i>Initial</i>	Level 1 <i>Aware</i>	Level 2 <i>Operational</i>	Level 3 <i>Managed</i>	Level 4 <i>Optimized</i>
IS-3 and Security Posture Awareness	<ul style="list-style-type: none"> Little or no awareness of new IS-3 policy Unaware of Unit security posture 	<ul style="list-style-type: none"> Awareness of new IS-3 policy 	<ul style="list-style-type: none"> Awareness of Unit security posture 	<ul style="list-style-type: none"> Metrics are collected and analyzed 	<ul style="list-style-type: none"> Unit is reporting security posture to central security and/or campus leadership
Policies, Standards and Procedures	<ul style="list-style-type: none"> Documented policies absent or ad hoc 	<ul style="list-style-type: none"> Policies, standards, and procedures in development or partially documented 	<ul style="list-style-type: none"> Policies, standards, and procedures are documented 	<ul style="list-style-type: none"> Policies, standards and procedures implemented and assessed 	<ul style="list-style-type: none"> Policy review and revision process in place
Information Security Personnel and Training	<ul style="list-style-type: none"> Few or no personnel focused on information security identified within the Unit 	<ul style="list-style-type: none"> Information Security personnel identified 	<ul style="list-style-type: none"> Information security personnel training initiated 	<ul style="list-style-type: none"> Information security personnel training program in place 	<ul style="list-style-type: none"> Information security training program aligns with industry standards
Risk Assessment	<ul style="list-style-type: none"> No Unit risk assessment performed to date 	<ul style="list-style-type: none"> Unit risk assessment scheduled 	<ul style="list-style-type: none"> Unit risk assessment completed 	<ul style="list-style-type: none"> Unit risk assessment and mitigation program in place 	<ul style="list-style-type: none"> Risk assessments are repeated
Security Plan	<ul style="list-style-type: none"> No security plan in place 	<ul style="list-style-type: none"> Security plan in draft 	<ul style="list-style-type: none"> Security plan has been developed 	<ul style="list-style-type: none"> Unit is executing security plan 	<ul style="list-style-type: none"> Security plan periodically reviewed and revised
Security Controls	<ul style="list-style-type: none"> Limited security controls in place 	<ul style="list-style-type: none"> Limited or ad hoc controls are in place - likely not documented 	<ul style="list-style-type: none"> Partial security controls in place and documented 	<ul style="list-style-type: none"> Partial security controls and risk treatment plans in place 	<ul style="list-style-type: none"> All security controls in place and documented

Current = Gold

Goal = Green

Rollout: *IS-3 Rollout Methodology*

UCR will leverage IS-3 assessment methods and tools to identify Unit assets, determine compliance, assess risk, and document remediation

Unit Action	Method or Artifact	Results
1 - Discovery	Annual Security Inventory or Department Inventory	Asset Inventory
2 - IS-3 Compliance Gap Analysis	Annual Security Inventory and Risk Assessment Tool	IS-3 Compliance and Vulnerabilities
3 - Risk Assessment	Full Risk Assessment Form	Risk Posture (Threat, Vulnerability, Impact)
4 - Identify Remediation Needs	Remediation Worksheet and Required Resources	Unit Security Plan Risk Treatment Plans Risk Exception Forms

UCR Unit Information Security Plan

UC Information Security Policy Controls		
Administrative Controls	Technical Controls	Physical Controls
21 Controls - 15 implemented - 4 partially - 2 not implemented	9 Controls - 6 implemented - 2 partially - 1 not implemented	3 Controls - 2 implemented - 1 partially - 0 not implemented
5.1 Establish an Information Security Management Program	8.3 Electronic media handling	11.1 Secure areas
5.2 Essential Information Security Management Program elements	10.1 Encryption requirements	11.2 Equipment security
6.1 Risk management minimum requirements	12.2 Protection from malware and intrusion	14.1 Security requirements of information systems
7.1 Prior to employment	12.3 Backup	
7.2 During employment	12.4 Logging an	
7.3 Separation and change of employment	12.5 Control of	
7.4 Separation of duties	12.6 Technical v and patch man	
7.5 Background checks	13.1 Network s	
8.1 Responsibility for assets	13.2 Informati	
8.2 Institutional information and IT Resource information security classification		
9.1 Business requirements of access control		
9.2 User access management		
12.1 Operational security and responsibilities		
12.7 Information systems audit considerations		
14.2 Security in development and support processes		
15.1 Information security in supplier relationships		
15.2 Supplier service delivery management		
16.1 Management of Information Security incidents and corrective action		
17.1 Information security and business continuity		
18.1 Compliance with legal and contractual requirements		
18.2 Information security reviews		

Table 1- UC Inform

5 Security Plan Action Items

This Security Plan provides recommended mitigations based on risk assessment findings to reduce risk and improve Unit cybersecurity posture. ITS ISO fully realizes implementation of suggested controls may require substantial resources including personnel (FTE), materiel costs and time. Additionally, the IS-3 policy requires periodic review and assessment of controls.

6 Mitigations

Suggested controls below are from IS-3 and presented in order of criticality for implementation.

5.2 Essential Information Security Management Program Elements (Administrative)

Each Location must implement the essential ISMP elements and supporting tasks including:

- Establishing an information security risk governance framework that establishes roles and responsibilities of the ISMP at the Location,
- Ensures implementation of the risk management process,
- Defines information security risk tolerances defines acceptable risk responses,
- Establishes an escalation protocol to manage residual risk that exceeds UC maximum tolerances,
- Guides the allocation of resources in response to identified and prioritized risks,
- Reviews the ISMP annually to ensure that it addresses changing UC Business needs, operating environments, threat landscape, regulatory landscape and changes in technology,
- And documents review of the ISMP by the Cyber-Risk Responsible Executive (CRE).

The ISO is available to support development of an information security management program.

6.1 Risk management minimum requirements (Administrative)

This section establishes minimum requirements for the UC risk management process. The Location risk management process must address the following:

- Identifying assets
- Protecting assets using the controls in IS-3 policy
- Detecting and evaluating Information Security Events
- Responding to Information Security Incidents
- Recovering from Information Security Incidents
- Framing and assessing risk
- Responding to risk once determined and prioritizing investments/budgets to address identified risks
- Monitoring risk on an ongoing basis
- Providing a feedback system for continuous improvement
- Monitoring security and compensating controls for effectiveness

- Unit IS-3 assessment findings
- Security plan action items
 - Administrative
 - Technical
 - Physical
- Prioritized for resourcing
- Unit risk acceptance

The Unit must be aware of risks associated with assessment

Questions?

