

Committee on Information Technology

Regular Meeting November 16, 2017

1 Dr. Carlton B. Goodlett Place, City Hall, Room 305 San Francisco, CA 94102

AGENDA

- Call to Order by Chair
- 2. Roll Call
- 3. Approval of Meeting Minutes from October 27, 2017
- 4. Chair Update
- 5. CIO Update
- 6. COIT Policy Update: Review and Removal of Existing COIT Policies
- 7. Policy Update: Disaster Preparedness, Recovery, Response, and Resiliency
- 8. Initiative Update: Hiring Modernization
- 9. Public Comment
- 10. Adjournment

3. Approval of Minutes

Action Item

4. Chair Update

5. CIO Update

6. Review and Removal of Existing COIT Policies

COIT Policy Goals

- > Address business needs
- ➤ Mitigate risk
- > Achieve operational efficiencies
- Comply with a law or requirement
- ➤ Achieve City goals



Historical Review

FY 2008-9	FY 2010-11	FY 2011-12	FY 2014-15	FY 2016-17	FY 2017-18	
- Acceptable Use Policy	- Software Evaluation Policy	- Cloud Computing	- Metadata Standard	- Cybersecurity Policy	- Data Classification Standard	
Security PolicyEnvironment PurchasingGreen Policy	Virtual First Server ProcurementFiber Access Management	FY 2012-13 - Email Policy		- DPR3 Policy - Drone Policy	- Cybersecurity Training & Awareness	
- Project Management						
ProjectManagementStrategySoftware License		FY 2013-14 - SSID Standard				
Compliance - Web Policy						

Historical Review

FY 2008-9	FY 2010-11	FY 2011-12	FY 2014-15	FY 2016-17	FY 2017-18
- Acceptable Use Policy	- Software Evaluation Policy	- Cloud Computing	- Metadata Standard	- Cybersecurity Policy	- Data Classification Standard
- Security Policy	- Virtual First Server Procurement			- DPR3 Policy	- Cybersecurity Training & Awareness
- Environment Purchasing	- Fiber Access	FY 2012-13		- Drone Policy	
- Green Policy	Management	- Email Policy			
- Project Management					
—Project Management Strategy		FY 2013-14			
		- SSID Standard			
- Software License Compliance					
- Web Policy					

Recommendation: Sunset Policies

Policy	Description	Justification
Fiber-Optic Access Management	The Department of Technology will manage CCSF fiber.	Policy not warranted. Internal to DT operations.
"Virtual First" Server Procurement	IT managers must explore virtualization options prior to asking for new servers.	Outdated policy. The technology has moved on.



Next Steps

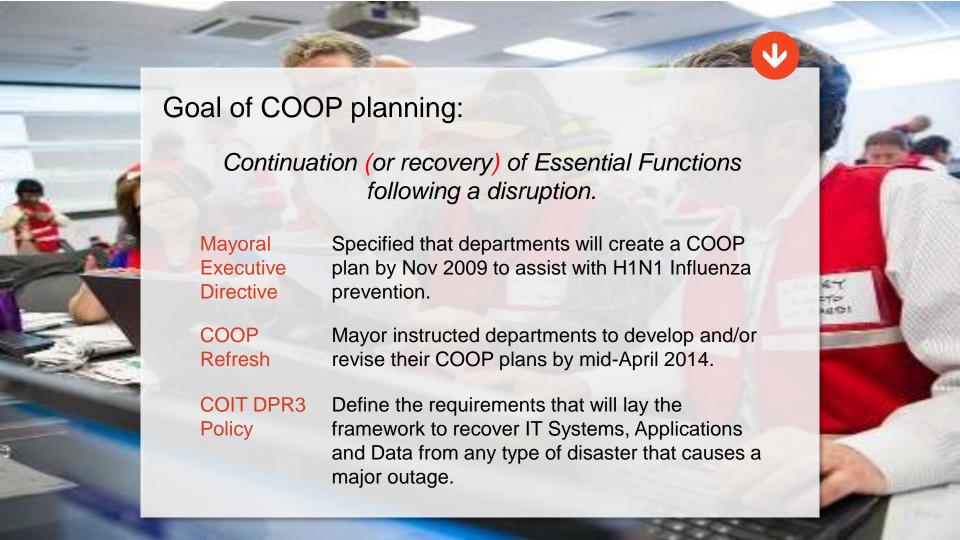
Future Policy Development

- Acceptable Use Policy
- Cloud Computing
- Email Policy
- Environment Purchasing
- Green Policy

- Project Management
- Software License Compliance
- Software Evaluation Policy
- SSID Standard
- And others...









COOP Workgroup Process

- 1. Structured plan development link business processes, COOP and IT together
- 2. Monthly meetings to discuss planning and templates
- 3. On-line tools and resources
- 4. Exercise template

10	-		1					~ 100000			
2017					2018						
Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Kickoff	Self-assmt	Mission Organiz	Process NonFin	Backup Rec/Rest	Staffing Phys Asst	Utilities Cyber	Personnel Contact	Delegate Facilities	Comms Go-kits	Update	Final
Risk Analysis	Essential Functions	Mobiliz Process	Financial Asset cost	InterD	Vendors Unique	Altern	List	Train on Draft	Exercise		
								Diane			

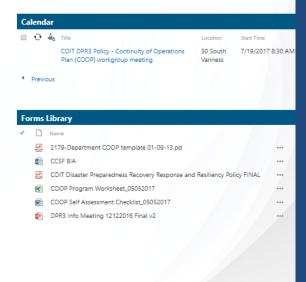
Resources

The fundamental mission of every governmental organization engaged in developing a COOP is reliability of service, particularly in times of emergency.



The public cannot be expected to overlook lapses in the delivery of vital government services, especially in the wake of a disaster when the protection of public health, safety and general welfare remains a matter of the public trust. An organization's resiliency is directly related to the effectiveness of its continuity capability. An organization's continuity capability—its ability to perform its essential functions continuously—rests upon key components or pillars, which are in turn built on the foundation of continuity planning and program management.





https://sfgov1.sharepoint.com/sites/TIS/Collaborations/COOP/Si

Department of Technology Continuity of Operations (COOP) Plan





DT - COOP Plan - Overview

Summary: DT developed IT Focused COOP Plan addressing resiliency towards people, places, process and IT Operations.

Project High Level Timeline:

Start Date – 06/12/2017 **End Date** - 10/02/2017 **Duration** – 4 Months

Resources Involved:

> KETCHConsulting and DT Cybersecurity (BCDR) Team



DT - COOP Plan - Deliverables Achieved

Business Impact Analysis(BIA) –

- The objective of the BIA was to identify and prioritize the following:
 - Mission essential processes, Data Inventory, Backup, Restoration and their interdependencies
 - Staffing requirements during the initial recovery
 - Critical vendor contact information
- The BIA exercise helped to determine the Recovery Time Objective, Recovery Point objective and Recovery Strategy.
- Workshop conducted with selected participants from each division in DT were involved in executing BIA.

Risk Evaluation(RE) -

- Conducted a detailed risk evaluation of Department of Technology's currently occupied buildings and current operations
- Developed a Risk Evaluation report with recommendations for mitigating identified risks.



DT - COOP Plan - Deliverables Achieved

COOP Plan-

- The information acquired during the BIA & RE was utilized to develop Department and Division IT COOP Plans.
- Selected participants from each Division worked together on development of COOP Plans and conducted training for each Division Managers on the COOP Plans.

Tabletop Exercise –

- Three Tabletop Exercises were performed with multiple Divisions on different Scenarios to validate the Division and Department IT COOP Plans.
- An After-Action Report identified the successes and area of improvement.



Elements in COOP Plan

- Governance for maintaining each COOP Plan
- Procedures for activating each COOP Plan
- Who is leading each COOP response and who are their proxies
- Cataloging and Prioritizing Mission Essential
 & Highly Important IT Processes
- Cataloging IT processes which can be suspended until DT's environment is stabilized
- IT and other assets which are required for executing the COOP (e.g. vendors services, backup data, asset costs, etc.)

- Alternate locations for performing recovery and normal tasks (primary and secondary locations)
- Staffing requirements for the initial 120 hours of recovery response
- Intra and inter Department information and service dependencies
- Vendor contact information
- Check list for responding to a major incident
- Procedures & check list for returning to renovated or new work site
- Staff contact list



Lessons Learned

- To ensure success, Top Down Approach to be followed on this program.
- Create a comprehensive Project plan for the development of the COOP Plan
 by identifying resources, time durations, dependencies and constraints.
- COOP Planning should be a daily, monthly, quarterly and yearly focus.
 - At least once a year you should run a full blown test of the DR solution you created.
 - If a system is crucial to the business a quarterly test should be done.
 - The more testing you do the higher the confidence in your solution you will have.



DPR3 Compliance





Exercise/Drill and Training - DPR3 Compliance

Ongoing Exercise/Drill and Training Planned to be compliant with **DISASTER PREPAREDNESS, RESPONSE, RECOVERY AND RESILIENCY (DPR3)**

- Disaster Preparedness and Recovery: Disaster Recovery Test To test the recovery procedures to resume critical processes and restore data; Safeguard data for all DT Supported and Managed City's Mission Critical Systems and Application – Multiple-Continuous
- **Response:** *Emergency Communication Test* Everbridge Mass Notification *Quarterly*
- **Response:** Fire Evacuation Drill; Safeguard the Employees (people) Bi- Annually
- Response: Great Shake Out Drill; Safeguard the Employees (people) Annually
- **Resiliency:** *COOP Tabletop Exercise* To promote familiarity and Feasibility of COOP Plans; identify on any gaps and actions *Once a Year*
- Response and Recovery: DOC Communication Drill- To test Emergency Planning and Recovery operations – Bi – Annually



| Any Questions?



COIT Update

November 16, 2017

Hiring stats FY 2016/17

Total applications: 138,956

Total number of hires: 8,643

Number of recruitments posted: 1,627

Total Applicant Profiles: 500,000

Current Applicant Tracking System: JobAps (Contract expiration 11/2018)



Hiring is challenging for all of us

Hiring impacts the entire city and requires citywide collaboration.

Hiring leaders serve as valuable contributors to the design, development and implementation of user-centered hiring solutions that ensure the success and evolve how we hire.





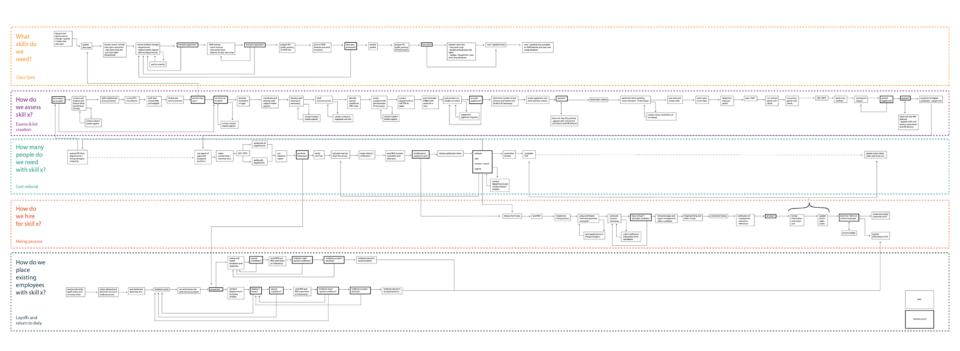
What we've done so far

- → 14 workshops with HR professionals
- → 2 workshops and 6 interviews with Hiring Managers
- → 20+ interviews with candidates (including work done prior to joining CCSF)
- → 4 sessions bringing all three user groups together to unpack larger recommendations
- → **Journey maps** of all three users' experiences with accompanying analyses
- → Log of pain points identified by user type and service module (where in the process it comes up)
- → Monthly Steering Committee meetings with with representation from 15 departments
- → Weekly meetings with working group representatives
- → Civil Service Commission and Labor provided with project overview





Translating workshops into journey maps



What we've heard so far

- → Candidates and hiring managers don't understand the process and feel there is a mismatch of skills and jobs
 - Hiring managers don't understand how hiring might play out differently for different types of hiring (Permanent Exempt, Temp Exempt and Permanent Civil Service)
 - Hiring managers feel constrained by who they can interview, and have poor understanding of the list rules/structure
 - ◆ Candidates are confused by job description language and don't know if they are the right fit for the job
- → Time-intensive and manual processes with duplicative data entry at multiple stages of the process
 - Badge processing requires nine different systems
 - Once a hiring manager knows who they want to hire there is a lot of manual data entry to create a record for that
 person in PeopleSoft and tying that person to a specific job
- → Constant back-and-forth and lack of structured workflows and any form of automation
 - Request-to-fill / Form 3 requires departmental back and forth





What we're doing next

- → Two parallel tracks rooted in discovery work and pain points
 - Unpacking larger recommendations coming out of secondary set of workshops to better understand where we want to go
 - ◆ **Testing interventions** that can be started today to understand how we get there
- → Developing the "could-be" journey maps (in an ideal world)
- → Putting together recommendations for modular RFP



9. Public Comment