



COMMITTEE ON INFORMATION TECHNOLOGY

Special Meeting

May 5, 2017

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

AGENDA

1. Call to Order by Chair
2. Roll Call
3. Approval of Meeting Minutes from April 20, 2017 (Action Item)
4. Chair Update
5. CIO Update
6. FY 2017-18 & FY 2018-19 General Fund Department Recommendations (Action Item)
7. San Francisco City Employee Drone Policy (Action item)
8. Public Comment
9. Adjournment

3. Approval of Minutes

Action Item

4. Chair Update

CIO UPDATE

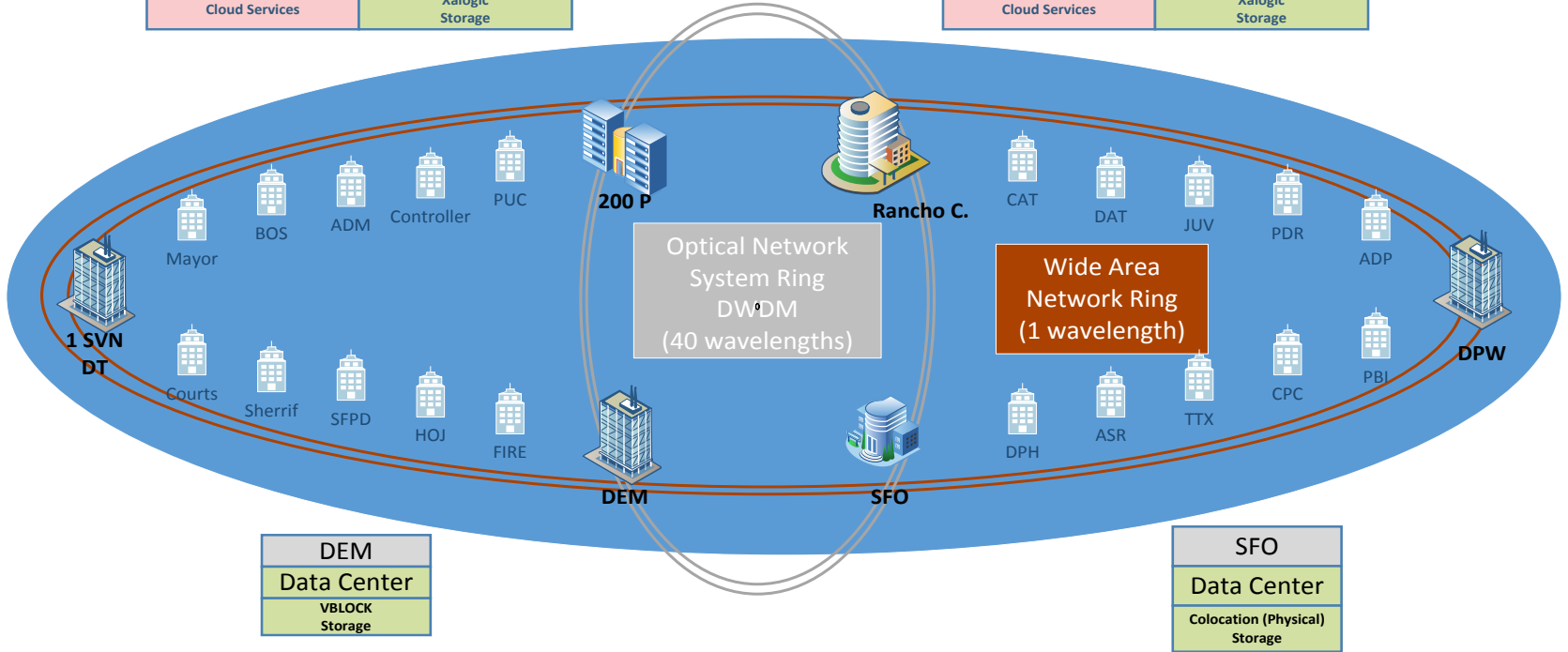
- Data Centers
- Mainframe
- Upgrade the Network
- VoIP



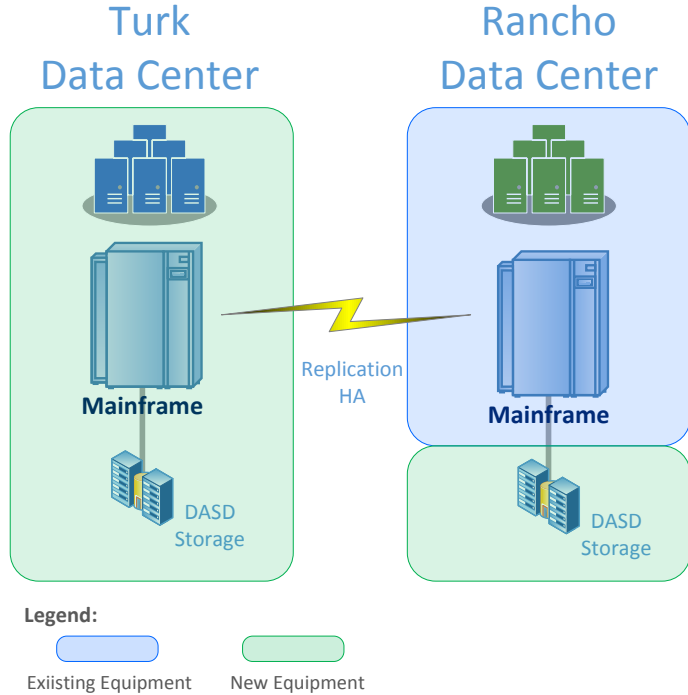
SAN FRANCISCO
DEPARTMENT OF
TECHNOLOGY

Data Center 1	
External Internet	Data Center
AirWatch Services VOIP Services VPN Services Internet Services WebApps in CCSF DMZs Identity Management (SSO) Cloud Services	VBLOCK eMerge FSP IAM CWAD Mainframe Xalogic Storage

Data Center 2	
External Internet	Data Center
AirWatch Services VOIP Services VPN Services Internet Services WebApps in CCSF DMZs Identity Management (SSO) Cloud Services	VBLOCK eMerge FSP IAM CWAD Mainframe Xalogic Storage



Mainframe Migration



Migration Plan

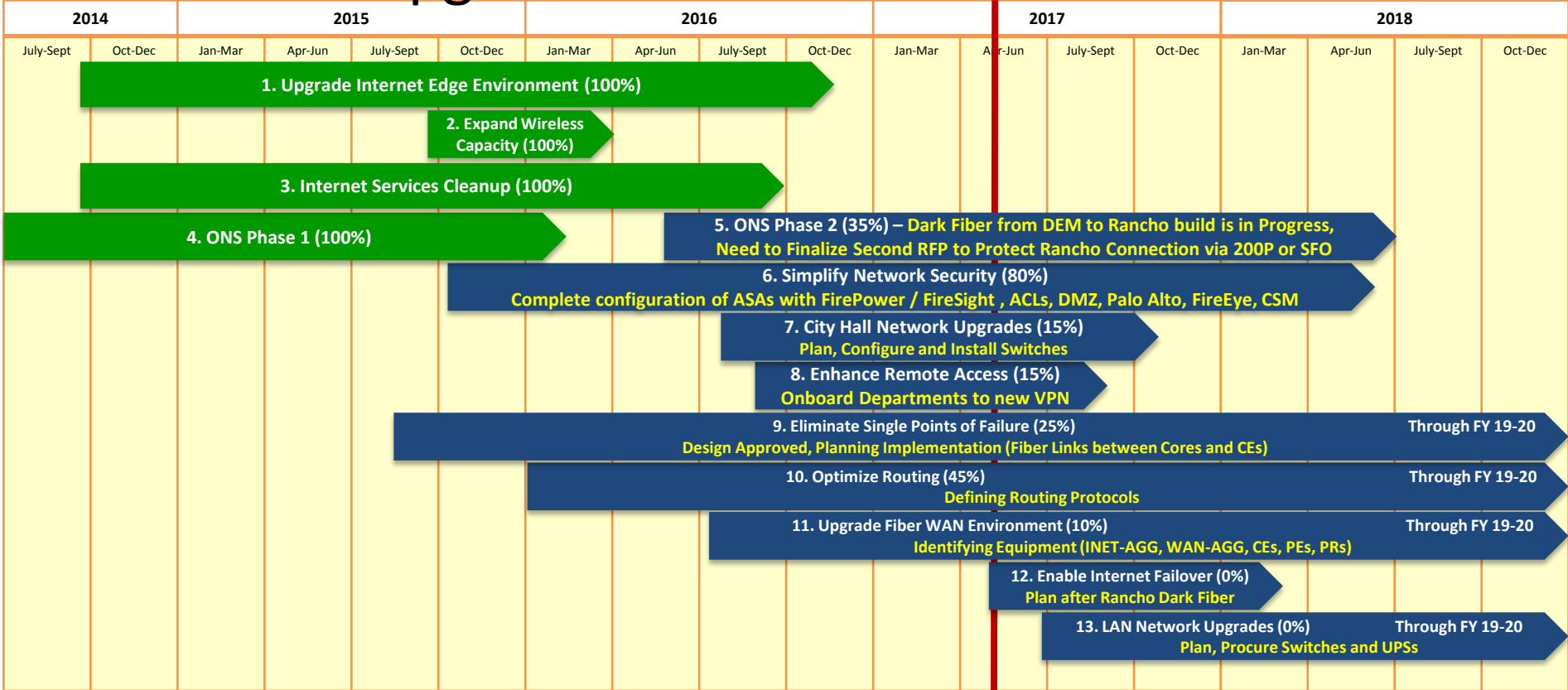
1. Install new IBM z13 System it at 1011 Turk data center to run production
2. Retire the end-of-life IBM system at 200 Paul so no longer pay for leased cage space as of January 2018
3. Replace end-of-life Virtual Tape System & DASD Storage at Rancho data center
4. Establish replication between Turk and Rancho sites

Advantages to Plan







1. Lease financing mainframe reduces up-front capital cost and allows project completion without additional funding
2. City owns the IBM equipment at end of lease period
3. Upgrading to a new production mainframe lowers annual IBM licensing costs
4. System is replicated with warm stand-by so current DR recovery time is maintained

Upgrade the Network Schedule

Today



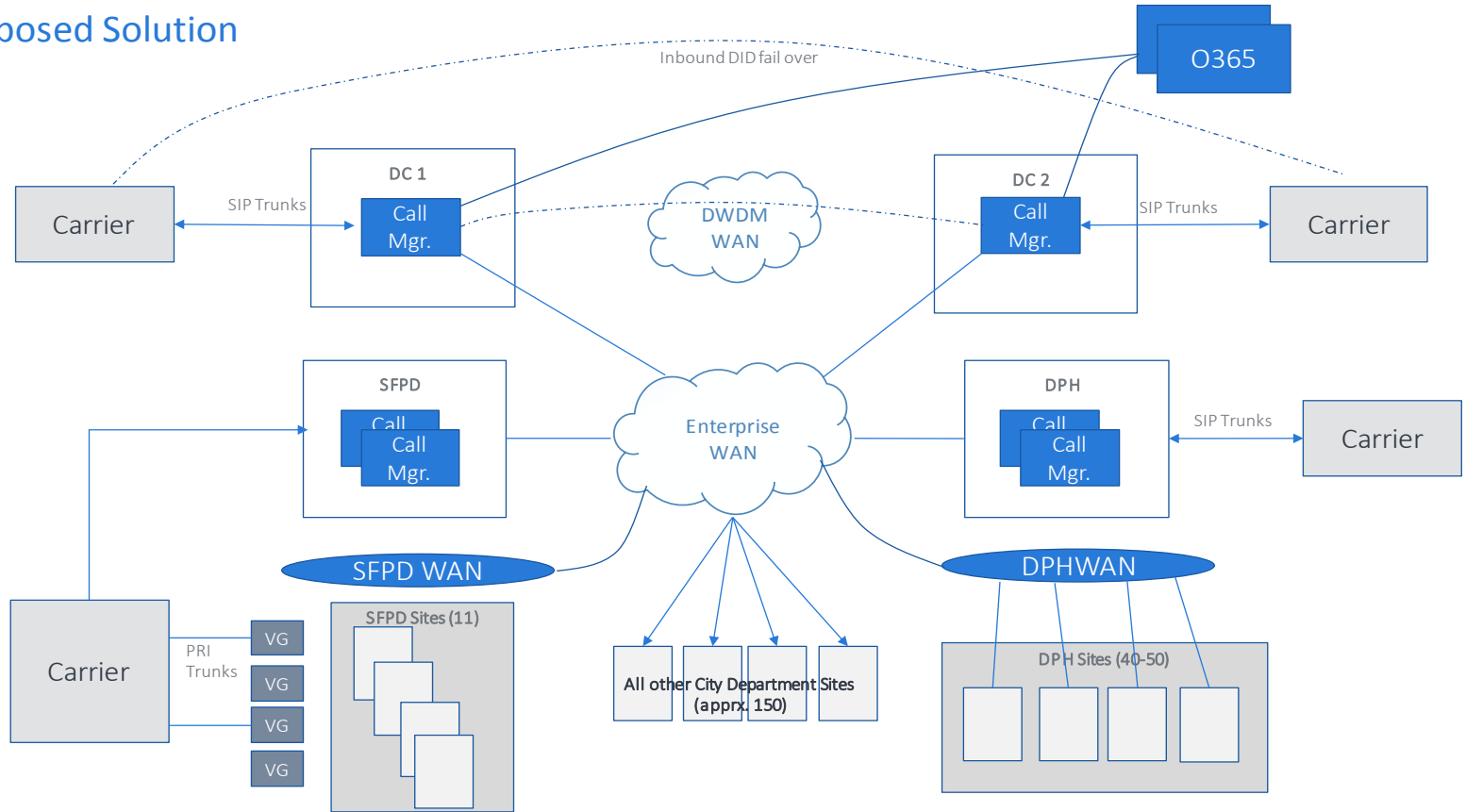
Citywide VoIP - Alternatives Considered

	Cloud Vision	Hybrid Vision	On-Premise Vision
Basic Telephony	Cloud-Based 	Premise-Based 	Premise-Based 
Call Center		Cloud-Based 	

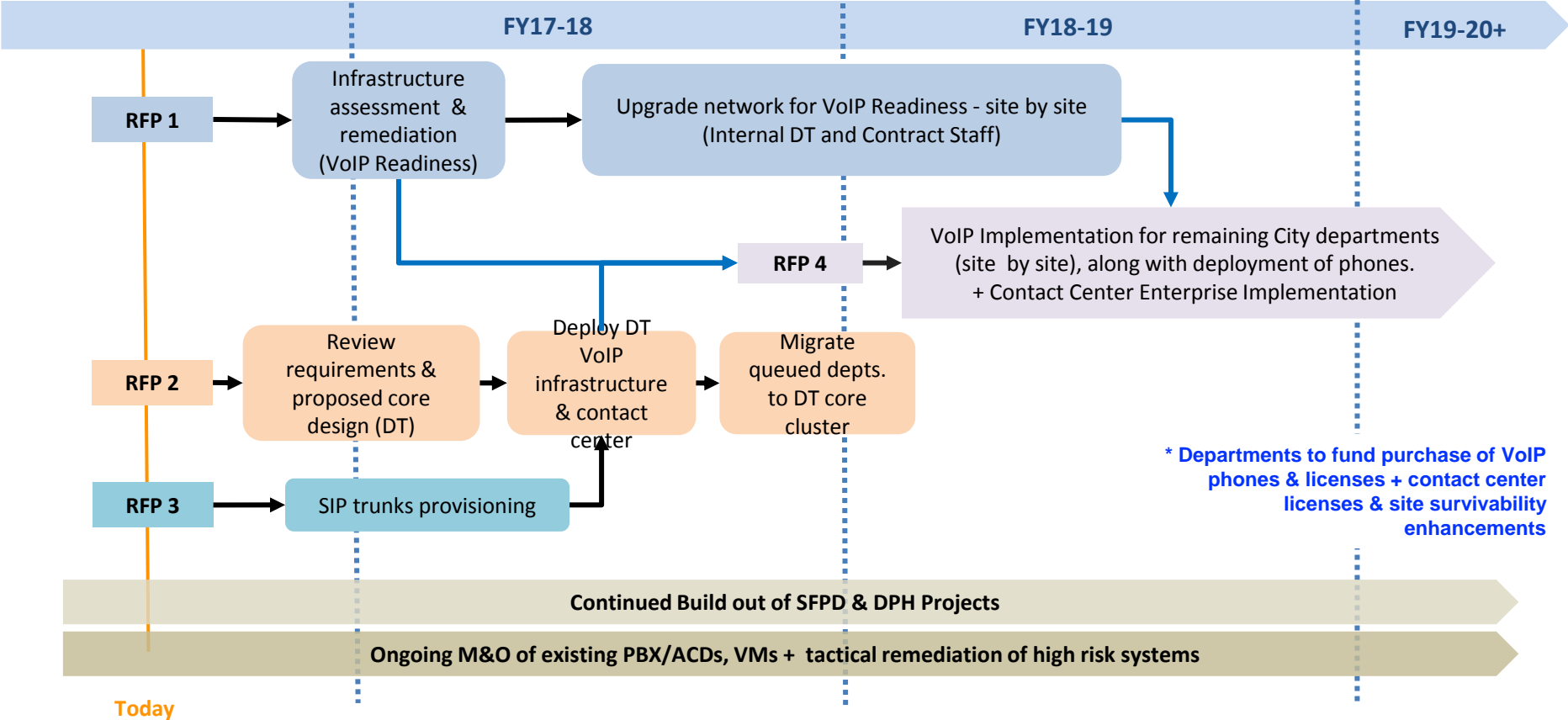
- DT issued an RFP to determine available alternative VoIP solutions:
 - Cloud Solution
 - POCs with Interactive and Cisco completed
- Cloud solutions of the size of the City and County of San Francisco are not proven
- Cost for cloud solution is much higher than an in-house premise based solution

Citywide VoIP

Proposed Solution



Citywide VoIP



FY 2017-18 & FY 2018-19 General Fund Department Recommendations

May 5, 2017

(Action Item)

COIT Budget Update

COIT Allocations

	FY 17-18	FY 18-19	Total
Major IT Projects	18.6	20.5	39.1
Annual Project Allocation	11.7	12.8	24.5
Total	30.3	33.3	63.6

Note: All figures in \$ millions.

Major IT Project Allocation

	FY 17-18	FY 18-19
Major IT Allocation	18.6	20.4
Funding Recommendation	18.6	19.0
Radio Replacement	8.3	8.3
Property Assessment & Tax System	10.2	10.7
Citywide VoIP	-	1.4

Note: All figures in \$ millions.

Annual Project Allocation

- Department Highest Priority
- Project Plan
- Coordination with Other Departments
- Funding Sources
- Performance

Recommendation Groups

1. Recommended for Funding
2. Approved Projects, Deferred COIT Funding
3. Other Funding Sources

Budget Recommendations

- Arts Commission
 - \$120,000 for Salesforce Database

- Board of Supervisors
 - \$390,000 for Legislative Management System

Budget Recommendations

➤ City Administrator's Office

- \$103,410 for City ID System Upgrade
- \$900,000 for E-Signature

➤ Controller

- \$221,250 for Image Upgrade of eMerge
- \$129,800 to expand Employee Gateway Portal
- \$29,500 to expand Enterprise Learning Management

Budget Recommendations

- Emergency Management
 - \$383,940 for Operations Floor Expansion
- Ethics Commission
 - \$150,000 for E-Filing Project
- Health Service System
 - \$150,000 for Self-Service Online Premium Payments

Budget Recommendations

➤ Human Resources

- 178,000 for Employee Training Pilot Project

➤ Police

- \$625,000 for eCitations hardware
- \$427,000 for vehicle modem upgrades
- \$600,000 for website refresh
- \$2,081,775 for Foundational Network Systems

Budget Recommendations

➤ Public Defender

- \$125,000 for Gideon Case Management

➤ Sheriff

- \$250,000 for Jail Management System Scoping

Budget Recommendations

➤ Department of Technology

- \$1,220,000 for City Cloud Hardware
- \$1,000,000 for Business Continuity in Rancho Cordoba
- \$600,000 for Citywide Active Directory Upgrade
- \$800,000 for Identity and Access Management
- \$375,000 for Third Party Patching
- \$3,860,543 for Upgrade the Network

City Employee Drone Policy

May 5, 2017

(Action Item)

Policy Objective

- Establish a standard form of conduct
- Layer increased protections for privacy and public safety in addition to FAA regulations
- Establish a sustainable framework for evaluation

Privacy Principles

- Transparency
- Data Minimization
- De-Identification
- Sustainable Privacy Program Management

Policy Details

- The City's Drone Policy requires each participating department to adopt a policy that reflects the requirements iterated in this document. Departments may add requirements to their drone policies, but may not remove any requirement in this document, or use drones for any reason outside the “use cases” identified for each department.
- The departmental drone policy must be reviewed and signed by all drone operators in participating departments, and any individuals with access to drone data that may contain Personal Identifiable Information.
- Engaging in the unauthorized use of drones or activities that are inconsistent with this Policy may subject an officer or employee to discipline, up to and including termination of employment or removal from office, as well as to applicable monetary fines and penalties.

Authorized Use Cases

- Fire Department
- Office of the Controller
- Recreation & Parks Department
- Public Utility Commission
- Port

Authorized Use Cases – Fire Department

Incident Response:

- Building fires: identify: rescues, hot spots, hazards, structural integrity, exposures, fire progression, 5 sided view of the building, and review fire operations post-incident.
- Search and Rescue for water and cliff rescue response: Video and Thermal imaging can help identify victims in the water or stuck on a cliff. Drones can deliver flotation devices to victims in the water.

Disaster Response:

- Surveys of high occupancy sites (schools, hospitals)
- Surveys critical infrastructure
- Identify Fires, Building Collapse and victims.
- Assist in prioritizing incidents & allocation of resources

Training:

- Operator proficiency, identify drone capabilities and limitations
- Reviewing ground, water and cliff operations training evolutions



Authorized Use Cases – Controller

- ❖ Disaster Response & Recover: Aerial review of areas affected by disasters or emergencies.



Authorized Use Cases – Parks Department

- ❖ Construction Management: Inspection of SFRPD project sites for contract and environmental compliance.
- ❖ Disaster Response & Recovery: Inspection of properties, facilities, and assets during and after disasters.
- ❖ Emergency Management: Park Rangers rapid response to emergencies on park land.
- ❖ Environmental Monitoring: Flora and fauna type and health, spills and leaks, erosion.
- ❖ Inspections: Surveys and assessments of SFRPD properties, facilities, and assets.
- ❖ Mapping: Digital elevation models, land use maps, 3D models, contours.
- ❖ Marketing: Capture videos and still photographs.
- ❖ Search & Rescue: Reconnaissance and assist during an emergency, both for water and land operations.



Authorized Use Cases – Public Utilities

- ❖ **Construction Management:** Inspection of project sites for contract and environmental compliance.
- ❖ **Environmental Monitoring & Documentation:** Vegetation type and health, wildlife, streams/reservoirs.
- ❖ **Inspections:** Surveys and assessments of SFPUC properties and assets.



Authorized Use Cases – Port

- ❖ Disaster Response & Recovery: Inspections during and after a disaster.
- ❖ Inspections: Surveys and assessments of Port properties.
- ❖ Marketing: Capture video and still photographs.



Evaluation

Drone Advisory Committee

- Mayor's Office
- City Administrator
- Committee on Information Technology

Evaluation Period

- Date of COIT Approval until June 30, 2018

Review Focus Areas

- Impact evaluation
- Privacy practices and data retention
- Review additional authorized use cases

8. Public Comment
