



## **Presentation Objectives**

- Inform Council and Public on status of IT
- No action required

# IT Processes – Overview from Budget Session

- IT Strategy Long Term Plans
- Service Desk keep systems operating
- Stakeholders Work with all departments
- Requirements Meet the needs
- Portfolio Management Manage what we have
- Project Management Plan and execute





### IT Purpose

- IT Solves Business Problems for our Users
- Increase productivity of all staff
- Apply technology solutions where needed
- Maximize value over technology lifecycle



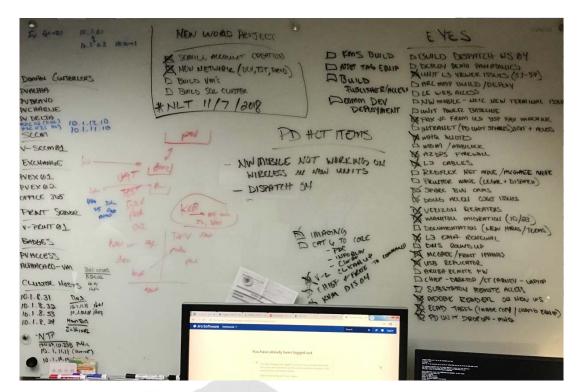
#### 4 out of 5 staff are new

- 1 New CIO
- 2 New Analysts, 1 Existing Analyst
- 1 New GIS Analyst

1<sup>st</sup> 90 days – 2/3 staff departed

New Staff - Private Sector Background

- High skill
- Ownership
- Very Productive
- Dedicated to improving PV
- My Staff is why we can get so much done, so efficiently





# Clean up so we can get to work.





FM200 Fire Suppression System Before After



## ~35 Projects in ~5 months

- New VPN Services
- Complete Email move
- Town Hall Wiring Redesign\*
- Fiber Optic Campus upgrade\*
- Cyber Security Intrusion Detection
- Standard Microsoft Software
- Asset Tags Inventory

- New Data Center Net
- Centralized Storage
- VMWare Virtualization
- Private internal cloud
- New Wireless Network\*
- VolP Phone Evaluation\*
- Standard Laptops, PCs
- Rebuild Police Vehicle Tech Platform

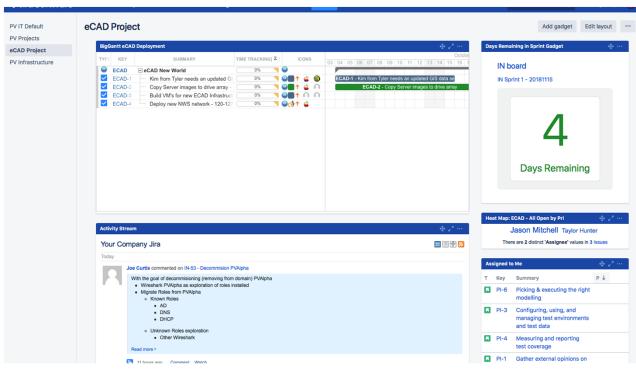




### **Standard Computers – Ready in 30 minutes**

Dell Desktops or Laptops
20 email support clients to Outlook 365 on Windows 10
Dual Monitors – 20-30% increase in productivity – spend \$160.79 get 10k on 50k staff member

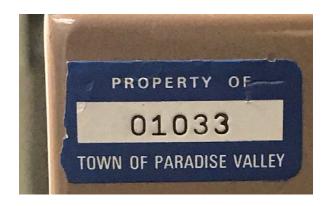




#### **Project Management Software**

Tracking PV IT, GIS and eCAD projects
Collaborative AGILE methodology (Based upon KanBan, Lean, JIT Manufacturing)



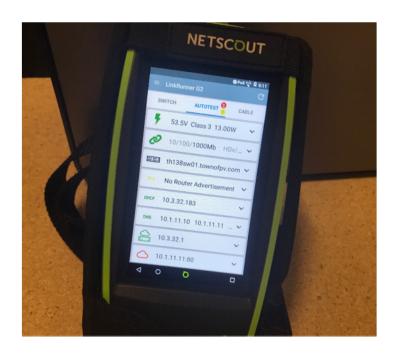




#### **Asset Tags**

Reestablished an Asset Management System





#### **Staff Tools**

Network testing and diagnostic tools help get staff back to work quicker

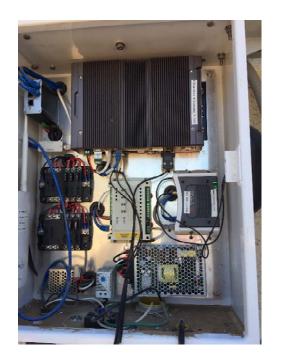




#### **Deferred Maintenance – Public Works, Finance**

Found 5 Computers/Laptops and iPad pro still in boxes 3 Months to build a computer -> 30 minutes Regular Scheduled Maintenance Now – Upgrading line of business applications







**Deferred Maintenance – Fixed Site LPR** 

Reviewed each site

Develop short term support plans as they reach end of service life





### **New PD Laptops to Replace Tablets**

Reviewed each site

Develop short term support plans





#### **Moving to Paperless Processes**

Deployed Acrobat Pro to migrate documents to PDF where possible Centralized processes, faster processing







Network Connections – 10 Minutes

### **Cyber Security**

Centralized logging – see 9,047 to 20,100 attacks a day on the Town at 1 of our 64 addresses



1 Year Industrial august Included

#### **Existing Environment**



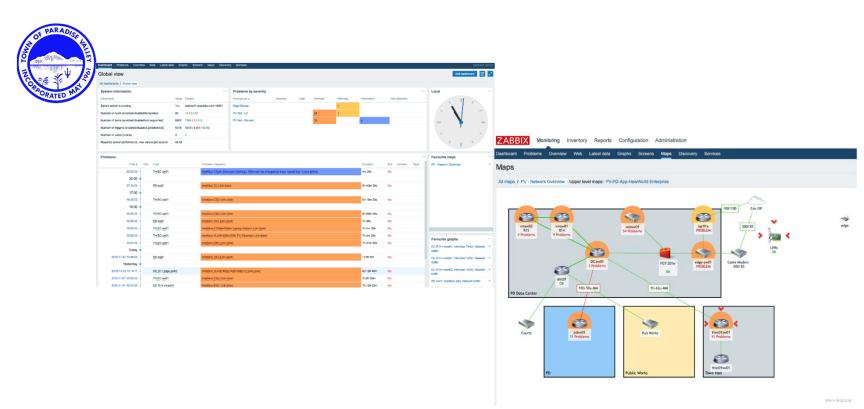
# CDD, Legal, IT, Finance, HR [½ PD, ½ PWD, Courts TBD]



**Staff Productivity Killers** 

Office 2010, 2013, 2016 and Student Editions

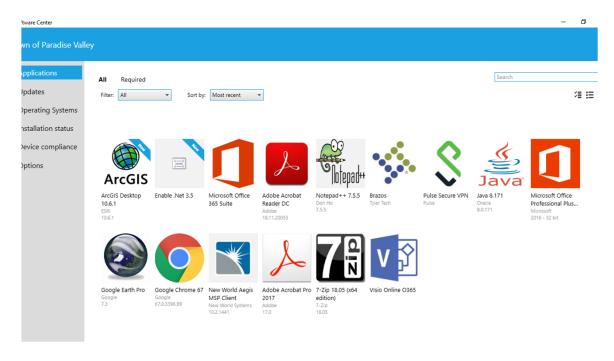
Directors had to save in different version depending on staff assigned



#### **Open Source Network Monitoring Software - Free**

Avoided a 15K cost for commercial network monitoring software No Capital Costs, no O&M other than talented staff

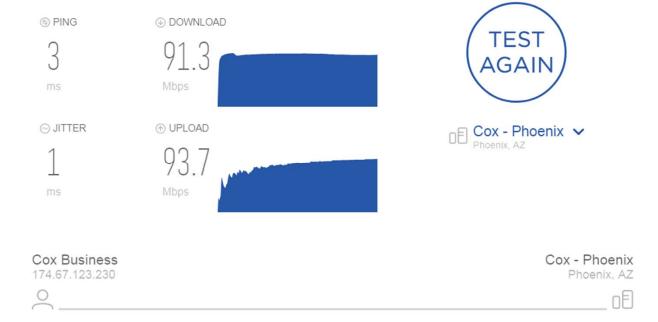




#### **Employee Self-Service**

Staff can load their own software without waiting for IT Internal PV App Store for our most needed tools





#### **Internet Connection**

100Mbps (70% = 31.5Gb/hr) – low for cloud services Zabbix network monitoring tool collecting data for upgrade BWC, Cloud Backups, Dual Link for Redundancy





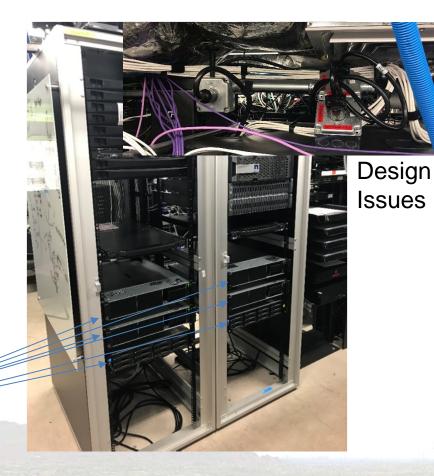
Existing Servers (22)

#### **PV Private Cloud**

4 Virtual Private Cloud Servers

2 Storage Arrays (Disk)

2 Network Switches (Hidden)















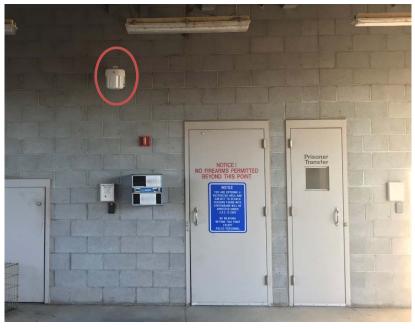
Piloting new VoIP Phone Systems

### **1999-2000 Phone System**

300 phone numbers, 100 lines capable Last service man retired in 2017 End of Sale circa 2006







**Campus Wi-Fi** 

Mobile Devices need connections

10 devices replaced with 1 enterprise grade solution



## **External Support**

- Only used one vendor in the past
- Evaluating 3 good local vendors

- Internal PV Design
- Develop on Total Cost of Ownership – reduce hidden costs
- Open Source Software
- Documentation so we can have good scope on future projects



### New Management Controls

- Inventory
- Monitoring
- New Accounting Codes
- Beginning IT Standards

- Annual Maintenance
   Agreements Schedule
- Clear Purchasing

