

AGENDA

- 1. Intro IT Overview
- 2. Software Assets Software and Geographic Information Systems (GIS)
- 3. Fiber Infrastructure
- 4. Cybersecurity Initiatives



INFORMATION TECHNOLOGY OVERVIEW

MISSION STATEMENT

To provide innovative and secure technical solutions and support that promote efficient delivery of public service to enhance the quality of life for residents, visitors, and our communities.

Information Technology Department

AGENCIES SUPPORTED

- City of Encinitas
- San Dieguito Water District
- San Elijo Joint Powers Authority
- Encinitas Fire
- Del Mar Fire
- Solana Beach Fire



Information Technology Functional Areas

Business Applications

Geographic Information Systems
Administration

Enterprise Resource Planning Application Administration

Business Process Analysis

Data Analytics

System Integration

Online Customer Service Portal

Software Customization

Database Administration

Operations and Engineering

Network and Data Center Administration

Help Desk Operations

Emergency Operations

Telephony and Radio Communications

Fiber Interconnectivity and Smart City Infrastructure

Capital Project Management

Inventory Management

Multimedia

Digital Content Innovation

Website Administration

Video Production

Audio Visual Engineering

Knowledge Transfer Outreach

Evolving Communications Using Technology

Public Meeting Broadcasting and Support

Cybersecurity

Cyber Incident Response

Risk Mitigation

Audits and Penetration Testing

Lead Cybersecurity Compliance Committee (C3)

Security Policy Development

Cybersecurity Awareness Training

Electronic Discovery Forensics

Federal and Regional Cybersecurity Collaboration



The i-Tree

Applications



What you see on your screen

Operations and Engineering



Often, what you don't see

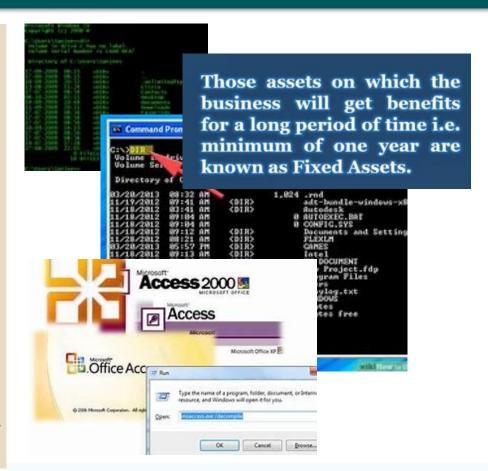


SOFTWARE AND ASSET MANAGEMENT

ENTERPRISE ASSET MANAGMENT — The Role of Software

ENTERPRISE FIXED ASSETS - PROJECT BUDGET \$109,000

- Software plays a key role:
 - Maintenance tracking /condition
 - Physical location 'mapping'
 - Financial Reporting
- · Software ages out:
 - · Rapid change in technology
 - Isolated system
 - No longer secure
- · Processes become out-of-date
- What has worked in the past:
 - · May not be best fit for future
 - Best Practices evolve along with technology





ENTERPRISE ASSET MANAGEMENT - The Role of GIS

GIS = Geographic Information System

- GIS:
 - Land Assets easements
 - · Ongoing mapping effort
 - Precise locations 'all' assets
 - Comprehensive inventory
 - Over 141 layers of infrastructure
 - Ongoing maintenance \$
 - · GIS data supportive role
 - NASCCO* rating values
 - Industry standard codes
 - GIS vital visualization tool, example:
 - · Road Pavement Condition
 - Pipe condition

*NASCCO = National Association of Sewer Service Companies



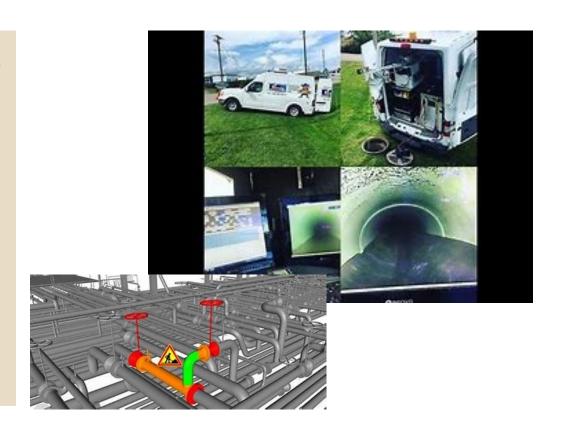
Sewer Pipe within Sewer Easement



ENTERPRISE ASSET MANAGEMENT - Multi-year effort

ENTERPRISE ASSET MANAGEMENT

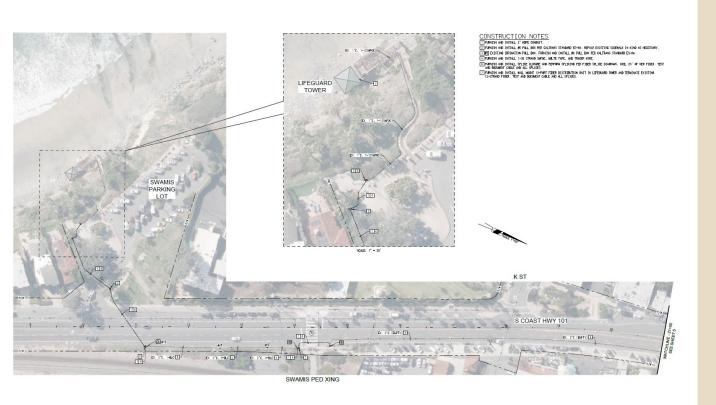
- FY24 \$109,000 (Year 1)
 - · Software & Hardware
 - Identify Ongoing Needs and System Improvements
- Year 1 Goals
 - Discovery
 - Immediate Priorities
 - Review across enterprise
 - Identify Best Practices
- Future
 - Modern
 - Predictive
 - Dashboard
 - Scenarios
 - Cross Integration





FIBER INFRASTRUCTURE

SWAMI'S LIFEGUARD TOWER = \$200K



PROJECT BUDGET \$200,000

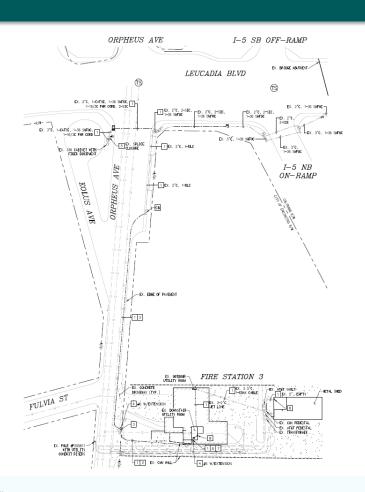
Design: Complete

Integrate Swami's Lifeguard Tower with existing fiber optic connection at Encinitas Blvd. and F St.

Replace wireless connection for Traffic Control Box at Swami's/Santa Fe Ped Xing



FIRE STATION 3 = \$100K



PROJECT BUDGET \$100,000

Design: 95% Complete

Replace leased circuit at Fire Station 3 with city-owned

Eliminate monthly ISP fee

Expand number of physical supported networks from 1 to 3



STREETSCAPE - B ST. to LA COSTA= \$200K





PROJECT BUDGET \$200,000

Conduit & pullbox installation included in initial construction phases

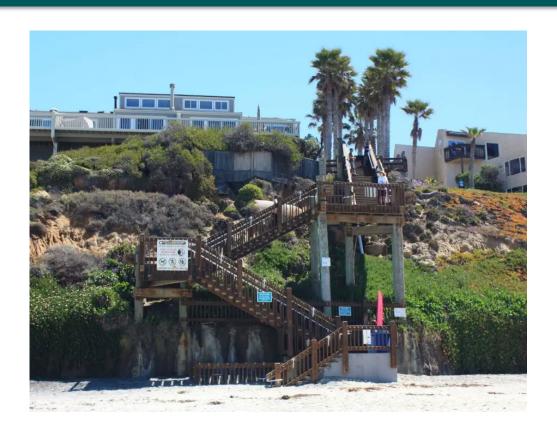
Fiber optic cable installation and termination still needed

Replaces wireless connections for Traffic Control Boxes at Leucadia and La Costa

Connectivity points for future fiber splices and tech projects



GRANDVIEW LIFEGUARD TOWER = \$250K



PROJECT BUDGET \$250,000

- 0% Design
- Prerequisite Streetscape
 Fiber complete
- Provides computer and phone connectivity for Marine Safety staff



CYBERSECURITY INITIATIVES

ZERO TRUST ARCHITECTURE = \$200K



PROJECT BUDGET \$200,000

Hybrid workforce security -Expands security beyond the network perimeter

Continuous authentication and verification

Large professional services overhead while permission levels are reviewed and planned



FUTURE SECURITY CONTROLS = \$50K - \$100K Annually



PROJECT BUDGET \$50,000 - \$100,000

Increased funding for new security tools each year

Threats are increasing in scope, quantity, and complexity

Increased use of Automation in security tools

Partnerships with other SOCs, CISOs, and Security teams

Training and Incident Response Exercises



QUESTIONS?