



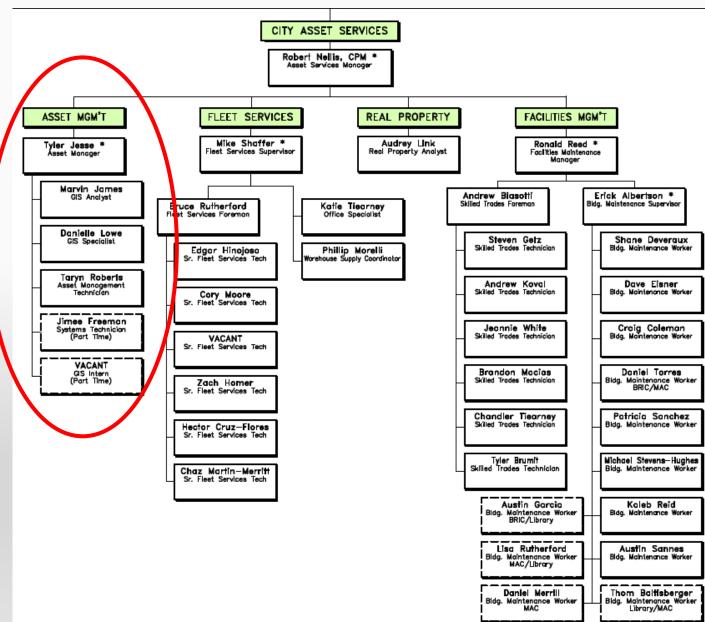
## Asset Management & GIS Update

Maximizing Useful Life Minimizing Risk **Provide High Quality Infrastructure Saving Money** Tyler Jesse Asset Manager **Robert Nellis Asset Services Manager Board of Supervisors Retreat** February 29, 2024



### **City Asset Services**









## Asset Management Refresher

#### What is Asset Management?

- ISO 55000 Definition: Ensuring that the assets deliver maximum value.
- O This means that an asset:
  - Delivers its functional requirements in line with the business objectives and
  - Does so in the most economical, safe, sustainable and reliable manner.

#### **Goals of Asset Management**



Minimize risk and maximize the effective useful life of City assets



Optimize customer service



Improve succession planning and the transfer of institutional knowledge



Develop a proactive maintenance and planning strategy

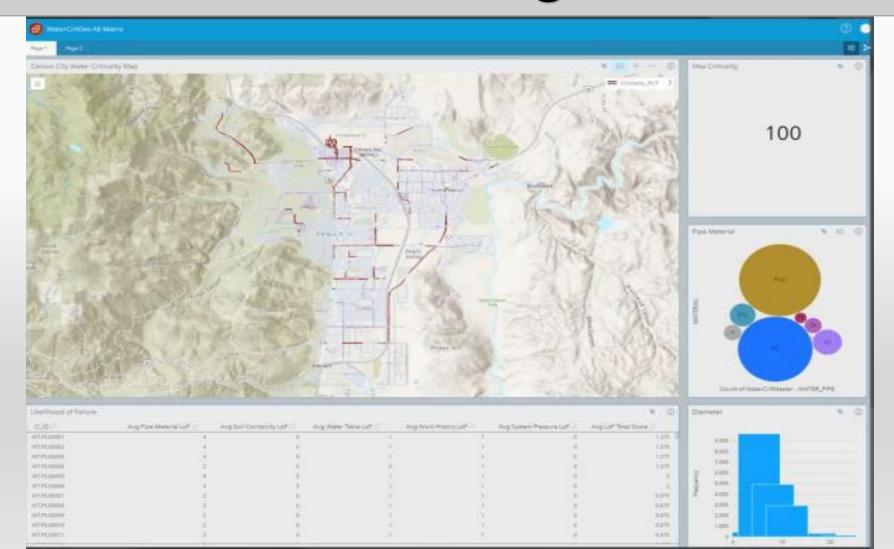


Promote data driven decisions and increase transparency





## **GIS Asset Management**







## 2022 BOS Recap

### Major themes of last presentation:

#### A. GIS:

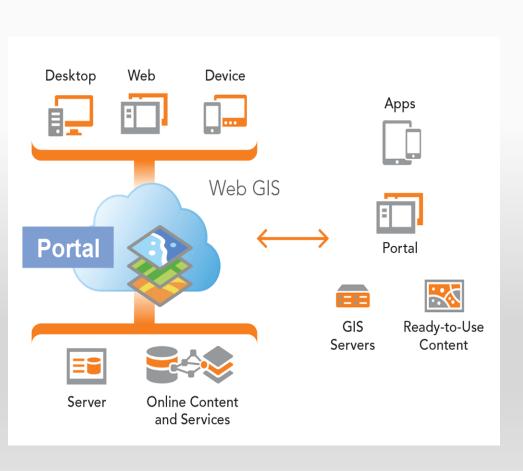
- GIS architecture upgrade
- GIS Assessor migration
- Covered important apps:CityView, Lead and copper
- B. AssetMGMT:
  - ISO55000 SAMP
- C. Next Steps were:
  - Attain Forecasting CIP Software
  - Update GIS Strategic Plan
  - Parks onboarded into EAM







## GIS Architecture Upgrade

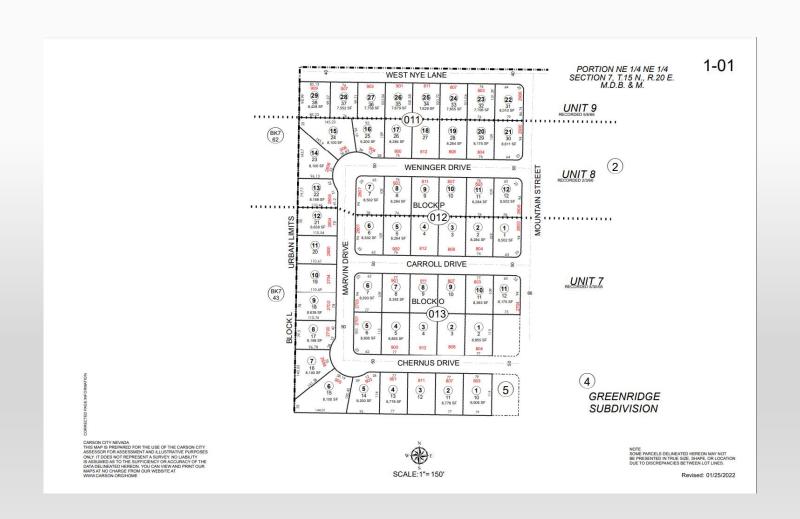


- Maximize ArcGIS value
  - Deploying new mobile apps is easier
  - Internet facing capability
  - Splits user load for more throughput
  - Enables use of all licenses
  - High availability





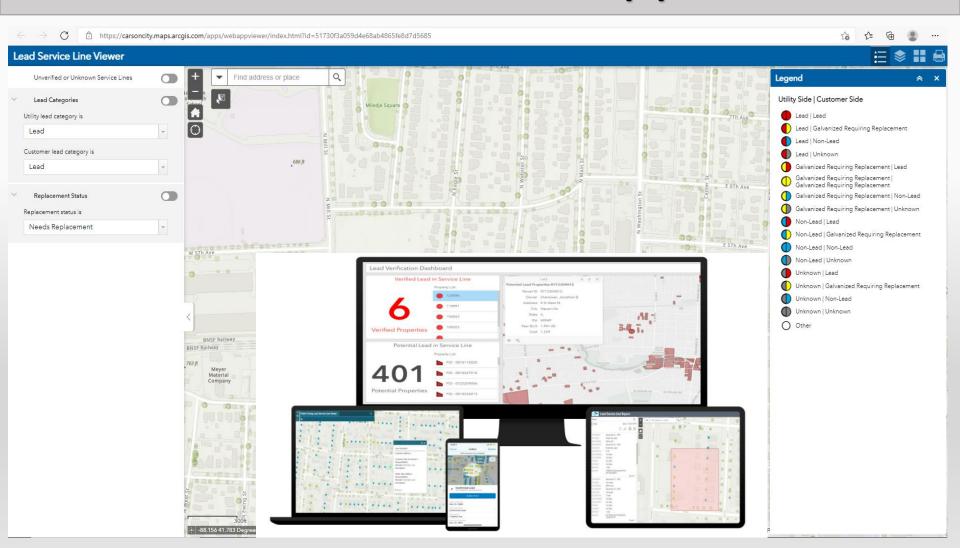
## 2022: GIS Assessor Migration







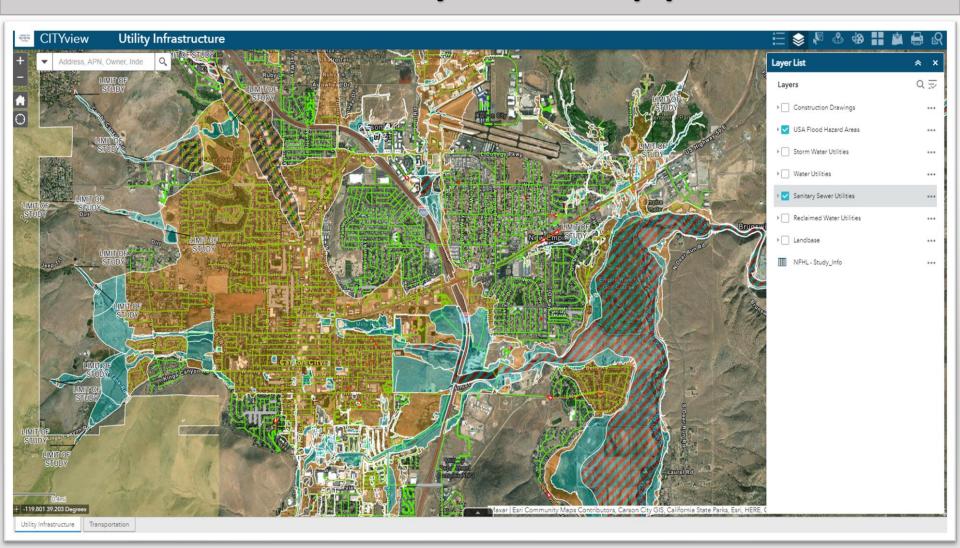
## **GIS Lead and Copper**







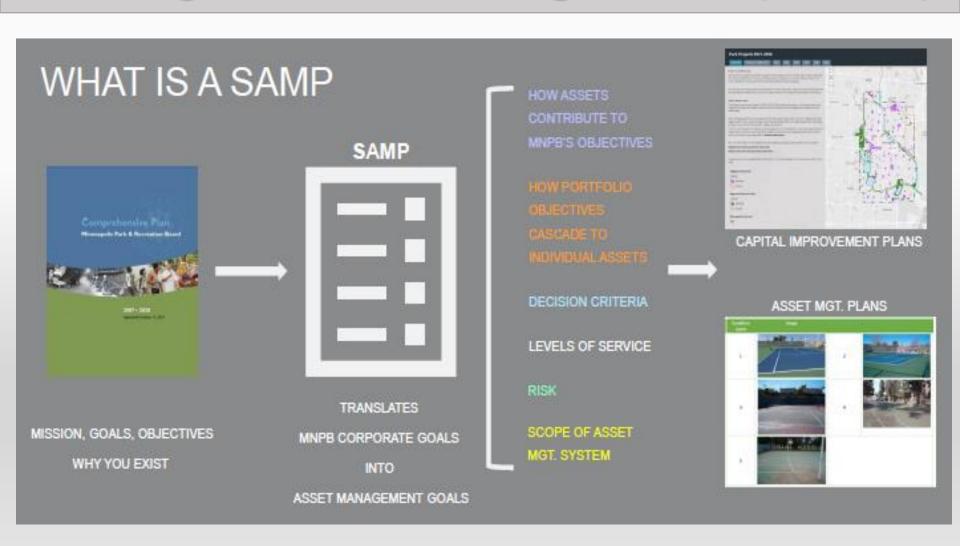
# GIS CityView App







# Strategic Asset Management (SAMP)







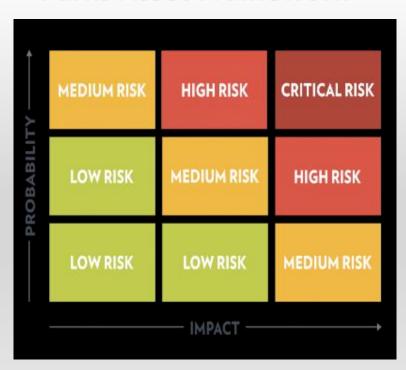
## 2022 Next Steps

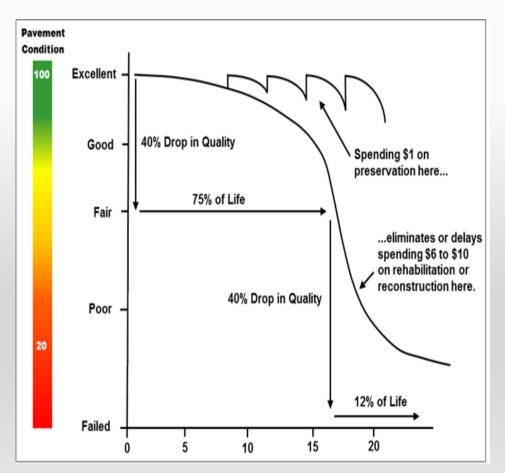
Acquire and Implement CIP Forecasting

**Software** 

Update GIS Strategic Plan

Parks Asset Framework









# Asset Management Today

- 1. Asset Management Initiatives
- 2. GIS:
  - a) Small Government Enterprise Agreement
  - b) GIS initiatives
- 3. Data Optimization Technology (DOT)

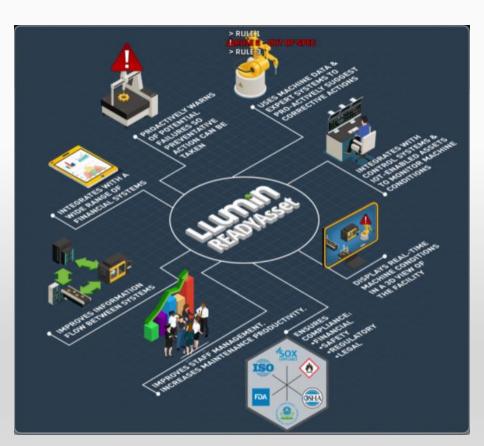






## Asset Management Initiatives

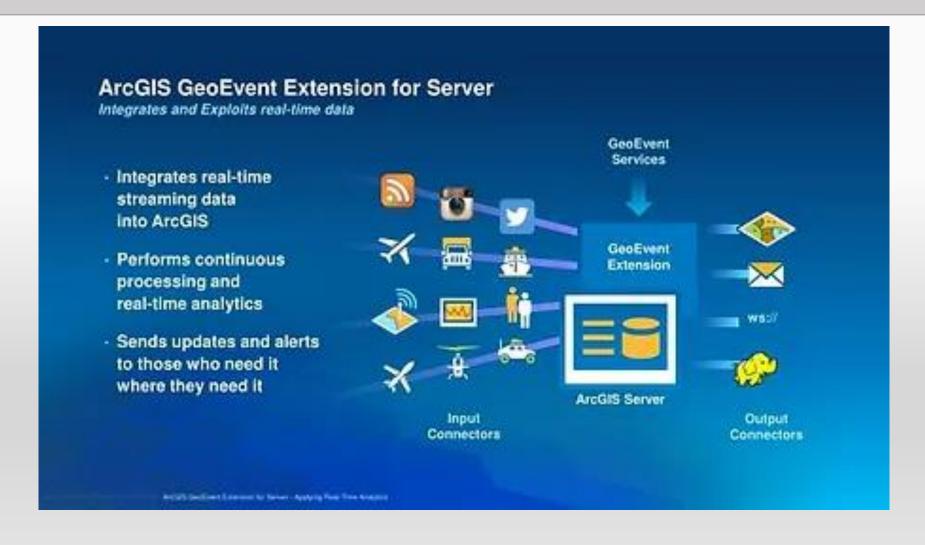
- Fleet Software Review
- Parks Equipment Onboarding
- Parks Operations Onboarding
- Bar Coding
- Enterprise Asset Management
  Tutorials
- Dashboarding and Reports
- Landfill Assets inventoried







### Small Government Enterprise Agreement (SGEA)







### **GIS HUB**



- Visibility for Public and Employees
- Centralization
- Access from Granicus
- Content
  - GIS HUB Mission
  - GIS at Carson City video
  - Data portals (Public and Employee)
  - Featured Applications
  - Training Storymaps
- Future Development





## Data Optimization Technology

#### **Risk and Forecasting Definitions:**

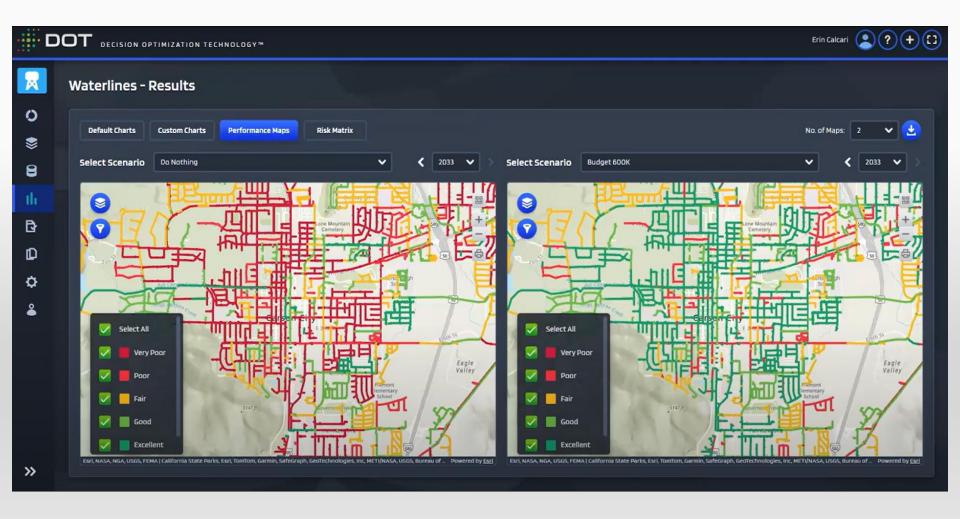
- Risk: is the product of Likelihood of failure and Consequence of failure
- <u>Forecasting</u>: in this context is making predictions on the future state of our assets based on current condition and various intervention funding scenarios







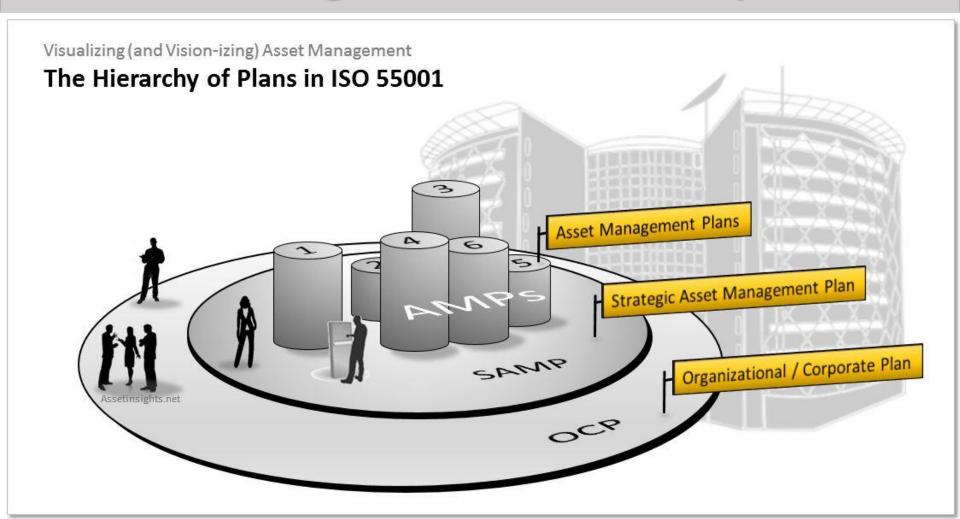
## Data Optimization Technology







## Strategic Plan Next Steps

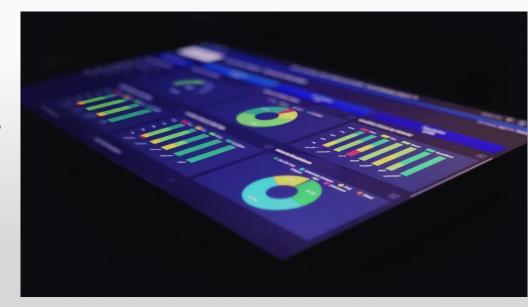






## Strategic Asset Management Plan (SAMP)

- Ensure alignment with Board's strategic goals
- Identify Stakeholder needs & expectations
- State of Asset Management and proposed strategy to meet objectives







## **GIS Strategic Plan**

### **Key Initiatives**

- Inter-Departmental Collaboration
- Business Process Support
- Mobile GIS Enhancement
- Citizen Engagement







## Goals & Objectives

- Visibility
- Mobility
- Reporting
- Asset Management Objectives
- Asset Management Plans
- EAM Process reviews







# **Questions & Discussion**

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