



# STAFF REPORT

**Report To:** Board of Supervisors

**Meeting Date:** June 2, 2016

**Staff Contact:** Darren Schulz, Public Works Director

**Agenda Title:** For Discussion Only: Presentation on Geographic Information Systems (GIS) and Asset Management in Carson City. (Danny Rotter, drotter@carson.org)

**Staff Summary:** Douglas County currently provides Geographic Information Systems (GIS) support to Carson City Departments and the Public. Effective July 1, 2016, Carson City will be changing the direction of how we provide those services to internal departments and the public. In addition, the overview of how those services are related to continual improvement in Sustainable Infrastructure, aka Asset Management.

**Agenda Action:** Other/Presentation

**Time Requested:** 10 minutes

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## **Proposed Motion**

N/A

## **Board's Strategic Goal**

Sustainable Infrastructure

## **Previous Action**

N/A

## **Background/Issues & Analysis**

Since 2011, Douglas County has provided GIS services to Carson City. Effective July 1, 2016, Carson City will be changing the direction of how we provide those services to internal departments and the public. Numerous items related to this will be on the agenda following the presentation.

## **Applicable Statute, Code, Policy, Rule or Regulation**

N/A

## **Financial Information**

Is there a fiscal impact?  Yes  No

If yes, account name/number:

Is it currently budgeted?  Yes  No

Explanation of Fiscal Impact:

## **Alternatives**

N/A

**Board Action Taken:**

Motion: \_\_\_\_\_

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_

Aye/Nay

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_

\_\_\_\_\_  
(Vote Recorded By)

# Board of Supervisors



Carson City

Public Works Department

# Geographic Information Systems and Infrastructure/Asset Management

June 2, 2016

# Geographic Information Systems (GIS) in Carson City

- The “original” GIS example: paper maps maintained by the Carson Water Company.
- In the late '90's an aerial mapping effort was completed to document other assets including storm and sanitary sewer.
- IT original information systems
- In the 2000's, a 3-person division provided GIS and mapping services to City departments and the public.
- In 2011, due to budget cuts the division was split up and the City entered into an interlocal agreement with Douglas County for \$250,000 per year and 4,000 hours of services provided. One GIS Specialist remained with Public Works to support utilities and one GIS Analyst went to the Assessor's office to support mapping efforts.

# Infrastructure/Asset Management

- We already do a lot of this, but there's room for improvement! #Kaizen

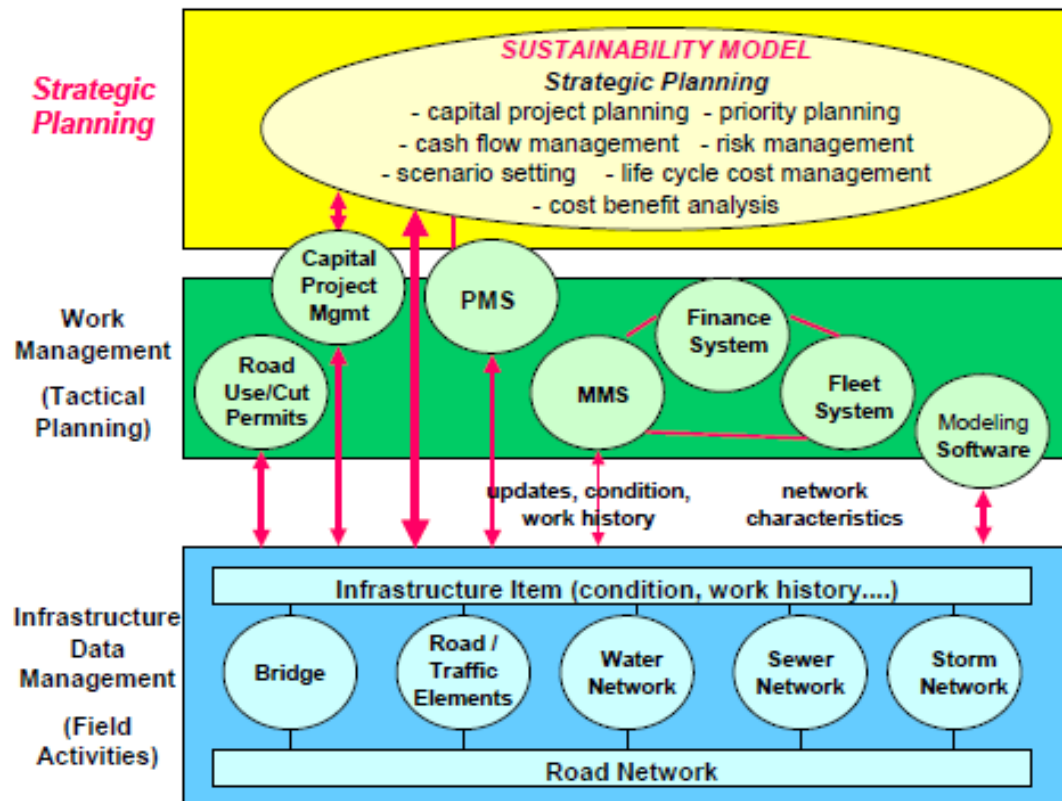


Figure 1-5  
SUSTAINABLE ASSET MANAGEMENT

# Infrastructure/Asset Management

- What does this mean to Carson City?
- What do we have? (Asset inventory)
- What is its condition? (Condition/Risk assessment)
- How much do we spend on it currently and/or should we? (Maintenance records)
- Are we meeting our goals? How much should we be spending? (Strategic planning / budgeting / performance measures)
- Placing the right amount of money, at the right location, at the right time leads to sustainable asset management.

# Future of GIS / Infrastructure/Asset Management in Carson City

## – GIS

- GIS Specialist to Infrastructure/Asset Manager – Public Works
- Assessor GIS Analyst to be more involved in parcel workflows for GIS
- Consultant support of on-going needs and upgrading/streamlining workflows. IE possible upgraded public viewer, traffic signal inventory. AppGeo contract to provide 'core' services and Assessor-related scope. Michael Baker contract to provide 'on call' services as Department needs arise. Also will help with streamlining workflows and processes.
- Web Based GIS – ArcGIS.com (requires next level of licensing)
  - *Over time reduce reliance on consultants and complicated desktop software*
  - *Open data, easier to use for public*

## – Infrastructure/Asset Management:

- Real Property / Asset Management Division
- Facilities under Public Works effective July 1, 2016
- Infrastructure/Asset Management Plan and funding mechanism options. IE Reserve study

# Board of Supervisors



## Carson City Public Works Department

Questions?

