INFRASTRUCTURE ASSET MANAGEMENT:

“A CITY PERSPECTIVE”

CEAM 2012
Why Is Asset Management Important?

Provides sound management tools that allow a City to make informed and cost-effective decisions while ensuring proper maintenance and investment in City Assets/Infrastructure.

Sound asset management allows a City to maintain infrastructure at the lowest life cycle cost for the desired level of service.
As public officials and employees we are charged with maintaining and improving a variety of assets including: streets, water systems, sewer systems, storm sewer systems, fleets, parks and municipal facilities.

Shrinking budgets and staff sizes do not allow for sufficient personnel to effectively manage assets without an asset management program.
City Assets

- Streets
- Bridges
- Street Lights
- Street Signs
- Pedestrian Facilities
- Sidewalks/Trails
- Traffic Signals
- Communications/Fiber Optic
- Storm Sewer
- Water Quality Ponds
- Storm Lift Stations
- Sanitary Sewer
- Sanitary Lift Stations
- Watermain
- Water Treatment Facilities
- Wells
- High Service Pumps
- Water Towers/Reservoirs
- Meters/AMR’s
- City Buildings/Facilities
- Parking Lots/Facilities
- Parks
- Trees
- Fleet
- Materials
- Labor
1) Define asset management goals & develop a plan
2) Inventory existing assets and infrastructure
3) Utilize Asset Management tools to track labor and infrastructure maintenance/improvement
4) Develop user interface access information
5) **USE IT!** Link Capital Improvement and Long Range Planning documents to program
Define Asset Management Goals & Develop a Plan

1) Why are you doing this and what information do you want to be able to access?
2) What are your budget constraints (startup & annual)?
3) Prioritize assets for implementation
4) How will you collect and input the information and will it integrate with existing systems?
5) How will you manage and update the data?
6) How will you access the data?
To accomplish inventory and setup you can utilize consultants, staff and interns to gather data. Develop a protocol for verifying data through normal operations.

Evaluate data collection technology options: GPS, cell phone, laptops, tablets etc.
In Burnsville we utilize a consultant for software set up and a combination of full time staff and interns to collect and update data. No additional FTE's added existing staff reallocated.
In Burnsville we utilize asset management software to generate work orders, manage as-built info and to record/track utility, street sign and storm water system maintenance. We are in the process of adding street lights, traffic signals and park maintenance to the system along with planning and budgeting tools.

We utilize pavement management software to assist with street maintenance.
Utilize Asset Management System to Track Labor & Infrastructure Maintenance (cont.)

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Labor, materials and budget are tracked through integrated financial asset software system.
In 2012 we will begin using an information management system to track fleet and material resources for snow and ice control. Plans to expand to fleet management and sweeping.
1) Identify your users
   - Internal: Engineering, Public Works, Parks, Natural Resources, Finance, Police & Fire
   - External: Consultants, Public, Contractors

2) Determine how users will access information (web, internal or cloud based)

Burnsville utilizes a cloud or hosted system for public works asset maintenance and tracking. This allows staff to access information externally at lowest cost with greatest flexibility. This also allows the City to provide controlled access to information by internal and external users.
GIS Based User Interface
System Demonstration

City of Burnsville – Vueworks Demo
Utilize Asset Management for Real Cost Budgeting and Long Range Planning
Benefits

- Provides improved decision making tools
- Eliminates dependence on institutional knowledge
- Improves maintenance and extends life of infrastructure
- Increases staff efficiency
- Improves long term financial planning and provides budget stability
- Allows for access by emergency services and public
- **Saves time & money!**
Questions?