



## LODI CITY COUNCIL

Carnegie Forum  
305 West Pine Street, Lodi

## "SHIRTSLEEVE" SESSION

Date: August 28, 2012

Time: 7:00 a.m.

For information regarding this Agenda please contact:

**Randi Johl**

**City Clerk**

**Telephone: (209) 333-6702**

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### Informal Informational Meeting

**A. Roll Call by City Clerk**

**B. Topic(s)**

B-1 Receive Information on the City of Lodi Geographical Information System (PW)

**C. Comments by Public on Non-Agenda Items**

**D. Adjournment**

Pursuant to Section 54954.2(a) of the Government Code of the State of California, this agenda was posted at least 72 hours in advance of the scheduled meeting at a public place freely accessible to the public 24 hours a day.

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Randi Johl  
City Clerk



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# CITY OF LODI COUNCIL COMMUNICATION

**AGENDA TITLE:** Receive Information on the City of Lodi Geographical Information System (GIS)  
**MEETING DATE:** August 28, 2012  
**PREPARED BY:** Public Works Director

**RECOMMENDED ACTION:** Receive information on the City of Lodi Geographical Information System (GIS).

**BACKGROUND INFORMATION:** The City's GIS, originally developed in the mid-1990's, was built using a basic mapping software (also known as a database viewer) called Mapguide. Since, the City has made a significant investment in both manpower and software costs to create a very comprehensive and useful GIS system that is heavily used by City staff and members of the public to access information ranging from bus routes to zoning.

As the City's GIS system evolved, and the demand for more data increased, the Mapguide viewer became increasingly unreliable and needed replacement. On March 21, 2012, Council authorized the replacement of Mapguide with a more robust product made by Environmental Systems Research Institute, Inc. The installation of the new viewer was performed by Interwest Consulting Group and is currently operational.

Interwest Consulting Group will provide a presentation that includes information on the City's GIS and a demonstration of the City's upgraded viewer.

**FISCAL IMPACT:** Not applicable.

**FUNDING AVAILABLE:** Not applicable.

\_\_\_\_\_  
 F. Wally Sandelin  
 Public Works Director

Prepared by Charles E. Swimley, Jr., City Engineer/Deputy Public Works Director

FWS/CES/pmf

**APPROVED:** \_\_\_\_\_  
 Konradt Bartlam, City Manager

The City of Lodi  
**Public Works**



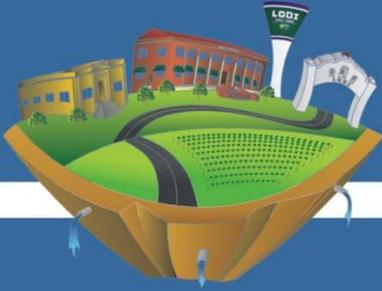
City of Lodi  
**Geographical Information System (GIS)**

August 28, 2012



# Overview

- What is GIS?
- Uses of GIS
- Overview of Lodi's GIS
- Viewer Demonstration
- Questions



# What is GIS?

- Geographic Information Systems
  - Intelligent Maps
  - Location-Based Information
  - Visual Data Management
  - Uses are Evolving
- GIS Requirements
  - Data
  - Staff
  - Software
  - Hardware



# Uses of GIS

**Asset  
Management**

**Planning &  
Analysis**

**Field  
Mobility**

**Operational  
Awareness**

**Constituent  
Engagement**

*A Complete Integrated System*

Collect, Organize,  
& Exchange Data



Transform Data  
Into Actionable  
Information



Get Information  
Into and Out of  
the Field



Disseminate  
Information Where  
and When It Is  
Needed



Get Feedback and  
Make Informed  
Decisions





# Lodi's GIS

- Initiated Mid-1990's
  - Mapguide Viewer
  - Land Use / Zoning
  - Asset Tracking
  - Internal / External Information
- Evolving Uses
  - Asset Management
  - Focused Operations
  - Software Integration
  - More Users
- Mapguide Capabilities Exceeded



# Lodi's GIS

- Viewer Upgrade
  - Interwest Consulting Group
  - Design / Install / Configure
  - Data Migration
    - 120 Layers
    - Land Use / Zoning / Assets
    - Ownership / Operational Information
  - Internal Viewer
  - External Viewer





# Viewer Demonstration

- Live Demonstration of New Viewer



# Next Steps

- Maintain GIS Committee
- Future Needs Assessment
- Establish Funding Sources
- Coordinate Projects
  
- GIS Committee Priorities
  - ✓ Retire Mapguide
  - ✓ Upgrade Viewer / Migrate Data
    - Long-Term Strategy



# Next Steps

- Examples of Future Projects
  - Demographic Analysis for Library
  - Floor Plan Information for Police and Fire
  - Integrate Building Permit System
  - Integrate CMMS Systems
  - Mobile Applications
  - Pole Line Surveys



# Questions