

Making an IMPACT

City of Austin Work Coordination

Public Works Department
Communications & Technology Management

November 2013



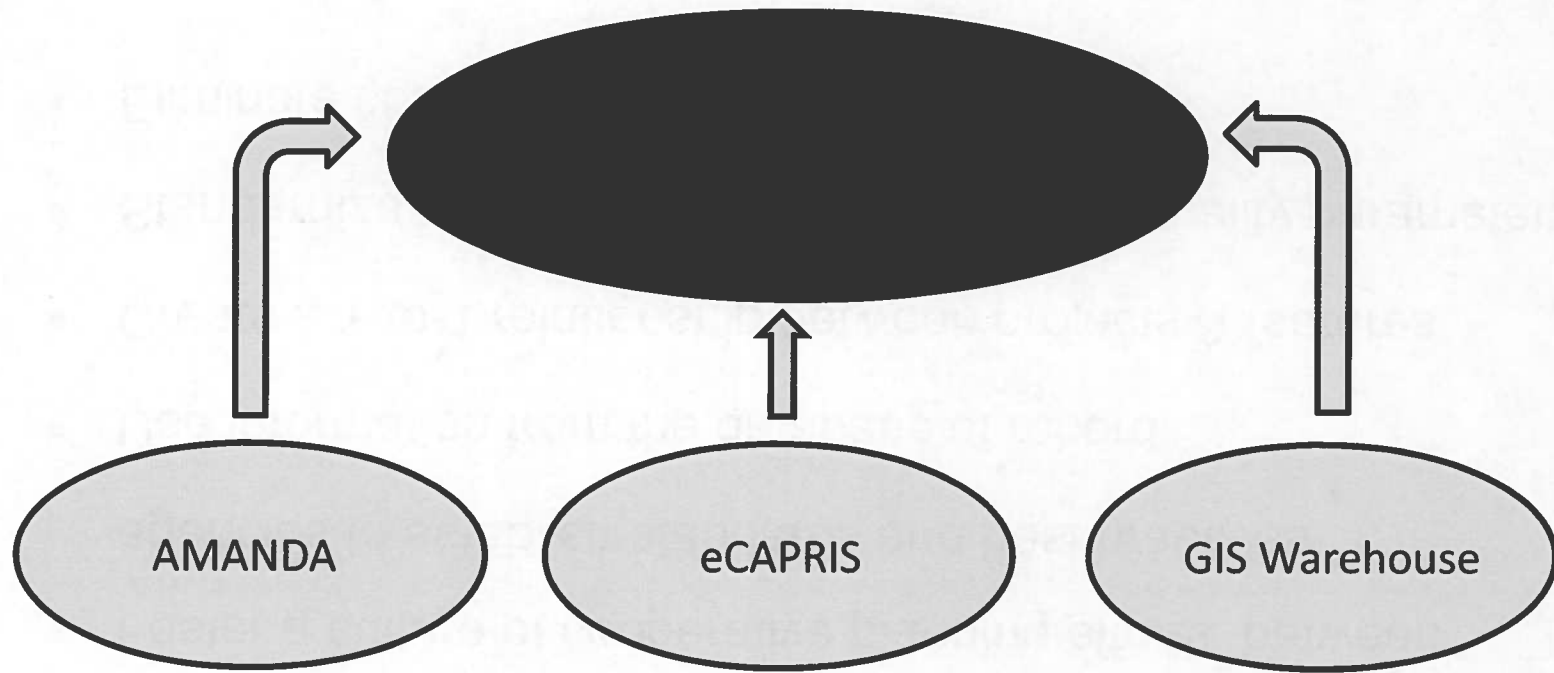
Need for Improved Project Coordination

Colorado Street Reconstruction

- Full depth reconstruction
- Wet utilities relocations
- Drainage improvements
- Telecommunications
- Sidewalks/street furniture
- Private development
- Traffic management
- Business operations



Project Concept



- Provide both geospatial and temporal data
- Address project conflict resolution (CIP, Operations, and Events)
- Integrates public and private work



Success Factors

- Garner executive and technical support
- Foster a culture of cooperative planning efforts between agencies to establish standards and best practices
- Use information from the database of record
- Create a 1-to-1 relationship between projects & features
- Standardize map representations and data quality parameters
- Eliminate costly rework



IMPACT

(Infrastructure Management, Mapping, Planning And Coordination Tool)

- Web-based mapping application
- First City of Austin application to show CIP projects, operational activities, and permits in a spatial and temporal context
- Flags potential opportunities/conflicts based on time and space parameters
- Allows for on-the-fly conflict resolution
- Users can search for CIP projects and permits based on criteria
- Helps public information officers with responding to citizen inquiries



Information Shown in IMMPACT

Activities -

CIP projects & permits that create conflicts

- Land
- Reclaimed Water
- Roadway
- Storm Drain
- Transit
- Wastewater
- Water
- Annual Valet
- Film
- Street Event
- Street Excavation
- Street Vendor
- Temporary Use
- Utility Cuts

Reference Layers –

Information that assist with decision making

- Asset Management Districts
- Green Building Mandatory
- Neighborhood Plans
- Watershed
- Zoning
- Protected Streets
- Street Condition
- Street & Bridge Work Orders
- Site Plans
- Subdivision Cases
- License Agreements (coming soon)



EXPLORER

ACTIVITY DISPLAY

REFERENCE DISPLAY

SEARCH & REPORTS

☐ Select All / None

☐ Land

☐ Reclaimed Water

☒ Roadway

☐ Storm Drain

☐ Transit

☐ Wastewater

☐ Water

☐ Annual Vial

☐ Flo

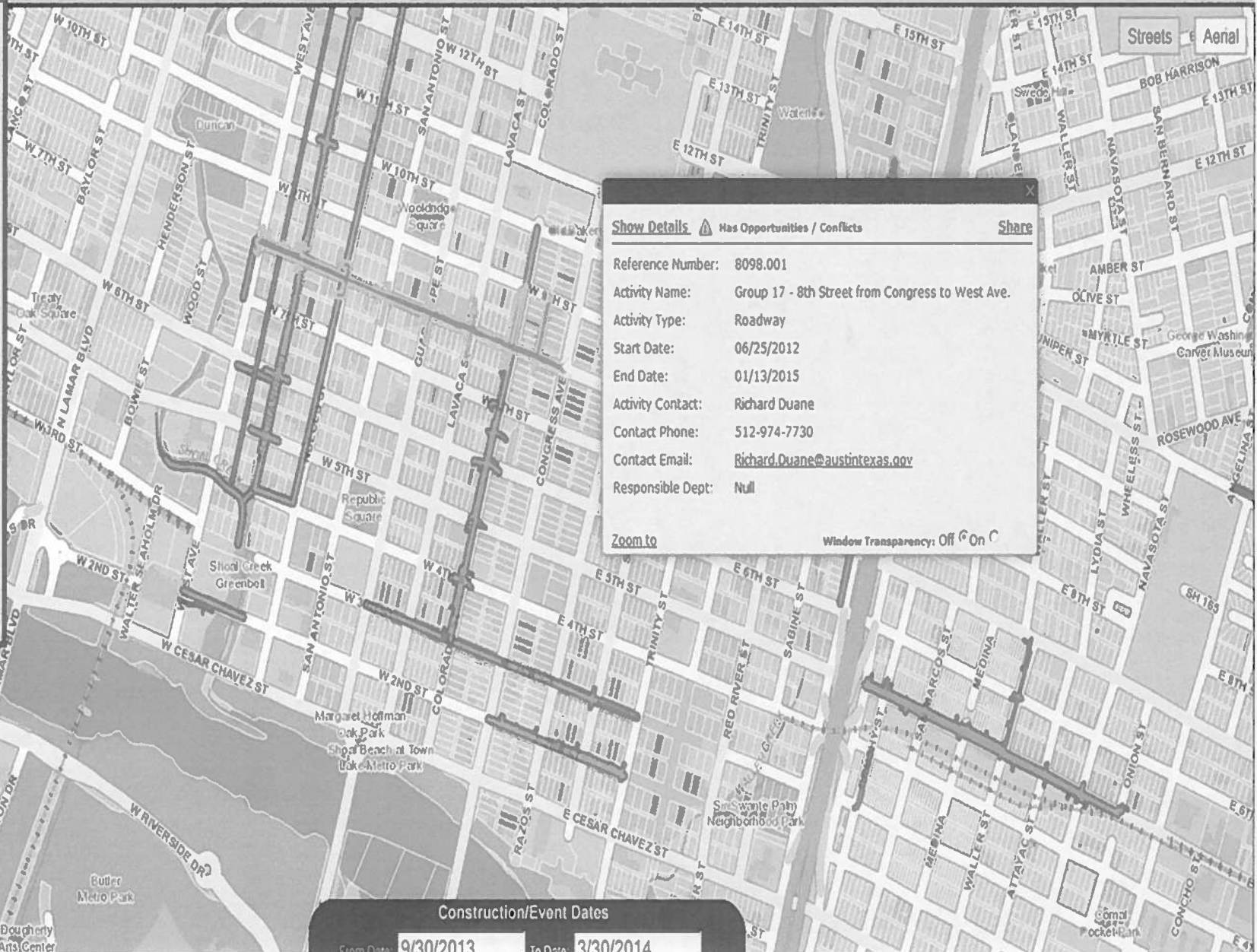
☐ Street Event

☐ Street Excavation Permit

☐ Street Vendor

☐ Temporary Use of Right-of-Way

☐ UCC Permit



Show Details Has Opportunities / Conflicts **Share**

Reference Number: 8098.001

Activity Name: Group 17 - 8th Street from Congress to West Ave.

Activity Type: Roadway

Start Date: 06/25/2012

End Date: 01/13/2015

Activity Contact: Richard Duane

Contact Phone: 512-974-7730

Contact Email: Richard.Duane@austintexas.gov

Responsible Dept: Null

Zoom to Window Transparency: Off On

Construction/Event Dates

From Date: 9/30/2013

To Date: 3/30/2014

DETAIL

EXPLORER

SEARCH & REPORTS

ACTIVITY

Name: Group 17 - 8th Street from Congress to West Ave.

Category: CIP PROJECT

Type: ROADWAY

Reference ID: 8098.001

Start Date: 6/25/2012

End Date: 1/13/2015

Contact: Richard Duane Richard.Duane@austintexas.gov

Contact Phone: 512-974-7730

Sponsor Name:

Responsible Department:

Status: ACTIVE

Phase: CONSTRUCTION

Description: This work will be bid as Phase 1 of the Group 17 project. See sub-project 6077 004 for Phase 2. Limits of construction are 8th Street from Congress to West Avenue. Project will include water, wastewater, electrical and storm sewer improvements prior to street reconstruction. Project will include Great Streets enhancements.

CONFLICTS / OPPORTUNITIES

Export

CIP PROJECT: 2013 Misc Bridge Maintenance

CIP PROJECT: CBD Alley Water Lines 2010-Ph 1-4th to 10th & San Antonio

Name: CBD Alley Water Lines 2010-Ph 1-4th to 10th & San Antonio

Activity Type: WATER

Reference ID: 2231.188

Start Date: 2/4/2013

End Date: 8/24/2014

Contact: Tony Krauss tony.krauss@austintexas.gov

Contact Phone: 512-974-7138

Status: ACTIVE

Conflict Type: ACTUAL

Conflict Status: RESOLVED

CIP PROJECT: Nueces Water Rehab for W 8th to MLK

CIP PROJECT: WW Relay and Spot Rehabilitation

Map

Conflict Resolution



EXPLORER

Search Options

Search Results

WHAT

- ☐ CIP PROJECT

 - ☐ Land
 - ☐ Reclaimed Water
 - ☒ Roadway
 - ☐ Storm Drain
 - ☐ Transit
 - ☐ Wastewater
 - ☐ Water
- ☐ PERMIT

 - ☐ Annual Valet
 - ☐ Film Permit
 - ☐ Street Event
 - ☐ Street Excavation Permit
 - ☐ Street Vendor
 - ☐ Temporary Use Of Right-of-way
 - ☐ Ucc Permit

☒ Only return activities that have conflicts

WHEN

From Date: 9/30/2013 To Date: 3/30/2015

WHO

Managers

WHERE

Areas

SEARCH RESET



EXPLORER

Search Options

Search Results

Export

- CIP PROJECT: Shoal Creek Greenbelt - Trail Improvements
- CIP PROJECT: Street Reconstruction and Utility Adj. - 5th St. from I35 to Onion St.
- CIP PROJECT: Downtown Alleys - 30 & 80
- CIP PROJECT: Group 10 - Collector/Residential Streets SW
- CIP PROJECT: Group 168 - Annie St. & Woodland Ave. Street Recon and Utility Imp.
- CIP PROJECT: Group 17 - 8th Street from Congress to West Ave.

Name: Group 17 - 8th Street from Congress to West Ave.

Category: CIP PROJECT

Type: ROADWAY

Start Date: 6/25/2012

End Date: 1/13/2015

Contact: Richard Duane Richard.Duane@austintexas.gov

Contact Phone: 512-974-7730

Activity Status: ACTIVE

Conflict Count: 441
- CIP PROJECT: Colorado St., Reconstruction and Utility Adjustments from 7th St to 10th St
- CIP PROJECT: 2nd Street Bridge and Extension / Shoal Creek to West Ave
- CIP PROJECT: Bowie Underpass
- CIP PROJECT: 3rd St Phase 2 - Congress Ave to Brazos St & San Jacinto Blvd to Trinity St
- CIP PROJECT: 3rd St. Phase 3 - Congress Ave. to Guadalupe St.
- CIP PROJECT: Second Street District Streetscape Street Recon. & Utility Adj. Phase 3
- CIP PROJECT: Colorado St., Reconstruction and Utility Adjustment from 3rd to 7th St



Process Integration

- ROWM uses IMMPACT as primary tool for AULCC
- PWD employs IMMPACT for interdepartmental coordination and in development of the Annual Work Plan and CIP delivery scheduling
- PWD uses IMMPACT to coordinate work with Texas Gas and telecommunications providers
- IMMPACT has been recognized by the Center for Digital Government and the Alliance for Innovation



Next Steps

- Use IMPACT to expand CIVIC tools
- Include other agencies with CIP mapping
- Create new subsets of data
- Create a similar process for all operations, maintenance, and repair (OMR) work and review cases that reflect public and private development

CIVIC Map Viewer

The screenshot displays the 'austintexas.gov' website with the 'Bond Program Finder' tool. The main content area shows details for the 'Colorado Street Reconstruction and Utility Adjustments from 7th to 10th St' project. The project ID is 6961 002, categorized under Street Reconstruction, managed by Public Works, and sponsored by Public Works. The funding sources listed are 1998 - Prop 3: Public Safety Facilities, 2006 - Prop 1 Transportation, 2010 - Prop 1: Mobility, 2012 - Prop 12: Transportation and Mobility, and 2012 - Prop 16: Public Safety. The current phase is Bid/Award/Execution, and it is marked as 'Show less'. Below this, there are links to 'Lavaca/Guadalupe, Cesar Chavez to MLK, Utility Relocation Design - Ph 1' (Show more), 'Bike Blvd. Rio Grande and Nueces from 3rd to MLK' (Show more), and 'Sidewalk Repairs Central Business District' (Show more). A section titled 'Non mappable Projects' includes 'Women & Children's Shelter Repairs' (Show more). The interface includes a map on the right with a 'Map Filter' and 'On/Off' toggle, and a search bar with 'Address' and 'Find' fields. The City of Austin logo is visible at the bottom left of the page.



Questions and Discussion

