

Columbia Area Transportation Study Organization

FY 2013 Unified Planning Work Program

Approved by the CATSO Coordinating Committee
on August 23, 2012

INTRODUCTION	3
SUMMARY	3
WORK ELEMENTS - PRODUCTS & ACTIVITIES	4
ACTIVITY 110 - LAND USE PLANNING	4
ACTIVITY 120 - SHORT-RANGE TRANSPORTATION PLANNING	6
ACTIVITY 130 - LONG-RANGE TRANSPORTATION PLANNING	9
ACTIVITY 140 - TRANSIT PLANNING	12
ACTIVITY 220 - FEDERAL CONSOLIDATED PLANNING GRANT MANAGEMENT	16
ACTIVITY 240 - INFORMATION SYSTEMS	18
PUBLIC PARTICIPATION	22
FY 2013 BUDGET SUMMARY	23
APPENDICES	24
APPENDIX A	25
APPENDIX B	26
APPENDIX C	28
APPENDIX D	29
APPENDIX E	30

Introduction

The purpose of the Unified Planning Work Program (UPWP) is to outline grant-related programs and goals for the upcoming fiscal year. It also provides the basis for requesting Consolidated Planning Grant (CPG) assistance. The CPG is a combination of Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) funding consolidated into one grant category. The City of Columbia Department of Community Development, acting on behalf of the City, serves as the recipient agency for the Columbia Area Transportation Study Organization (CATSO) and conducts planning activities on their behalf. CATSO is an organization designated by the Governor as the certified "Metropolitan Planning Organization" (MPO) for the Columbia Area. The membership of this organization includes all of the public agencies participating in transportation programs for the Columbia area. Specifically, this includes MoDOT, Boone County, and the City of Columbia.

Summary

CATSO/City of Columbia staff will continue working on the update of the current 2030 Long-Range Transportation Plan (LRTP) and the development of *Columbia Imagined*, a new comprehensive land use plan for the Metro area, in FY 2013. As has been the case recently, a heavier emphasis on the walking and bicycling modes of transportation will be maintained in this fiscal year. As such, included in the work products will be the development of maps showing the new sidewalk layer (digital GIS format), adoption of a Master Sidewalk Plan update, and review of the 2030 Pedestrian & Bicycle Network Plan as part of the LRTP update. The federal earmark provided to GetAbout Columbia (Non-Motorized Transportation Pilot Program) has enabled a number of new bicycle and pedestrian facilities to be planned and implemented. Staff will provide assistance to the GetAbout Columbia program as necessary as the second round of funding becomes available.

Total federal Consolidated Planning Grant (CPG) funding shown for work activities in the budget summary sheet is \$363,832. Additional federal funds are available to CATSO, but due to limited staff, time, and lack of additional matching funds, not all CPG funds are programmed. It is general policy to reserve a balance for future year needs, particularly for special projects that may require a large dedication of CPG funds. Including the \$291,066 CPG federal share to be programmed in FY2013, there is a total balance of \$627,262.44 in CPG funding available in FY 2013 for CATSO, not including the FY 2013 allocation. With the inclusion of the anticipated FY 2013 allocation, total funds available will be \$892,849.89. Additional funds are anticipated as CATSO will likely not utilize all of the CPG money programmed for FY 2012. There is currently (after three quarters) \$176,339.16 in programmed CPG funds yet to be charged for FY 2012. The following narrative outlines each program area and provides information on work activities planned for the coming fiscal year.

Work Elements – Products & Activities

Activity 110 Land Use Planning

Purpose:

The integration of land use and transportation planning is necessary to promote orderly growth and development in the Columbia metropolitan planning area. This category includes the preparation of land use studies for small areas where specialized problems or circumstances exist. Studies and activities directed at implementation of the Land Use Plan also fall into this area of the work program.

Objectives/ Activities:

- 1) Continue work on the land use and transportation elements of the new comprehensive long range land use plan *Columbia Imagined* for the Metro Area. Adoption of the plan is anticipated in early 2013.
- 2) Continue to examine current land uses and potential land use impacts in corridors affected by the extension of sewer mains and roadways in the Major Roadway Plan.
- 3) Continue land use updates for 2030 model TAZ geography for use in 2040 update to the 2030 Long-range Transportation Plan.

Work Completed in FY 2012:

- Updated Metro Area Land Use GIS database for CATSO Metro Area transportation planning applications. This database provides valuable information for MRP amendments, modeling, and non-motorized project selection.
- Updated the CATSO MRP digital database to be compatible in both TransCAD and ESRI GIS software and set up a process so that this information is available as edited City-wide and statically as updated to CATSO member jurisdictions.
- Land use updates for CATSO Metro area 2030 model TAZ geography for use in the 2040 update to the 2030 Long-range Transportation Plan.
- Six public input meetings regarding the land-use components to be used in the development of *Columbia Imagined* were held. The policy framework and existing conditions report, including data analysis using ten and twenty year land use trends to anticipate future capacity for the next twenty years, were produced and presented for public analysis during the public input process.

Products for FY 2013

- Updated Metro Area Land Use GIS database. Anticipated completion date-ongoing.

Responsibility– CATSO/City of Columbia Staff.

- Adopt new comprehensive land use plan *Columbia Imagined*. Anticipated completion date- early 2013. Responsibility–Consultant with CATSO/City of Columbia Staff assistance.
- Continue to analyze growth and make growth projections for use in transportation decision making by collecting development data and analyzing 2010 Census data as it becomes available. This data will be used in travel demand model runs, plan updates and planning assumptions. Anticipated completion date-ongoing. Responsibility– CATSO/City of Columbia Staff.

The updates of the GIS database utilize databases provided by the Boone County Assessor's Office and the GIS Consortium. All developed tracts within the Metro Area are coded by existing land use, and vacant tracts by their land use plan designation. Other attribute data, such as developable acreage and TAZ number, is also included.

The final stages of the preparation of the new comprehensive land use plan will include analyzing the existing conditions and public input regarding land use and policy preferences in light of constraints and opportunities. Maps and data analysis will include infrastructure and developable land capacities. The intensive public participation process will continue until the plan is adopted. Approximately 20 percent of the plan is composed of land use and transportation elements.

Staffing, Funding Sources:

Staffing of the various work activities will come primarily from the City of Columbia Department of Community Development, in which CATSO staff is housed. At times, other departments and the Missouri Department of Transportation (MoDOT) may provide necessary assistance. Funding will come from the City of Columbia and the Consolidated Planning Grant.

Funding Breakdown:

Total Costs \$51,134 – Federal \$40,907, Local \$10,227.

Activity 120

Short-Range Transportation Planning

Purpose:

This program area encompasses a range of activities including the identification, analysis, and solution of transportation problems that either are immediate concerns or will be in the next few years. Attention is given to all types of transportation. Program activities in this category are also devoted to the coordination of transportation programs between the various jurisdictions involved with transportation activities in the Columbia Metropolitan area. Most of this coordination is accomplished through the Columbia Area Transportation Study Organization. Additional funding is shown in this activity to more accurately reflect the allocation of staff hours.

Objectives/Activities:

- 1) Prepare specific studies in relation to transportation issues, as requested, e.g. review of a Major Roadway Plan planned extension in relation to a development request. There is no definite number of studies expected, it is possible that none may be required. This item is included to indicate that such an analysis would be done on an as-needed basis.
- 2) Promote non-motorized transportation, such as the Transportation Enhancement and Safe Routes to School programs, through staff support (analyze data, map creation/GIS analysis, preparation and management of grants, etc.) and assistance with the prioritization of funding for non-motorized infrastructure (sidewalk construction/repair, ADA compliance, trails, pedways, bike lanes, etc.) within the Metro Area.
- 3) Continue to provide the Columbia Transit with general staff support related to the Transportation Improvement Program, Triennial Review, and any other relevant planning issues.
- 4) Coordinate transportation improvements within the Metropolitan Area between Boone County, the City of Columbia, and MODOT to prevent possible conflicts and duplication of services.
- 5) Prepare and approve 4-year FY 2014-2017 CATSO Transportation Improvement Program (TIP).

- 6) Maintain traffic count information for the Metro Area and a traffic count map for distribution to other agencies and the public.
- 7) Work to maintain and share traffic and transportation related data with stakeholder agencies and support compatible data formats.
- 8) Participate in the MoDOT Planning Framework and related processes to identify statewide and regional investment priorities.

Work Completed in FY 2012:

- Preparation/ Approval of the FY 2013-2016 Transportation Improvement Program (TIP)
- Preparation/approval of amendments to FY 2012-2015 TIP
- Assistance to the City of Columbia GetAbout (Non-Motorized) program staff.
- Draft Sidewalk Master Plan update prepared.
- CATSO Public Participation Plan updated and revised to reflect Title VI Plan requirements - Plan approved by Coordinating Committee December 2011.
- Participated in a sub-group to study transportation network needs in the northeast metro area related to development of a new high school, elementary school, park and proposed subdivision.
- Submitted a Sustainable Communities Regional Planning Grant (unfunded).
- Development of the Annual List of Obligated Projects as a follow-up activity to TIP approval.

Products for FY 2013:

- An updated FY 2014-2017 Transportation Improvement Program (TIP). Anticipated completion date – August 2013. Responsibility– CATSO/City of Columbia Staff.
- Development of the Annual Listing of Obligated Projects as a separate document from the TIP. Anticipated completion date – First Quarter 2013. Responsibility – CATSO/City of Columbia Staff.
- Coordinating Committee approved amendments/modifications to the FY 2013-2016 TIP. Anticipated completion date – as needed. Responsibility– CATSO/City of Columbia Staff.
- Updates to CATSO 2030 Long-Range Transportation Plan, including the 2030 Pedestrian & Bicycle Network Master Plan. Anticipated completion - Fourth Quarter FY 2013. The CATSO 2030 Pedestrian and Bicycle Network Master Plan will utilize the new sidewalk digital inventory, a work product completed in FY2012. Responsibility– CATSO/City of Columbia Staff.
- Updates to the digital sidewalk inventory for the Metro Area as needed. Anticipated completion date – ongoing. Responsibility- CATSO/City of Columbia Staff.
- Continue work on the Sidewalk Master Plan, including maps and approval.

Anticipated completion date - February 2013. Responsibility- CATSO/City of Columbia Staff.

Staffing, Funding Sources and Agencies:

Most of the work in this area will be done by the CATSO staff in the Department of Community Development, with assistance from City of Columbia Public Works and GetAbout Columbia staff. Some staff assistance will be requested from MoDOT. Funding will come from the City of Columbia and the Consolidated Planning Grant.

Funding Breakdown:

Total Costs \$65,744 – Federal \$52,595, Local \$13,149.

Activity 130
Long-Range Transportation Planning

Purpose:

This activity is directed toward maintaining the Columbia Area Major Roadway Plan and other elements of the Long-Range Transportation Plan and conducting an effective program for long-range transportation planning. In FY 2013, the principal focus of staff will be on the ongoing development of the 2040 update of the CATSO 2030 Long-Range Transportation Plan.

Objectives/Activities:

- 1) Provide staff support to the Columbia Area Transportation Study Organization (CATSO) Coordinating and Technical Committees, including agenda preparation, public notices, meeting minutes, and staff reports for agenda items. More specifically, this includes the provision of staff reports on proposed road, sidewalk/pedway and bicycle route reconstruction and new construction projects, and other transportation related issues.
- 2) Provide travel demand modeling support for transportation projects in the Metro Area as requested.
- 3) Conduct work activities to update the current CATSO 2030 Long-Range Transportation Plan prior to the adoption of the CATSO 2040 Plan. This will include:
 - a. Providing staff reports and other input on proposed road, sidewalk/pedway and bicycle route reconstruction and new construction projects, and other transportation related issues.
 - b. CATSO funds were previously utilized by the preparation of a Natural Resources Inventory (NRI), which includes inventory delineated by Traffic Analysis Zones. NRI data will be used by staff to identify sensitive lands such as wetlands, steep slopes, and hardwood forests in order to assess environmental impacts and the potential cost implications of specific Major Roadway Plan new roadway corridors and related bridge structures. Planned extensions of the CATSO Pedestrian & Bicycle Network Plan will also be evaluated using the NRI.
- 4) Provide base information for the 2040 update to the CATSO 2030 Long-Range Transportation Plan by conducting research on population

projections, existing conditions and by updating the data used in the CATSO transportation model.

- 5) Prepare Amendments to the Major Roadway Plan, and the CATSO Pedestrian and Bicycle Network Plan as necessary and take to CATSO Coordinating Committee for public hearing as directed. This will include production of maps, staff reports, PowerPoint presentations, and related work to publicize the public hearings/meetings.

Work Completed in FY 2012:

- Preparation of six amendments to the CATSO Major Roadway Plan, and forwarding of these for consideration for addition to the City of Columbia Major Roadway Plan, along with production of the revised/updated plans. (Please note that the City of Columbia Major Roadway Plan also encompasses the CATSO Metro Area, but is specifically reviewed and adopted by the City Council).
- Staffing and preparation of reports and related materials for CATSO Technical and Coordinating Committee meetings.
- GIS-related work, such as Natural Resources Inventory(NRI), Census data, and TAZ updates, was completed for the LRTP in FY 2012.
- Work was done utilizing the UrbanSIM land use allocation model in the development of automated allocations for development scenarios for the updates of the existing 2030 LRTP transportation traffic model

Products for FY 2013:

- Emphasis for FY-2013 will be on continuing work on the update of the CATSO 2030 Long-Range Transportation Plan, to be called the CATSO 2040 Long-Range Transportation Plan, including the Major Roadway Plan and the Pedestrian and Bicycle Network plan components.
- An updated CATSO Major Roadway Plan (MRP) if needed. Anticipated completion date- ongoing. Numerous additional amendments have been proposed and are awaiting further study. CATSO staff will bring more amendments forward at the direction of the Coordinating Committee. Responsibility–CATSO/City of Columbia Staff.

The CATSO MRP is the major instrument for controlling and accommodating both motorized and non-motorized traffic in the Columbia Metro Area. A specific concern is the development of an adequate collector and arterial street network in areas that can be served by centralized sewer.

- Completed Update of existing 2030 Long-Range Transportation Plan (LRTP) to 2040.

Staffing, Funding Sources and Agencies:

Primary staffing responsibilities will be with CATSO/City of Columbia staff, although some MoDOT assistance will be required. Funding will come from the City of Columbia and the CPG.

Funding Breakdown:

Total Costs \$74,608 – Federal \$59,686 Local \$14,922.

Activity 140 Transit Planning

Purpose:

Work in this program area is primarily devoted to the review and implementation of transit operational strategies for the Columbia Transit (CT) bus system. Fiscal and status reporting of grant projects are also included.

Sub-Activity 44.2682 -- System Management and Operation.

Columbia Transit continues to work with the City Council and their Public Transportation Advisory Commission (Commission) to assess the need for additional service and the potential expenses involved with system coverage of the community and/or service hour expansion(s). The Commission was created by the City Council in FY 2010. As requested by the Commission, staff has quantified potential routing and operational changes. Staff works to keep the Commission, the Council and the Manager's office informed of opportunities and their costs. These suggestions have been prioritized and overlaid onto a time line for basic planning purposes, thus creating a Master Plan.

Staff is working with the Manager's Office to redesign the 106 Orbiter route and rebrand it as the "FastCAT" route. This revised and rebranded route will be an initial attempt to revise and market the entire route system, in an attempt to provide a service worth more to businesses and organizations along the routes.

Columbia Transit has prepared and presented Council with a system shelter and bench master plan. Matching funds have been set aside for the implementation of these amenities, when the grant funding becomes available.

Sub-Activity 44.2684 -- Financial Planning.

The planning, data collection, analysis, and preparation of the annual financial and budget reports will be completed in this category. CT staff prepares a detailed monthly data analysis and summary for both internal and external review. At the request of the Council or Commission, staff will prepare the financial planning of several potential expansion scenarios and report back on an ongoing basis. Each of these individual assessments could be incorporated into the Master Plan.

Given the current fiscal constraints, staff continues to assess and report to Council revenues and ridership and their relation to the recent fare increase. This financial planning is ongoing.

Activity 44.27.00 -- Other Activities.

Paratransit: The planning, development, and improvement of transportation services to the disabled is ongoing. Paratransit services, complementing the fixed routes, have been provided since the early 1990s. This system is heavily utilized, and planning effort is expended to maximize service with limited personnel and equipment. As the City continues annexations, the Service Area grows. Columbia Transit is upgrading its demand response scheduling suite along with deploying a fleet-wide automatic vehicle locating (AVL) system. Implementing hardware and software systems will require continued diligence to ensure that public is seeing accurate data and the demand response schedules continue to flow smoothly. In FY 2008 Columbia Transit incorporated the Public Transportation and Human Services Transportation Coordination Plan. This plan will be updated in this fiscal year. Staff plans for the provision of transportation for individuals under the Non-Emergency Medical Transportation (NEMT) and Medicaid Waiver programs. NEMT service has continued grow steadily since implementation but requires constant planning as it continues to tax equipment and staff. Staff will map continued growth in the NEMT and Medicaid Waiver programs.

DBE: The City of Columbia has established an individual disadvantaged business enterprise (DBE) program. While the City has established a separate program, it will continue to maintain ties and utilize the State of Missouri's Unified Certification Program. Work is ongoing to continue to assess where additional participation opportunities exist.

Safety/Drug Control Planning: Staff will continue the drug awareness program for transit system employees, along with the implemented drug testing and reporting program. CT experiences a very high driver turnover rate. Continued reporting, training, and analysis will be completed. Safety and Security programming will continue to be a major emphasis in FY2013, both for passengers onboard and for those waiting to board the system at en route passenger amenities. Two bus shelters have been lit with solar powered units, with great success, and additional units are being sought. Capital grant funding was received by CT in FY 2012 for this expansion and staff is working to deploy additional solar lighting units.

Implementation of ADA: Staff will continue tasks necessary to ensure transit services remain compliant with the Americans with Disabilities Act (ADA), and will continue working with the City's ADA Advisory Committee. CT will work to ensure accessibility of all passenger waiting sites, and will seek funding to install additional accessible amenities. Staff will assess sites, research property ownership and acquire right-of-use agreements, as necessary.

Public Transportation and Human Services Transportation Coordination Planning: Staff will complete an update to the existing CATSO *Public Transportation and Human Services Transportation Coordination Plan*.

Transit Planning and Review: Review of transit operations plus fiscal and operational reporting will occur. The purpose of this is to collect information pertinent to making transit system decisions.

Objectives/Activities:

- 1) Maintain records of transit system operations.
- 2) Develop and use criteria to measure service efficiency.
- 3) Utilize management techniques that are responsive to changing conditions and needs.
- 4) Monitor system operations so that problems can be identified and alleviated in an expedient manner.
- 5) Continue planning to evaluate and implement Paratransit service delivery to the growing disabled population within the ADA service area for the Columbia Transit.
- 6) Continue to seek solicit a high level of citizen input into development and maintenance of transit operations.

Work Completed in FY 2012:

- Major revisions to CT routes/service, including the geographic expansion of service.
- Preparation of capital and operating grant applications for service improvements.

Products for FY 2013:

- Updated data on transit operations. Anticipated completion date-ongoing. Responsibility- City of Columbia Staff.
- Adopted updated Public Transportation-Human Services Coordination Plan
- Deployment of a revised and rebranded central route - to be called the FastCAT route - which will have AVL, satellite TV, and smart phone bus locating capability.
- Deployment of an upgraded their automatic fare box motherboard and operating system.

Some of the products for the year will be those involved with the ongoing review and data collection associated with the day-to-day management of the transit system. A continued and concentrated staff effort is anticipated to further develop the system marketing plan. Staff will hire an additional FTE Marketing individual toward that end. Staff continues to work with the Health Department to market the promotion of walking, biking, and public transportation to promote a healthy lifestyle. As staff makes personal contact with businesses along routes, a database of contacts, number of employees, potential partnerships, etc. are being established so that continued contact can be maintained with these employers. The primary marketing focus in the first quarter of FY 2013 will be directed at incoming University of Missouri students and promoting the FastCAT route, which focuses directly on student transportation needs.

Staffing, Funding Sources and Agencies:

Staff support will come primarily from City of Columbia Public Works, although some assistance will be needed from CATSO staff, along with City of Columbia Community Development, Finance, Human Resources, Health, and Legal Departments. Capital and operating funding is sought by CT from the Federal Transit Administration for FY 2013.

Funding Breakdown:

Total Costs \$39,015 – Federal \$31,212, Local \$7,803.

Activity 220
Federal Consolidated Planning Grant Management

Purpose:

This work activity is CATSO's administration/management of Consolidated Planning Grant (CPG) funds provided under 23 U.S.C. 104(f) to CATSO for metropolitan transportation planning.

Objectives/Activities:

- 1) Maintain proper records and prepare quarterly progress reports and grant billings, DBE semi-annual reports, and FY 2012 completion report.
- 2) Actively administer grant activities by reviewing time sheets and financial reports and ensure that project completion proceeds in accordance with the work program.
- 4) Cooperate with representatives of MoDOT and OneDOT (Federal Transit Administration and Federal Highway Administration) to ensure good working relations during the grant administration.
- 5) Develop the work program and budget for the FY 2014 Unified Planning Work Program (UPWP).
- 6) Implement and make any needed revisions to the Title VI Policy Plan, including research and preparation of the necessary data. Do related work to ensure compliance with ADA requirements.

Work Completed in FY 2012:

- FY 2013 UPWP approved by Coordinating Committee
- Quarterly reports for FY 2012
- DBE semi-annual reports in October 2011 and April 2012
- FY 2011 Completion Report
- Preparation of an annual report template (and submittal) to describe Title VI activities in July 2012
- *Refinement and expansion of the CATSO website home page.*

Products for FY 2013:

- FY 2014 UPWP approved by the CATSO Coordinating Committee. Anticipated

- completion date–August 2013. Responsibility– CATSO/City of Columbia Staff.
- Quarterly Reports. Anticipated completion date(s)–January 2013, April 2013, July 2013, and October, 2013. Responsibility– CATSO/City of Columbia Staff.
- DBE semi-annual reports. Anticipated completion date(s)–October, 2012 and April, 2013. Responsibility– CATSO/City of Columbia Staff.
- FY 2012 Completion Report. Anticipated completion date– November 2012. Responsibility– CATSO/City of Columbia Staff.
- Continuous development and implementation of the Title VI Plan including an annual report in July 2013. Anticipated completion date–Ongoing. Responsibility– CATSO/City of Columbia Staff.
- Continue to refine and expand the CATSO homepage on the City’s website including ADA and Section 502-related improvements. Anticipated completion date–Ongoing. Responsibility–CATSO/City of Columbia Staff.

Also to be expected would be Civil Rights compliance certification, the administration of Title VI activities, and active surveillance of grant activities. The staff will also assist FTA representatives in their evaluation of local MPO performance toward DBE objectives. Participation in audit and program review will also be a work product.

Staffing, Funding Sources, and Agencies:

Staffing will be with the CATSO staff, with assistance from City of Columbia Community Development, Public Works, and Finance departments. Funding will come from the City of Columbia and the Consolidated Planning Grant.

Funding Breakdown:

Total Costs \$29,949 – Federal \$23,959, Local \$5,990 .

Activity 240 Information Systems

Purpose:

Work in this activity area is devoted to the production, collection, storage, and analysis of information for departmental and public use. This information is utilized as a support mechanism for many of the tasks performed by the Department. Another goal in this activity area is to provide this information to the public and other agencies upon request.

Objective/Activities:

- 1) Maintain up to date information in the areas of population, employment, socioeconomic, housing, transportation, and other related data, including an updated GIS street map and related databases, and develop related analysis and projection techniques
- 2) Produce maps and other graphics for associated work products.
- 3) Utilize new applications allowing for more efficient storage, retrieval and analysis of this information, including new computer software, hardware and activities.
- 4) Actively develop new information sources and analysis techniques.
- 5) Maintain and develop new graphics and database capabilities to support the activities outlined above.
- 6) Be responsive to assist the needs of the public and other agencies with other information needs.
- 7) Staff may attend professional training sessions on transportation planning subjects relevant to the CATSO area and operations. Professional development conferences offered by the Association of Pedestrian & Bicycle Professionals (APBP), other pedestrian & bicycle related seminars and conferences, and GIS software training courses are possibilities for this category. Costs for such activities will be taken from funds available in the non-salary and benefits portion of the UPWP budget.

Work Completed in FY 2012:

- Development of sidewalk inventory line database in GIS format for Metro Area and update to 2011 imagery.
- Update building structure polygon layer to 2011 imagery for Metro Area.
- Refinements to the Natural Resources Database, including new digital photography & vegetation map.
- New illustrative maps of the CATSO Major Roadway Plan
- A Transit Interactive Map showing transit routes (available online and for smart phone/tablet use).
- Process 2010 Census data for Boone County into GIS accessible formats.
- Updates to metro area TAZ dataset and development of UrbanSim network modeling for LRTP 2030 update.

Products for FY 2013:

- New maps (e.g. updated Major Roadway Plan and Pedestrian and Bicycle Network Plan) and other necessary graphic additions for UPWP work products and activities. Anticipated completion date(s)-Ongoing. Responsibility- CATSO/City of Columbia Staff.
- Creation of new GIS applications utilizing previously acquired digital photography & Natural Resources Database for GIS applications. Anticipated completion date(s)-Ongoing. Responsibility- CATSO/City of Columbia Staff.
- Refinement of sidewalk inventory line database and development of sidewalk polygons in GIS format for Metro Area using 2011 aerial photography. Anticipated completion date- End of FY 2013. Responsibility-City of Columbia Staff in cooperation with CATSO.
- Creation of maps showing sidewalks in metro area for various uses (sidewalk master plan and specialized area plans).
- Development of a gap-analysis model and maps/listings of gaps within the sidewalk network using different metrics (such as ½ mile from a school or bus stop).
- Continue to process 2010 American Community Survey data for Boone County into GIS accessible formats.
- Creation of a land use/employment forecasting and allocation model. The model will be GIS-based and will automate the manual processes CATSO has used previously to produce the forecast scenarios for the TransCAD travel demand model for the Metro Area.

This work activity includes the production of maps and other types of graphics, and general data support activities for projects outlined elsewhere in the UPWP. Planning and assistance related to the 2010 Census Bureau materials also occur in this program area.

The department will continue the use of existing GIS software for tracking development and for transportation modeling and the imaging software for use with panchromatic and multi-spectral satellite imagery from a variety of sources. During FY 2013, staff will continue the utilization of the natural resources inventory database. The digital databases will allow for more detailed analysis of Metro Area landscapes in locating potential transportation corridors. Graphics assistance to support CATSO and related transportation projects will be provided.

Sidewalk Mapping Project

While the digital mapping aspect of the sidewalk mapping project is complete, City GIS Office staff will continue to populate the GIS database with attribute data (e.g. width, construction, and condition) for an existing public sidewalks inventory for the Metro Area. This will allow the sidewalk map to be further integrated into GIS transportation networks for roadways, transit routes, trails, and railroads. The use of 2011 aerial photography will also allow for refinement of the sidewalk layer and inclusion of newly-built sidewalks. In this phase of the development process, the sidewalk data produced will go through a quality assurance/quality control (QA/QC) process and include Federal Geographic Data Committee (FGDC) compliant metadata.

Applications for GIS sidewalk data include basic mapping of pedestrian facilities (sidewalk/trails) in the Metro Area, the analysis of available sidewalk coverage for the Columbia Transit (CT) fixed transit routes, CT Americans with Disabilities Act (ADA) service area, and bus stops. For example, Columbia Transit is using this database to record sidewalk conditions in the vicinity of bus stops. Integrated into existing GIS resources, the sidewalk data will support MPO and local planning efforts to identify future pedestrian infrastructure needs, inform connectivity to pedestrian generators such as parks, trails, public schools, and the University of Missouri, and support ADA transition planning and compliance.

The produced data will include:

- Refined polygon GIS dataset of sidewalk areas in the CATSO metro area
- Refined line GIS dataset of sidewalk centerlines in the CATSO metro area

Polygon and line GIS dataset will include such attributes as:

- Parcel address
- Width of sidewalk
- Sidewalk segment type (sidewalk/driveway/curb ramp)
- Slope of sidewalk segment
- Presence and type of sidewalk obstructions
- Sidewalk surface type (Concrete / Brick / Asphalt / Unknown)

- Method(s) used for data collection and verification including feature extraction from remotely-sensed imagery, digitized or edited from aerial imagery, field data collection verification by field inspection

Sampled field verified sections of the dataset will include eight additional attributes, including cross slope, surface quality, measurable obstructions, and others. Upon completion, the sidewalk datasets can be used to record and map other sidewalk-related information, as needed.

Staffing for this project will be provided by the City GIS Office, in cooperation with CATSO staff. No consultants will be employed for assistance in the project.

Planned capital expenditures of PL funds for FY-2013 include the maintenance costs for existing software; such as the travel demand modeling software. Total expenditures for hardware and software for FY-2013 will be taken from the non-salary and benefits budget of \$9,000.

The staff will continue working on potential applications for the departmental geographic information system (GIS) in conjunction with other agencies. Staff will explore the possibility of additional GIS software training, and attend such training sessions as needed.

Staffing, Funding Sources and Agencies:

The Community Development Department will provide primary staff assistance, with secondary involvement by the City GIS Office. Funding will come from the City of Columbia and the Consolidated Planning Grant.

Funding Breakdown:

Total Costs \$103,384 – Federal \$82,707, Local \$20,677.

Included in the federal total is \$7,200 of non-salary and benefit expenditures such as computer software and related services, e.g. training and licenses, transcription services, and travel and meeting expenses.

Public Participation

The FY 2013 UPWP was formally adopted at the August 23, 2012 CATSO Coordinating Committee meeting. A display advertisement notifying the public of this meeting was placed in the local newspaper. In addition, the Public Hearing Draft of the FY 2013 UPWP, meeting agenda and public notice was placed on the City's website. The ad gave emphasis to the public hearing aspect of the meeting, including the consideration of the draft FY 2013 UPWP.

Public notification on the availability of the public hearing draft of the FY 2013 UPWP was also made through a posting on the Community Development Department's listserv. The draft document was also e-mailed to all members of the CATSO Technical and Coordinating Committees.

The CATSO Public Participation Plan, adopted by the CATSO Coordinating Committee on December 1, 2011, may be found at the following link at the City of Columbia website:

http://www.gocolumbiamo.com/Planning/Commissions/CATSO/documents/ApprovedCATSOPPP12-1-11_000.pdf

Final Budget Summary
FY 2013 Unified Planning Work Program - Columbia, MO MPO (CATSO)
Approved by the CATSO Coordinating Committee on August 23, 2012
Consolidated Planning Grant (CPG) Funds

Activity	Federal	Local	Federal CPG Funds *	Local Match	Total
110 LAND USE PLANNING	80%	20%	\$40,907	\$10,227	\$51,134
120 SHORT RANGE TRANSPORTATION PL Transportation Improvement Program	80%	20%	\$52,595	\$13,149	\$65,744
130 LONG RANGE TRANSPORTATION PL	80%	20%	\$59,686	\$14,922	\$74,608
140 TRANSIT PLANNING System Management & Operation Financial Planning Other Activities	80%	20%	\$31,212	\$7,803	\$39,015
220 CPG GRANT MANAGEMENT	80%	20%	\$23,959	\$5,990	\$29,948
240 INFORMATION SYSTEMS	80%	20%	\$82,707	\$20,677	\$103,384
TOTALS			\$291,066	\$72,766	\$363,832

* Of the federal CPG funds listed, non-salary expenditures anticipated are as follows:

1) In Activity #240, \$7,200 is programmed for software/related services, transcription services, & travel/mtg. expenses

Notes

1. CATSO Staff includes two and one-half full-time positions and 1.63 full-time equivalents (FTE) in other positions.

See the UPWP Appendix for details.

2. CPG funds consist of FHWA PL and FTA Section 5303 planning funds.

3. A total of \$363,832 is programmed for CATSO & related staff salaries.

CPG Funding Summary

CATSO CPG balance from prior FYs UPWP*	\$228,089.06
FY 2012 CPG allocation	\$222,834.22
FY 2013 CPG allocation (estimated)	\$265,587.45
Programmed FY 2012 CPG funds estimated to not be spent	\$90,739.16
Total estimated CPG funds available for FY 2013 UPWP**	\$807,249.89
Est. programmed FY 2012 CPG funds to be expended in 4th Q.	\$85,600.00
Total CPG funds balance for FY 2013	\$721,649.89
CPG funds programmed for FY 2013	\$291,066.00
Remaining unprogrammed CPG funds balance	\$430,583.89

*Previously allocated CPG funds not expended

**Total estimated CPG funds is a projected figure based on prior balance, FY 2012 allocation and estimated FY 2013 allocation

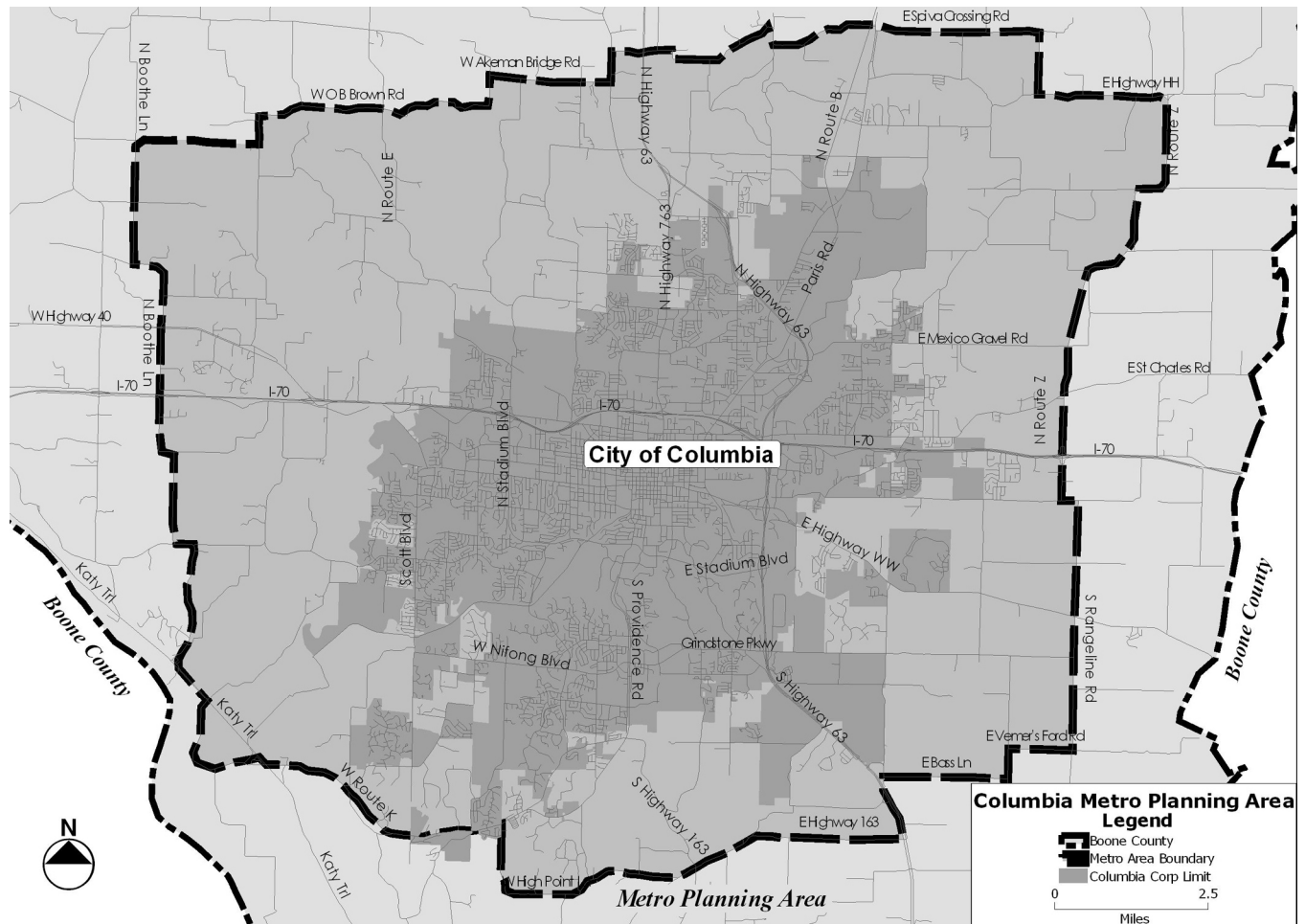
Note: Total unexpended FY 2012 CPG funds available at the end of the 3rd Quarter is \$176,339.16

It is projected that additional funds will be added to the unprogrammed CPG balance due to FY 2012 budget savings from the original programmed amount

Appendices

Appendix A

Map of MPO Planning Area Boundary



Appendix B

List of Acronyms Used in this Document

ADA	Americans with Disabilities Act
APBP	Association of Pedestrian & Bicycle Professionals
CATSO	Columbia Area Transportation Study Organization
CPG	Consolidated Planning Grant
CT	Columbia Transit
DBE	Disadvantaged Business Enterprise
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
FY	Fiscal Year
GIS	Geographic Information System
LRTP	Long-Range Transportation Plan
MAP-21	Moving Ahead for Progress in the 21 st Century
MoDOT	Missouri Department of Transportation
MPO	Metropolitan Planning Organization
MRP	Major Roadway Plan
NRI	Natural Resources Inventory
SAFETEA-LU	Safe, Accountable, Flexible, Efficient Transportation Equity Act:

A Legacy for Users (2005)

STIP Statewide Transportation Improvement Program

TAZ Traffic Analysis Zone

TIP Transportation Improvement Program

UPWP Unified Planning Work Program

Appendix C

CATSO Staff

Full-Time Staff:

Mitch Skov, Senior Planner (1.0 FTE)

Rachel Bacon, Planner (1.0 FTE)

John Fleck, GIS Support Coordinator (.5 FTE)

Part-Time Staff:

Timothy Teddy, Director (.2 FTE)

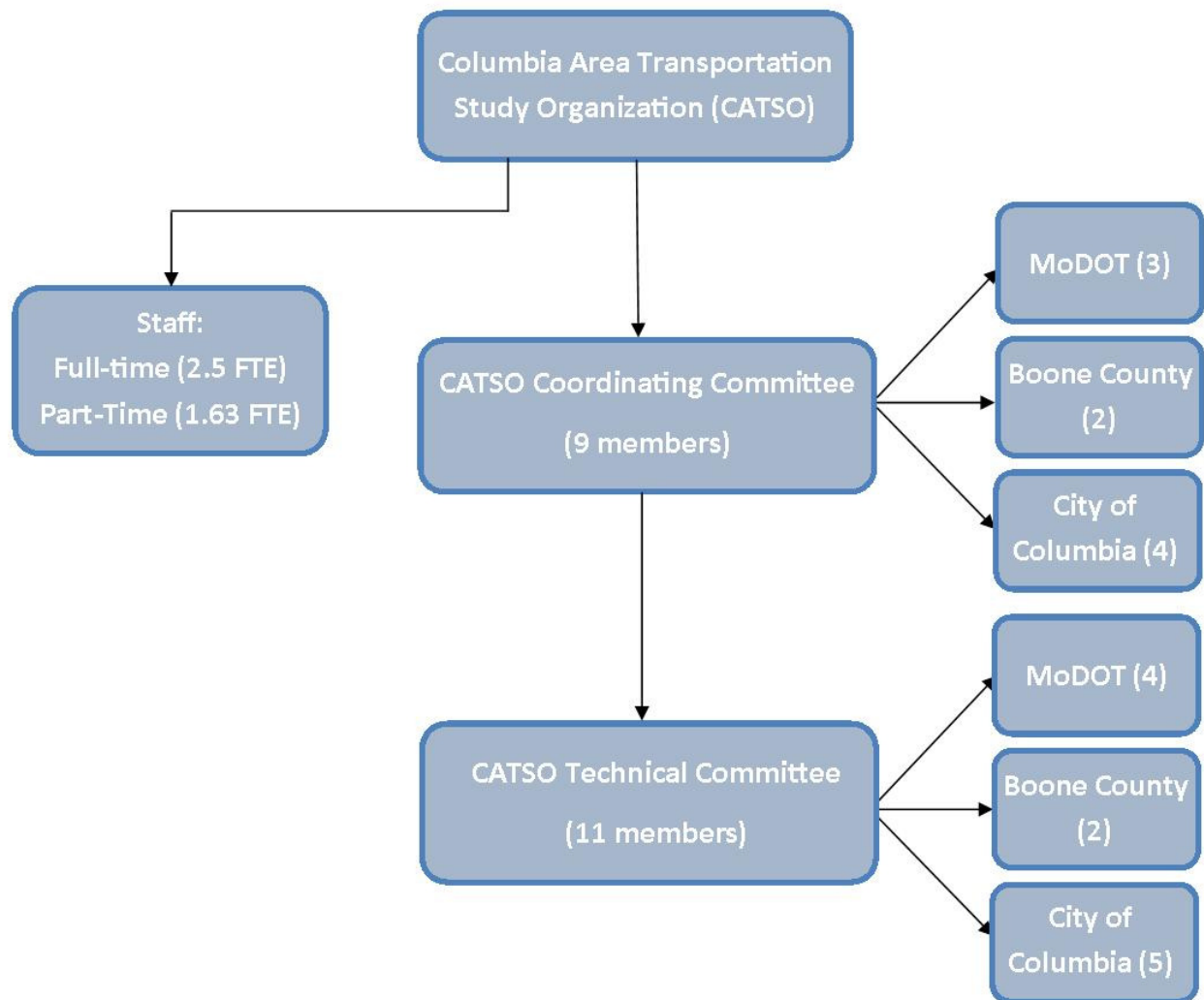
Denise Clark, Administrative Secretary (.2 FTE)

Vacant, Planning Aide (.2 FTE)

Other GIS support: 1.03 FTE

Appendix D

CATSO Organizational Chart Columbia Metropolitan Planning Area Columbia, MO



Appendix E

Adopted CATSO Public Participation Plan re: UPWP

5. Unified Planning Work Program (UPWP)

5.1 Definition of the UPWP. The Unified Planning Work Program (UPWP) is a description of the proposed work activities of CATSO. The program is prepared annually and serves as a basis for requesting federal planning funds from the U. S. Department of Transportation. It also serves as a management tool for scheduling, budgeting, and monitoring the planning activities of the participating agencies. This document is prepared by CATSO staff with assistance from various agencies, including the Missouri Department of Transportation, the Federal Highway Administration, the Federal Transit Administration, the Columbia Transit System, and members of the Technical Committee.

5.2 Procedure and Schedule for Preparation of the UPWP. The UPWP is developed by CATSO with input from local governments, area private transit providers, and the Missouri Department of Transportation (MoDOT). When comments are being solicited during the public review period, notice will be posted on the CATSO web site. All public comments received pertaining to the UPWP will be reviewed and considered. An effective means of incorporating public input into the UPWP is to review comments received the previous year that relate to similar new projects. When developing the work program, the UPWP project manager should take this public comment into consideration.

The UPWP is updated annually beginning in June, and released for public review and comment for a minimum of 30 days prior to formal adoption. Included is the posting of the draft UPWP on the CATSO website, as well as providing the draft UPWP to contacts at MoDOT, FHWA, FTA, and local transportation providers for their review. Final approval is made in August at the Technical and Coordinating Committee meetings. Amendments can be made throughout the year and are released for public comment when tasks are either added or deleted, or when significant changes are made to the document.

5.3 Changes to the UPWP.

1. UPWP Amendments: (Major changes). UPWP Amendments are major revisions which require the official approval of the CATSO Coordinating Committee. The

approval is followed by submission to the MoDOT for approval and subsequent approval by FHWA and FTA. An example of a major change is revising the UPWP budget to include additional CPG federal funding. Amendments require a public comment period of 15 days prior to consideration by the Coordinating Committee, with a public hearing according to the procedure in Section 5.2. Public notice will be given by a press release, and listed on the CATSO website.

2. UPWP Administrative Revisions (Minor changes). UPWP Administrative Revisions are minor changes which can be made directly by CATSO staff once it has been verified that the change applies to this category. Notification of administrative modifications will be provided to the Technical Committee, Coordinating Committee, MoDOT, FHWA and FTA. UPWP Administrative Modifications will require no public comment period.