Planning & Policy

Trade / Transportation Studies & Corridor Studies
More than 40 “priority” corridors have been designated by the U.S. Congress since the passage of the ISTEA transportation bill. Many have a trade and even international trade orientation, and most are oriented toward economic development. CDM Smith has worked on more than 14 of these designated corridors to analyze multimodal conditions and recommend projects, technology improvements, and improve access, mobility, and trade competitiveness.

Freight Planning
Integrated freight systems are important to the economy and safety of the motoring public. CDM Smith recognizes that a systems approach to transportation planning and engineering is fundamental to the development of effective transportation delivery and services. CDM Smith has successfully integrated multi-disciplinary teams to develop some of the world’s most innovative freight plans.

Geospatial Technologies & GIS
The demand for processing and understanding information in a spatial context has grown rapidly during the last two decades. In response to this, CDM Smith has established itself as a leader in planning, developing, implementing, and maintaining geographic information systems in support of complex transportation projects.

Travel Demand Modeling
Travel demand modeling and forecasting have been mainstays of CDM Smith for over 50 years. We have been responsible for developing computer-based models and supporting databases that provide a rational basis for evaluating proposed transportation system improvements in hundreds of urbanized areas, multi-jurisdiction transportation corridors, regions, and states.

State DOT & MPO Planning
CDM Smith’s state DOT and MPO Planning practice focuses on the development of multimodal transportation plans that help prioritize transportation needs against available funding. We help developed state and metropolitan federally-mandated long-range transportation planning, corridor and sub-area planning, congestion management, thoroughfare, and strategic planning.

Missouri Statewide Freight Plan:
CDM Smith developed the freight plan, which delves into the freight movements of all modes of transportation, including highway, rail, barge, and air cargo. CDM Smith worked closely with the Statewide Long-Range Transportation Plan “On the Move,” to develop a network inventory/assessment, scenario plans, performance measures, and strategic policy.

Oklahoma Long-Range Transportation Plan:
CDM Smith delivered ODOT’s “Moving Oklahoma Forward” plan, the 2015-2040 update for the state’s multimodal LRTP, which included goals & objectives, transportation conditions & needs analysis for all modes. A public and stakeholder outreach was an important part of the plan.
I-70 Second Tier Environmental Impact Statement:
CDM Smith prepared a Second Tier Environmental Impact Statement for I-70 on the Missouri side of the Kansas City Metropolitan Area, covering 6.8 miles of I-70. This stretch of I-70 passes through heavily urbanized areas of Kansas City with very limited right-of-way available for improvements. CDM Smith developed a number of strategy packages that addressed vital transportation needs within the corridor along with a draft EIS for a preferred strategy for corridor improvements.

Environmental Services

NEPA & Permitting
CDM Smith provides “one stop shopping” for National Environmental Policy Act studies and documentation. We know the regulations, design and implement successful public outreach, prepare reader friendly documents, and have developed award winning tools, techniques, and processes to streamline the NEPA process. CDM Smith can also help secure federal, state, and local environmental permits during construction and operation.

Greenhouse Gas & Sustainability
CDM Smith is a recognized leader in sustainability planning, greenhouse gas accounting and mitigation, and climate change adaptation for all modes of transportation. As a full service firm with interdisciplinary expertise our capabilities are based in real-world experience and our knowledge of cutting-edge developments in these growing fields.

Water Resource Capabilities for Transportation Projects
CDM Smith is a recognized leader for storm water management in the transportation industry. CDM Smith provides a full range of services including program management with implementation, reporting, BMP design, and TMDL water quality services to address permit compliance requirements associated with discharging storm water run-off from DOT rights-of-way.

In addition, CDM Smith has experience with the construction aspect of project delivery with experience in storm water pollution plan design, on-site inspection capability, training and certification in the area of erosion and sediment control, and with traditional highway drainage system design and post-construction water quality control design.

Hazardous Materials
CDM Smith’s experience includes thousands of assignments encompassing all facets of hazardous, toxic, and radioactive waste remediation services from preliminary investigations through remedial action implementation and long-term operations and monitoring. Complementing our focus on practical applications, CDM Smith’s research and development activities have led to innovative technologies and cost-effective solutions.

KCMO Stormwater Master Plan: CDM Smith is developing a Stormwater Development Master Plan for the Kansas City International (KCI) Airport. The Master Plan will provide a system-wide analysis for the airport property including field survey and condition assessment, hydrologic and hydraulic modeling, and deicing system analysis. This information will represent the existing system to assist in determining impacts of future development and improvements on flood issues, water quality and pertinent regulations.
Tennessee SmartFix 40: CDM Smith was selected by the Tennessee Department of Transportation to design, reconfigure, and widen I-40 through urban Knoxville. Statistically, this stretch of road was one of the most dangerous intersections in the United States.

Engineering & Design: Roadway, Structures, Bridges, & Geotechnical
CDM Smith provides a full range of services for all types of roadways, such as roadway and interchange design, roadway surfacing, and rehabilitation; hydrology and hydraulics; ROW; utility coordination; survey; streetscaping and landscaping; and value engineering. As a leader in contemporary bridge technology, involving nearly every bridge configuration and type of transportation structure. We also integrate geotechnical, pavement, and foundation/site-related construction services into our designs.

Construction Management, Engineering & Inspection
For nearly 30 years, CDM Smith has been providing not only CEI services, but overall management of the construction process. Our services have expanded into airport and marine terminal construction, industrial facilities, and parking structures, and this work is supported by claims review and analysis, construction scheduling, and work zone safety and education.

Design-Build
CDM Smith has earned a reputation as a national leader in design/build projects emphasizing innovation and fast track delivery, with dozens of completed projects throughout the U.S. On transportation design/build projects, we have provided design project management, engineering and design services, QA/QC, and CEI.

Program Management
We provide total program management for transportation projects; services include development of design criteria, plan and bid reviews, QA procedures review, value engineering, procurement, conducting partnering sessions, invoice review, and construction management. Our approach includes providing personnel with compatible experience and relationships to be able to serve as an extension of the client’s staff.

Parking Services
CDM Smith’s parking services offers comprehensive planning, studies, traffic analysis, design, inspection, and rehabilitation of parking structures and facilities (both surface and garage). We also serve parking clients in the privatization of parking facilities.

Signage & Wayfinding
The effective movement of visitors in unfamiliar environments requires well-conceived wayfinding systems and signage programs that guide users along the journey to their destinations. For decades, we have provided comprehensive services for the planning, design, and implementation of functional and attractive wayfinding systems.

I-435/Rt. 210 DDI: CDM Smith provide engineering services of a new diverging diamond interchange in Kansas City, MO across a varying and challenging terrain. MoDOT developed the concept and tasked CDM Smith with developing solutions that included crossover angles of 30° and 50° which are not within standards but provide better traffic operations and truck movements through each unique crossover.

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I-95 Section 100 General Engineering Consultant: CDM Smith, as part of a joint-venture, provided program management services for the design and construction of one of the most congested sections of I-95 in Maryland. The 8.5 mile project’s scope included multiple splits, 43 interchanges, widening I-95 and the construction of an additional four Express Toll Lanes, to address capacity, operational, and safety issues.
Indianapolis Public Transportation Corporation
(IndyGo) Red Line Bus Rapid Transit Services: CDM Smith provided environmental documentation and design services for the 35-mile Red Line BRT proposed for Indianapolis. The Red Line initial operating segment is 13.1 miles with 28 stations. In addition, CDM Smith provided public outreach, traffic and operations analysis, travel-demand modeling, pavement and drainage design, utility coordination, surveying, ROW, and QA/QC oversight.

Asset Management
CDM Smith has been a national leader implementing asset management programs in transportation for over five decades. Our expert staff views asset management as a business model applying AASHTO and TRB principles to guide clients on best practices and make informed resource allocation decisions across the lifecycles of entire asset portfolios. Asset management services include:

- Developing policy and doctrine to better align and advance organizational goals and regulatory compliance
- Incorporating and establishing service standards
- Establishing procedures to streamline data management and IT utilization
- Developing and deploying performance-based metrics, measures, and analysis techniques to standardize and support objective decision making
- Developing structured, yet interactive, data-driven business case analysis methodologies
- Implementing performance monitoring procedures and plans
- Purposing and implementing integrated information systems including GIS, maintenance management, financial, personnel, and inventory management systems.
- Implementing and complying with GASB and other reporting objectives.

Economics & Economic Development
CDM Smith is a leading provider of economic development and market analysis consulting services. We combine extensive industry knowledge, distinguished professionals, and innovative analysis to help our clients create innovative solutions. Our range of services include:

- Agriculture/Rural Development
- Benefit-Cost Analysis
- Economic Development Studies
- Economic Evaluations
- Economic Feasibility Studies
- Economic Impact Studies
- Economic Modeling
- Fiscal/Cost-of-Growth Studies

Integrated Transportation Systems
Our extensive resources and experience across all modes offer our customers the opportunity to integrate their individual operation, program, or initiative into an integrated transportation system. Community and regional needs vary and our extensive rail, aviation, transit, waterports, bicycle, and pedestrian experience provides solid alternatives to highway expansion. Our range of services include:

- Airport Planning/Design
- Air Cargo Studies
- Bicycle/Pedestrian Planning/
- Design
- Bus Rapid Transit
- High-Speed Passenger Rail
- Public Transit
- Parking/Facility Studies/Design
- Ports/Maritime Analysis/Planning

Western & Ashland Alternatives Analysis: CDM Smith developed an FTA Alternatives Analysis for Western and Ashland Avenues (42 miles), two of the highest ridership corridors in Chicago. The process included the technical analysis and public/stakeholder outreach. While the focus of this project is on BRT because it is within existing right-of-way, the balance between all modes is being considered throughout the process making this a complete streets project.