

HUFFMAN CORRIDOR CONSULTING



Huffman

Corridor Consulting, LLC

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Corridor Management

The Balance of Land Use and Transportation

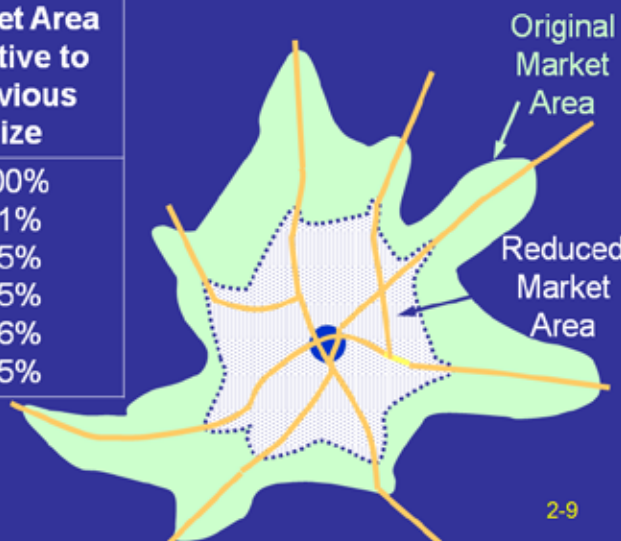
Land use (economic development) systems and transportation networks coexist with one another in a demand/supply relationship just as any economic system. The complex interactions of supply and demand are a calculus of numerous variables, many of which are non-rational in nature. Predictability and consistency in these interactions are conceptually very straightforward, but in practice they are extremely difficult to implement. The primary mechanism through which traffic demand generators (land uses) interact with the transportation system is through access. Access management is defined as the systematic management, location, and design of driveways, intersections, interchanges, and median openings. Consistent and effective management of access maintains the safe and efficient flow of traffic, and these benefits are well documented.



What is less well understood (and applied) are the benefits to the land use (economic) systems. The market penetration of a system land uses is dependent upon the distance that customers, employees, or residents can travel during a reasonable period of time. As the ability of a transportation corridor or network to carry traffic is degraded over time, the negative impact to the economic system is geometrically harmed. A 50% drop in prevailing network speed (say, 50mph to 25 mph) results in a market area approximately 25% as large as the original area. This does incalculable damage to private and public investments, and creates an unsustainable cycle.

Effects of Travel Time on Market Area

Reduction in Average Speed	Market Area Relative to Previous Size
0%	100%
10%	81%
20%	65%
30%	45%
40%	36%
50%	25%



Analysis of the appropriate balance between supply and demand, design of engineering and real property policies, and execution of implementation plans requires a multi-disciplinary blend of skills that Huffman Corridor Consulting is uniquely capable of delivering.

Christopher W. Huffman, P.E.

ENGINEERING EXPERIENCE

Engineering Credentials

NCEES File Number 35531

Kansas Professional Engineer License Number 14916

Current Projects

SHRP II R-11, Subcontractor to Louis-Berger Group (*project underway*)

Mr. Huffman is the Team Leader assessing right-of-way and economic impacts resulting from transportation renewal programs. Chris has been working with other team members from University of Louisiana-Baton Rouge, University of Florida, University of Arizona, and SAIC as well as Louis-Berger Group (prime) to develop data plans and experimental designs, and to gather and analyze the large volumes of highly subjective data that is inherent to this effort.

US-54 Highway (Kellogg) Freeway Retrofit Planning Study – Andover, KS (*Nearing Completion*)

Huffman has directed the right-of-way impact analysis for this corridor study and has played a significant role in the public involvement activities. Intergovernmental coordination between State, MPO, and local authorities has been a key element of this project.

Recent Projects

US-24 Highway Corridor Management Study – Southern LV County, KS (2007 – 2008)

Duties: Interagency coordination of: KDOT, Mid-America Regional Council, Leavenworth County, Cities of Basehor and Tonganoxie; Transportation Corridor and Land Use Analysis and Coordination; Market Analysis; Implementation Planning.

US-183 Hwy Corridor Study Implementation and Monitoring – Hays, KS (2006 – 2008)

Duties: Implementation of Corridor Study in Conjunction with System Enhancement of US-183, Ellis County; Interagency Coordination Amongst KDOT, Ellis County, and City of Hays; Acquisition of Rights of Way; Development Coordination.

Previous Positions

Assistant Chief of Traffic Engineering/State Corridor Engineer Kansas Dept of Transportation (KDOT) (June 2003 – Aug 2008)

Duties: Traffic Engineering; Corridor Management; Freight Transport; Budget and Procurement; Training; Senior Manager in the absence of the Bureau Chief; CVISN Program Coordinator; Expert Witness

Corridor Management Administrator, KDOT Bureau of Traffic Engineering (August 1997 – June 2003)

Duties: Principal Author – KDOT Corridor Management Policy; Manager of the Corridor Management Unit, Policy, and Program; Chair – Standing Committee on Corridor Management; Chief Reviewer of Site Plans, Development Plans, and Traffic Impact Studies; Outreach and Education in Corridor/Access Management; Expert Witness

Long Range Plan Coordinator, KDOT Bureau of Transportation Planning (October 1995 – August 1997)

Duties: Site Impact Analysis for Major Developments; Administer the Kansas Long-Range Transportation Plan; Formation of the KDOT Corridor Management Program.

Project Manager, KDOT District Four/Area Three (Southeast Kansas) (July 1993 – October 1995)

Duties: QC/QA on Highway and Bridge Construction Projects, Contract Administration; Pay Estimates; Contract Change Orders

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ENGINEERING EXPERIENCE

Transportation Research Board (TRB) Affiliations

Friend: TRB Committee on Access Management (AHB70) (3-Term member)
Previous Chair, Subcommittee on Outreach
Chair, 2004 National Access Management Conference
Member: TRB Committee on Eminent Domain and Land Use (AL060)
Friend: TRB Committee on Public Involvement in Transportation (ADA60)

National Cooperative Highway Research Program (NCHRP) Affiliations

Panel Member: NCHRP 03-91 – Left Turn Accommodation at Unsignalized Intersections [CURRENT]
Panel Member: NCHRP 03-99 – Development and Application of Access Management Guidelines [RECENTLY PUBLISHED]
Panel Member: NCHRP 08-65 – A Guidebook for Successful Communication, Cooperation, and Coordination Strategies Between Transportation Agencies and Tribal Communities [CURRENT]
Panel Member: NCHRP 08-46 – Incorporation of Access Management Into the Transportation Planning Process
Panel Member: NCHRP Synthesis 337 – Cooperative Agreements for Corridor Management
Panel Member: NCHRP Synthesis 289 – Corridor Management

Systems Development:

Truck Routing Information System (TRIS) – The Truck Routing Information System was developed to aid in the routing of oversize/weight and super-loads of freight throughout the Kansas State Highway System. It integrates with several spatially enabled engineering systems as well as fiscal systems to issue permits for such loads in accordance with State and Federal law.

Highway Access Permit System (HAPS) – The Highway Access Permit System converted all highway access permit forms to electronic format, automated all workflows, and automated the archival of data for all pertinent applications. It was also designed to automatically update the statewide intersection inventory.

Intersection Inventory – The intersection inventory is a spatially based, statewide inventory of all intersections and access points on the Kansas State Highway System. The data is also structured in such a way to allow spatial integration with other point data and linear data associated with the base network. The intersection inventory data was collected using GPS data-loggers that are now part of KDOT's IT inventory and an integral part of the agency's spatial enablement efforts.

Research Conducted:

- Associated Costs of Intersection Crashes on the Kansas State Highway System
- The Relationship Between Intersection Density and Crashes on the Kansas State Highway System
- Use of Travel Time, Crash Data, and Intersection Density in Corridor Retrofit Planning

Education:

- Bachelor of Science – Civil Engineering, University of Missouri-Rolla, 1992
- National Highway Institute (NHI) Course #420018A – Instructor Development Course
 - NHI Course #133078 – Access Management, Location, and Design
 - NHI Course #133005C – Highway Capacity and Quality of Flow
 - NHI Course #380032A – Roadside Design Guide
 - NHI Course #137022 – CORSIM Traffic Simulation Model Training
 - NHI Course #152054 – Introduction to Urban Travel Demand Forecasting
 - NHI Course #14205 – Context Sensitive Solutions
 - NHI Course #35005 – Highway Program Financing

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INSTRUCTOR EXPERIENCE

Training Credentials

National Highway Institute Certified Instructor #0180
2009 Certificate of Excellence Recipient

National Highway Institute Instructor Experience:

NHI 134073: Leap Not Creep – Accelerating Innovation Implementation – Lead Instructor

Huffman is Lead Senior Instructor for, and was involved in the development and piloting of, this new NHI course; which is a combination of WCT and ILT instructional platforms. This course, which is focused upon implementation of innovation within transportation agencies, has been offered 9 times since piloting, and at various locations throughout the U.S.

NHI 133078: Access Management, Location, and Design –Senior Instructor

Huffman is one of two Senior Instructors for the National Highway Institute's 3-day course. Huffman has instructed this course approximately 15 times, and at various locations in the U.S.

Local Technical Assistance Program Instructor Experience:

Workshop - Organization and Review of Traffic Impact Studies

Huffman developed and taught a one-day workshop on the Organization and Review of Traffic Impact Studies in the state of Kansas through the Kansas University Local Technical Assistance Program and for the Missouri Department of Transportation. Instructional materials included information on trip generation, network distribution, capacity and quality of flow, and geometric improvements and safety and congestion countermeasures.

Workshop – Corridor Management Tools and Techniques

Huffman developed and taught a one-day workshop on Corridor Management Tools and Techniques through the Kansas University Local Technical Assistance Program center. Instructional materials included information on corridor preservation, advance acquisition of rights of way, acquisition of lesser degrees of interest, and land use controls.

Guest Lecturer Experience:

Kansas University Graduate School of Civil Engineering

Huffman has lectured on the impacts of Access Management at the Graduate Safety Seminar at Kansas University.

Kansas University Graduate School of Public Administration

Huffman has lectured on the impacts of Access Management on public policy and economic sustainability at the Infrastructure Management class of the Kansas University Masters of Public Administration program.

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APPRAISAL EXPERIENCE

Appraisal Credentials

Kansas Certified General Real Property Appraiser #G-2537

Missouri Certified General Real Property Appraiser #2008018065

Mr. Huffman evaluates the market value of varying types of income-generating real property for clients such as lenders, owners, investors, and legal counsel.

Appraisal Work History

Martens Appraisal (*July 2005 – Present*)

Real Property Appraisal Experience Types Include:

- Retail Single and Multi Tenant
- Office Single and Multi Tenant and Condominium
- Industrial Single and Multi Tenant
- Lodging Facilities
- Apartment Complexes
- Banks
- Development Land
- Agricultural Land
- Special Use (Churches, Movie Theaters, Schools)
- Before/After Appraisal for purposes of acquisition and/or condemnation

Appraisal Education and Training:

Successfully completed the following courses offered by Bobbitt and Company:

- Basic Appraisal Theory
- Basic Appraisal Techniques

Successfully completed and passed the following courses and seminars offered by the Appraisal Institute:

- Course 310 – Basic Income Capitalization Theory & Techniques
- Course 510 – Advanced Income Capitalization Theory & Techniques
- Course 520 – Highest and Best Use and Market Analysis
- Course 540 – Report Writing and Valuation Analysis
- Litigation Skills for the Appraiser – An Overview
- Eminent Domain and Condemnation
- 2007 USPAP Update
- 2009 USPAP Update
- 2011 USPAP Update
- An Intro to GIS Applications in Real Estate Appraisal
- Commercial Appraisal Engagement and Review Seminar for Bankers and Appraisers
- Feasibility, Market Value, Investment Timing: Option Value
- IAAO Hotel Valuation Seminar

Successfully completed and passed the following courses & seminars offered by McKissock

- Appraising and Analyzing Industrial and Flex Buildings for Mortgage Underwriting
- Appraising Apartments – The Basics
- Appraising and Analyzing Office Buildings for Mortgage Underwriting

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MEDIATOR EXPERIENCE

Mediator Credentials

Kansas Supreme Court Approved Core and Civil Mediator
Kansas Supreme Court Approved Core Mentor Mediator

Public Policy Facilitation Experiences

- Location and Design of Access Points to the Kansas State Highway System
- Facilitation of Concurrent Regulatory Review by Multiple Jurisdictions
- Facilitation of Public Involvement Plans for Highway Corridor Projects
- Facilitation of Workplace Disputes
- Acquisition of Easements and Rights of Way for Highway and Street Projects

Workshop Presentation

- "Dispute Resolution in Access Management" – 2006 National Access Management Conference

Mediation Education

- Mediation Core Skills "Dispute Resolution Skills and Strategies", April 2005
- Public Policy Civil Mediation Training, May 2005
- Employee Relations Disputes, June 2005
- Mentor Mediator Training – KIPCOR, February 2008

