

INDOT Statewide Access Management Study

Presented to
2004 Road School
Presented by
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Urbitran Associates, Inc.

What is Access Management?

The Control and Regulation of the Spacing and Design of:

- DRIVEWAYS
- MEDIANS
- MEDIAN OPENINGS
- TRAFFIC SIGNALS
- FREEWAY INTERCHANGES

What Happens If You Don't Manage Access?

What are the Benefits of Access Management?

- Fewer Accidents
- Increased Capacity
- Shorter Travel Time

What are the Principles of Access Management?

- Limit the number of conflict points
- Separate the conflict points
- Remove turning volumes and queues from through movements

Right-In / Right-Out / Left-In

6 CONFLICTS

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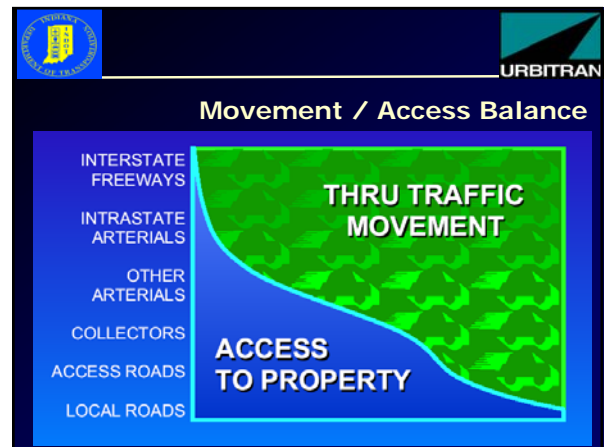
Techniques to Separate Conflict Points

- Driveway separation
- Corner clearance
- Median opening spacing
- Signal spacing

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What techniques are available to remove turns and queues from the through-movement?

- Turn lanes / tapers
- Turn radii / driveway flare
- Driveway width
- Internal site design



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How Can We Institute Access Management?

- Permitting
- Road improvements
- Cooperation with local governments

The icons at the bottom of the slide represent houses, a construction site with a truck, and a person at a computer, symbolizing the various aspects of access management.

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How Can We Institute Access Management?

- Permitting
 - New developments
 - Expanded developments

The icons at the bottom of the slide represent houses, symbolizing the impact of access management on residential areas.

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How Can We Institute Access Management?

- Road Improvements
 - Widening
 - Intersection upgrades
 - Installing new restrictive medians
 - New roads



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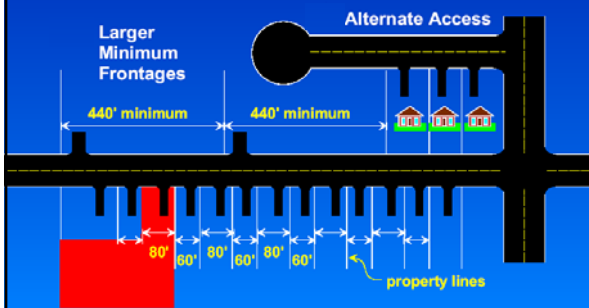
How Can We Institute Access Management?

- Cooperation with Local Governments
 - Site plan review
 - Improved subdivision regulations
 - Larger minimum frontages
 - No more "flag" lots
 - Joint access/Cross access



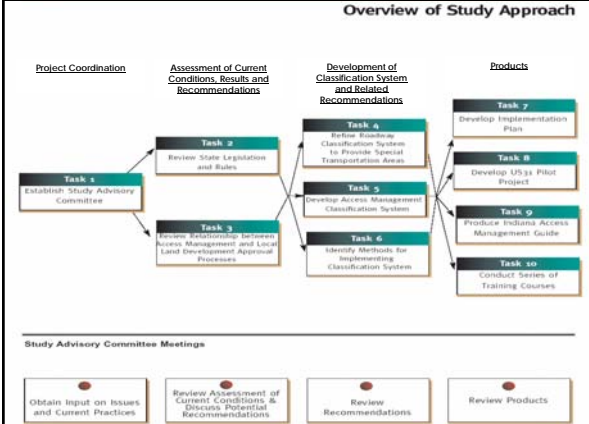
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Improved Subdivision Regulations



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Overview of Study Approach



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INDOT Access Management Study

Tasks 1 to 3

Project Coordination & Assessment of Current Conditions



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INDOT Access Management Study

Work Task No. 1

- Establish a Study Advisory Committee made up of INDOT, MPO, and local land use planning representatives to provide oversight to the study process
- INDOT Representatives:
 - Planning
 - Engineering Assessment
 - Program Development
 - Operations Support
 - District Permits Representatives



INDOT Access Management Study
Work Task No. 2



- Review Indiana access management related state legislation and rules
- Compare with national access management practices
- Recommend potential enhancements to improve Indiana procedures

INDOT Access Management Study
Work Task No. 3



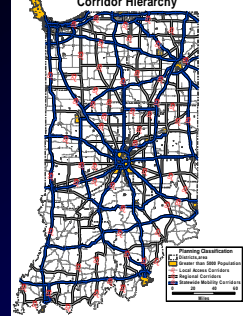
- Review the relationship of the INDOT access management process with the local land development process (access permits, zoning and subdivision approvals)
- Recommend potential improved procedures

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Tasks 4 to 6
Classification System

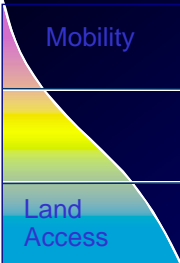
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Work Task No. 4

Corridor Hierarchy



- Develop an access management classification system based on the INDOT Long Range Plan's statewide mobility corridor concept
- Recommend acceptable access, spacing, and design criteria

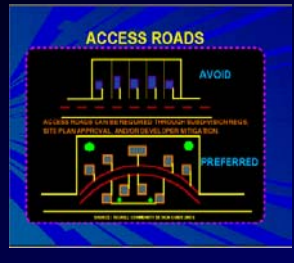
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Work Task No. 5



- Refine the roadway classification system of statewide mobility corridors, regional mobility corridors and local access roadways to provide a classification for Special Transportation Areas
- Consider context sensitive solutions and special access management treatments to deal with unique characteristics of an area

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Work Task No. 6

ACCESS ROADS



- Identify access management techniques for implementing the classification scheme
- Examples:
 - Access Spacing
 - Signal Spacing
 - Median Treatment

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Tasks 7 to 10

Products

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Work Task No. 7

- Develop an Implementation Plan for strengthening access management in Indiana
- Steps
- Authority
- Organizational Responsibilities
- Process

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Work Task No. 8

- Develop a pilot project for a US 31 corridor preservation program which will:
 - Focus on access management techniques
 - Provide recommendations for right-of-way reservation and advance acquisition

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Work Task No. 9

- Produce an Indiana Access Management Guide including content for web pages on the INDOT web site
- Explaining the INDOT Process used for managing access
- Identifying access management techniques and benefits
- Coordinating local land development and access management processes
- Identifying how access management fits into the Long-Range Transportation Plan

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Work Task No. 10

- Conduct a 1-day access management course at up to three locations to include:
 - Introduction and course objective
 - Overview of access management
 - Issues with current policy and practices
 - Recommended changes
 - Draft implementing mechanisms



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INDOT Access Management Study

The Urbitran Team

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- Dye Management Group, Inc.
- EnviroKinetics, Inc.
- Herbert Levinson
- Frank (Bud) J. Koepke





Urbitran Associates, Inc.

- Multi-Disciplined Consulting Firm
- Staff Includes 250 Professionals in 7 Offices Nationwide
- Over 30 Years of Experience in Highway Design, Transportation Planning, and Traffic Engineering
- Extensive Experience in Access Management, Route Studies, Corridor Planning, Highway Design, Transportation Simulation and Modeling, and Public Involvement
- Completed Similar Work for Montana, South Dakota, Michigan, and New Jersey Departments of Transportation

