How to Preserve the Safety and Capacity of Intercity Roadways

And the role of access management

La Administración Del Acceso



Florida Department of Transportation Tallahassee, Florida USA For:



This Presentation

- 1. How this work fits into the PIARC TC 2 mission
- 2. What is Access Management?
- 3. Practices and Challenges
- 4. Recommendations

Association mondiale de la Route



World Road Association

ST2 - Sustainable Mobility

TC 2.2 – Interurban Roads and Integrated Interurban Transport:

How to Preserve the Safety and Capacity of Intercity Roadways

-Access Management

Source: adapted from Ginny Clarke ST2 Coordinator

How this work fits into the PIARC TC 2 mission

The Practice of Access Management

How we did the study

- **Used case studies**
- **Internet Search**
- Spoke to national experts
- Policies and practice in CONTEXT
 - See how different regions have addressed the problem
- Recommendations for implementation
- More questions

¿En Qué Consiste La Administración Del Acceso?

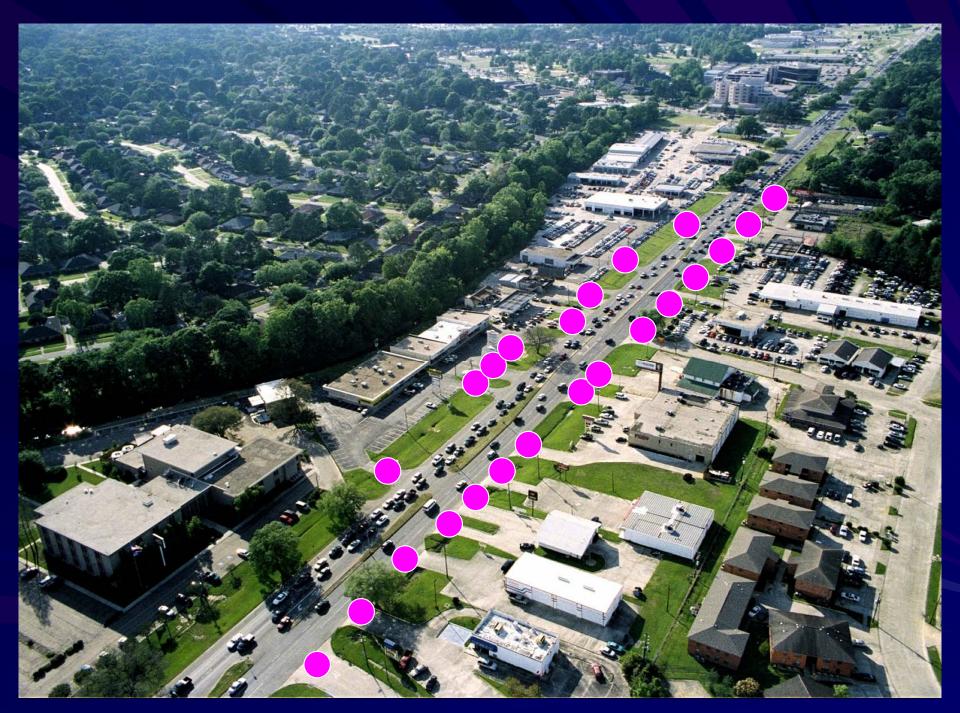
What is Access

Management









What is Access Management?

Open Property Frontage



India — Source: Michigan State University - USA

What is Access Management

Managing the location, spacing and design of:

Manejo of

Manejo de la localización, del espaciamiento y del diseño de:

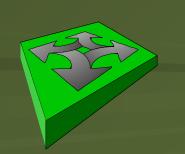
Driveways Entradas de vehículos

Medians camellones

Median Openings

Aberturas en los camellones

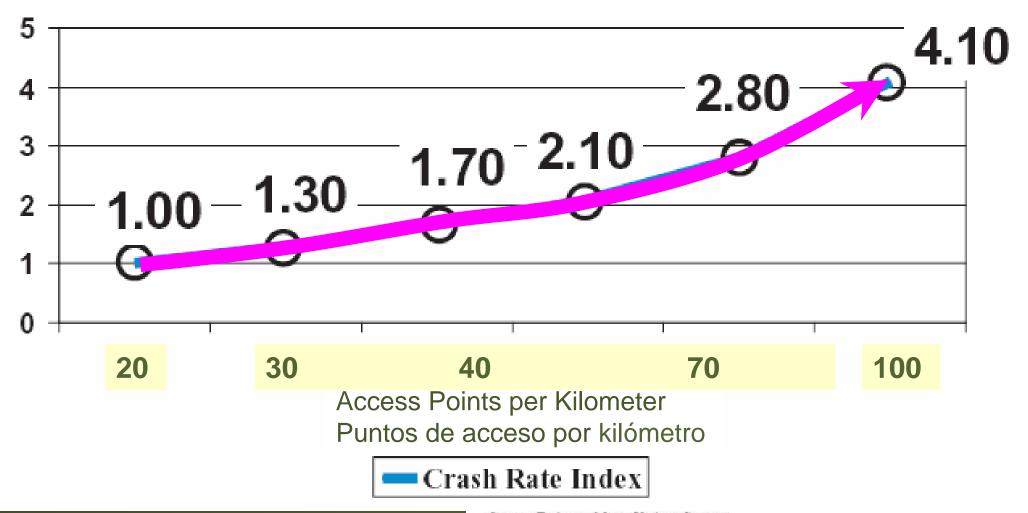
Traffic Signals Semaforos



Freeway Interchanges

> Entradas a Las Autovias

More Access Points = More Crashes Mas Puntos de Acceso = Mas Accidentes



Source: NCHRP 420, 2000

Source: Estimated from Various Sources

Figure 15. Composite accident rate indices.

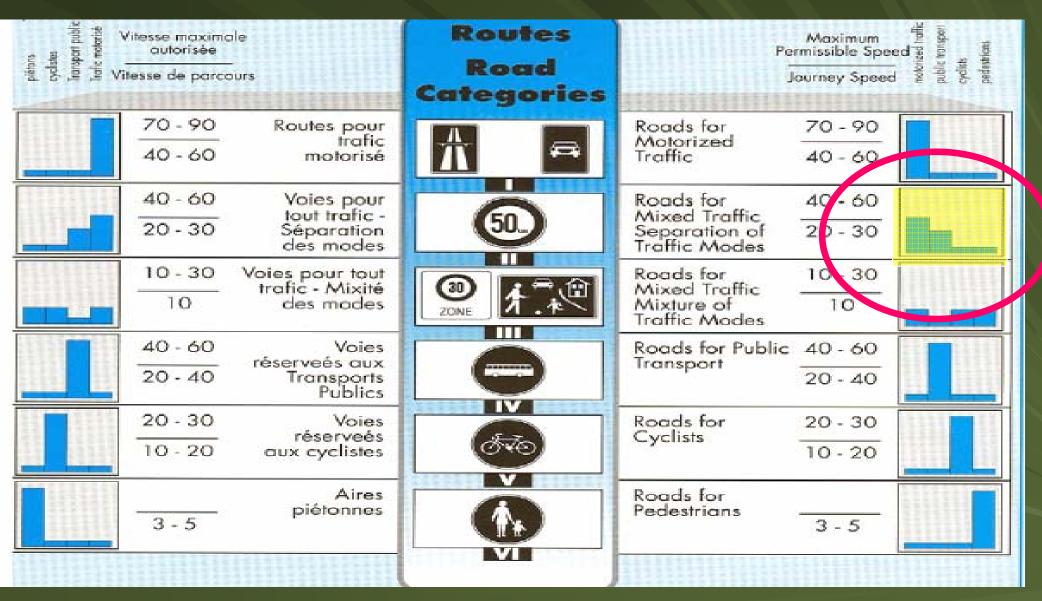
What is Access Management?

Different Roads Have Different Objectives

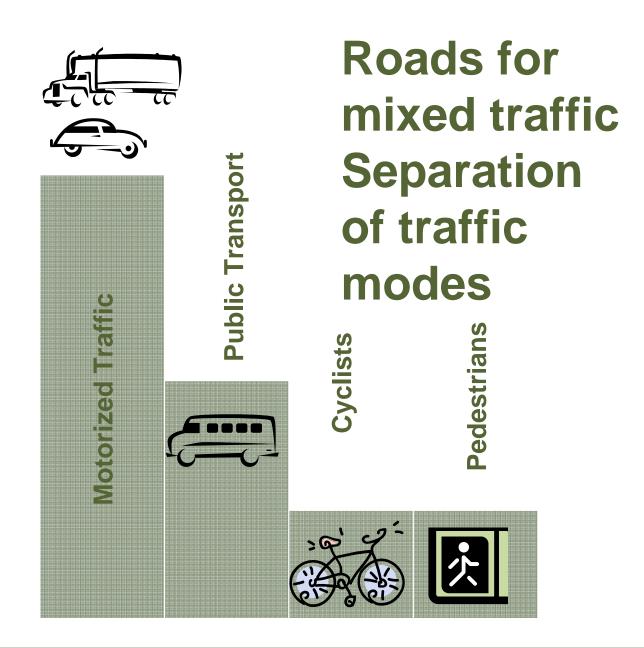
Diferentes Caminos Tienen Diferentes Functiónes



Roadway Types the European Model



Source: Through Traffic in Small Towns - PIARC – Special Report 04.03.B 1991 What is Access Management?



Source: Through Traffic in Small Towns - PIARC - Special Report 04.03.B 1991

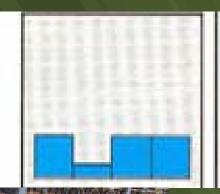
Balancing Modes



Roads for Mixed Traffic Mixture of Traffic Modes

10 - 30

10









Source: Dr. Parsosnson Ga. Tech What is Access Management?

Paris Boulevard



Access Management Practices and

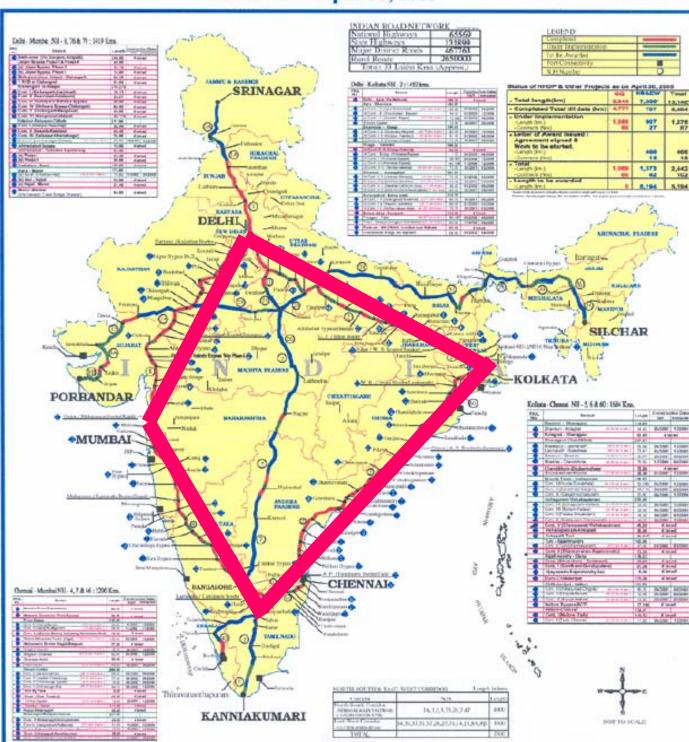
Challenges



NATIONAL HIGHWAYS DEVELOPMENT PROJECT

Status as on April 30, 2005





India

The Golden Quadrangle

Practices and Challenges

NATIONAL HIGHWAYS AUTHORITY OF INDIA Ministry of Shipping, Road Transport & Highways Government of India Providing Connectivity, Safety and Speed

costly, and often, impossible. The result is that the main traffic on the National Highways is subjected to a lot of hardship and there is widespread criticism about the deteriorating level of service.

The absence of legislation empowering the competent authority to remove.

India - Enabling Legislation

The Control of National Highways (Land and Traffic) Act, 2002

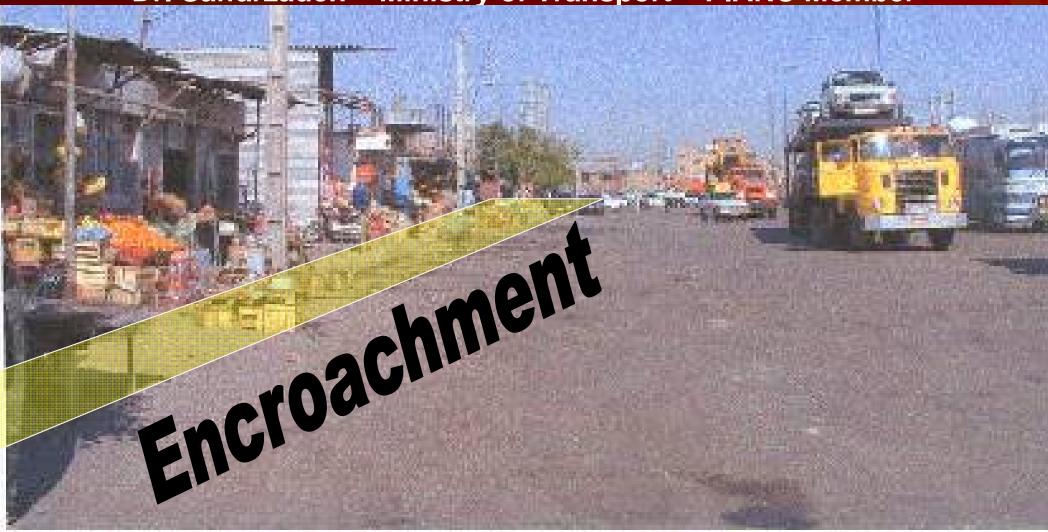
congestion, waste of fuel, reduced speed, high incidents of the strategies of the st

5. To overcome the aforementioned problems, it is proposed to bring the Bill in Parliament to enact legislation to regulate traffic, as well as, the right of way on the National Highways. The salient features of the proposed legislation are as follows:-



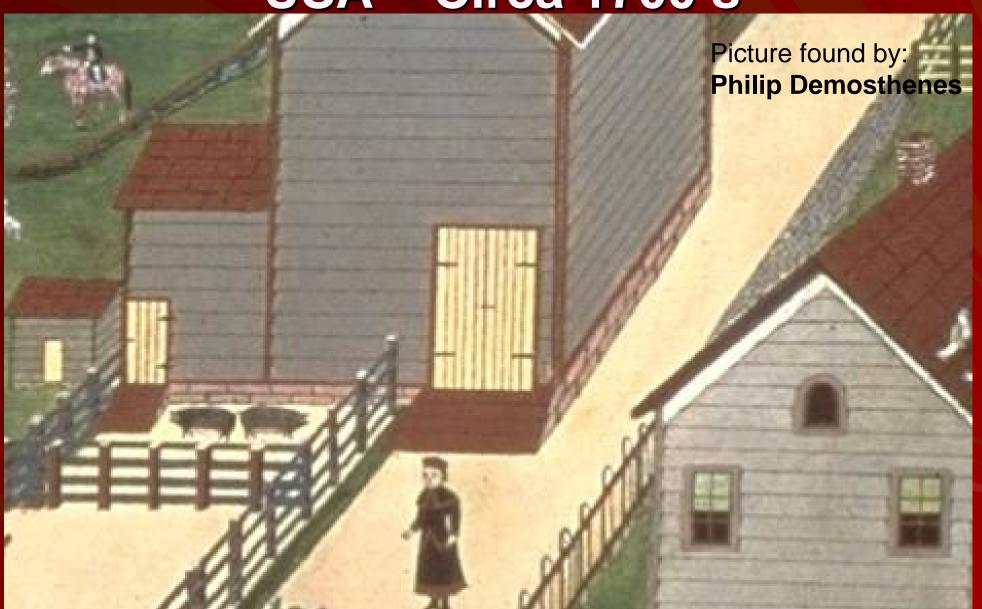
Road Access Management in Iran Issues and Regulations

Dr. Saffarzadeh – Ministry of Transport – PIARC Member



Source: Dr. Saffarzadeh – Ministry of Transport – PIARC Member

The Problem of Encroachment USA – Circa 1700's



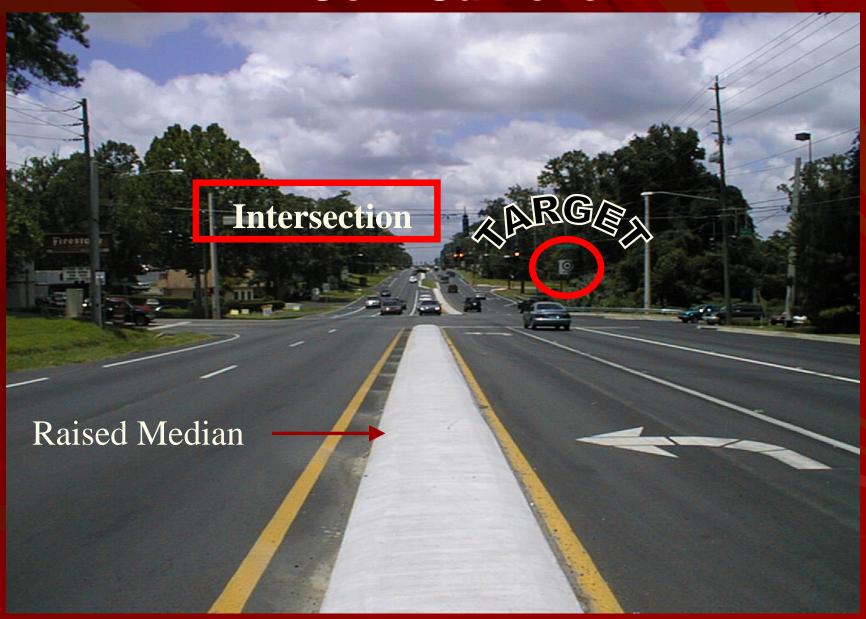
Pedestrian Safety



Pedestrian Safety Center Lane Carril del Centro



With New Median Con Camellon



Access Management Can Be Controversial



Businesses want median erased from road plan

Opponents say a median on State Road 44 would cause too many access problems for area stores.

By GEORGE WILKENS Tribune Staff Writer

LECANTO - It will be a couple of weeks before state Department of Transporwithout a median, to accommodate turning, Fowler said.

Charles R. Clendenny of CRC Fence & Garden, who helped organize a petition drive opposing the median, said the median also was removed when the highway was widened from County Road 581 through In-

Gendenny said that when DOT amended plans to include the raised median, it failed to take into account the many large delivery trucks serving S.R. 44 businesses.

Group claims victory in median battle

Transportation planners recommend project redesign



By Dennis Thompson Jr. FLORIDA TODAY

Business owners and residents along South Patrick Drive won a battle Wednesday in their fight against the raised median threatening to tear their community

They convinced Brevard County's transportation planning group to oppose state plans to widen South Patrick Drive to four lanes, with a raised median separating the northbound and southbound lanes.

Residents of Indian Harbour Beach and Satellite Beach said the median would hamper traffic and rob businesses of customers who would have to go out of their

TRANSPORTATION

way by U-turning to reach shops across the road.

"I think we won today. I thought we got a very fair shake at that meeting," said Richard Ferry, president of Valjean Corp. on South Patrick Drive. "But to use the cliche, I'm cautiously optimistic

"Like all political bodies, they love to tell you everything's taken care of to defuse the situation, then things go into planning, and six or nine months from now God knows what

See MEDIAN, Next Page



The median on Memorial Drive, here dividing a westbound

forcing merchants to close or resource their businesses since

Up against the 6-inch wall

Median saves lives, costs customers

LEAVING MEMORIAL DRIVE:

Merchants' say the concrete strip built to reduce accidents has made their businesses inaccessible, forcing them to close or relocate.

By Katle Long

Nine months after workers poured a 4.3-mile slab of concrete down the center of Memorial Drive, transportation officials say the median is saving drivers.

But merchants along the strip say it's killing their businesses. The Blockbuster Video near Memorial College Avenue is gone. So is the Ace Hardware Worksench across the street from Memorial

Bend shopping center. A Pike Nursery moved a couple of blocks east and off Memorial Drive onto Rays Road.

Dozens of stores and shops along the DeKalb County stretch from Interstate 285 to Goldsmith Road have closed or moved to more accessible locations since the 6-inch-high concrete wall went up in

Since the median has gone in, it's been very difficult to lease any property along there, and all business is dropping off," said a real estate agent who handles preperty along Memorial Drive.

For a destination-type place like Hooters [restaurant], it's OK," said the agent, who asked not to be identified

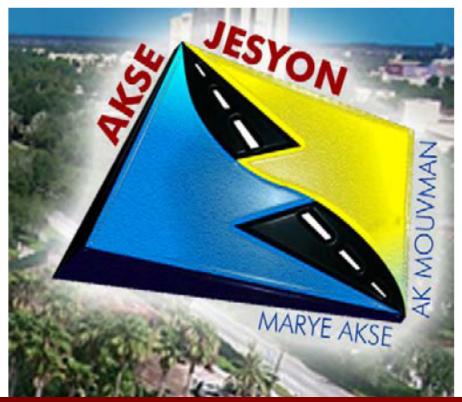


Merchant Dave Cardwell says the Memoral Drive median runed his business

It's Controversial

So speak the language of your shopkeepers

Jesyon Aksè





Spanish

Haitian Creole

Source: Florida DOT

South Africa

National Guidelines for Road Access Management in South Africa

Revised edition February 2004

COTO: Committee of Transportation Officials

South Africa

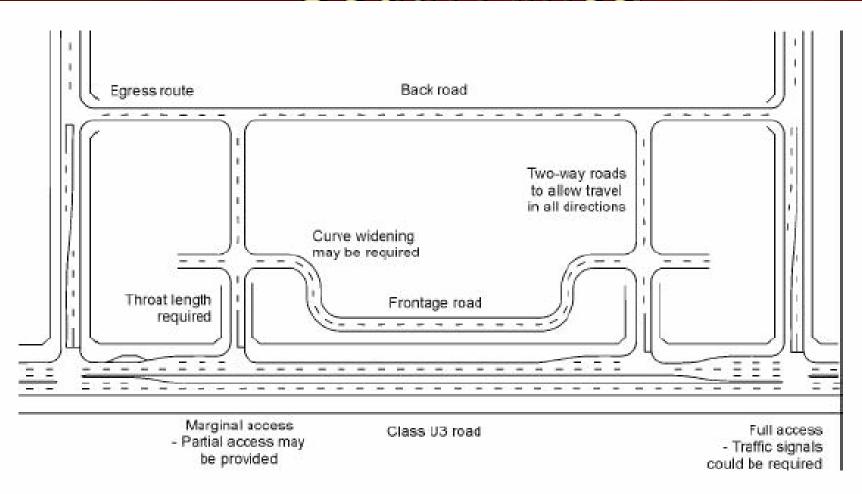
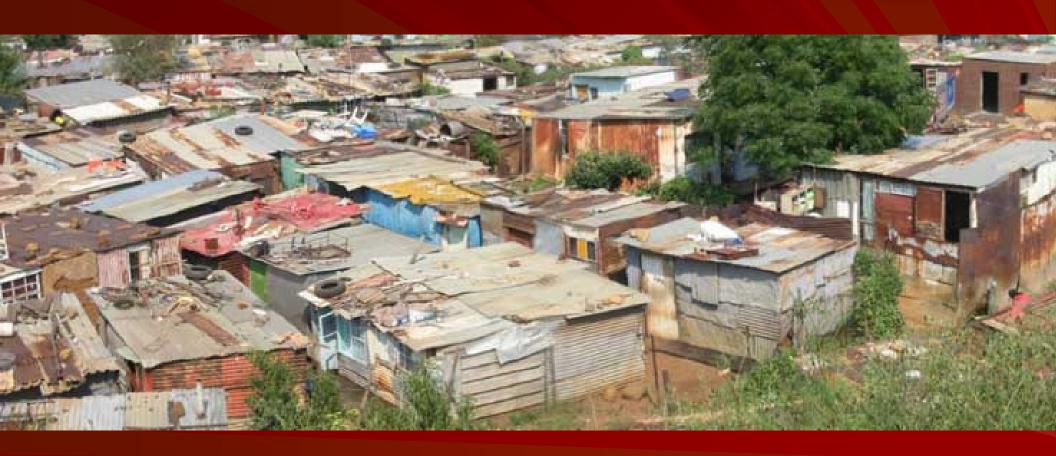


Figure 5.5 Frontage road on a Class U3 road

National Guidelines for Road Access Management in South Africa

Informal Settlement – South Africa Equity is a major concern



Informal Trading Area South Africa



Boulevard - Beijing China



Source: Kristine Williams CUTR

What is Access Management?

China

Analysis of Median Use on Beijing Urban Roadways

by

Shi Yu Juan¹, Yang Xiao Kuan², Kristine M. Williams³,

Transportation Research Center,

Beijing University of Technology, Beijing, China

Accommodating U-Turns

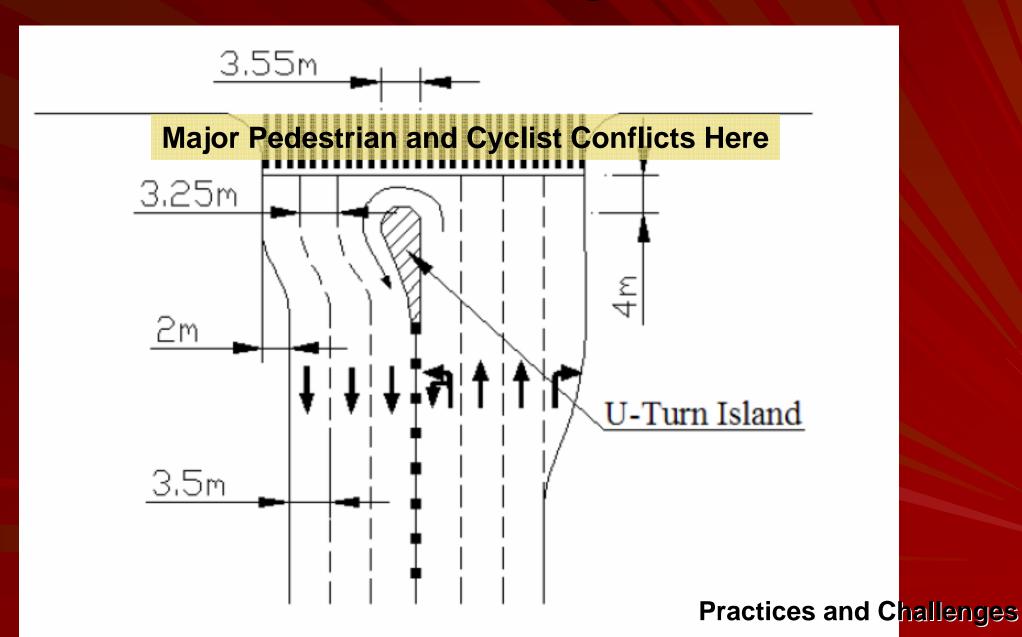


Figure 5. U-turn Island at Approach of Signalized Intersection

Some Considerations for Developing Nations

- Different problems than more developed nations
- Must learn what works for their situation
 - Remoteness of many areas
 - Less money



Possible Future Activities

- Report still in Draft stage
- More cross-national contact
 - More training seminars
 - More PIARC involvement
 - More engineers educated outside their country
 - PIARC's On line network of experts



Further Information *Más Información*

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http://www.dot.state.fl.us/planning/