

# The World Road Association (PIARC) in Promoting Access Management

## Some International Efforts

Gary Sokolow  
Florida Department of Transportation  
Tallahassee, Florida USA

Originally Prepared for:



# Some of the Members and Contributors

Association  
mondiale  
de la Route

AIPCR



PIARC

World Road  
Association

POLITECNICO DI BARI

I FACOLTA' DI INGEGNERIA  
BARI

II FACOLTA' DI INGEGNERIA  
TARANTO

FACOLTA' DI ARCHITETTURA  
BARI



**Road Directorate**  
Ministry of Transport - Denmark

*Transports*  
**Québec**



Islamic Republic of Iran  
**Iran Ministry of Roads  
& Transportation**



autoroutes  
**PARIS RHIN RHONE**  
*en toute confiance*

**Permanent International Association of Road Congresses**

# ST2 - Sustainable Mobility

Association  
mondiale  
de la Route



World Road  
Association

**Goal** – to encourage the development of road transport policies and programmes that result in beneficial community outcomes for sustainable and safe mobility

**Source:** adapted from  
Ginny Clarke  
ST2 Coordinator

How this work fits into the PIARC TC 2 mission

# What is **Access Management**?

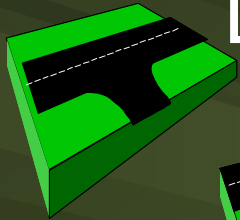


Managing the location, spacing  
and design of:

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

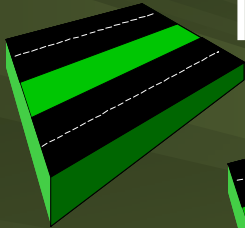
Driveways

*Entradas de vehículos*



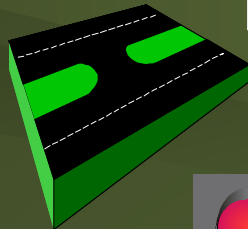
Medians

*camellones*



Median Openings

*Aberturas en los camellones*

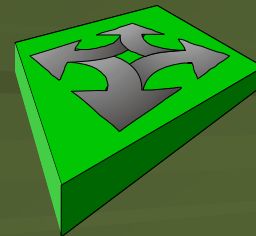


Traffic Signals *Semaforos*



Freeway  
Interchanges

*Entradas a  
Los Autovías*





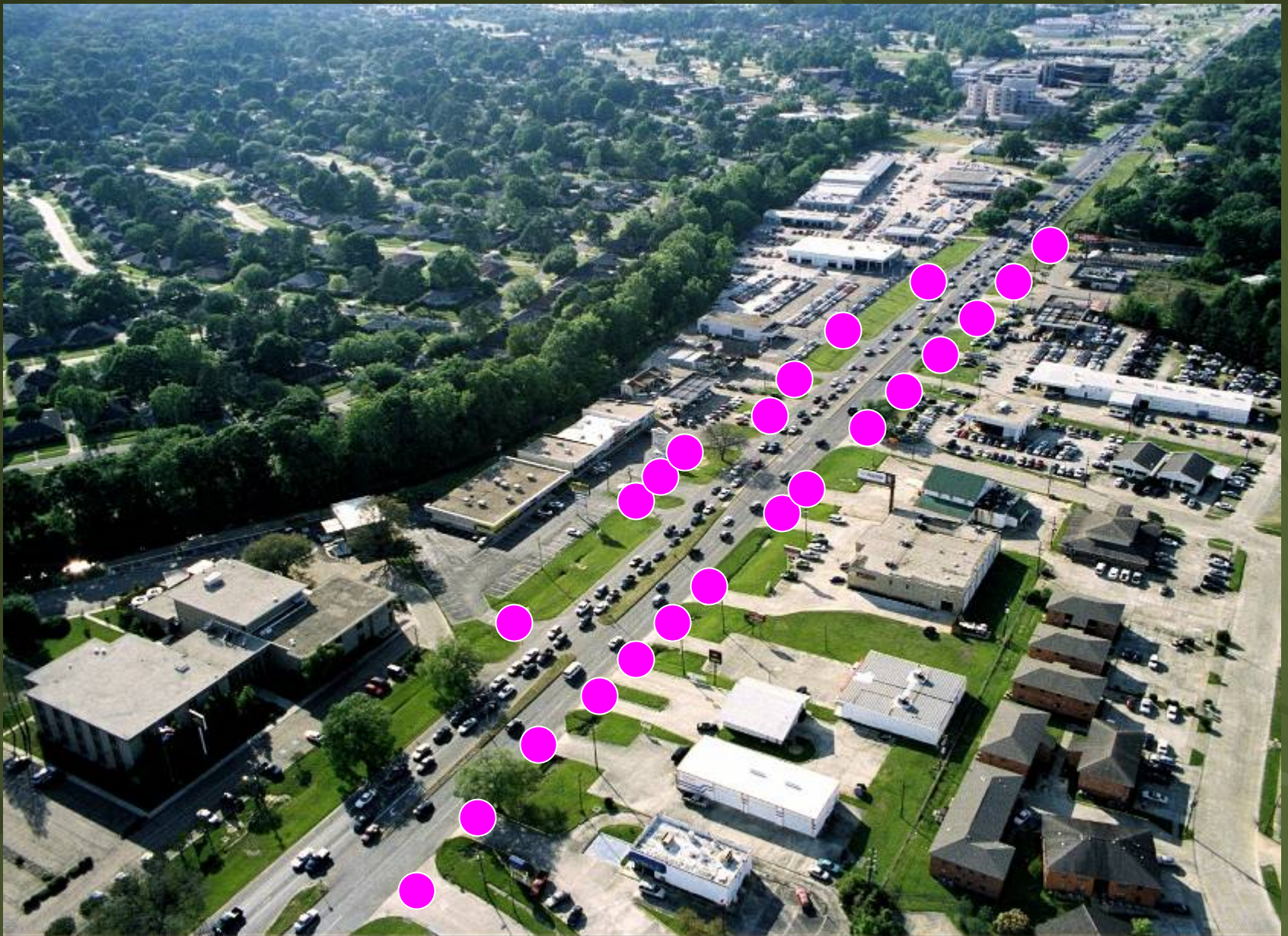


Photo: Phil Demosthenes

What is Access Management?

# Open Property Frontage

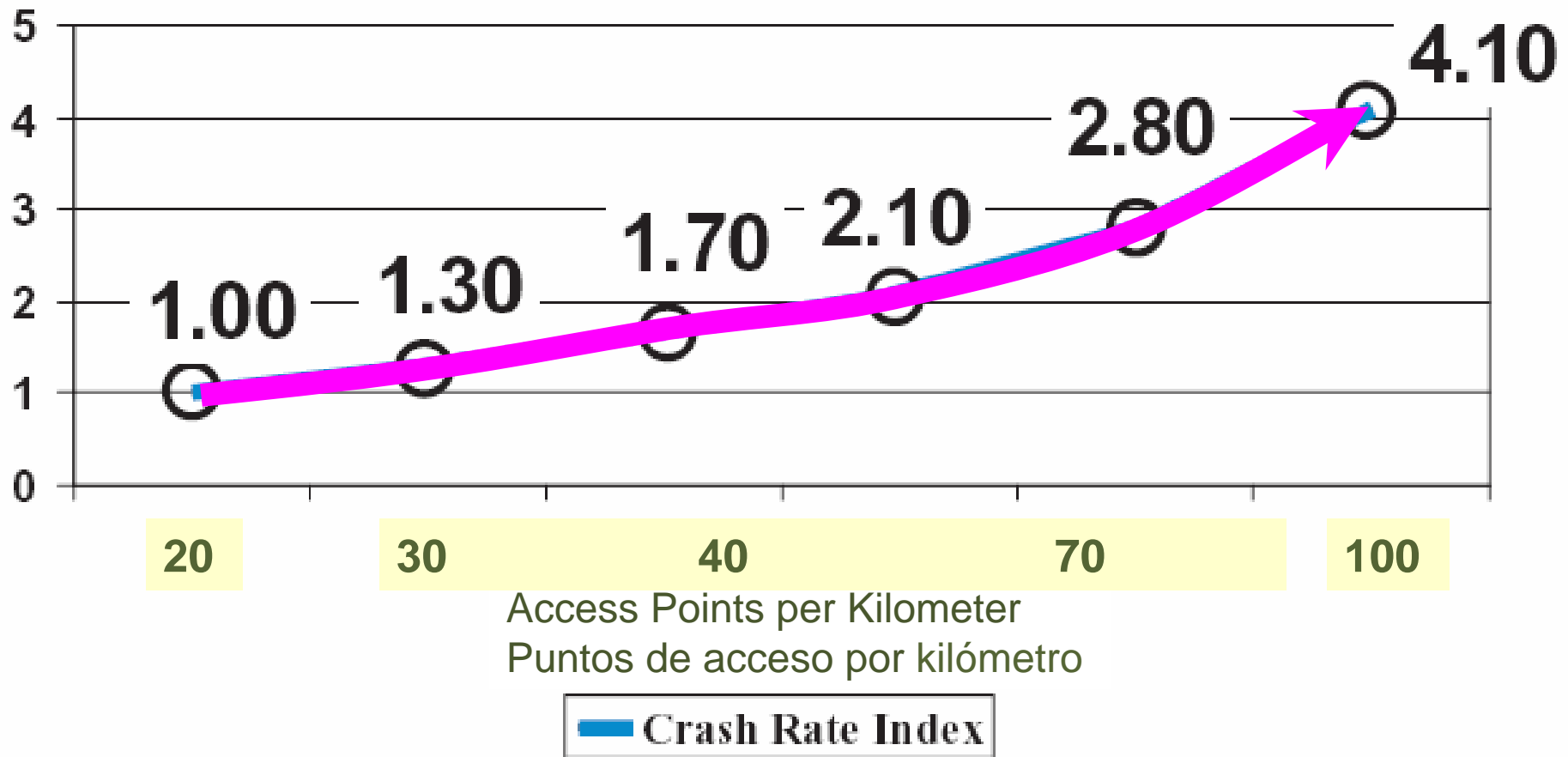


India — Source: Michigan State University - USA

What is Access Management?

# More Access Points = More Crashes

## Mas Puntos de Acceso = Mas Accidentes



Source: NCHRP 420, 2000

Source: Estimated from Various Sources

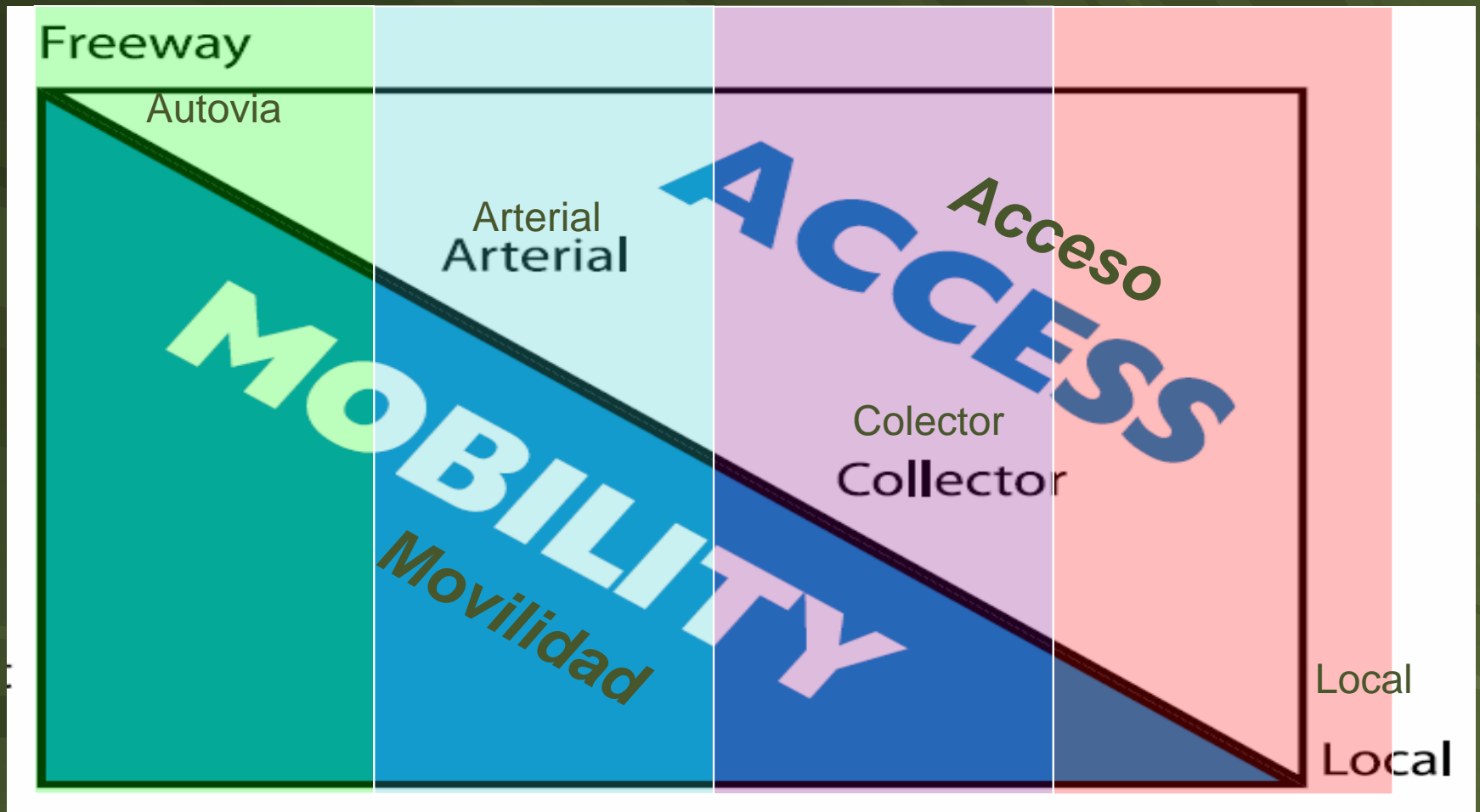
Figure 15. Composite accident rate indices.

**What is Access Management?**



# Different Roads Have Different Objectives

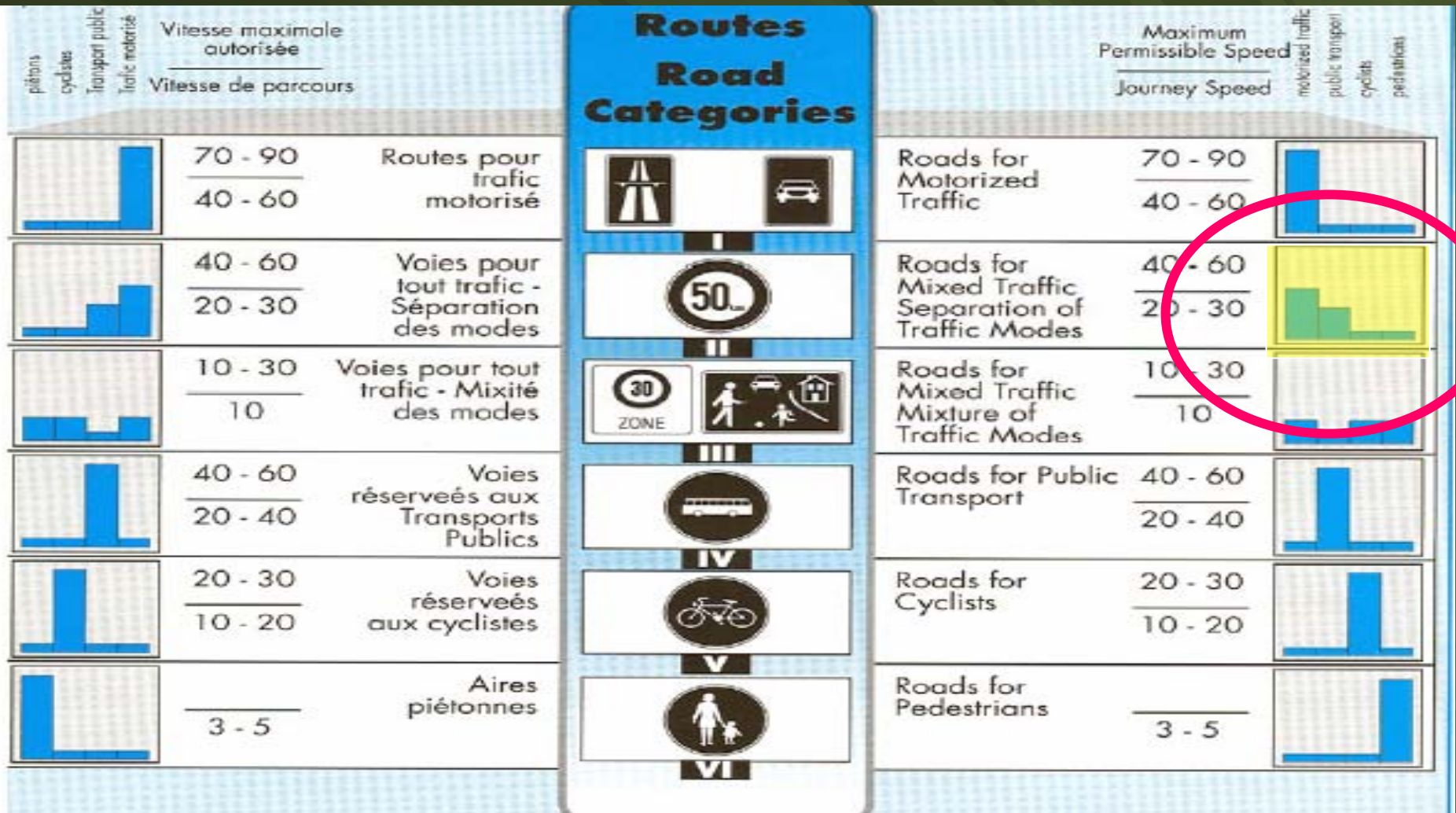
*Diferentes Caminos Tienen Diferentes Funciones*



What is Access Management?

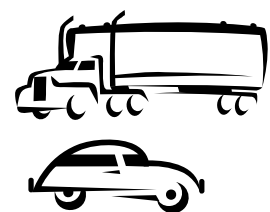


# Roadway Types *the European Model*



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

What is Access Management?



Motorized Traffic

Public Transport



## Roads for mixed traffic Separation of traffic modes

Cyclists



Pedestrians



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

What is Access Management?

# Roadway in Paris



What is Access Management?

# Balancing Modes

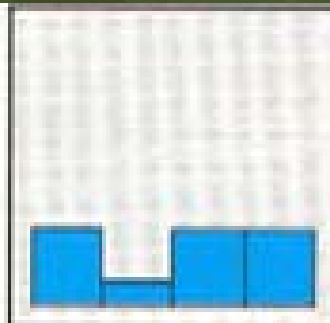


Roads for  
Mixed Traffic  
Mixture of  
Traffic Modes

10 - 30  

---

10



Holland

Source: Dan Burden



Ghana

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



# Access Management Practices and Challenges



# Pedestrian Safety

## Center Lane

### *Carril de Centro*



Practices and Challenges

# Pedestrian Safety



South Africa

Practices and Challenges

# Access Management Can Be Controversial

## Green Cove 'road wars' heating up

By Bill Broome  
Staff Writer

GREEN COVE SPRINGS - The  
"road wars" between the Green  
Cove City Council and a  
group of business people  
located along S.R. 44 are heating up.

## 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 Transpor-

without a median, to accommodate turning.  
Fowler said.

Charles R. Cleodenny 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-  
verness.

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



Kimberly Smith/Staff

## 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 threat-  
ening to tear their community  
apart.

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 cliché, 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  
you've got."

See MEDIAN, Next Page



Gloria Aboud, FLORIDA TODAY



The median on Memorial Drive, here dividing a westbound  
stretch of the road toward Stone Mountain, has been blamed for

forcing merchants to close or relocate their businesses since  
the concrete strip was installed as a safety measure in July.

## 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 Katie Long  
Staff writer

Nine months after workers poured a  
4.3-mile slab of concrete down the center  
of Memorial Drive, transportation offi-  
cials 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 Work-  
bench across the street from Memorial

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

Densens 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  
late July.

"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  
property along Memorial Drive.  
"For a destination-type place, like  
Hooters (restaurant), it's OK," said the  
agent, who asked not to be identified.



Kimberly Smith/Staff

Merchant Dave Cartwell says the Me-  
morial Drive median ruined his business.

Please see MEDIAN, B10





## Practices and Challenges

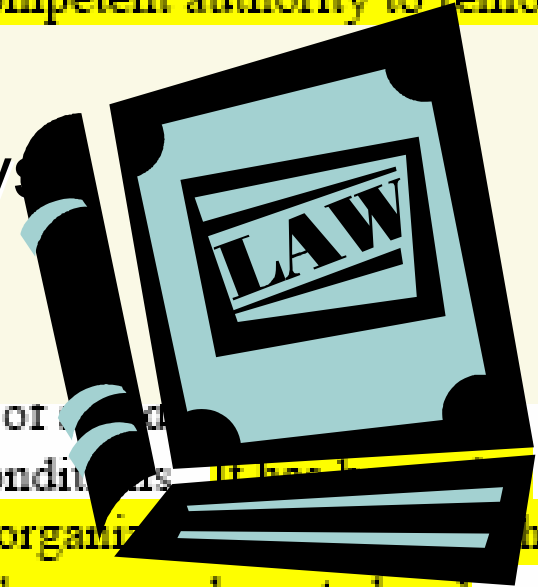


costly, and often, impossible. The result is that the main traffic on the National Highways is subjected to a lot of hardship and there is widespread criticism about the deteriorating level of service.

3. 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 accidents, high vehicle operating costs and unhealthy and unhygienic conditions. It has been observed that highways are frequently dug up by utility organisations, and the traffic on highways in danger. The highway authorities have no adequate legal authority to prevent such nuisances.

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:-



# Non Standard Vehicles



Practices and Challenges



# Best of Both Worlds





# Road Access Management in Iran

## *Issues and Regulations*

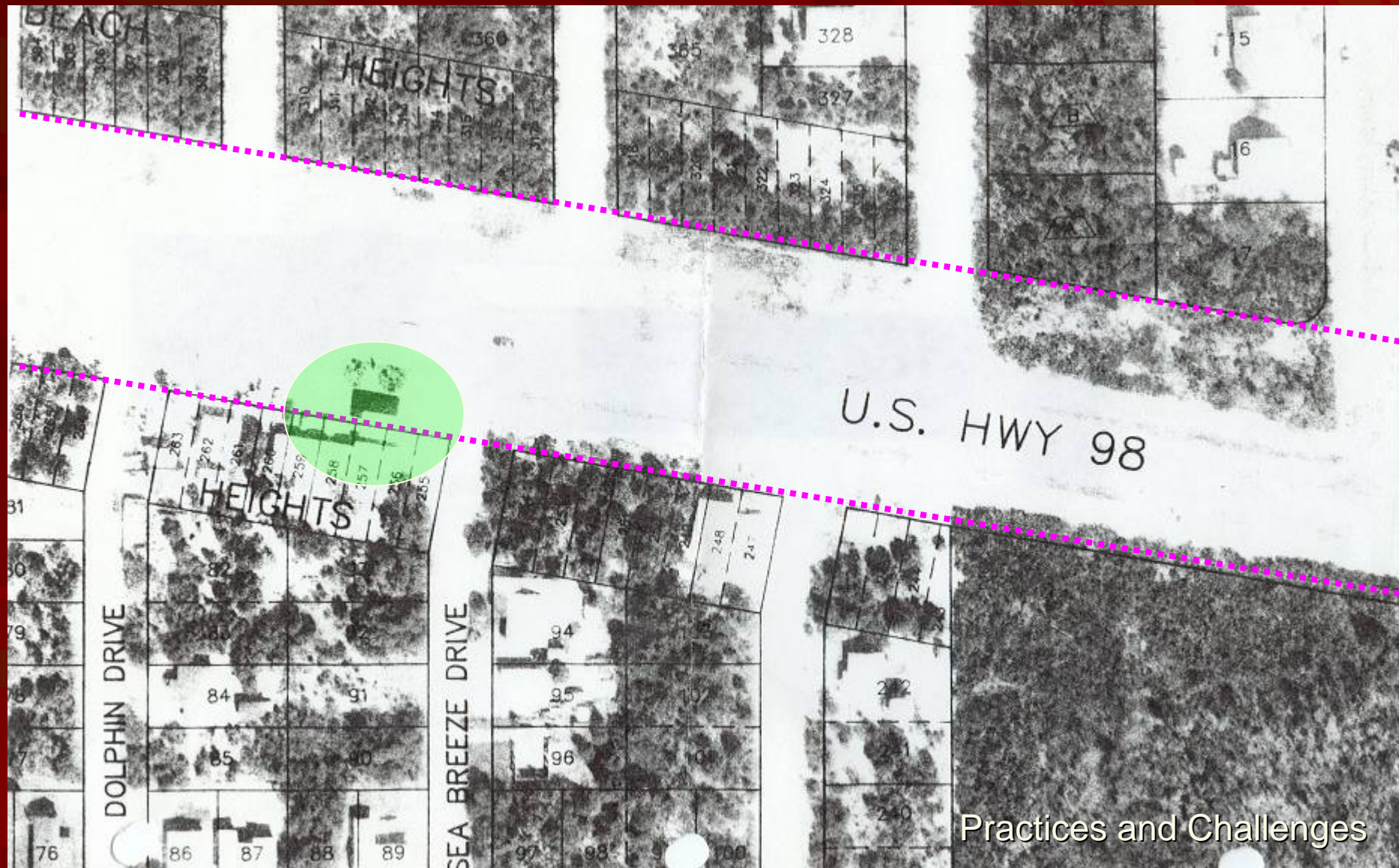
Dr. Saffarzadeh – Ministry of Transport – PIARC Member



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

Practices and Challenges

# The Problem of Encroachment Florida - USA



# Right of Way Encroachment





# South Africa

**Draft**

## **National Guidelines for Road Access Management in South Africa**

Revised edition  
February 2004

**COTO: Committee of Transportation Officials**



# Informal Settlement – South Africa

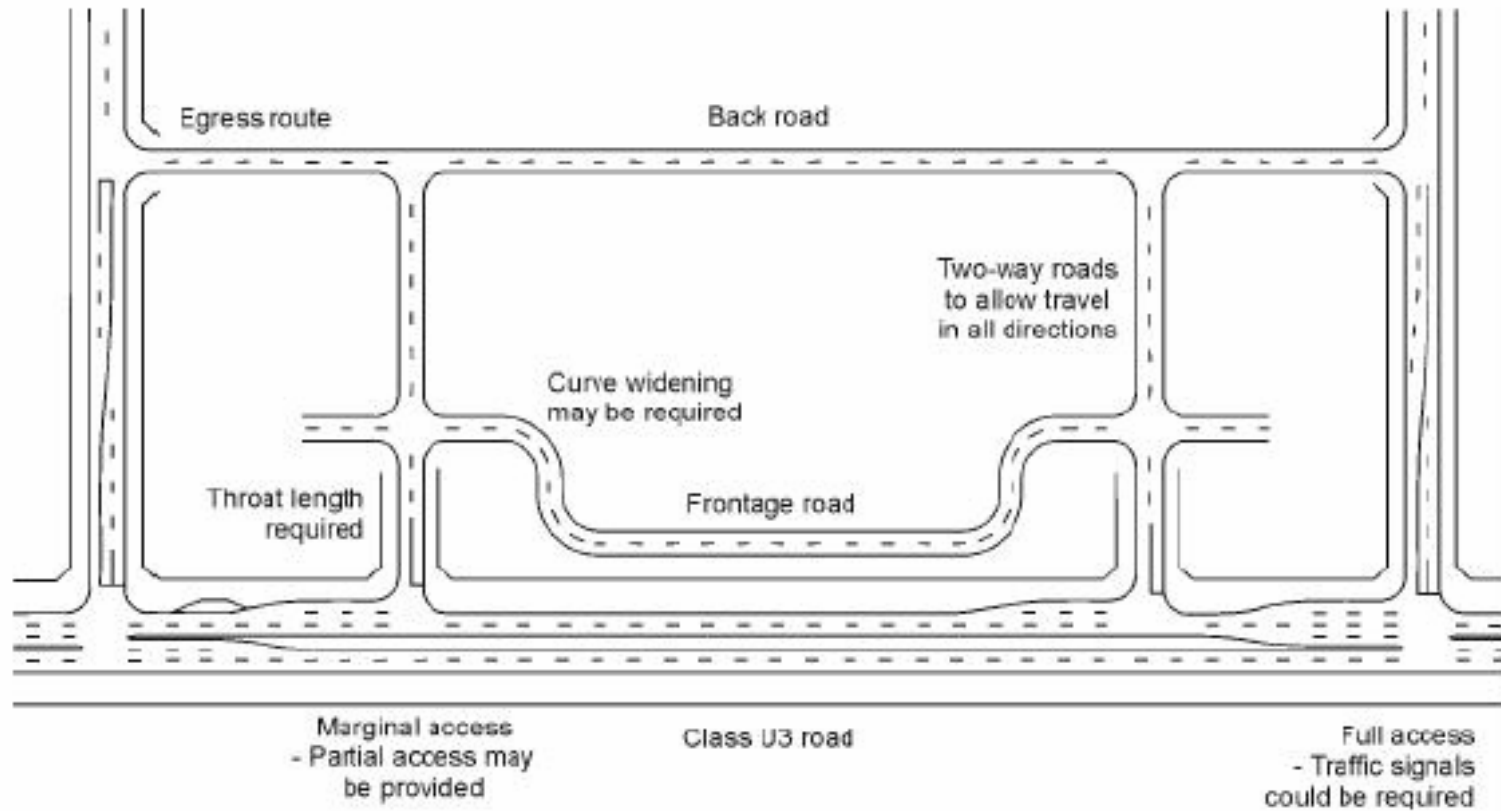


# Informal Trading Area South Africa



**Practices and Challenges**

# South Africa



**Figure 5.5 Frontage road on a Class U3 road**

# Boulevard - Beijing China





# China

## Analysis of Median Use on Beijing Urban Roadways

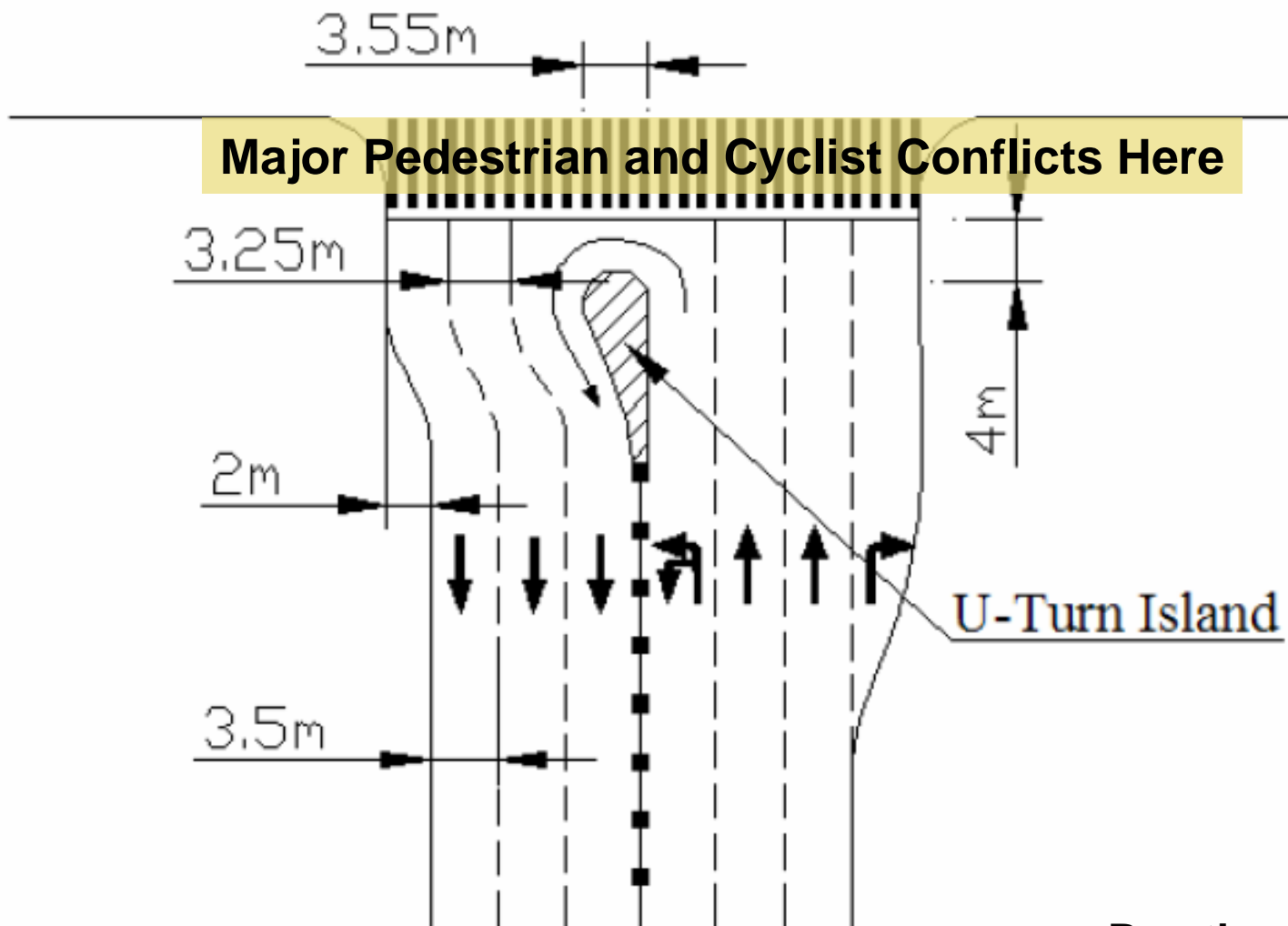
by

Shi Yu Juan<sup>1</sup>, Yang Xiao Kuan<sup>2</sup>, Kristine M. Williams<sup>3</sup>,

Transportation Research Center,

Beijing University of Technology, Beijing, China

# Accommodating U-Turns



Practices and Challenges

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

# Some Considerations for Developing Nations

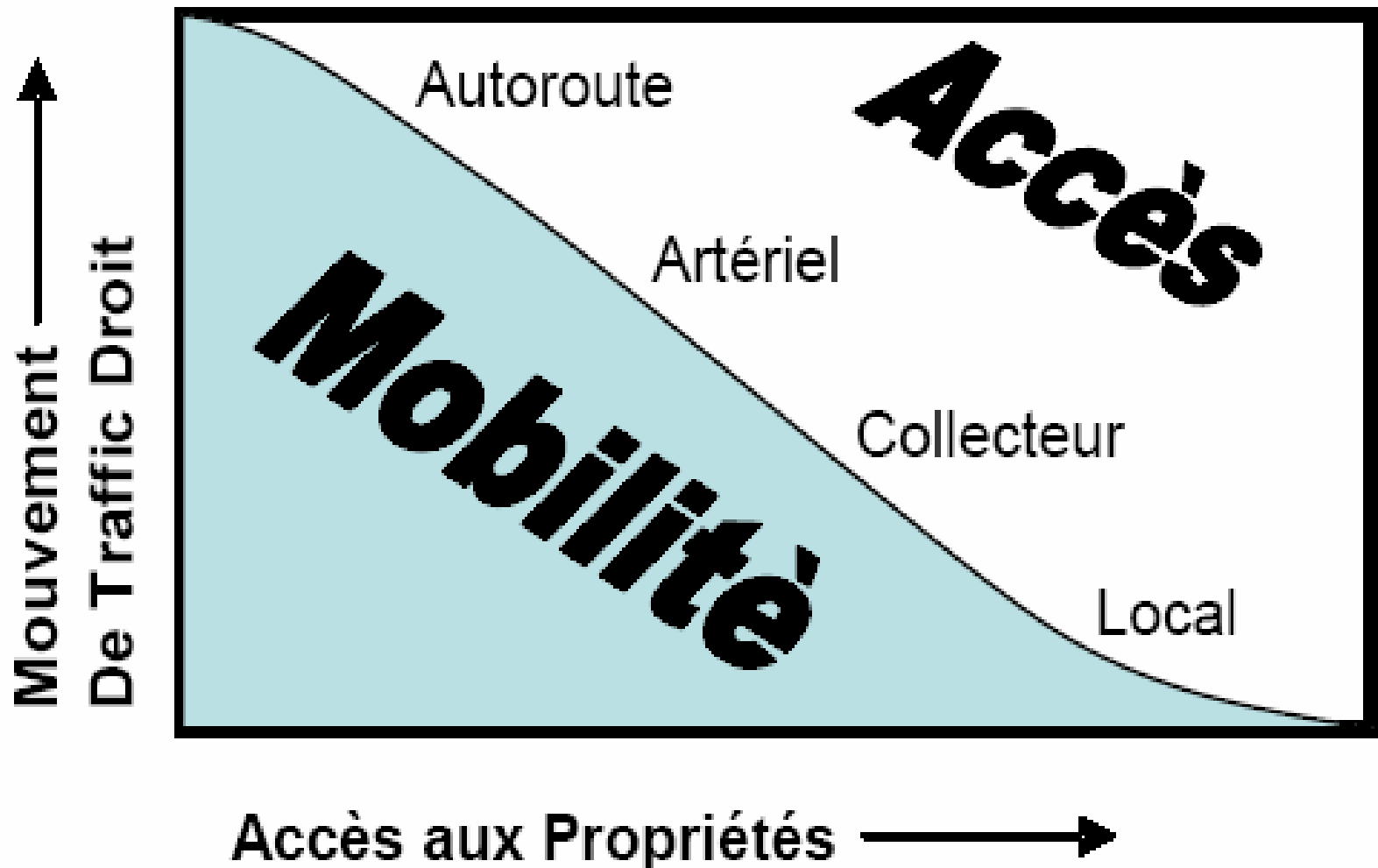
- Different problems than more developed nations
- Remoteness of many areas
- Must learn what works for their situation
- Materials need to be in the regional language of store owners and shop keepers

# Possible Future Activities

- More training seminars
- Publications in English, French, and Spanish
- On line network of experts



# Différentes Routes Ont Différents Rôles



# Further Information

## *Más Información*

■ Ysela Llort

ysela.llort@dot.state.fl.us

■ Gary Sokolow

gary.sokolow@dot.state.fl.us

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

