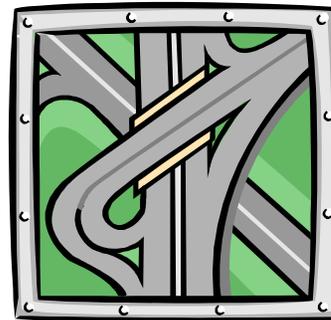


Themes for Texas Access Management

■ Improve Safety



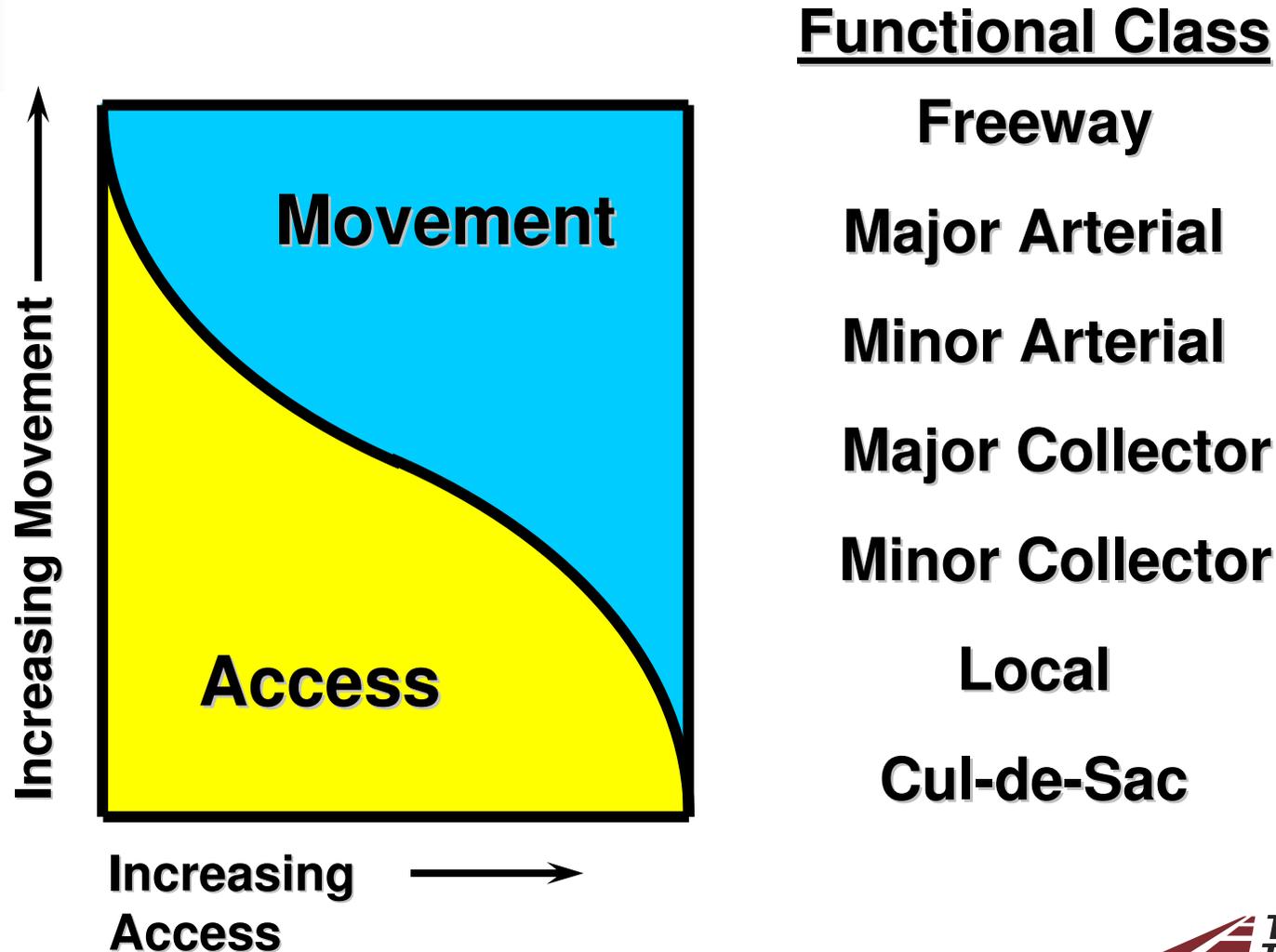
■ Increase Mobility



■ Protect Infrastructure Investment



Hierarchy of Roadways in a Functionally Designed System

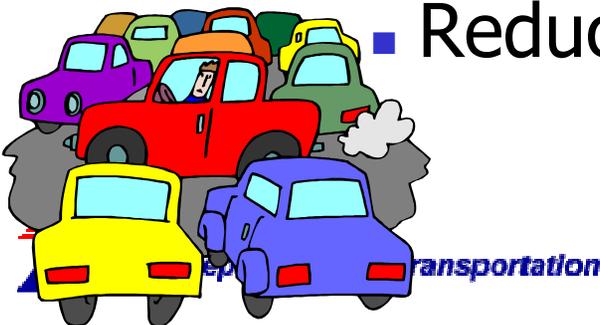


Hierarchy of Roadways in a Functionally Designed System



Access Management Guiding Principles for Texas

- “Safety and Mobility”
 - Mobility
 - Allow Through traffic to move more efficiently (less “stop and go” traffic)
 - Preserve roadway capacity (reduced delay)
 - Separate speed differentials
 - Less braking and hard acceleration
 - Reduce fuel consumption/emissions



Access Points and Free-flow Speed (NCHRP 420)

Access Points and Free-flow Speed	
Access points per mile	Reduction in free-flow speed, mph
0	0.0
10	2.5
20	5.0
30	7.5
40 or more	10

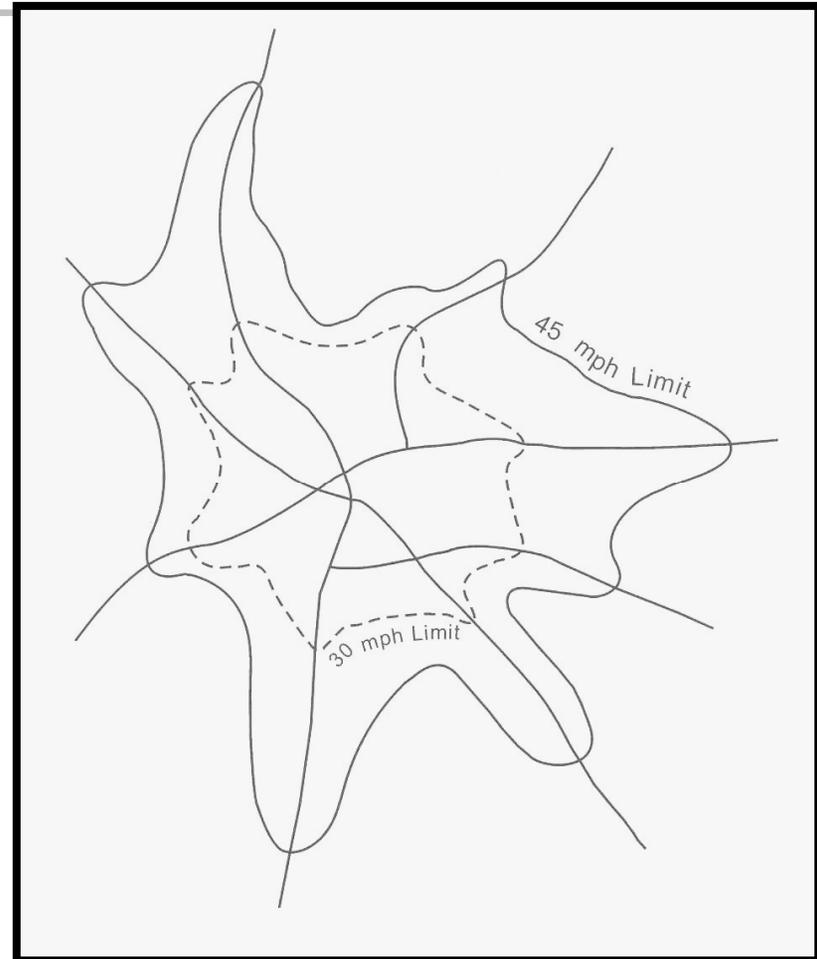
Travel Time and Signal Density (NCHRP 420)

Percentage Increase in Travel Times as Signal Density Increases

Signals per Mile	Percent Increase in Travel Times (compared with 2 signals per mile)
2.0	0
3.0	9
4.0	16
5.0	23
6.0	29
7.0	34
8.0	39

Mobility Provides Economic Impacts

- Market area is important to business success
 - Reduction of travel speeds means smaller market areas



Graphic from ITE, *Transportation and Land Development*