

# Hurricane Evacuation

## What Have We Learned?

Alan Clark and Jeff Kauffman  
Houston-Galveston Area Council



# Why Was Ike Better?

## 800k to 1 mill. Fewer People Evacuated

- Katrina vs. Gustav
- Personal experience with Rita
- Cat. 2 vs. Cat 4/5
- Cool Headed Leadership (“Hunker Down”)
- Zip Codes vs. “Surge Zones”
- Media Reaction



# Why Was Ike Better?

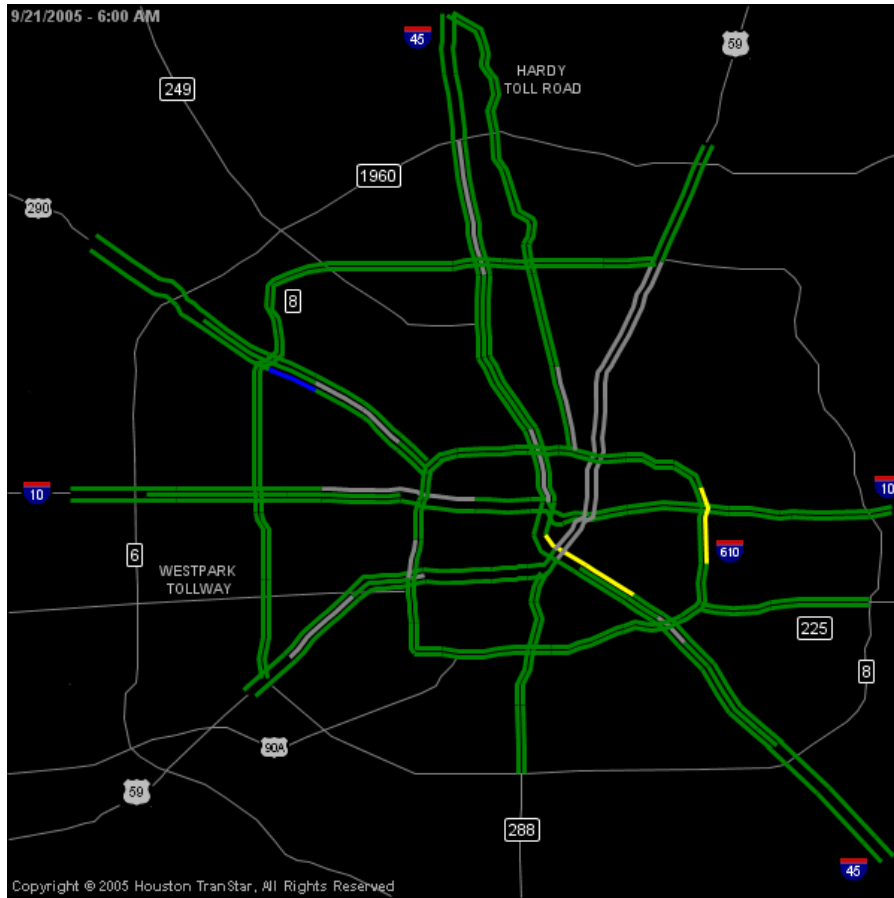
## Evacuation Plan

- Fuel Availability
- Coordination (inside and out)
- Actively engaged local law enforcement in plan development
- Unrestricted Routing Choice
- Fewer Breakdowns and Bottlenecks

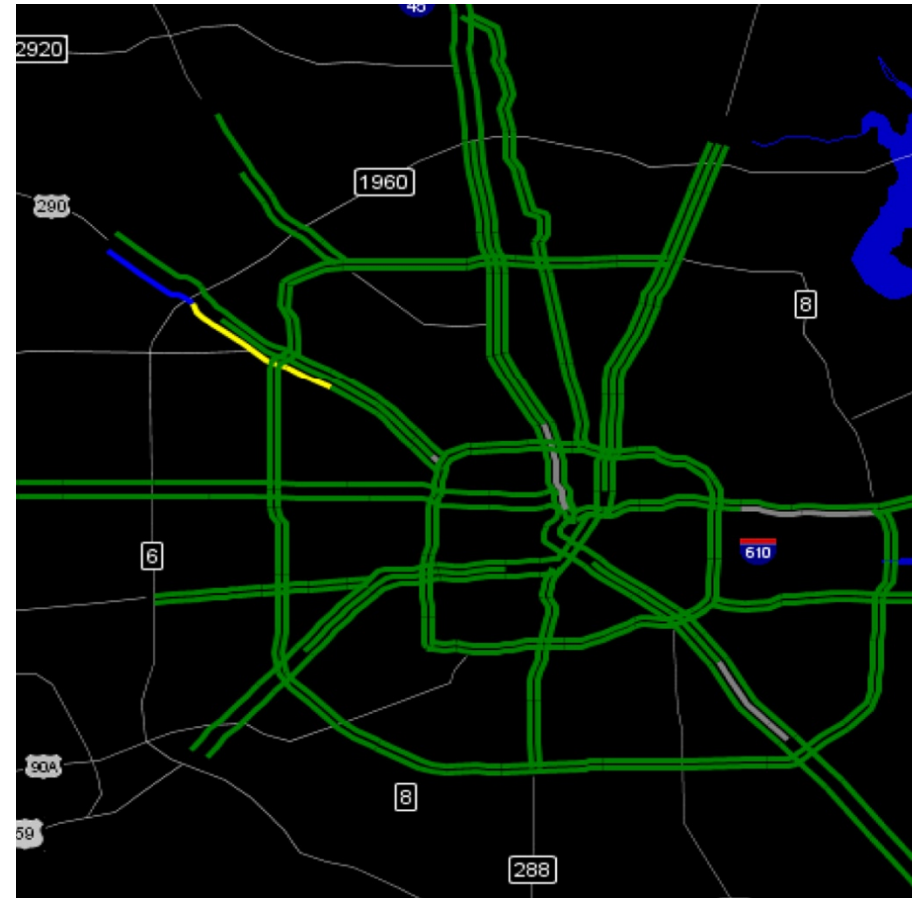


# WEDNESDAY – 6AM

## RITA (9/21/05)



## IKE (9/10/08)

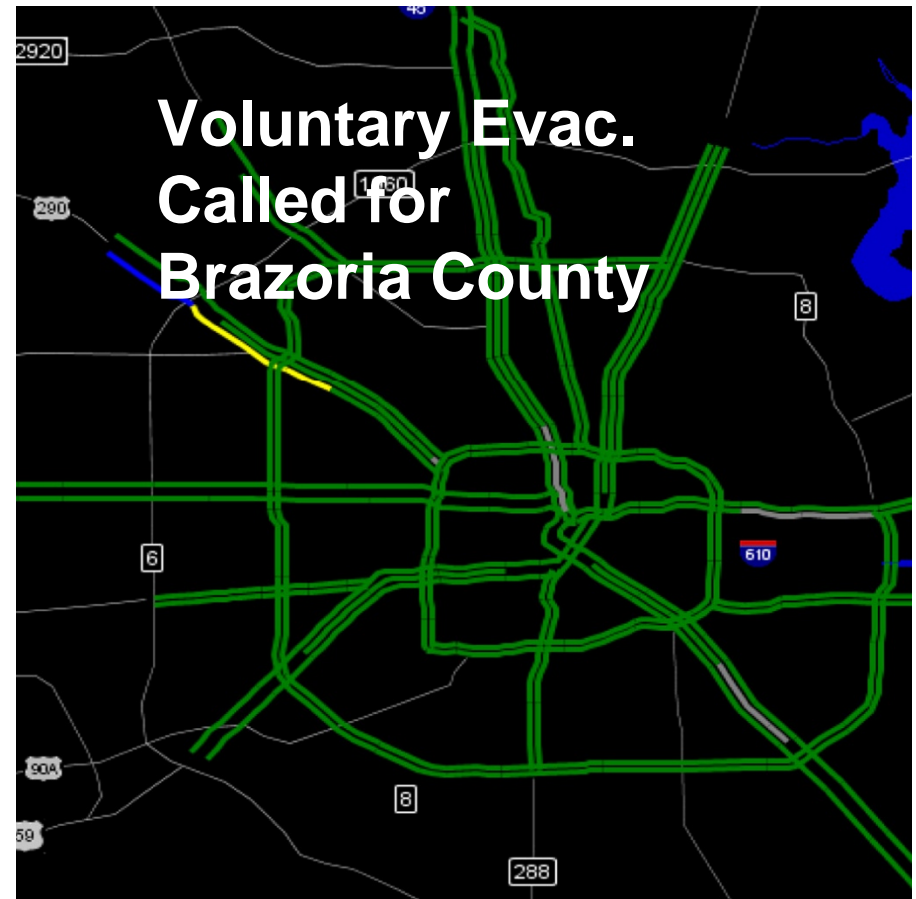


# WEDNESDAY – 6AM

RITA (9/21/05)



IKE (9/10/08)



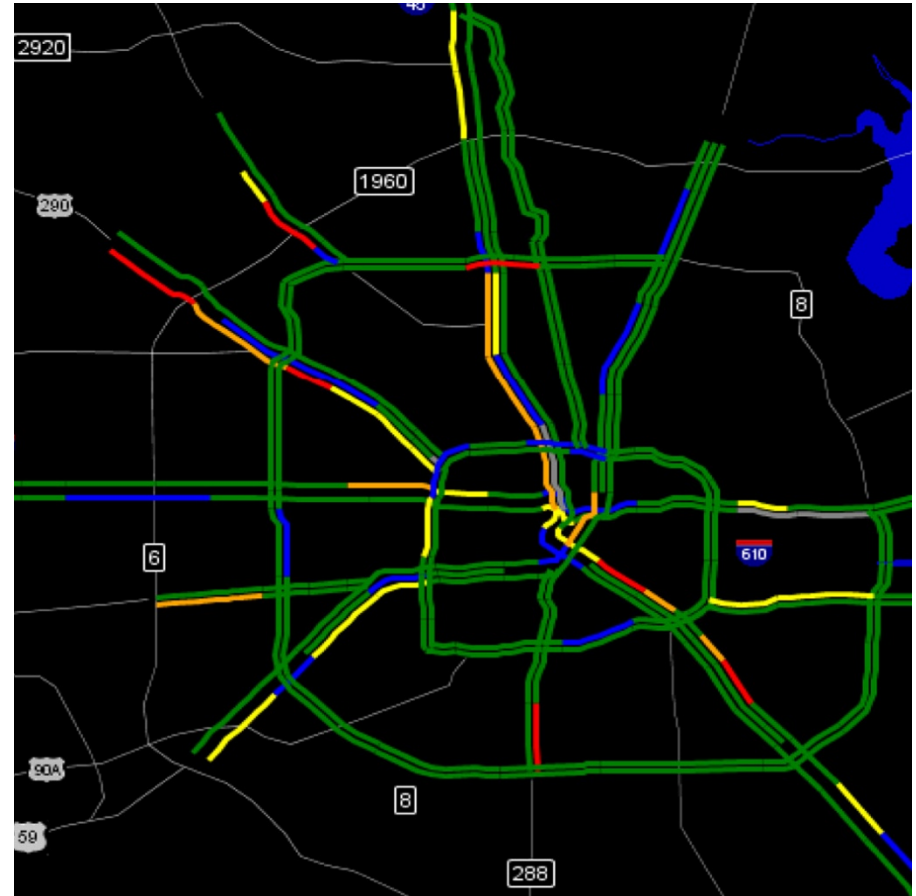


# WEDNESDAY – 7AM

## RITA (9/21/05)



## IKE (9/10/08)

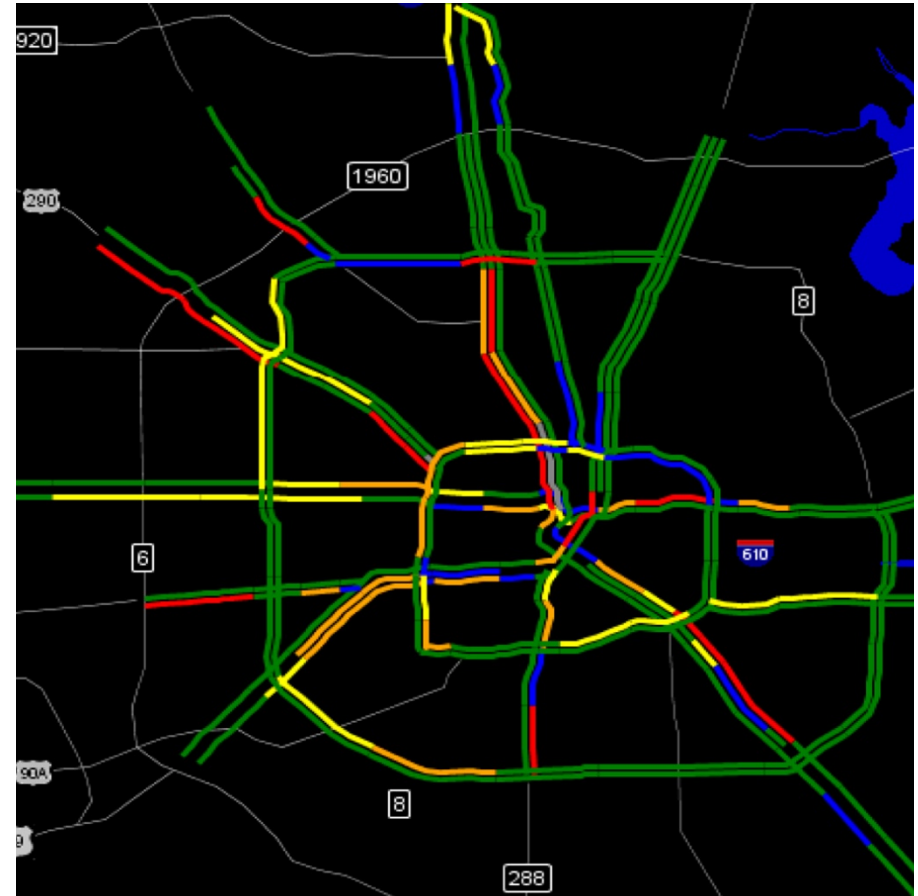


# WEDNESDAY – 8AM

RITA (9/21/05)



IKE (9/10/08)

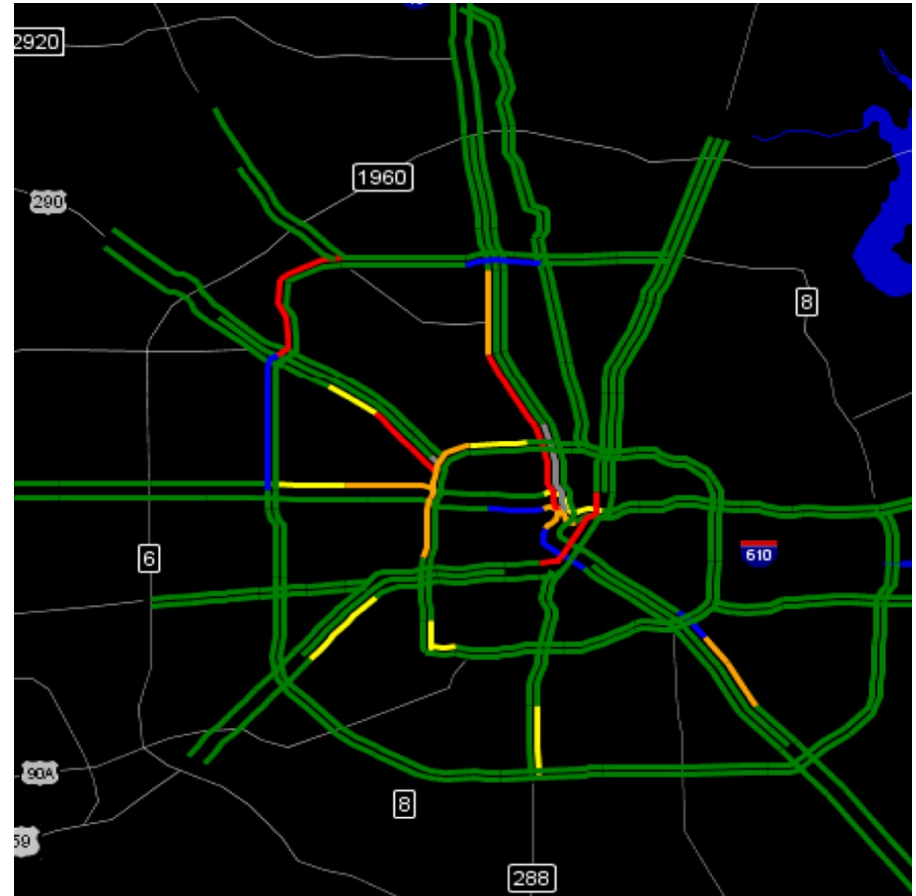


# WEDNESDAY – 9AM

## RITA



## IKE



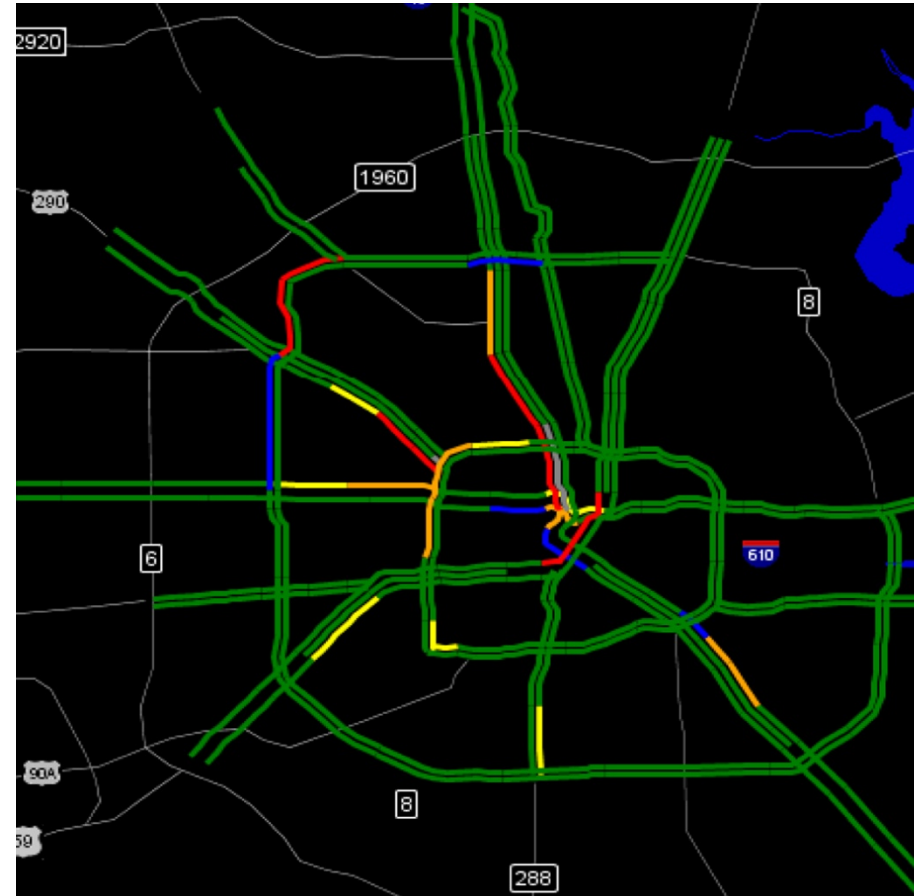


# WEDNESDAY – 9AM

## RITA



## IKE

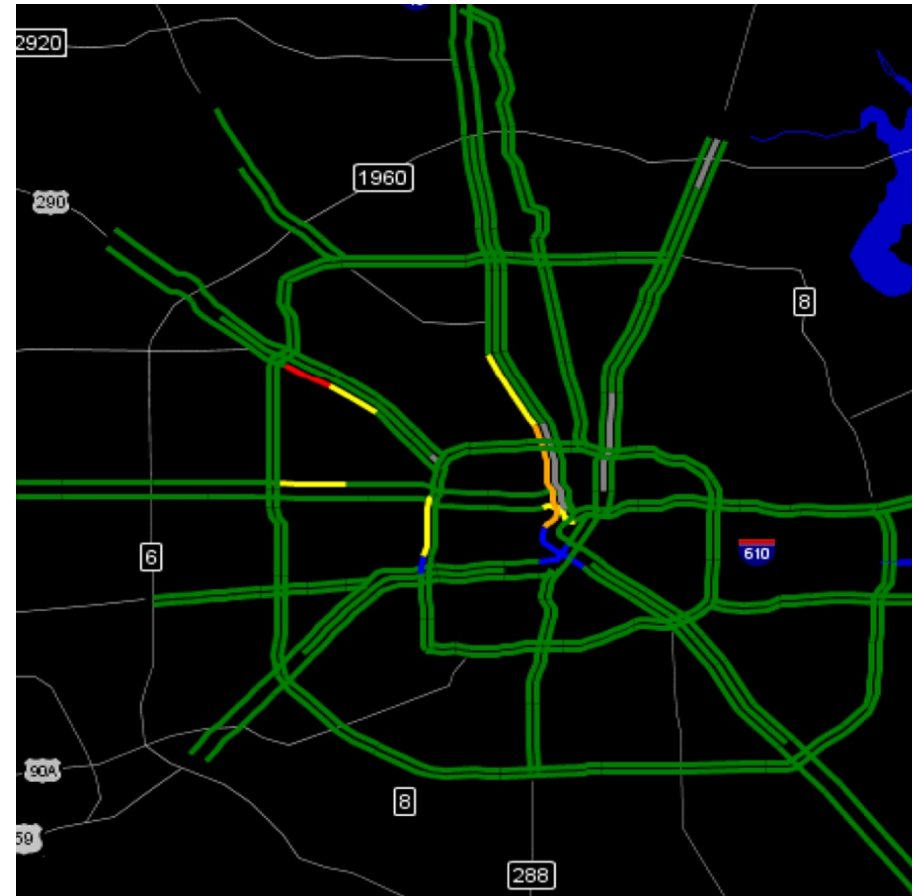


# WEDNESDAY – 10AM

## RITA



## IKE

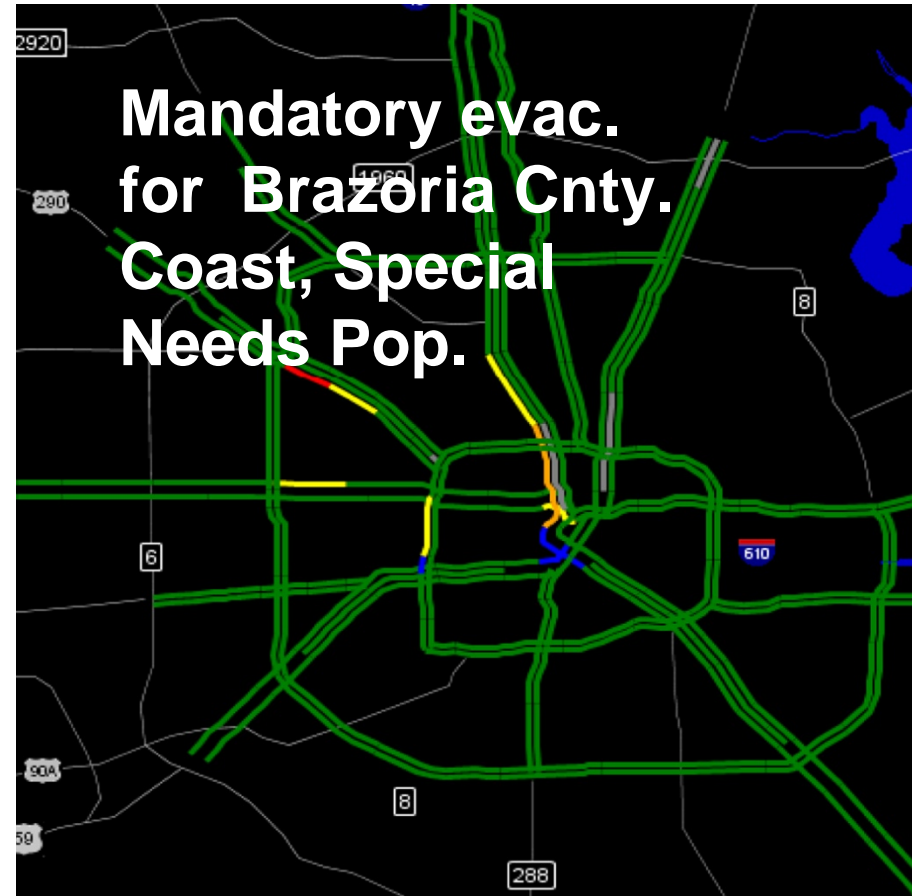


# WEDNESDAY – 10AM

## RITA

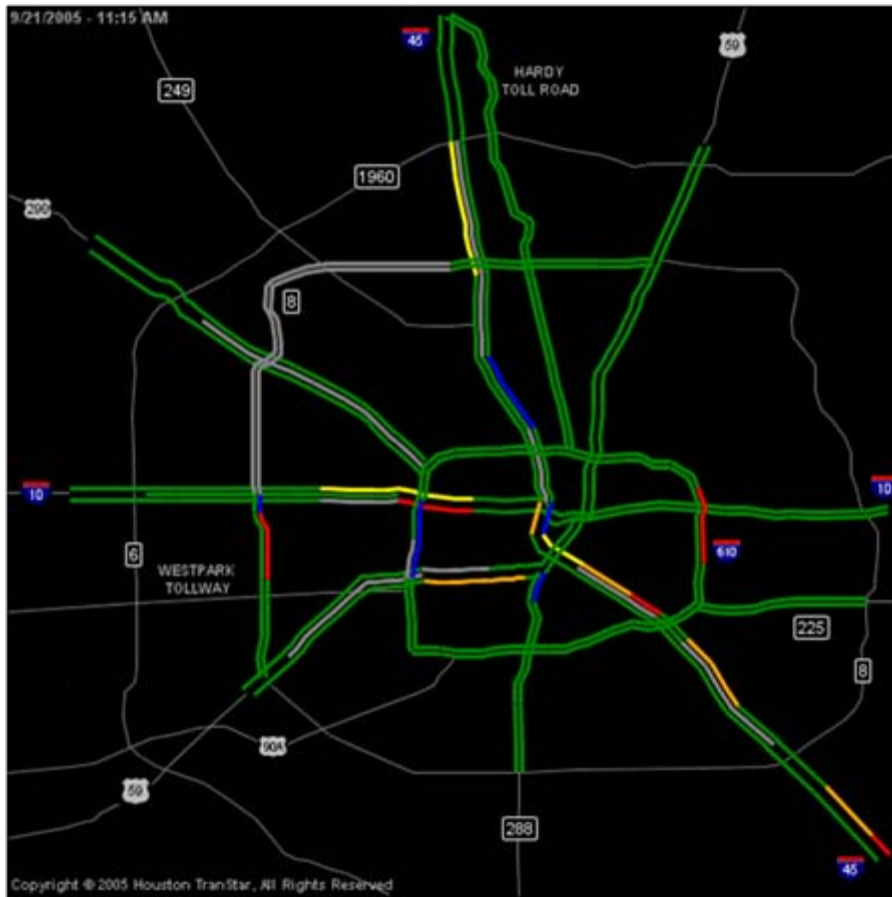


## IKE

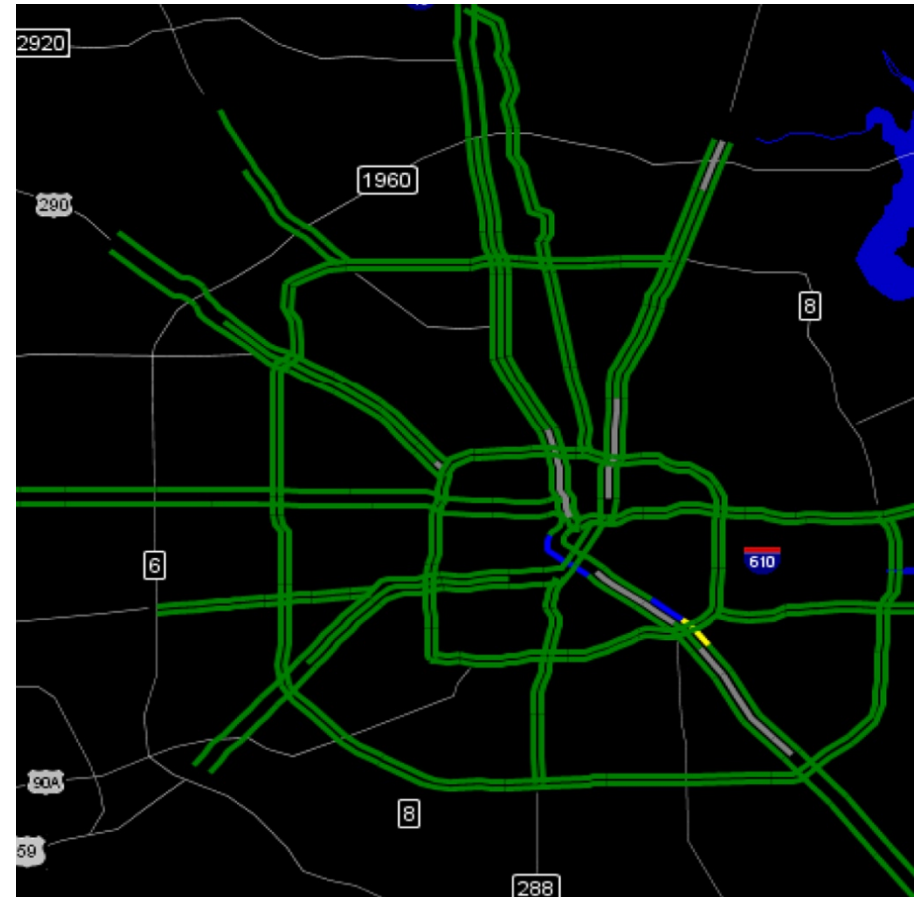


# WEDNESDAY – 11AM

## RITA

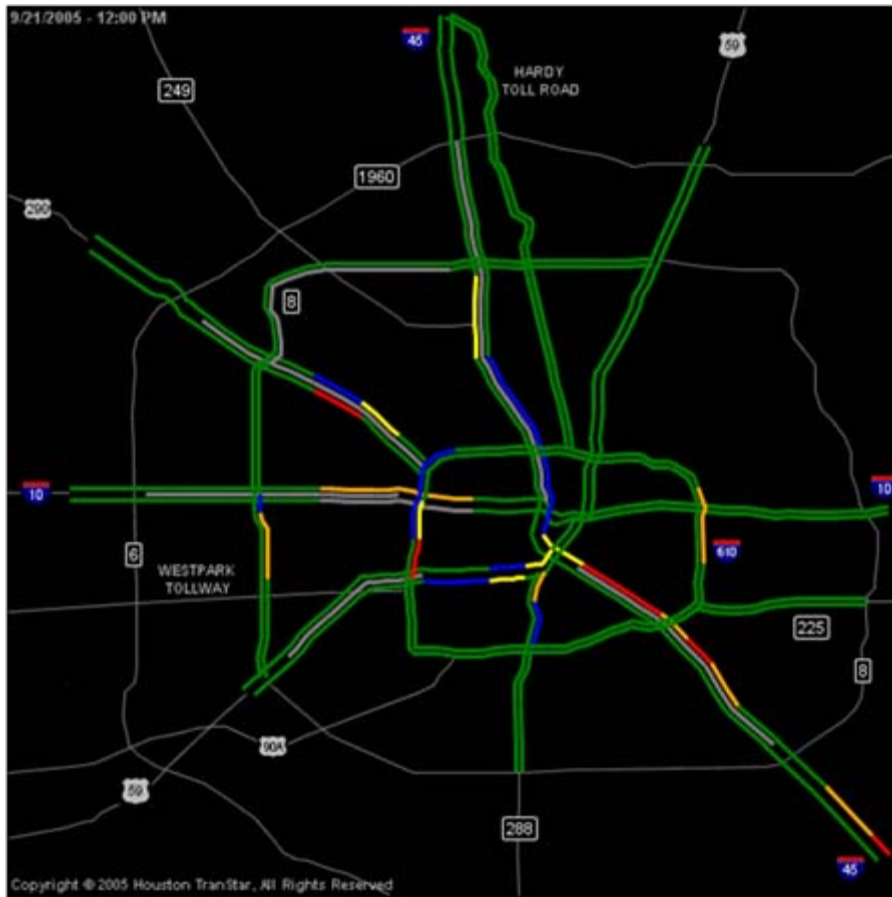


## IKE

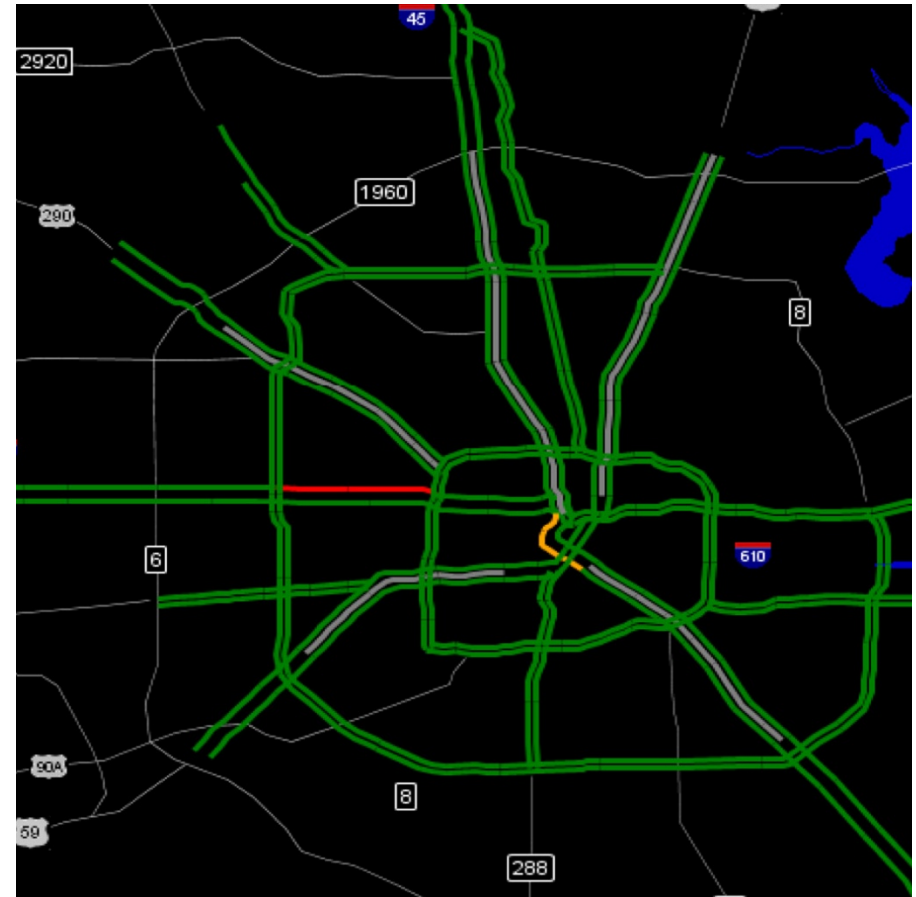


# WEDNESDAY – 12PM

## RITA



## IKE



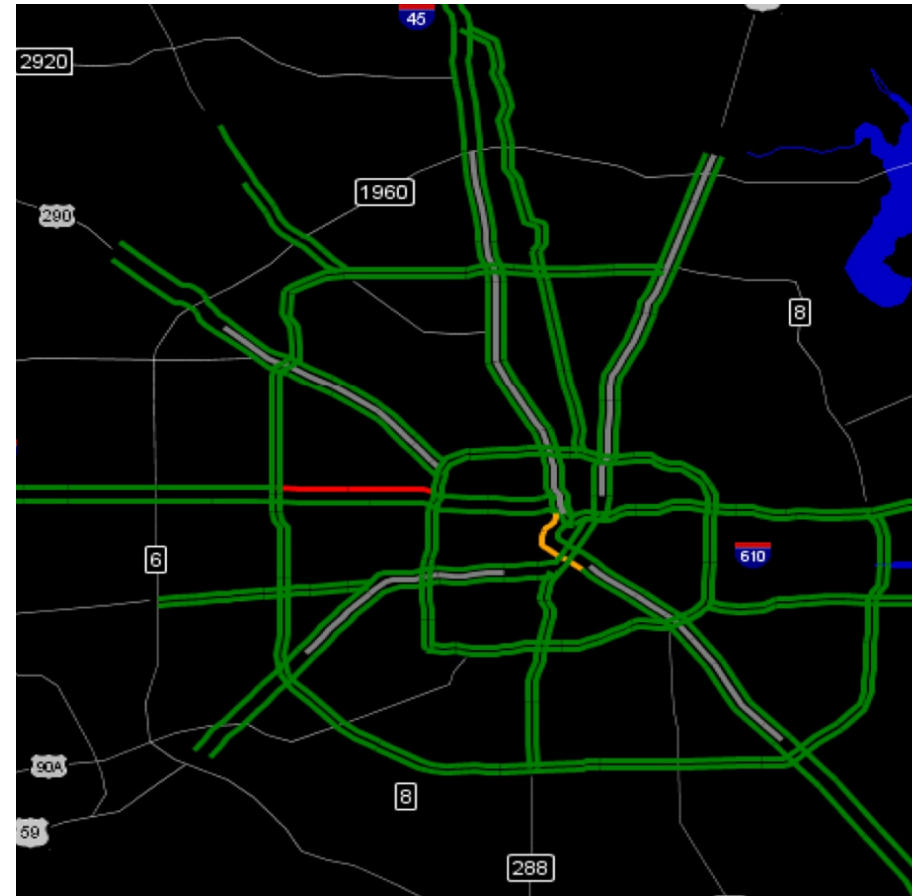


# WEDNESDAY – 12PM

## RITA

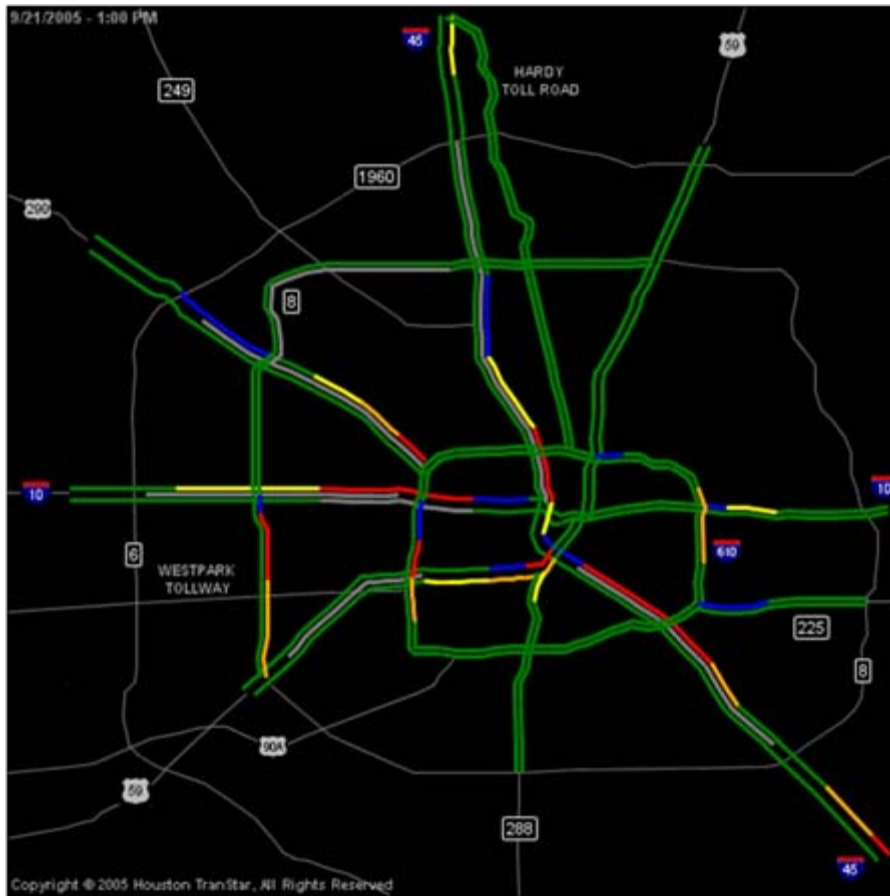


## IKE

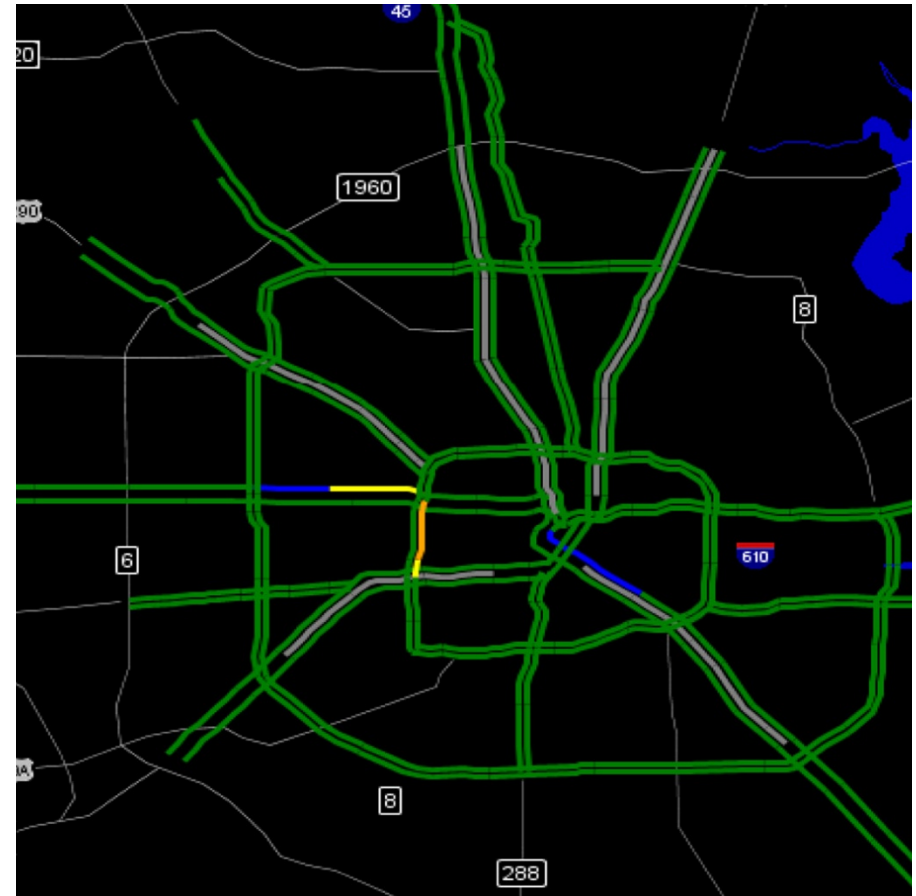


# WEDNESDAY – 1PM

## RITA



## IKE

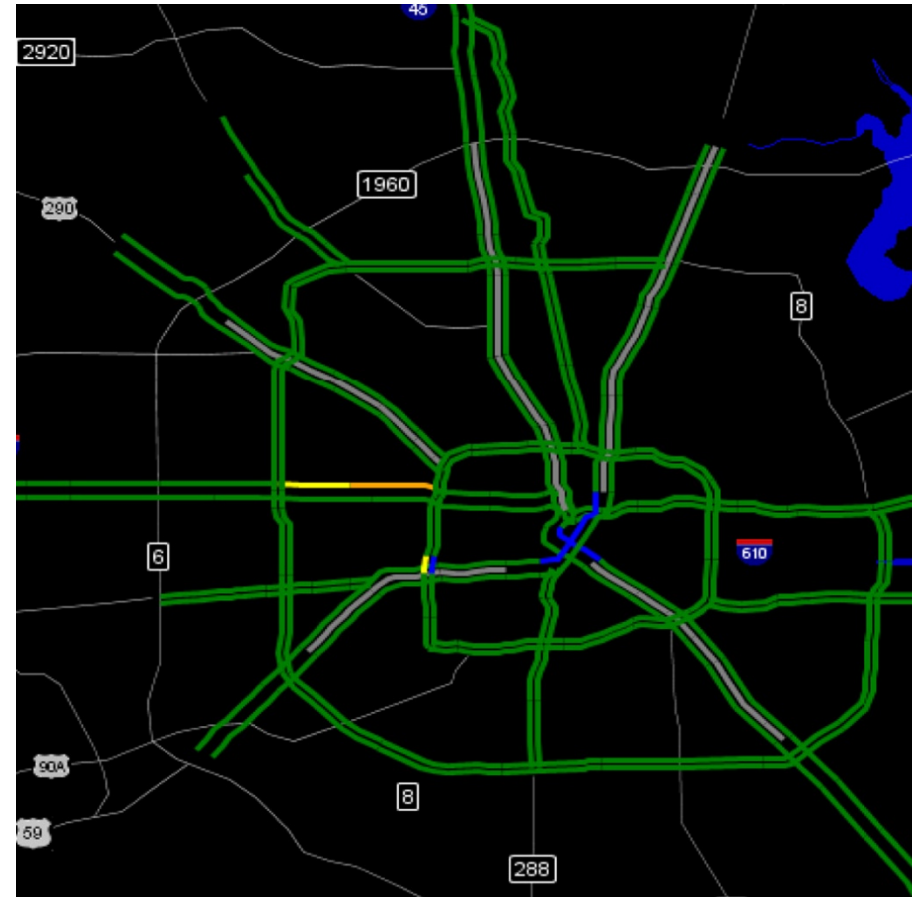


# WEDNESDAY – 2PM

## RITA

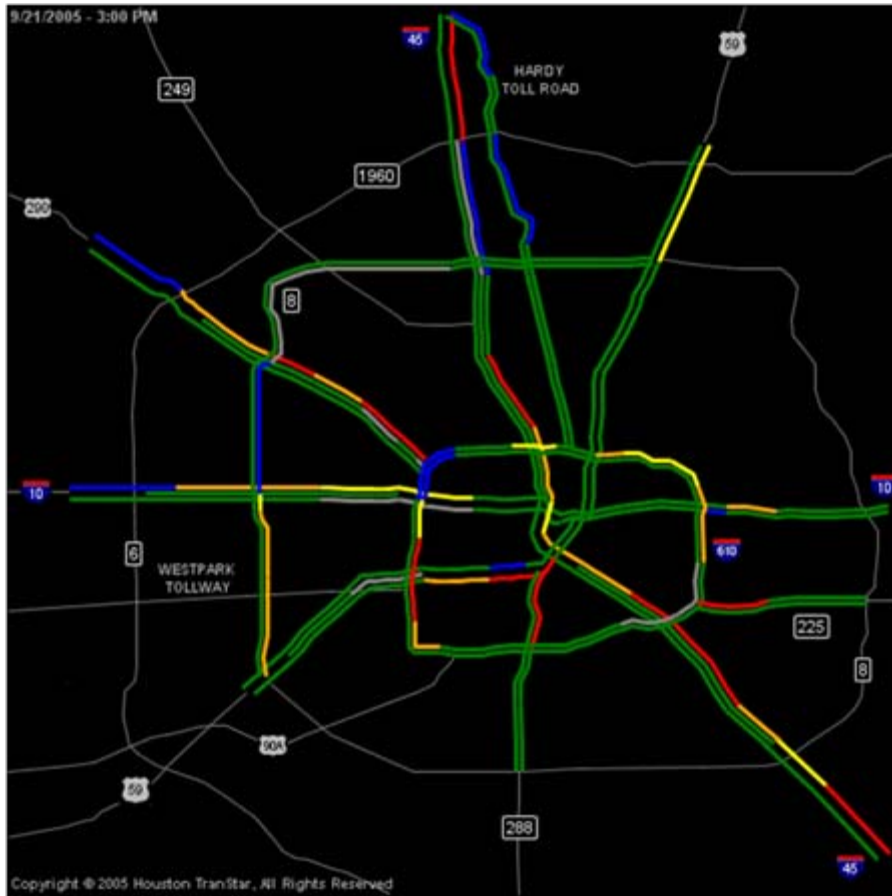


## IKE

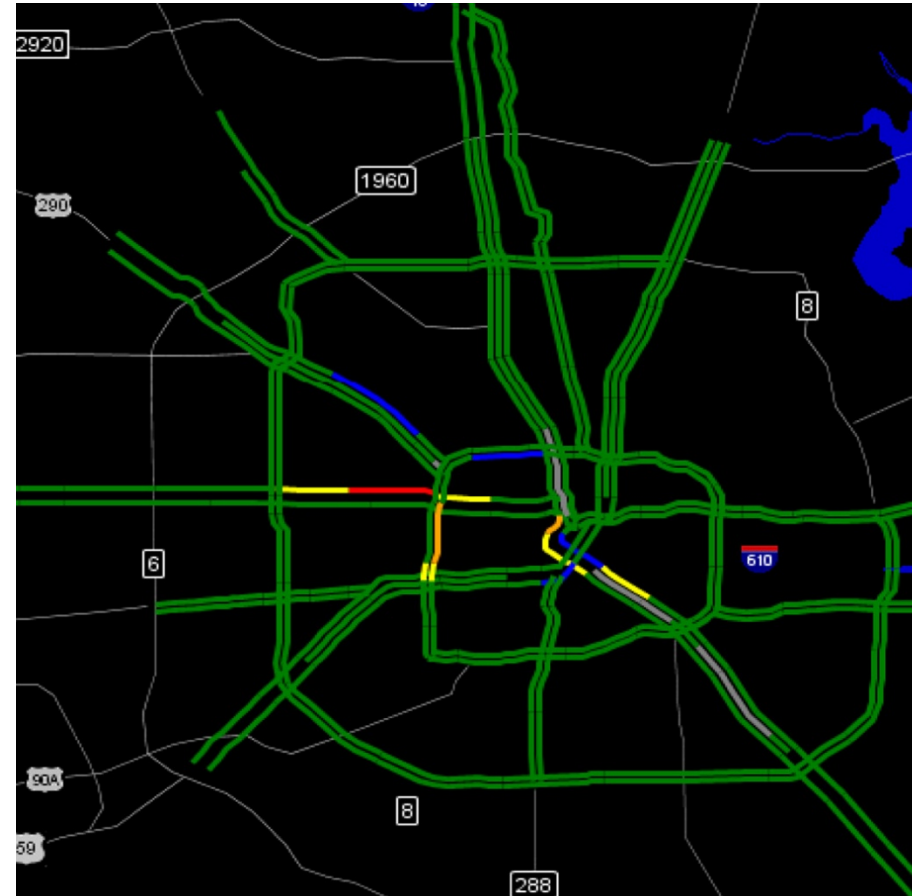


# WEDNESDAY – 3PM

## RITA



## IKE

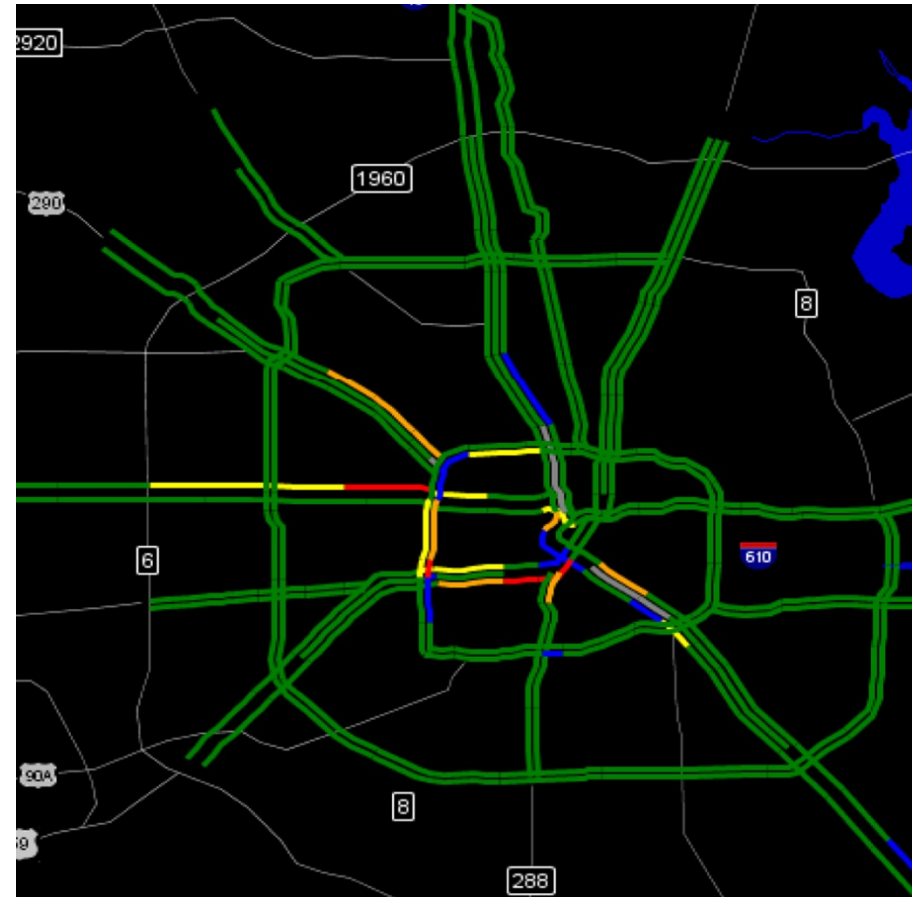


# WEDNESDAY – 4PM

## RITA



## IKE



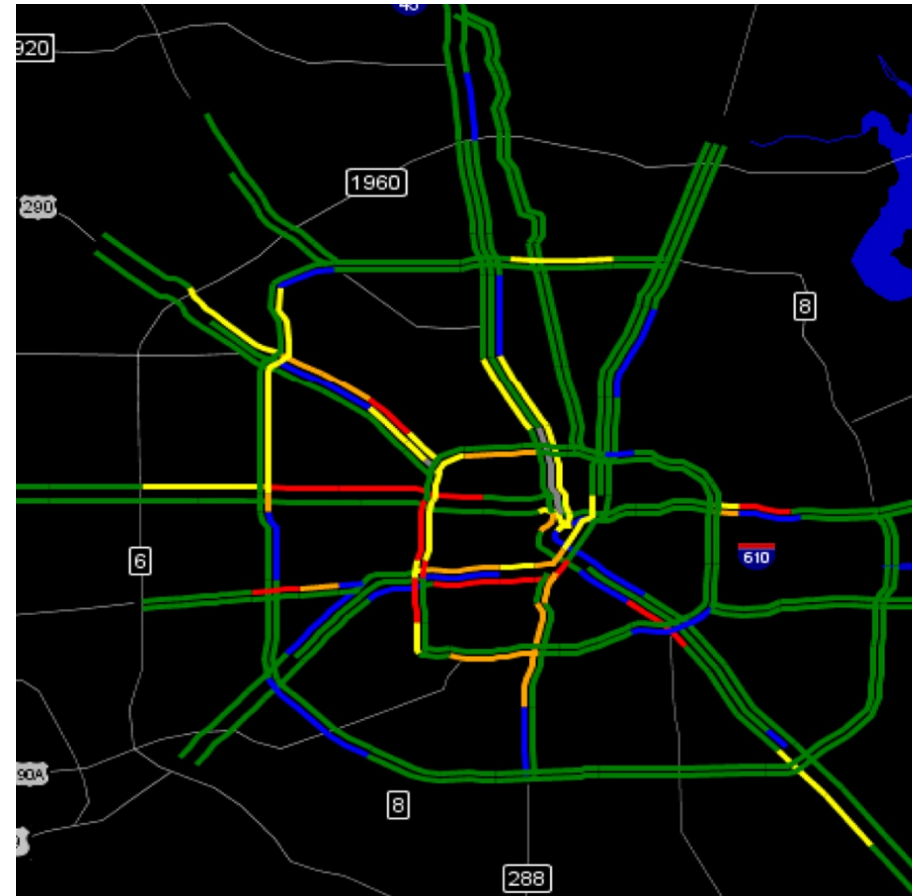


# WEDNESDAY – 5PM

## RITA

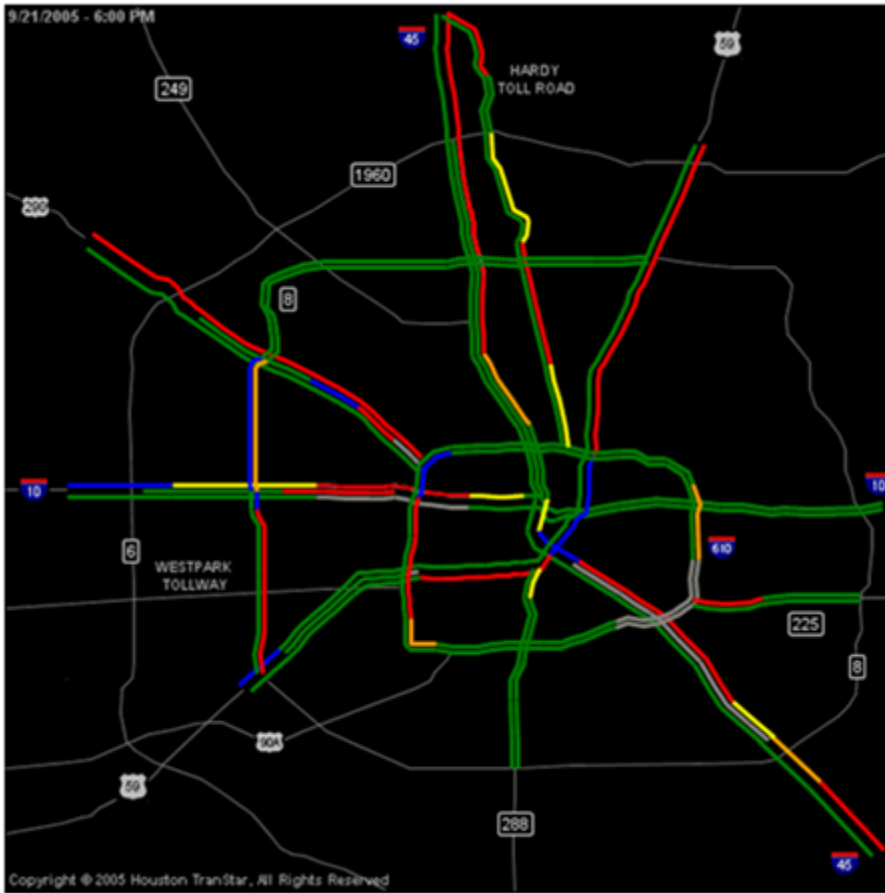


## IKE

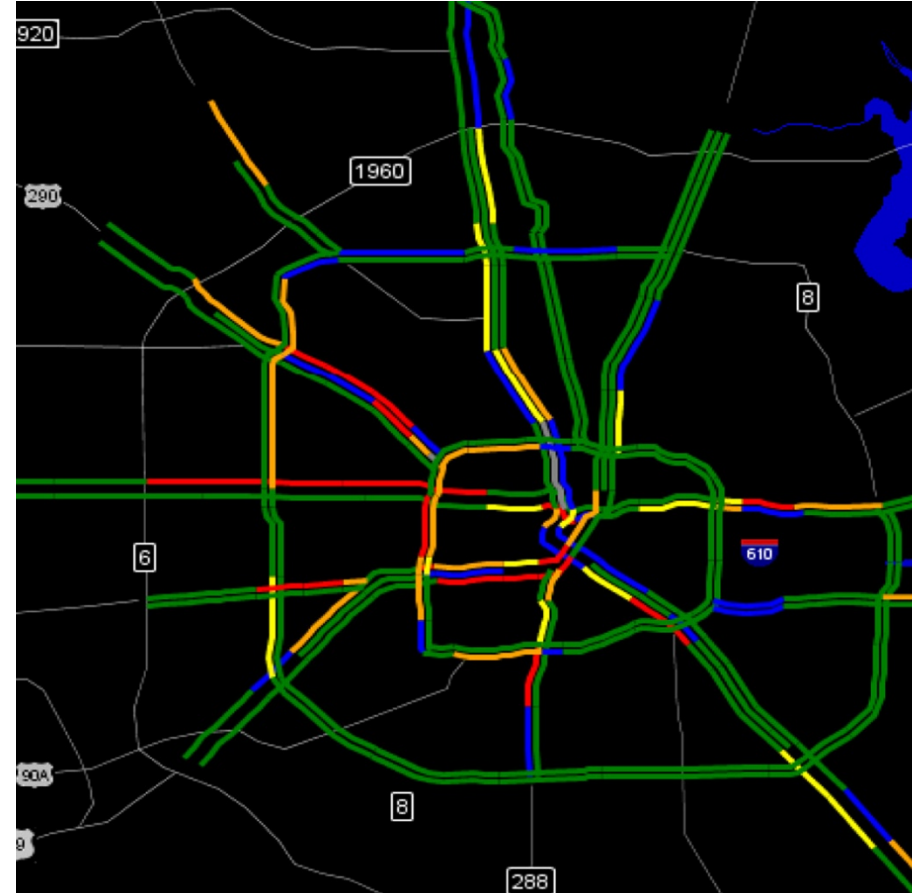


# WEDNESDAY – 6PM

## RITA



## IKE

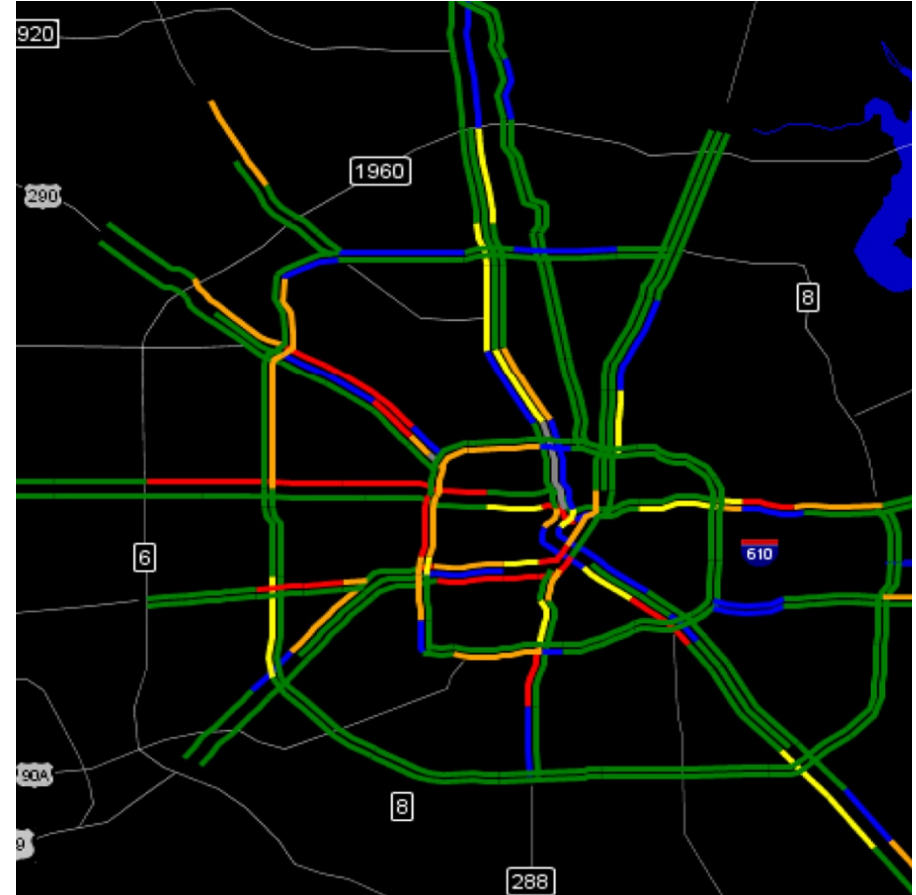


# WEDNESDAY – 6PM

## RITA

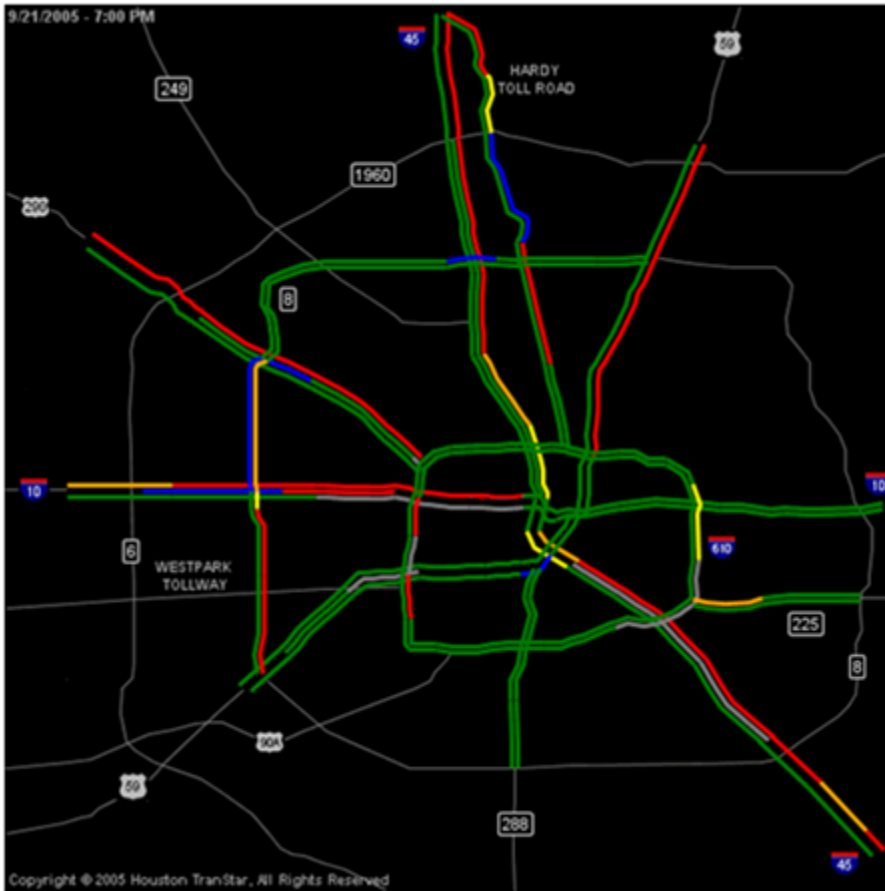


## IKE

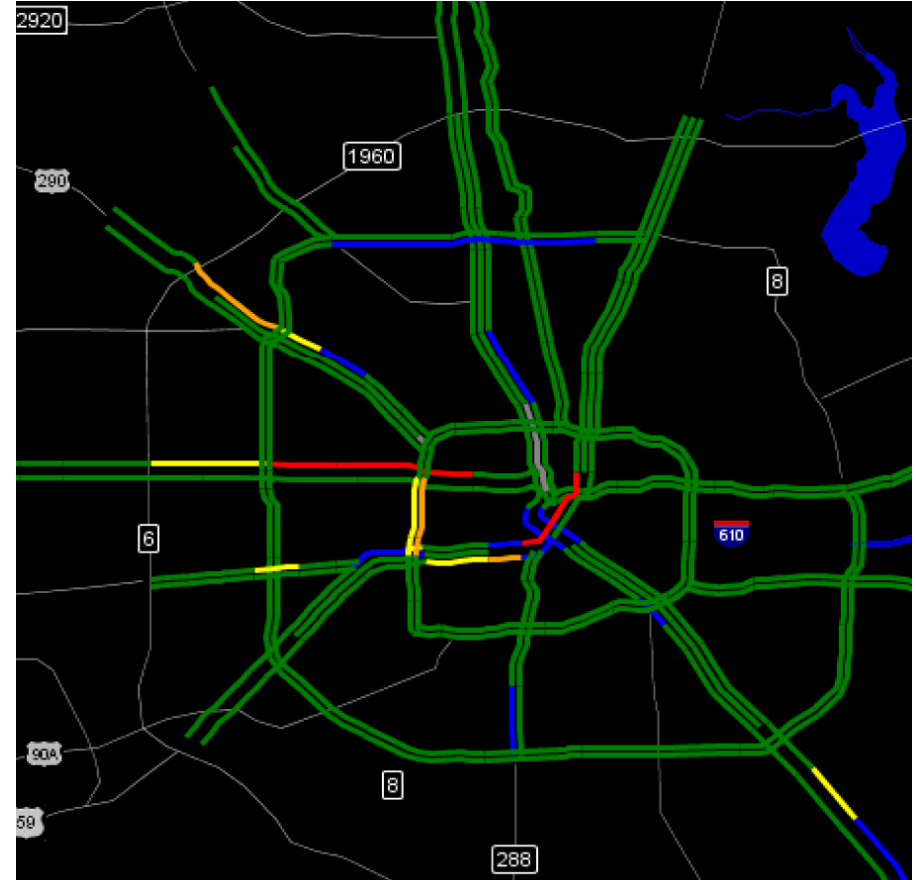


# WEDNESDAY – 7PM

## RITA

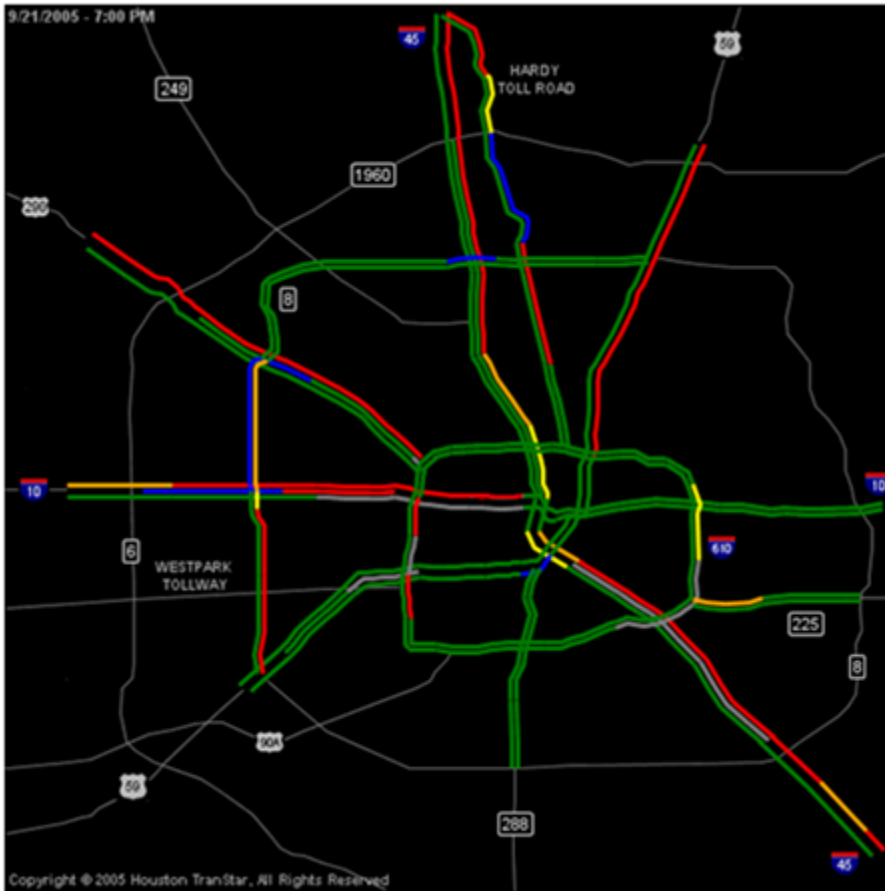


## IKE

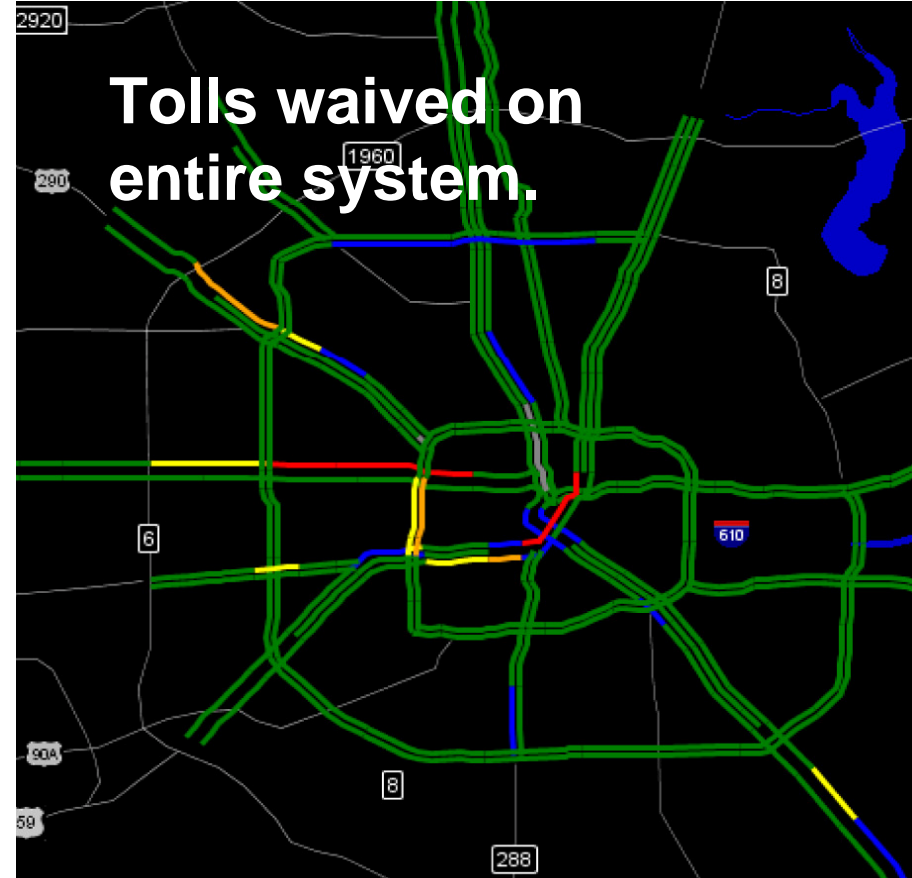


# WEDNESDAY – 7PM

## RITA



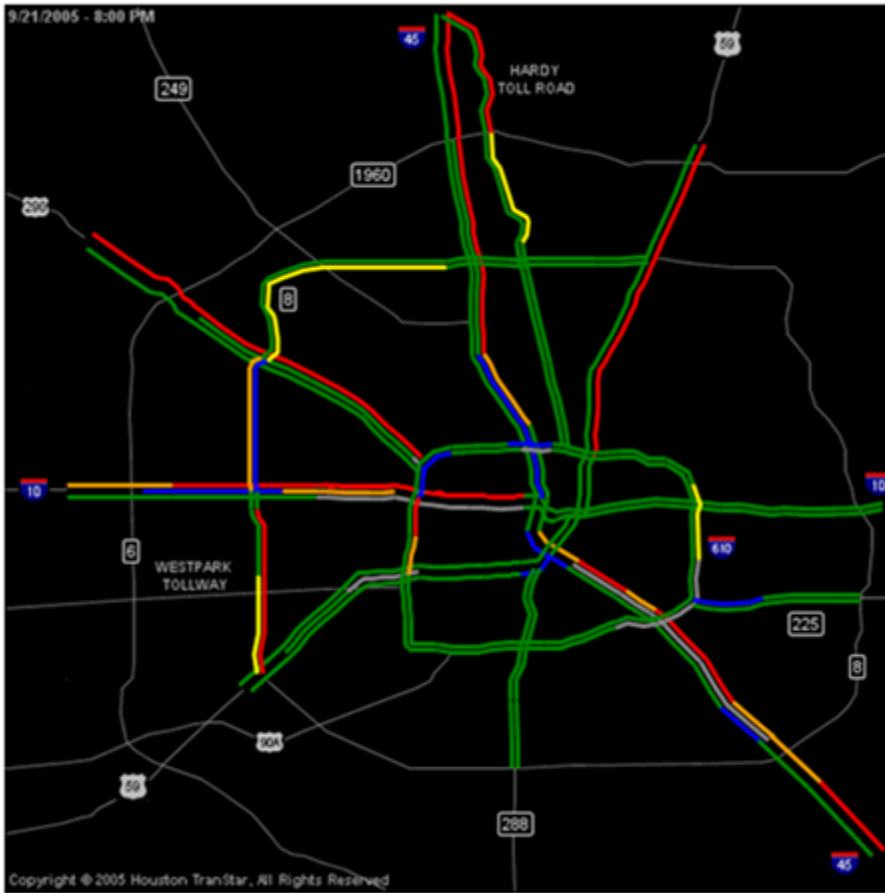
## IKE



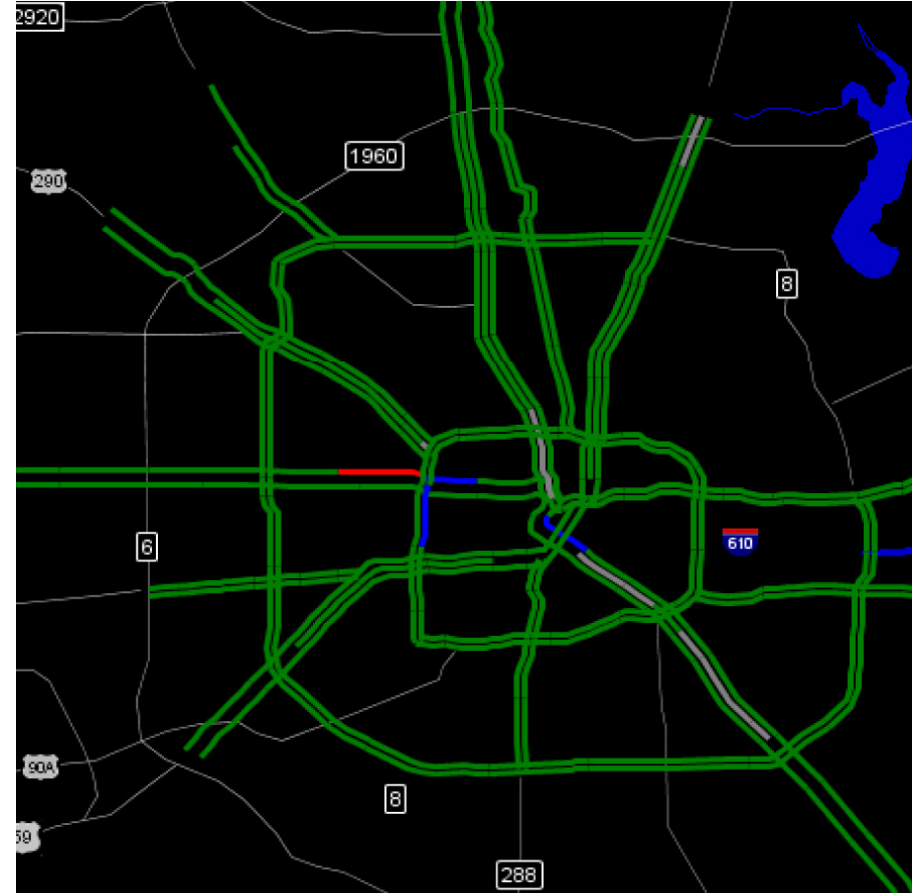


# WEDNESDAY – 8PM

## RITA

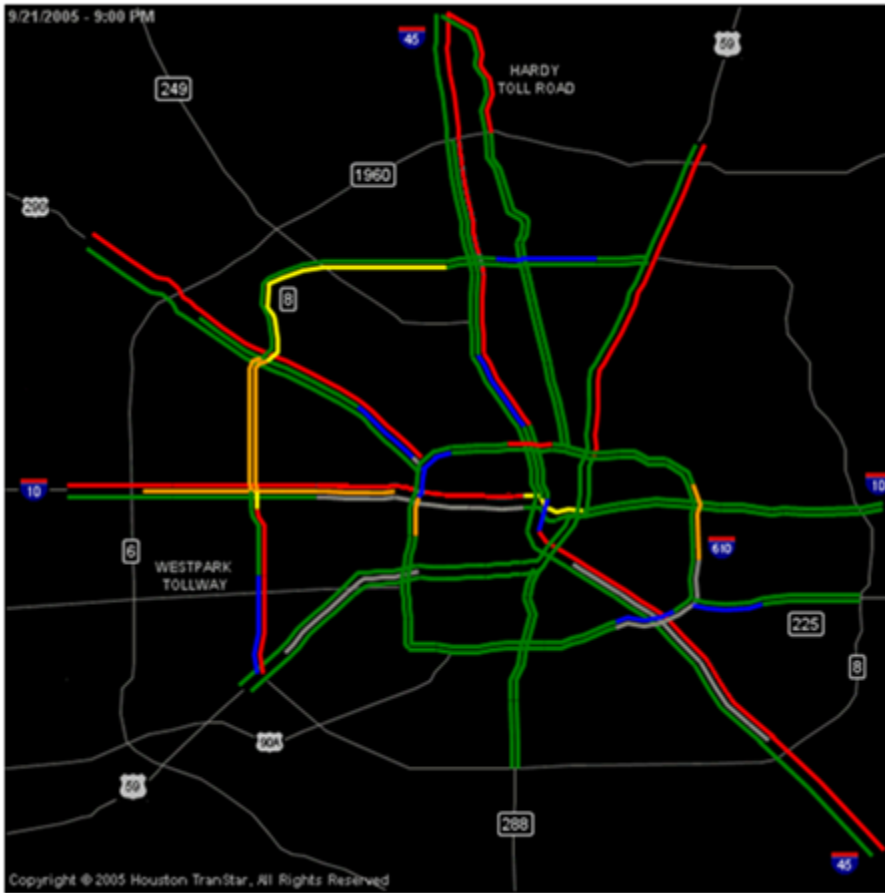


## IKE



# WEDNESDAY – 9PM

## RITA

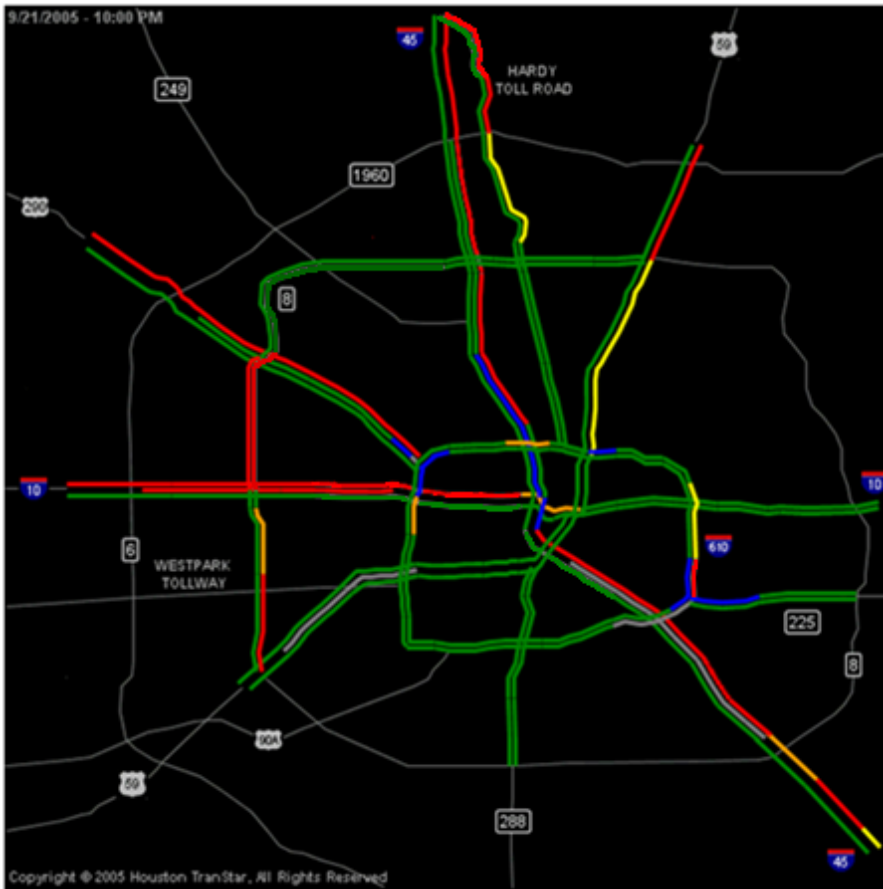


## IKE

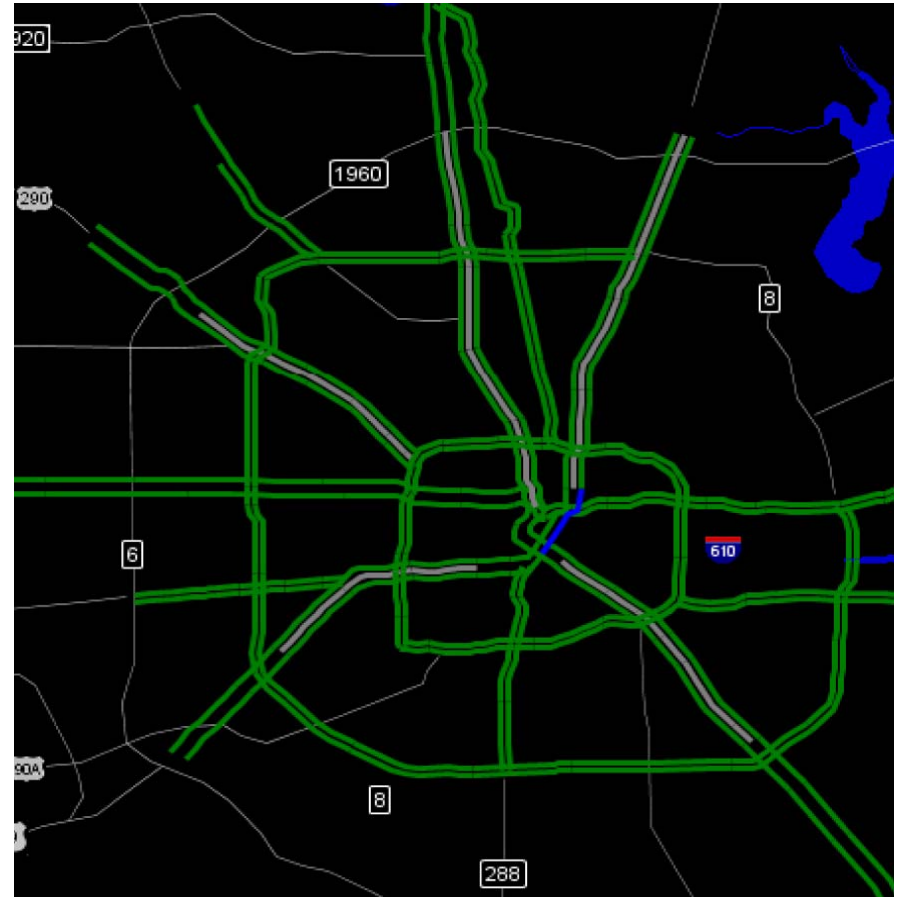


# WEDNESDAY – 10PM

## RITA

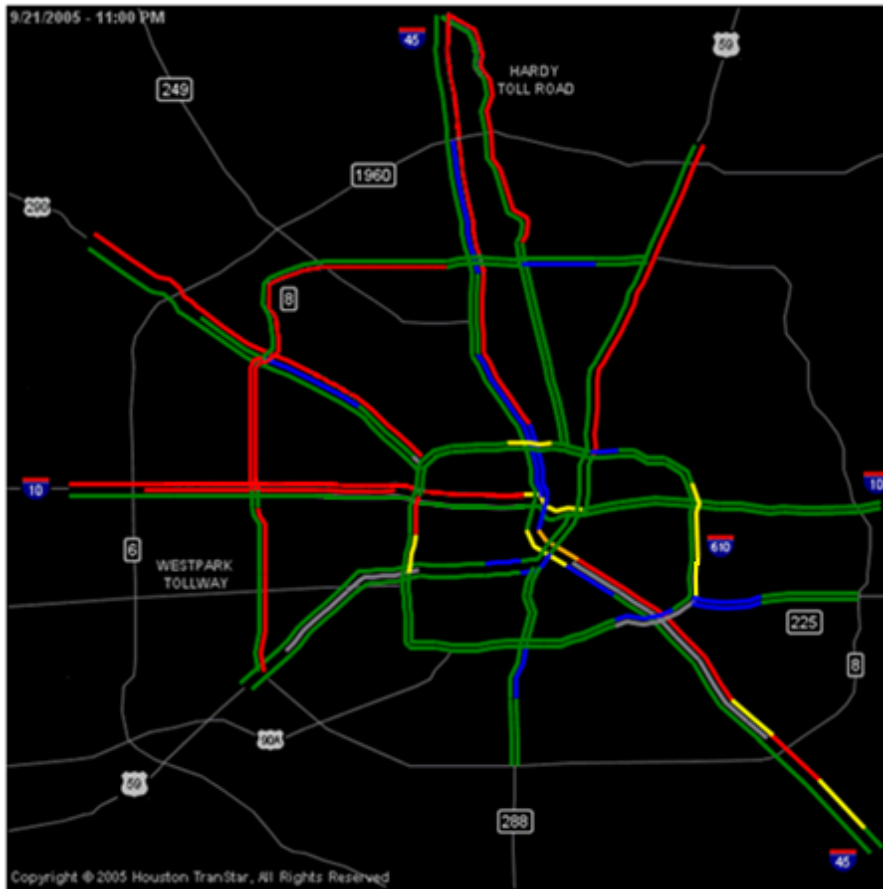


## IKE

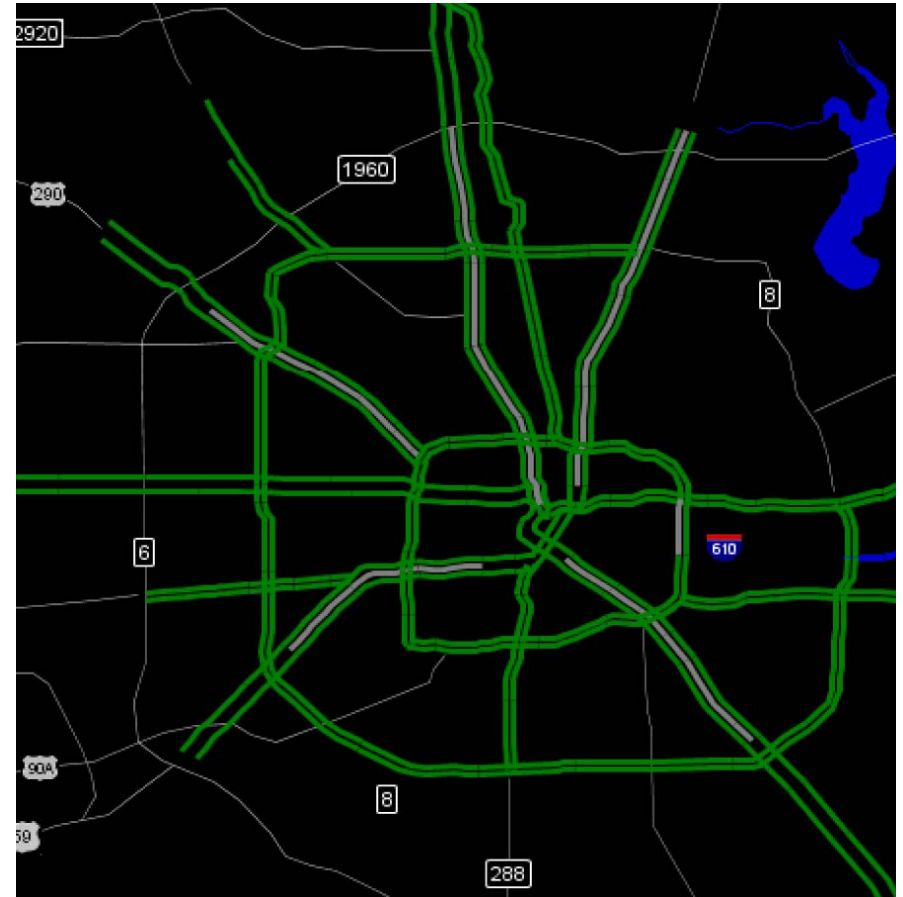


# WEDNESDAY – 11PM

## RITA

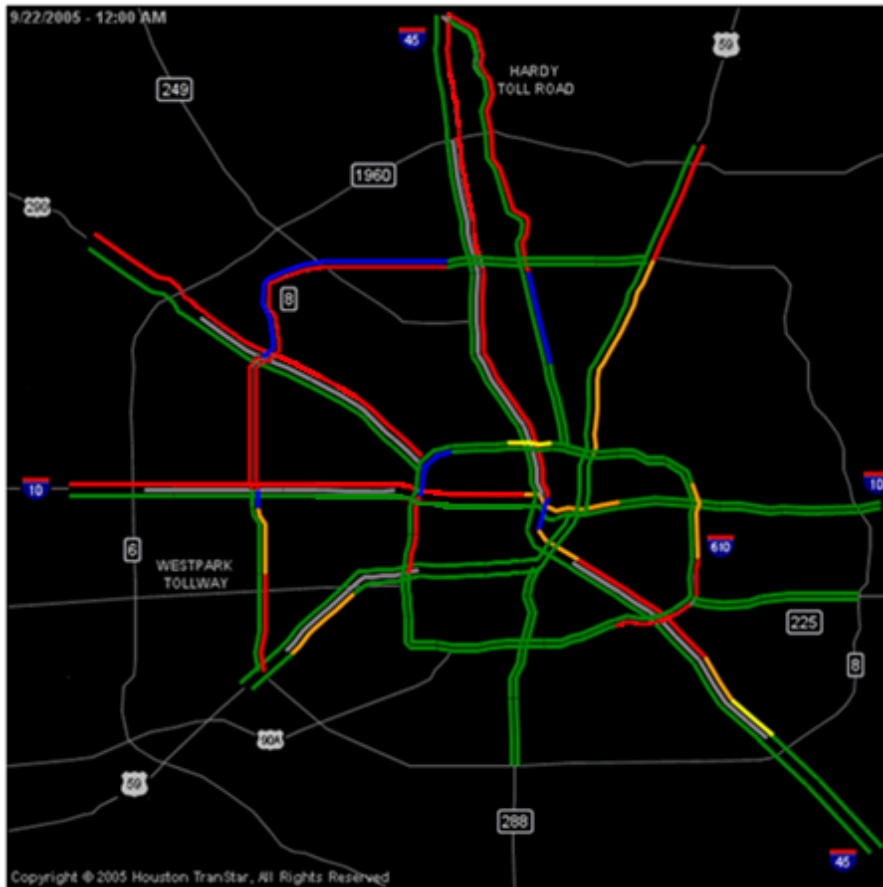


## IKE

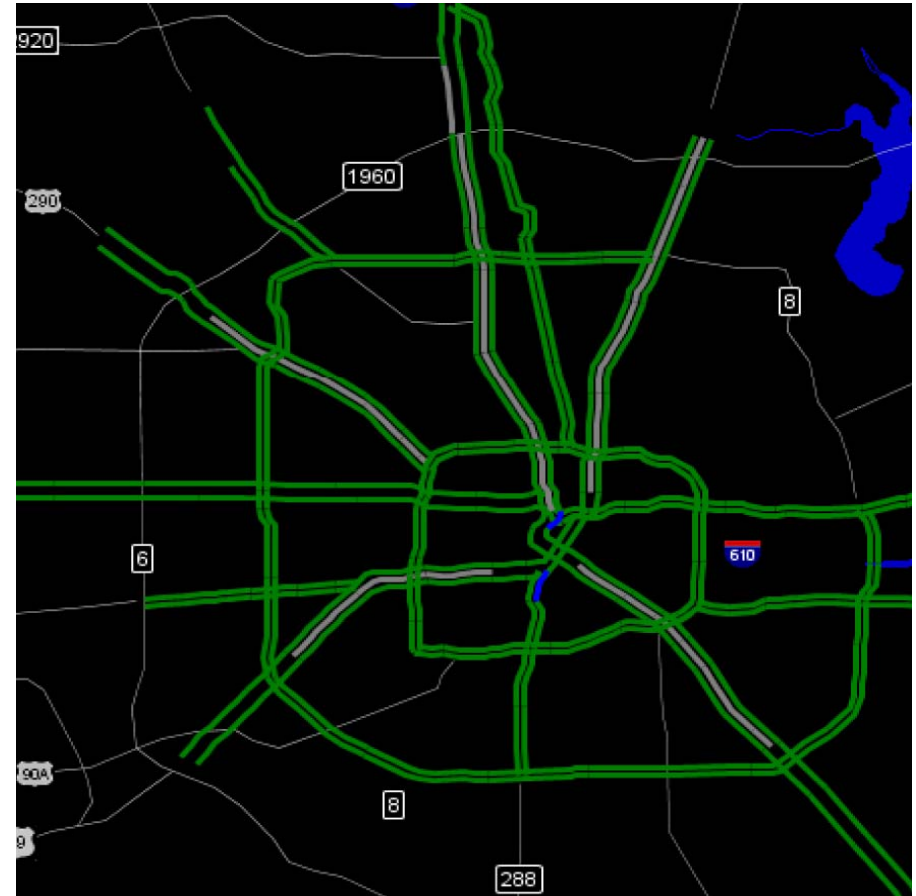


# THURSDAY – 12AM

RITA (9/22/05)



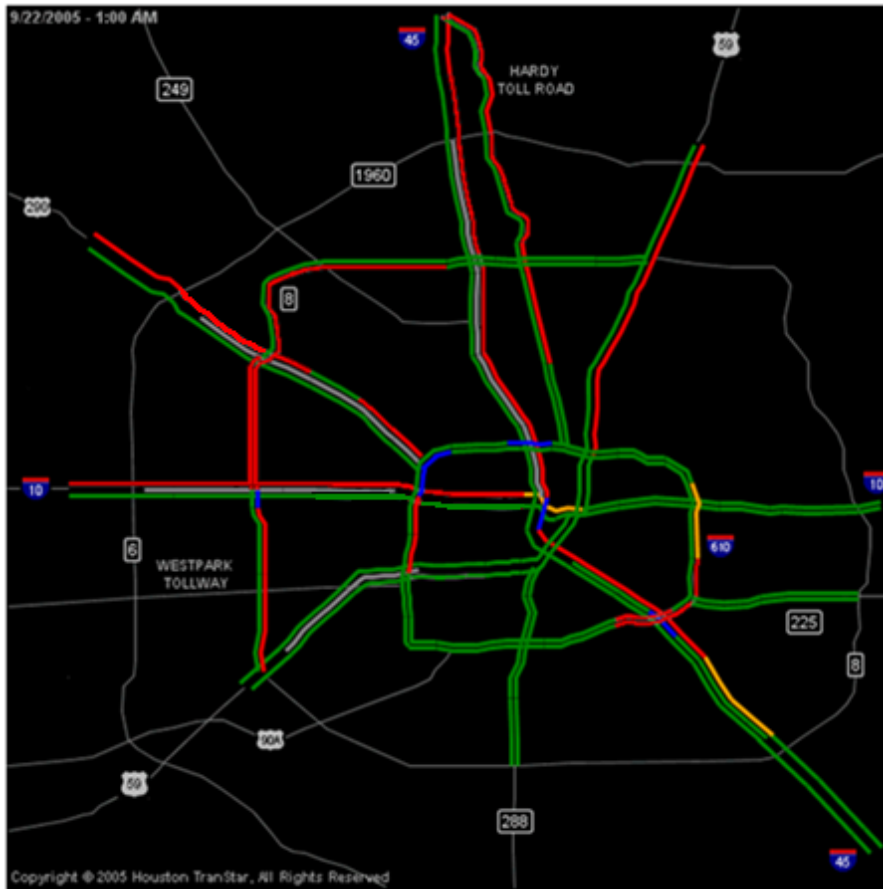
IKE (9/11/08)



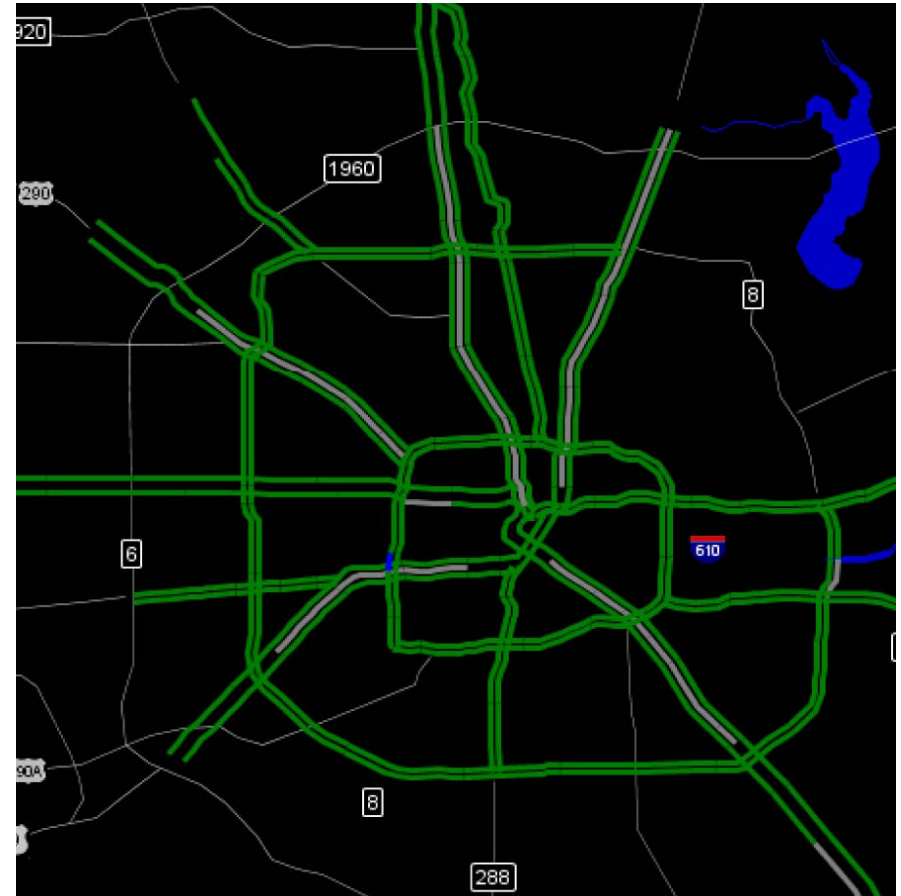


# THURSDAY – 1AM

RITA (9/22/05)

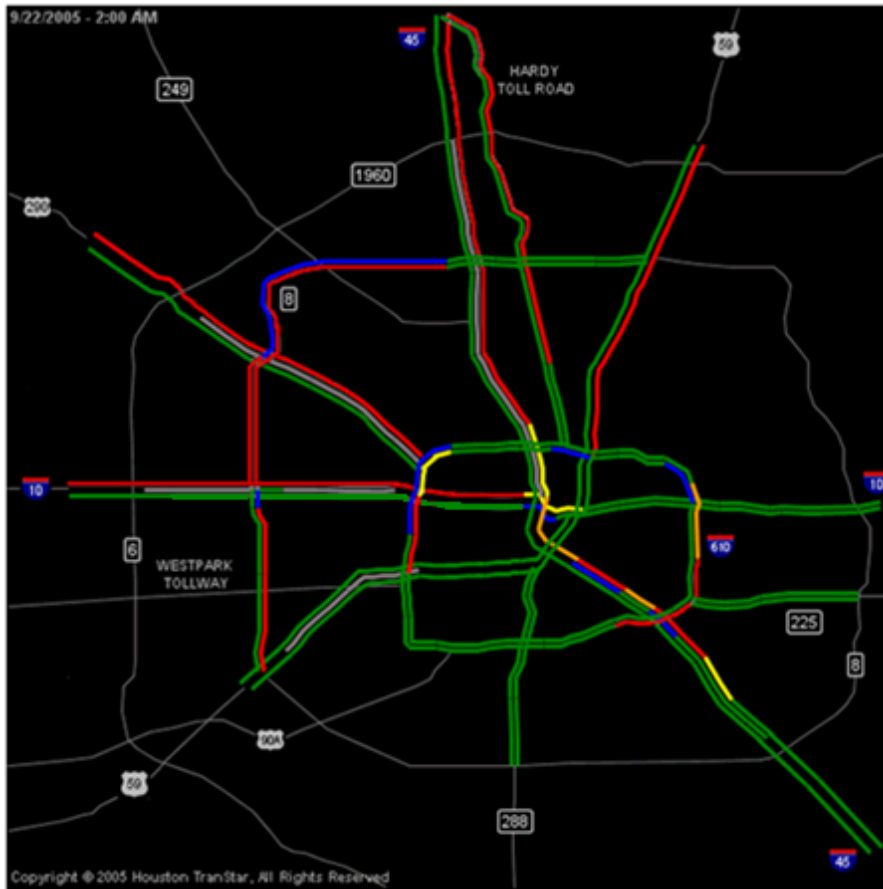


IKE (9/11/08)

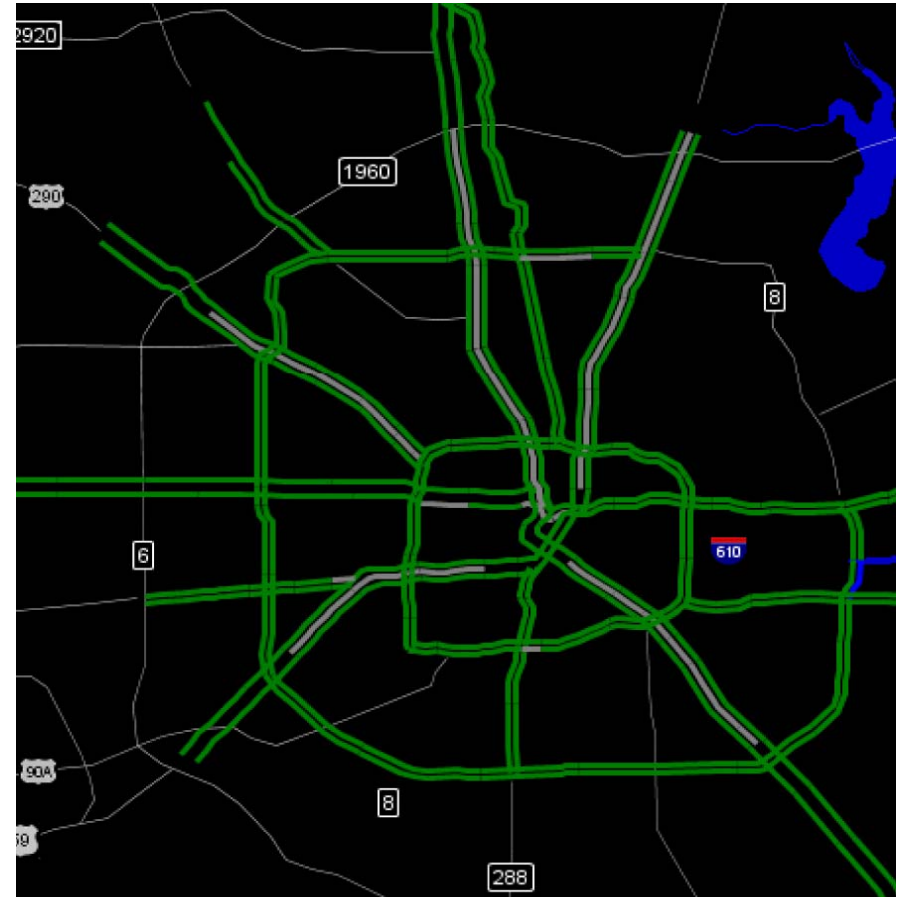


# THURSDAY – 2AM

RITA (9/22/05)



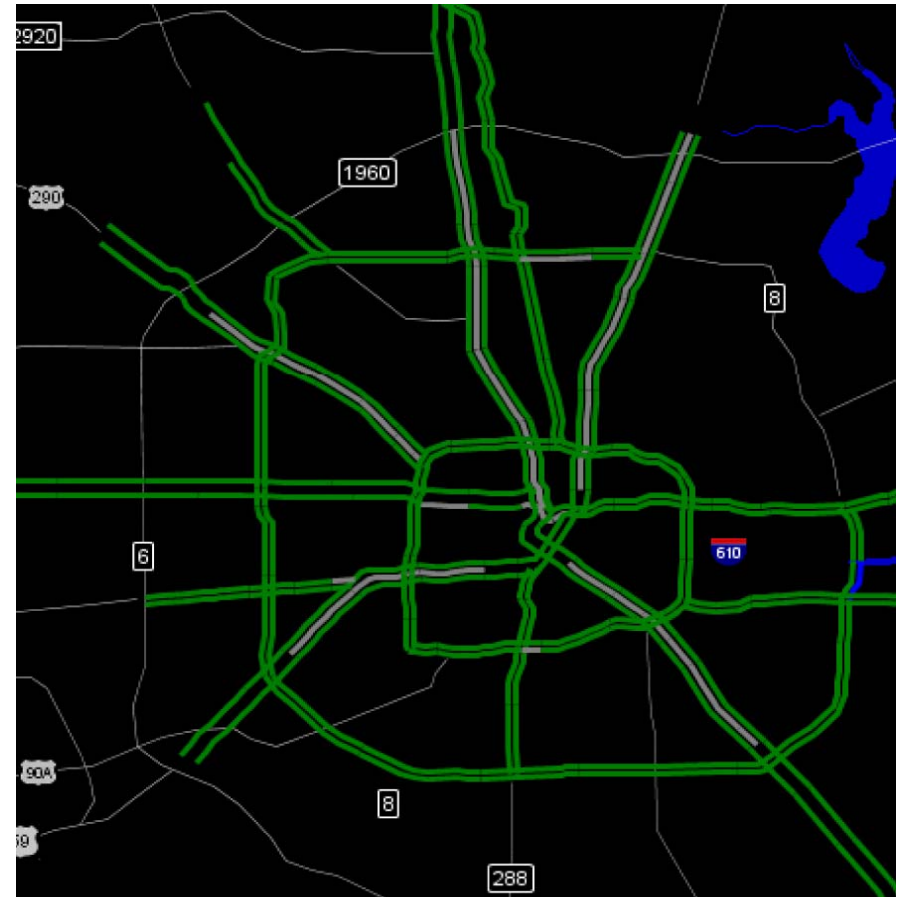
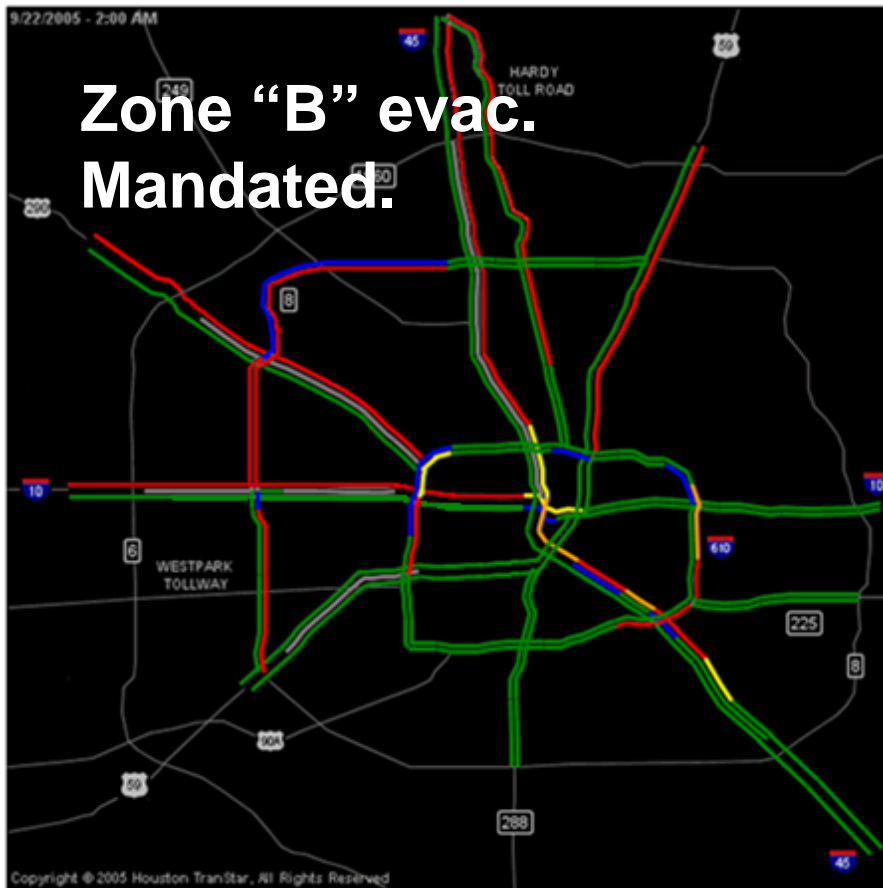
IKE (9/11/08)



# THURSDAY – 2AM

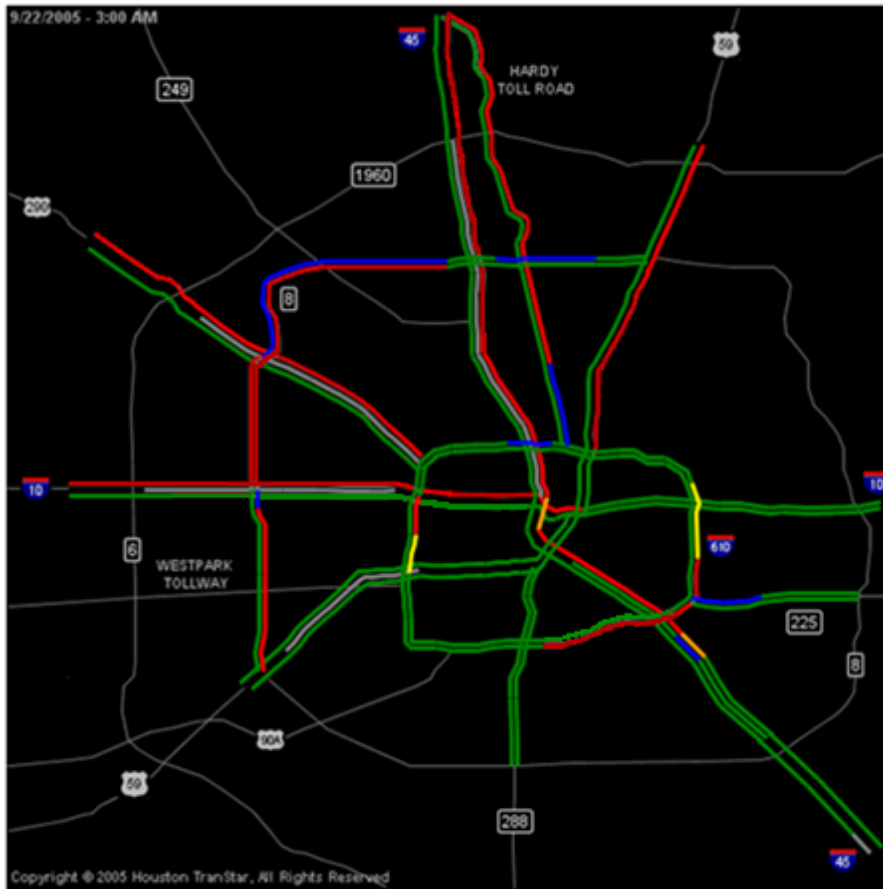
RITA (9/22/05)

IKE (9/11/08)

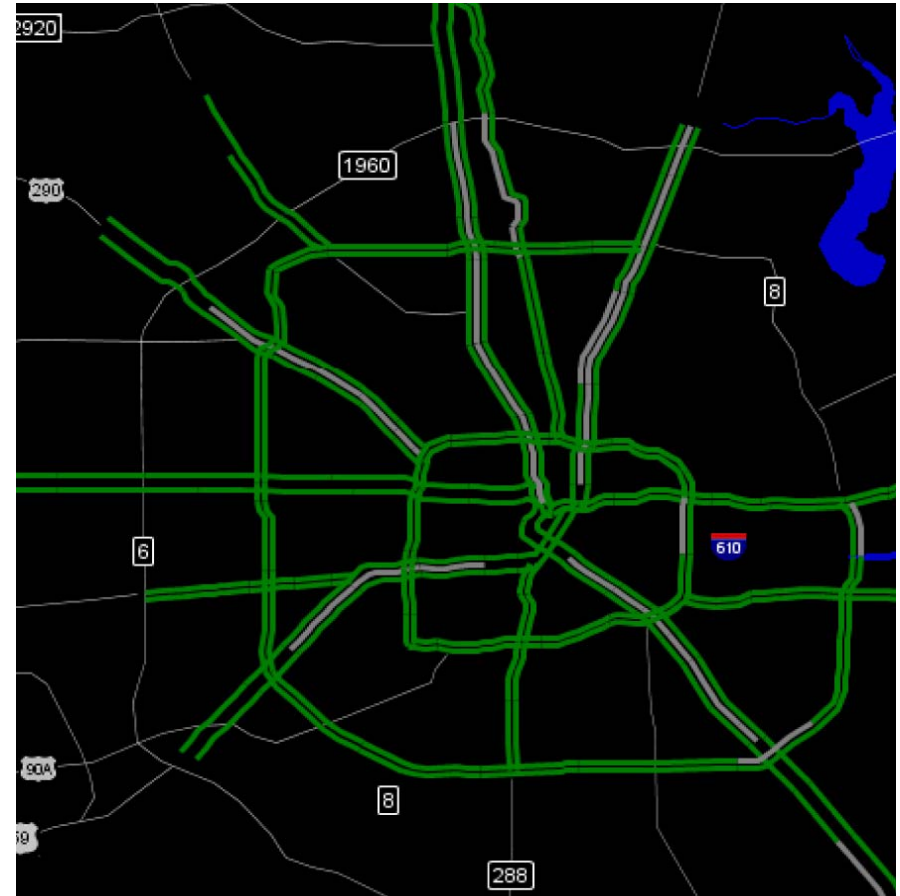


# THURSDAY – 3AM

## RITA



## IKE

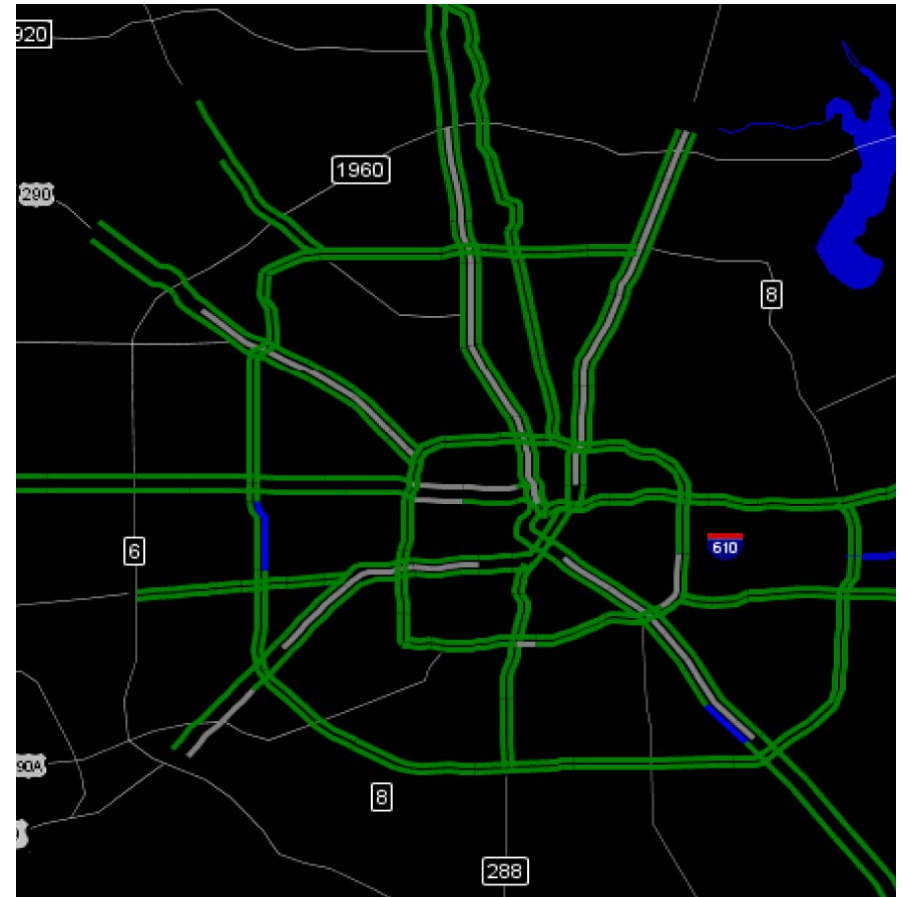


# THURSDAY – 4AM

## RITA



## IKE



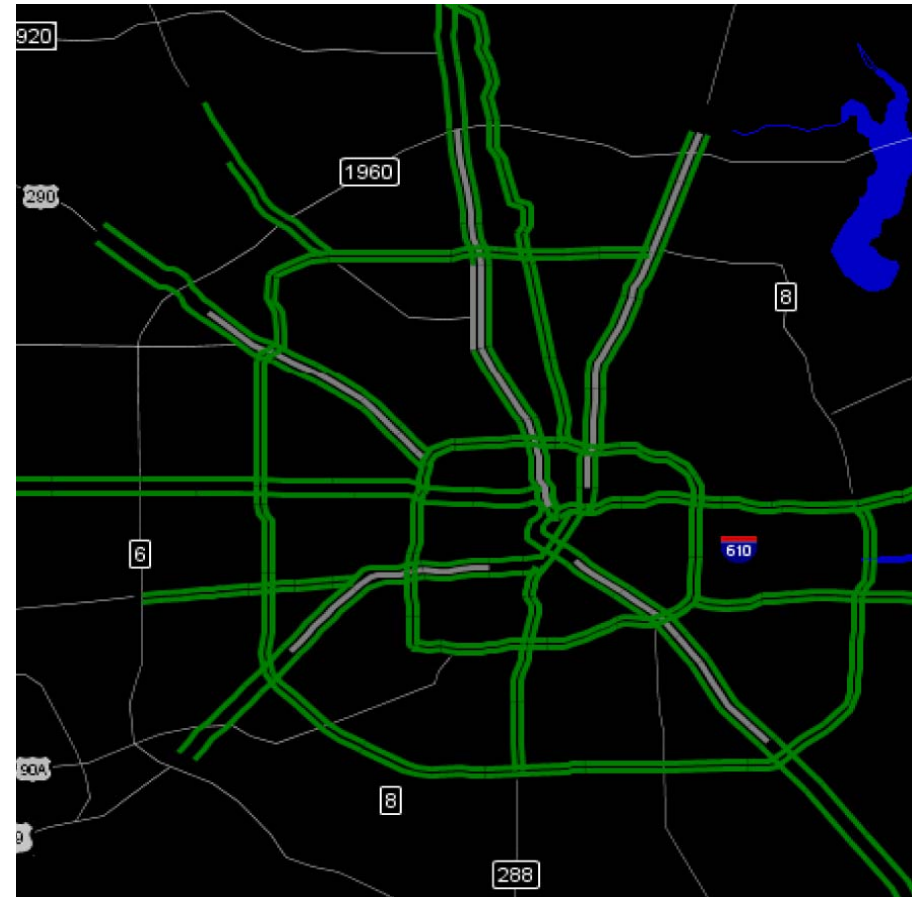


# THURSDAY – 5AM

## RITA



## IKE

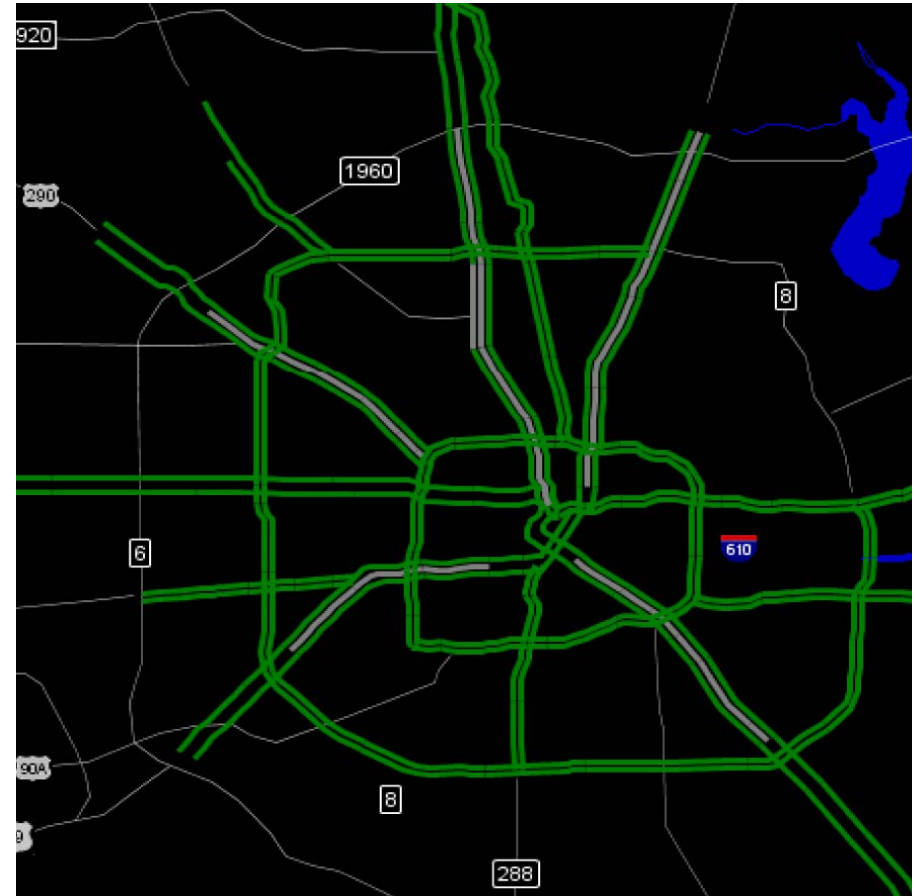


# THURSDAY – 5AM

## RITA

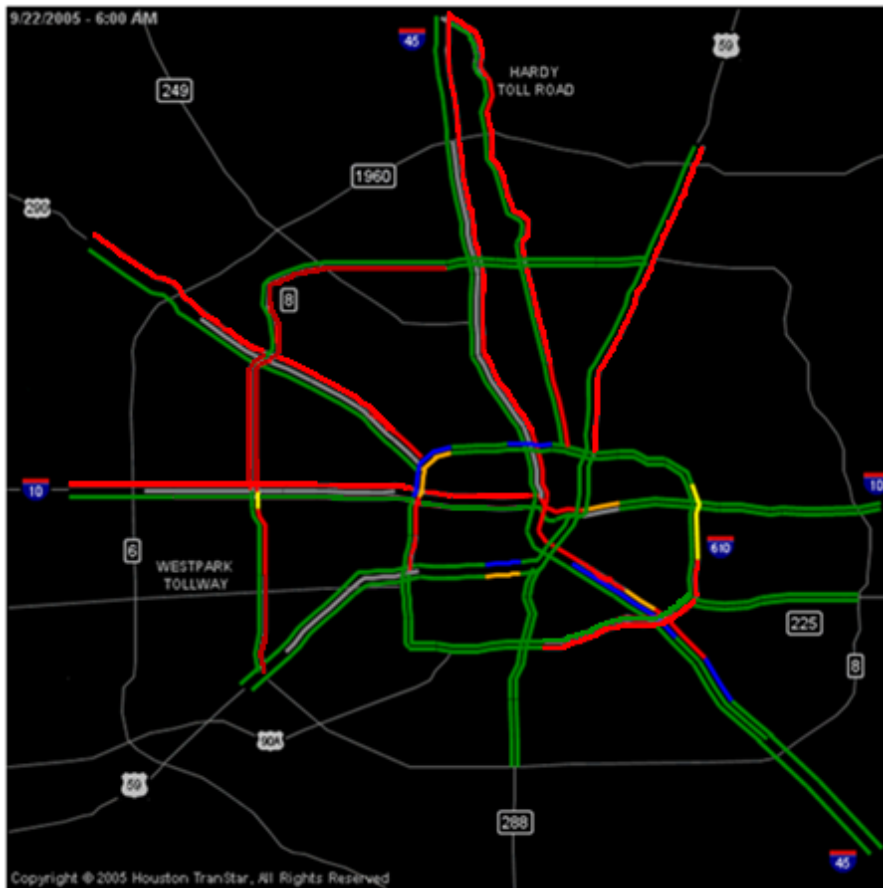


## IKE

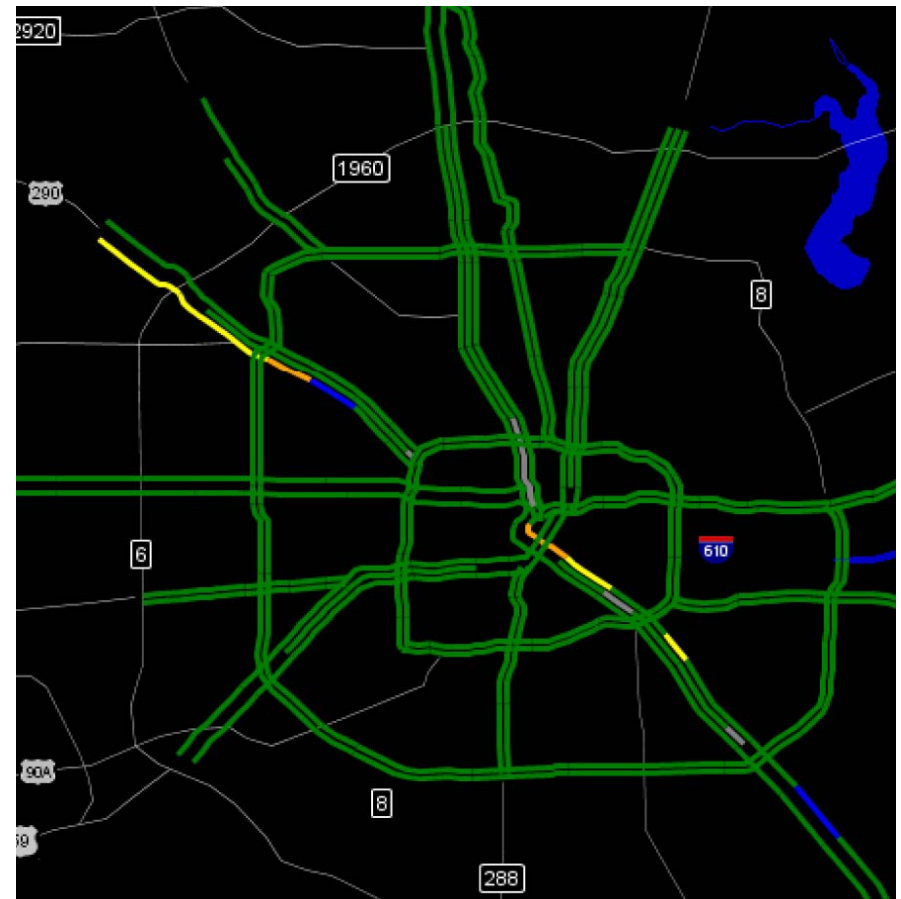


# THURSDAY – 6AM

## RITA



## IKE



# THURSDAY – 6AM

## RITA

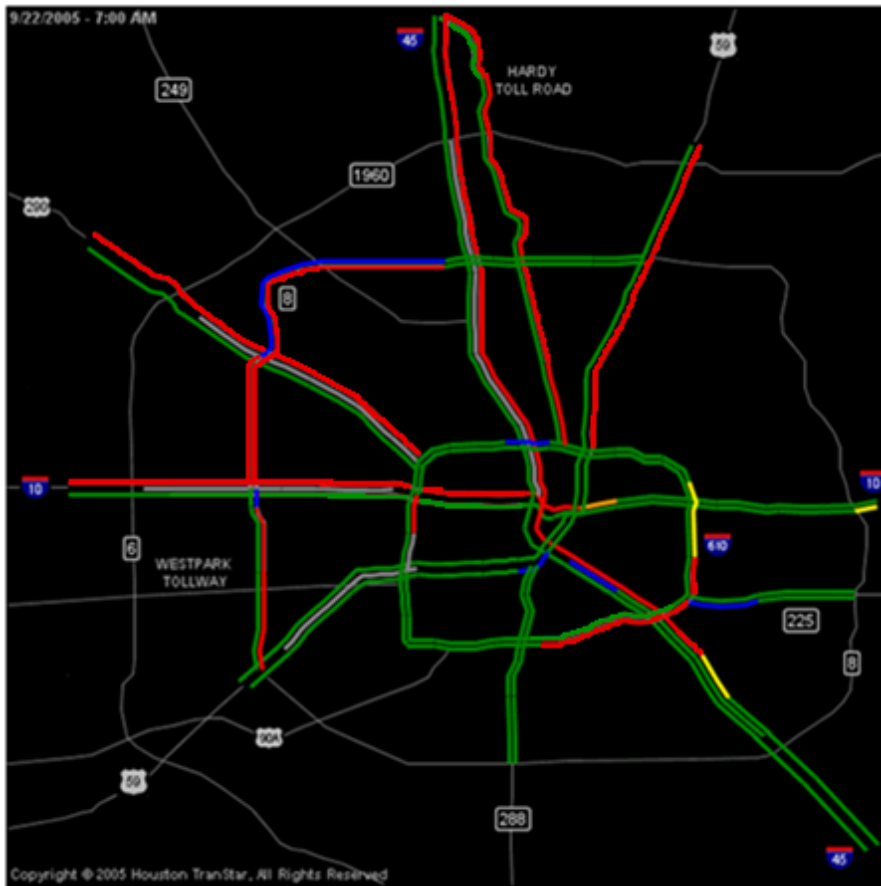


## IKE

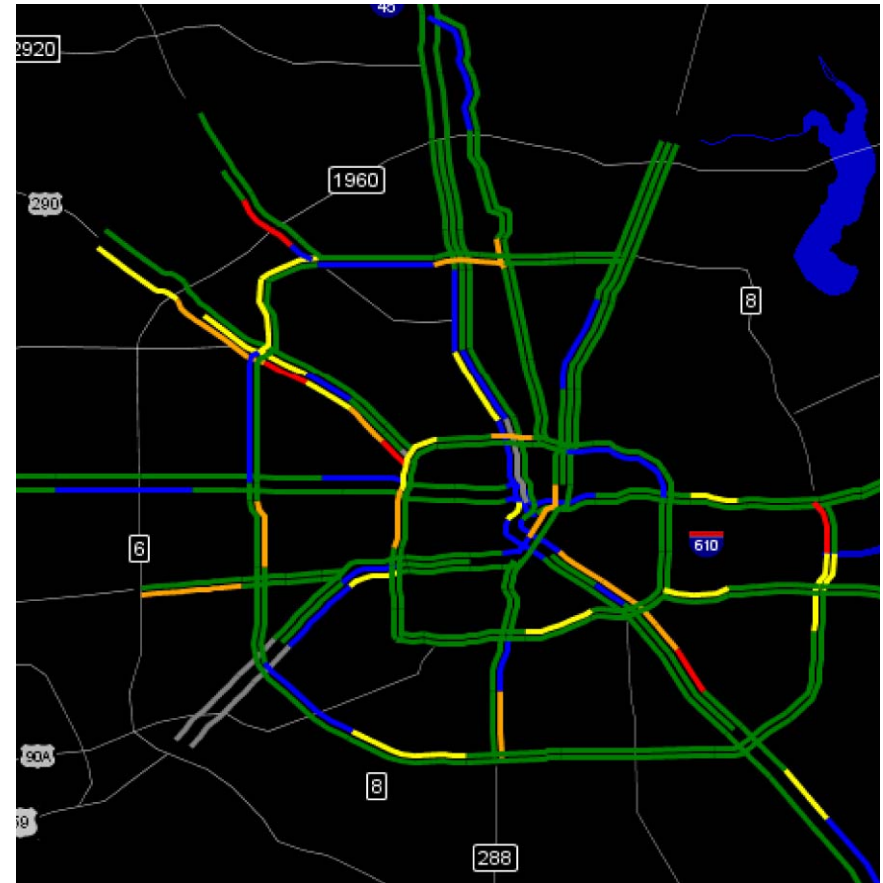


# THURSDAY – 7AM

## RITA



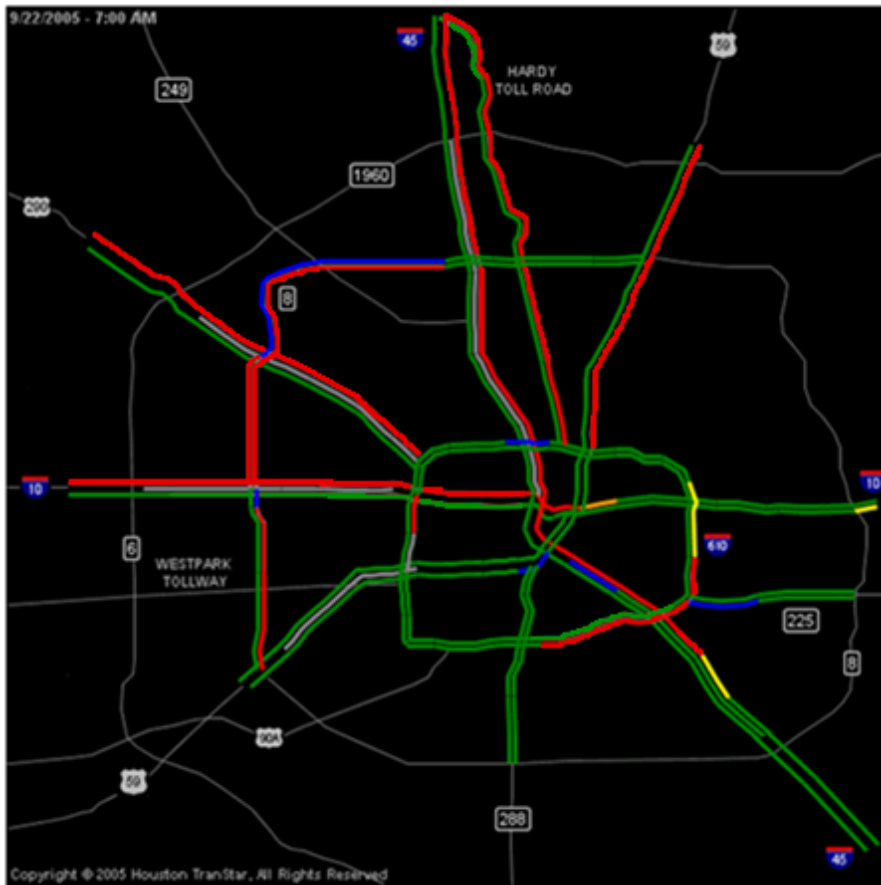
## IKE



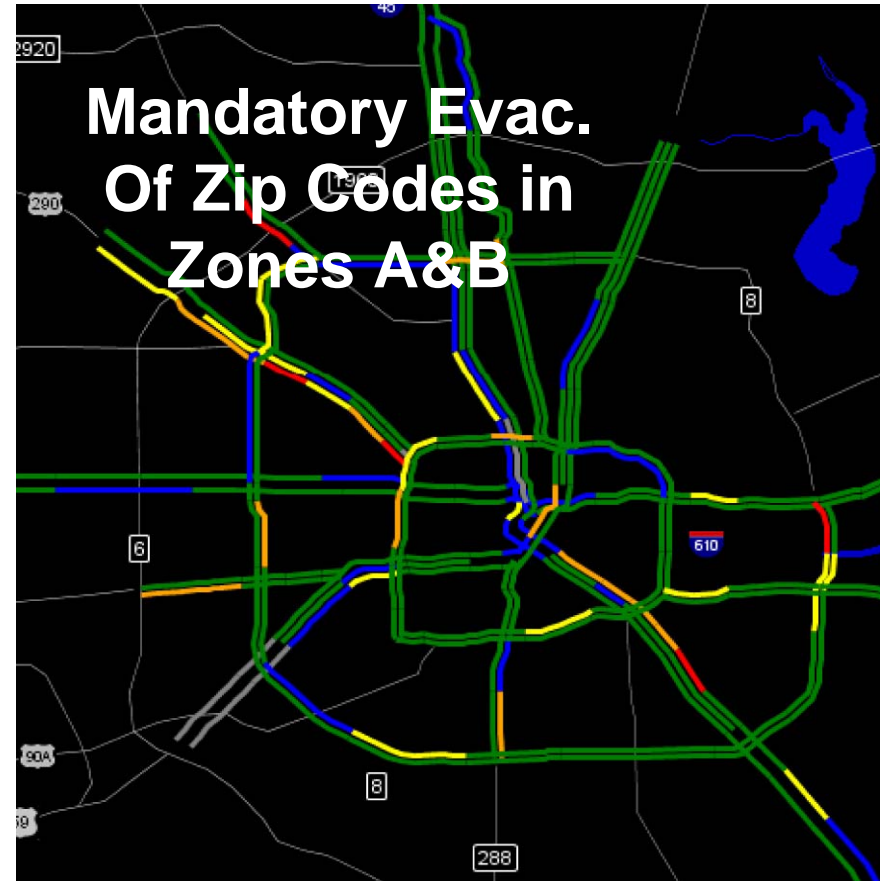


# THURSDAY – 7AM

## RITA

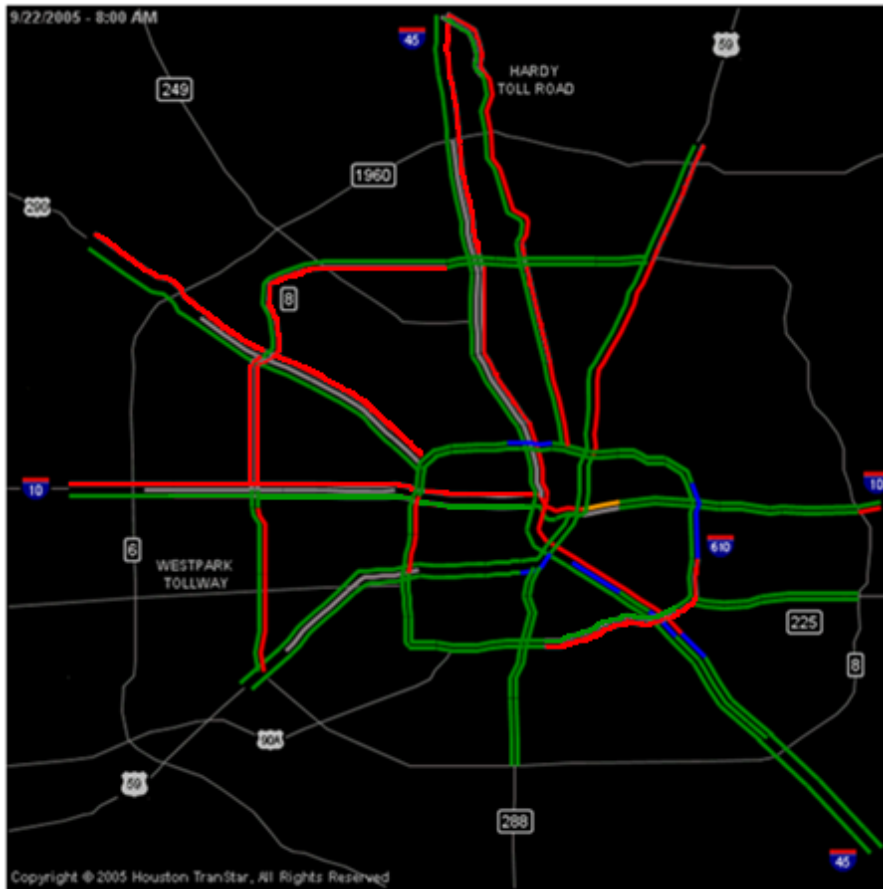


## IKE

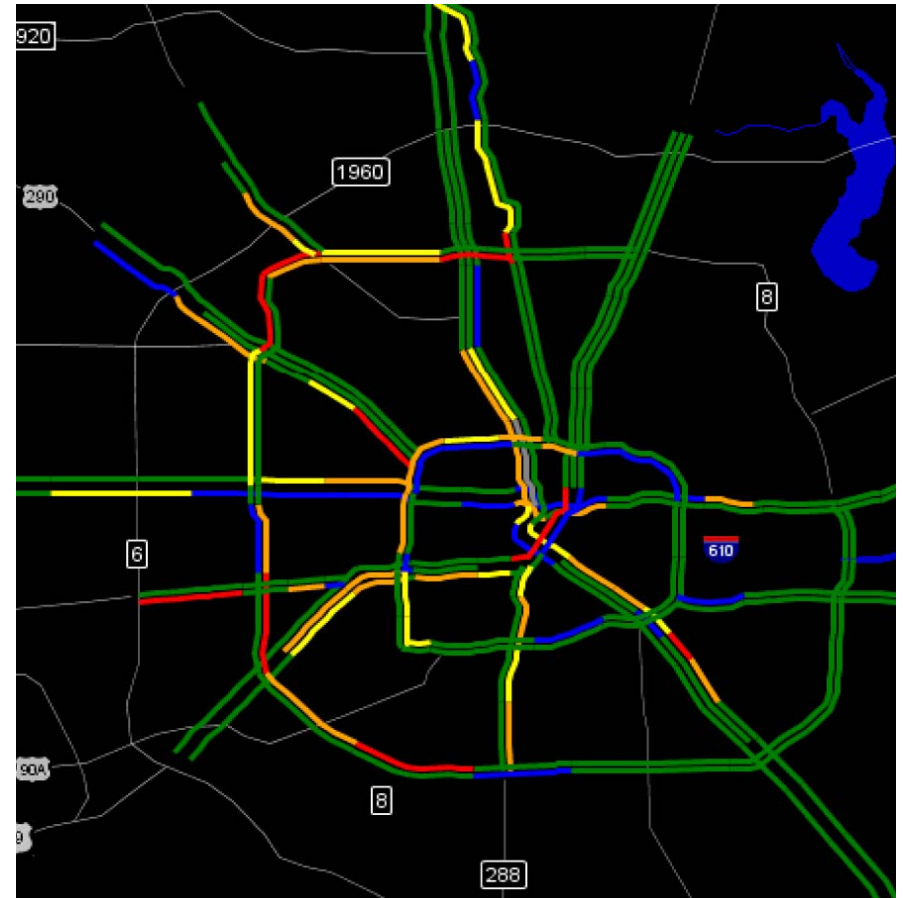


# THURSDAY – 8AM

## RITA

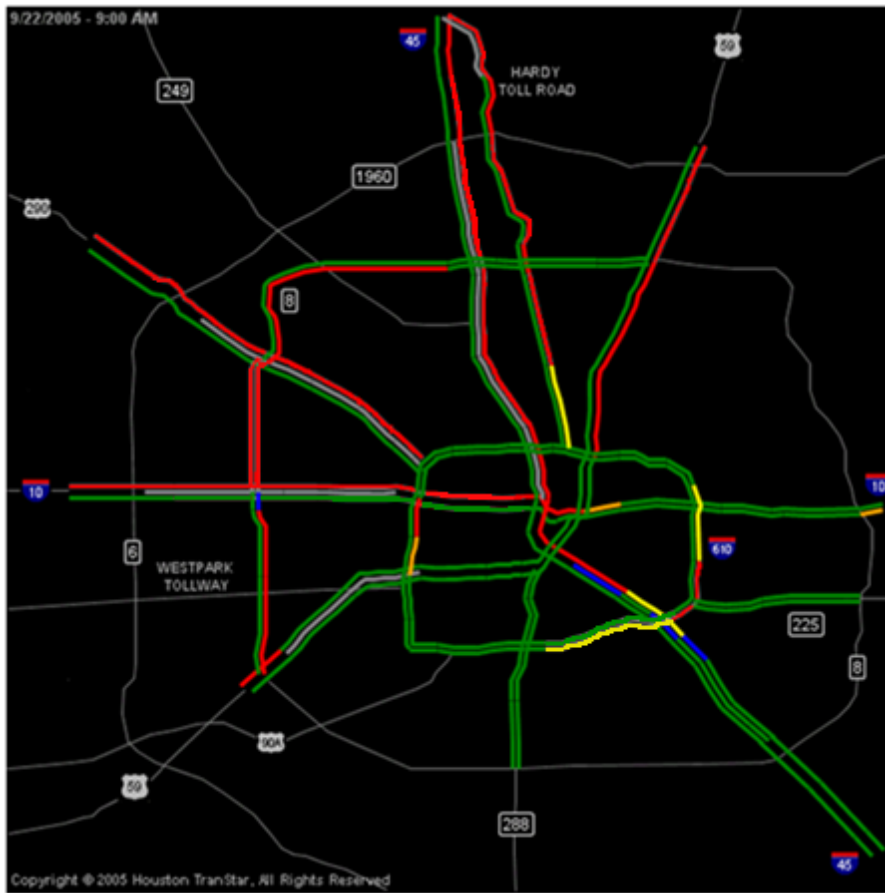


## IKE

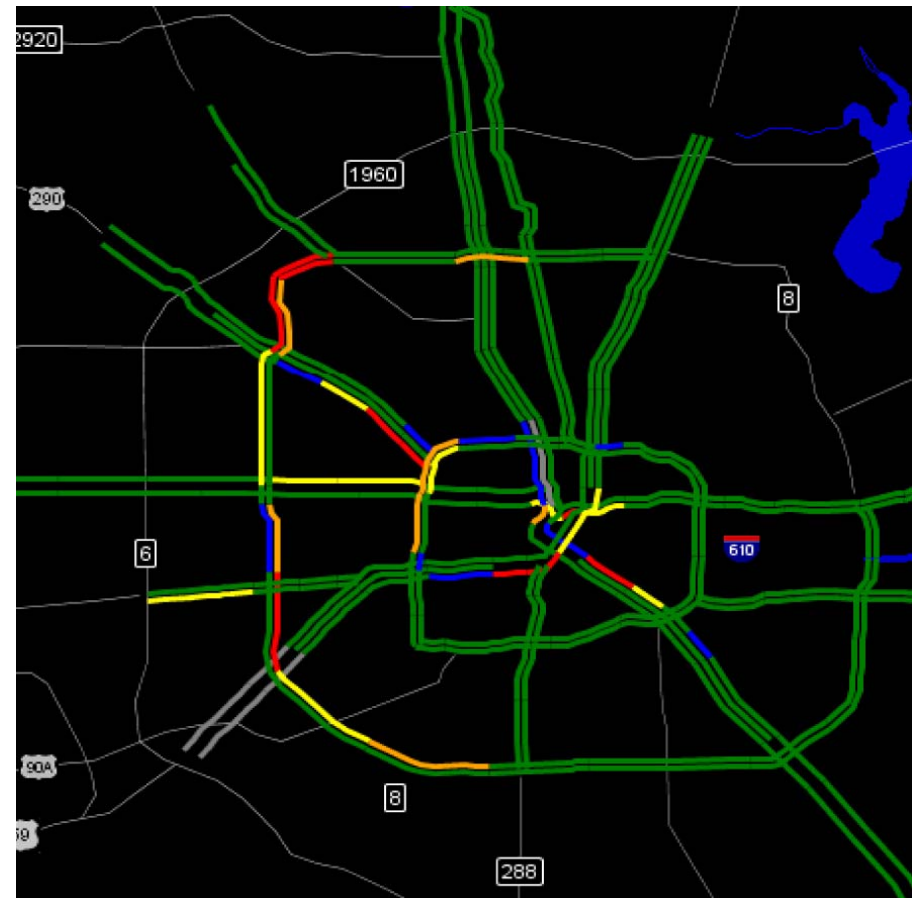


# THURSDAY – 9AM

## RITA

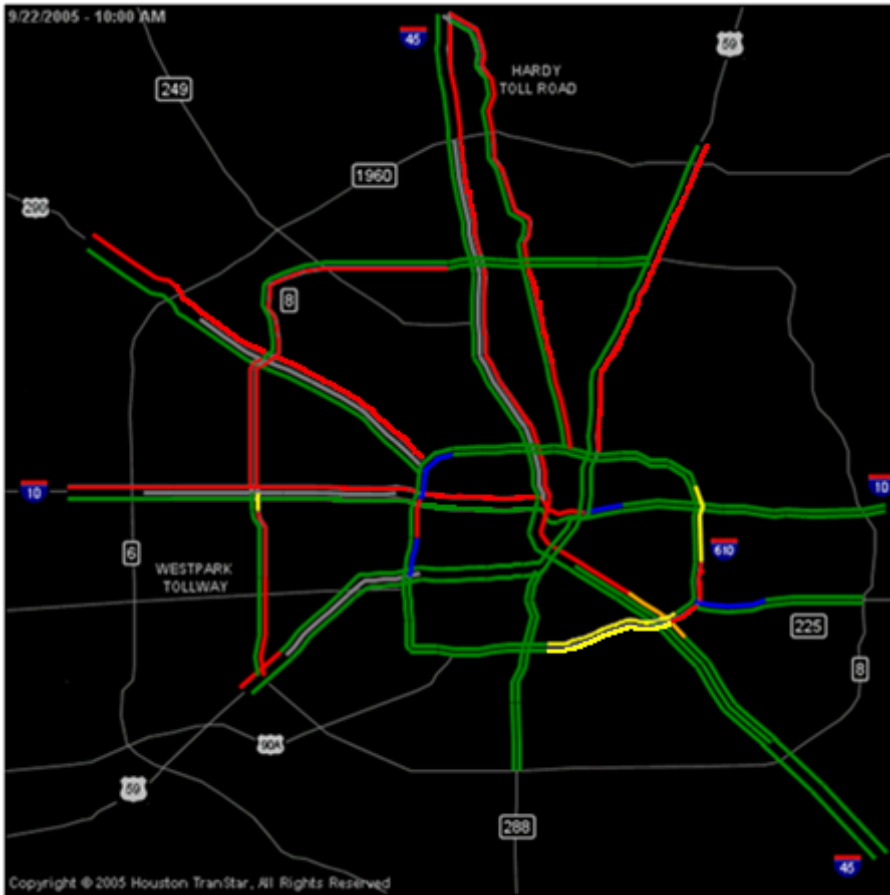


## IKE

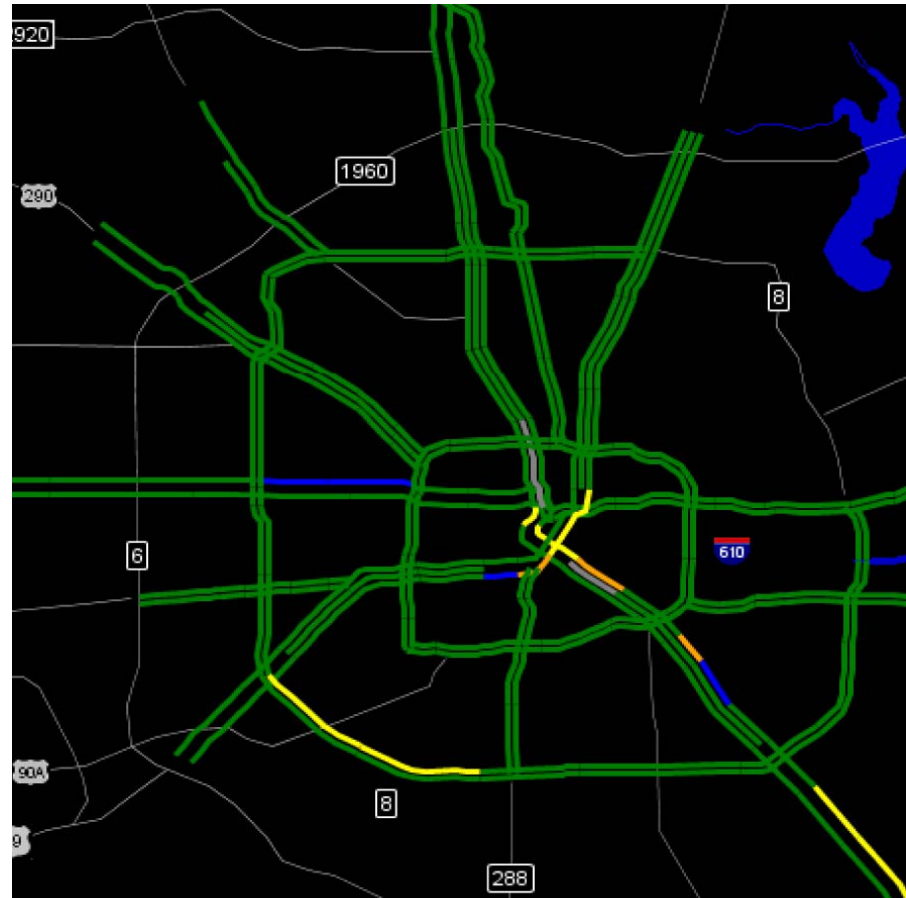


# THURSDAY – 10AM

## RITA

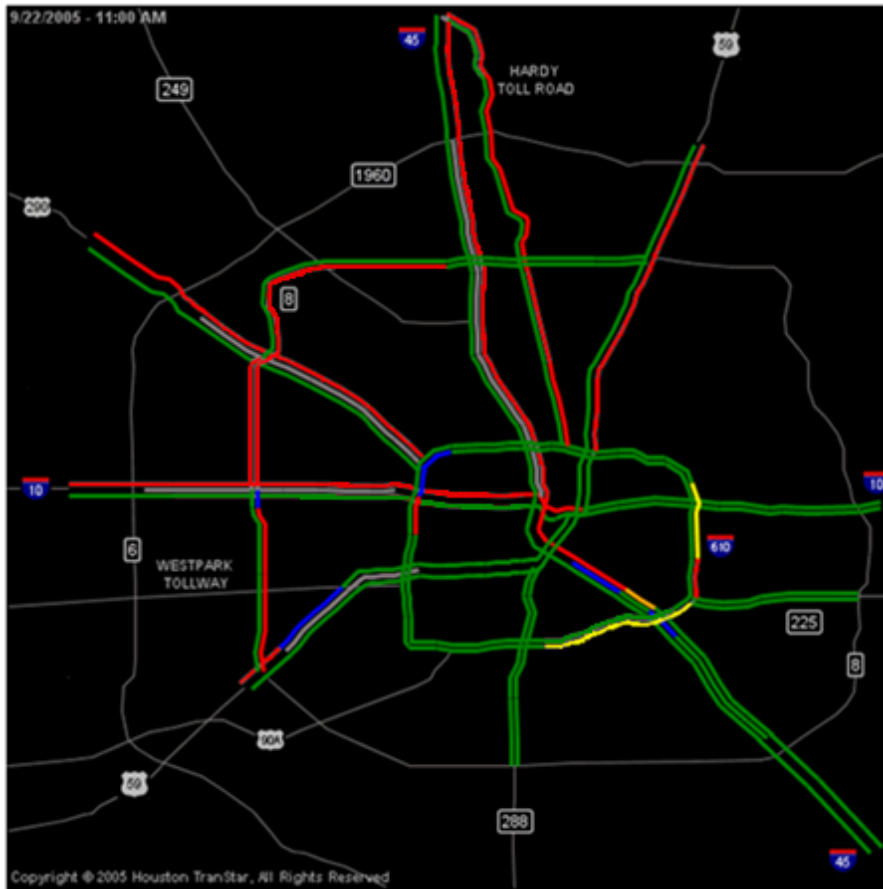


## IKE

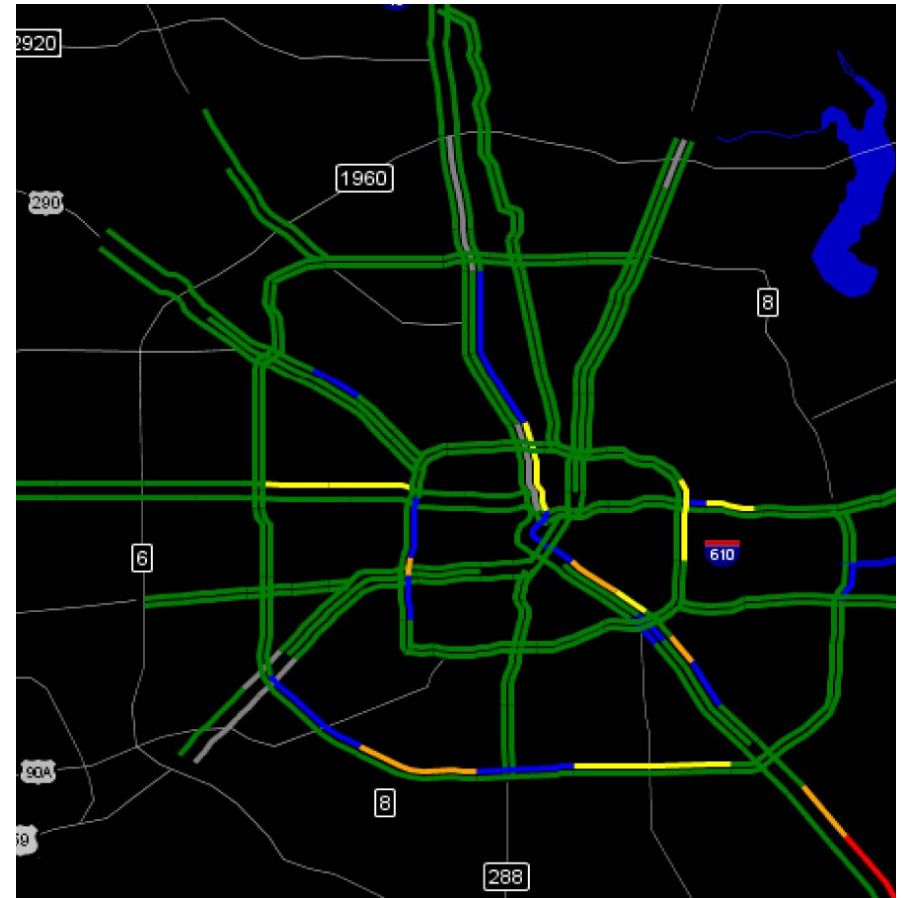


# THURSDAY – 11AM

## RITA



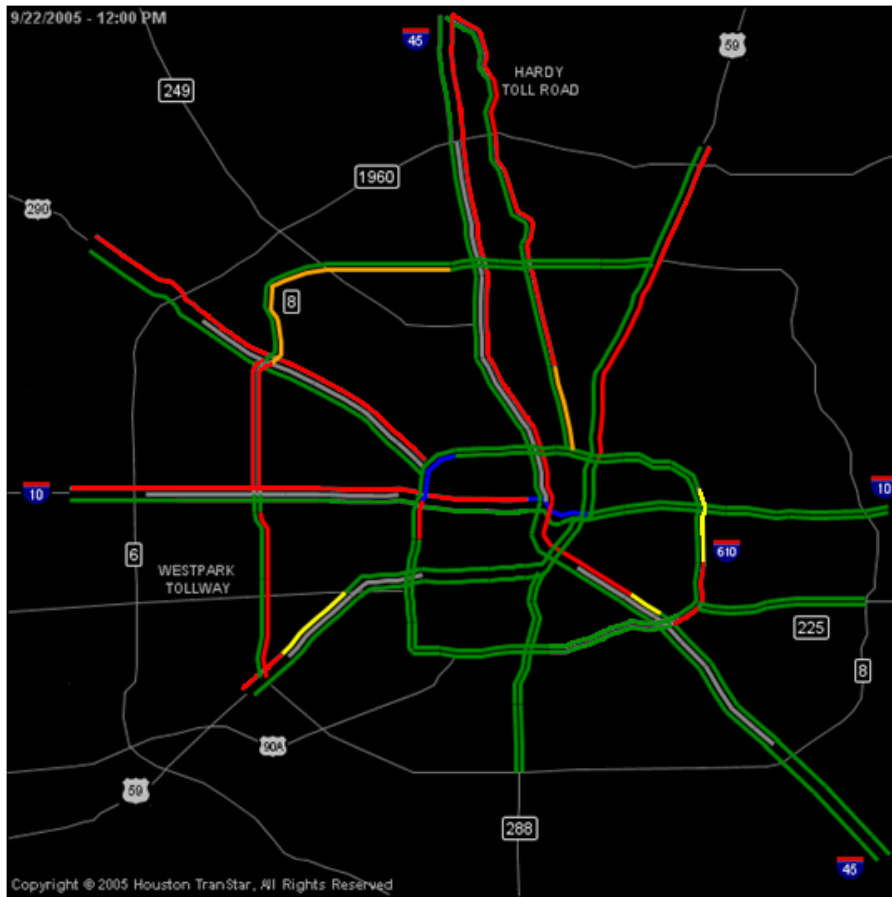
## IKE



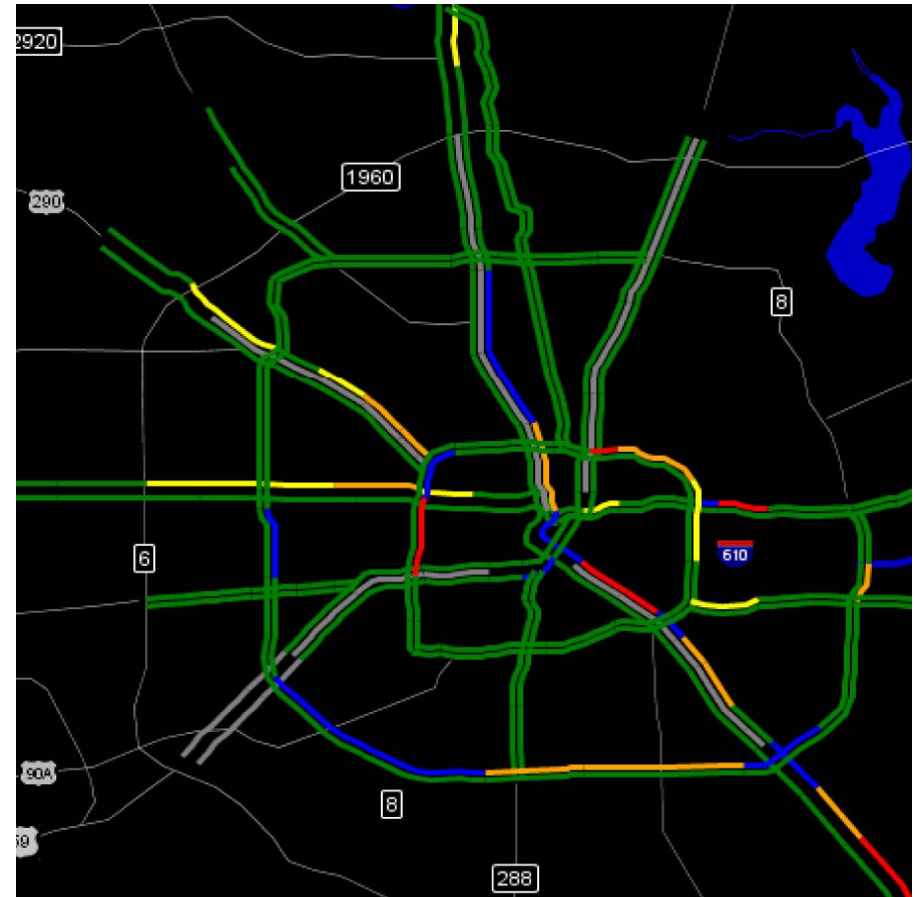


# THURSDAY – 12PM

## RITA



## IKE



# THURSDAY – 12PM

## RITA

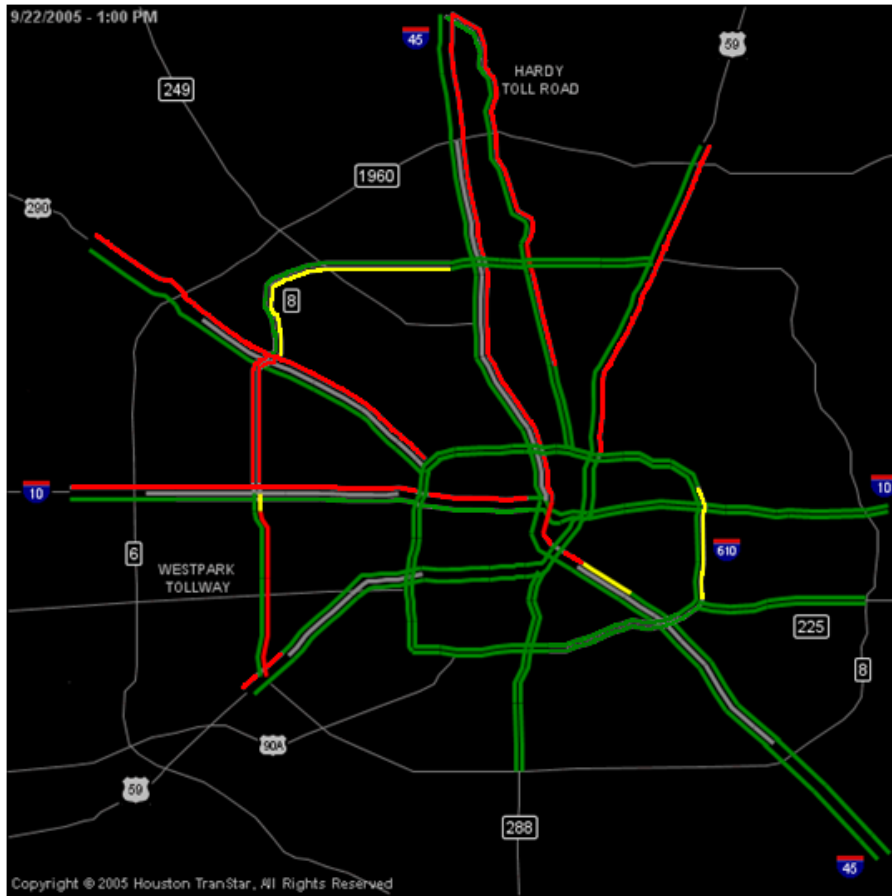


## IKE



# THURSDAY – 1PM

## RITA

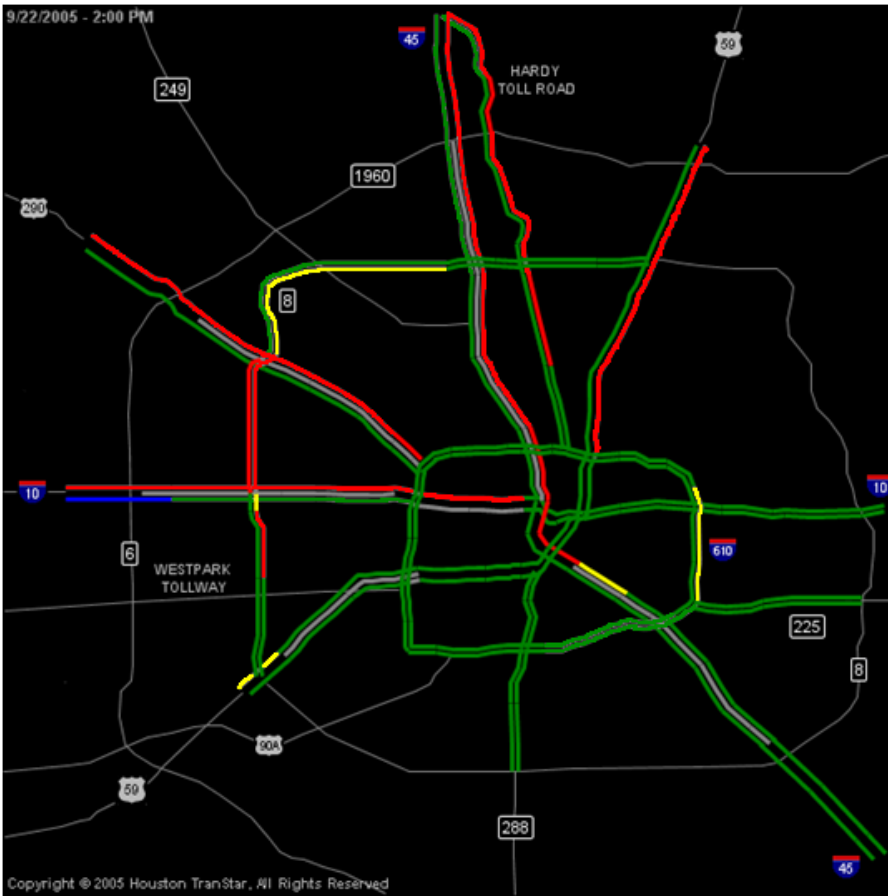


## IKE

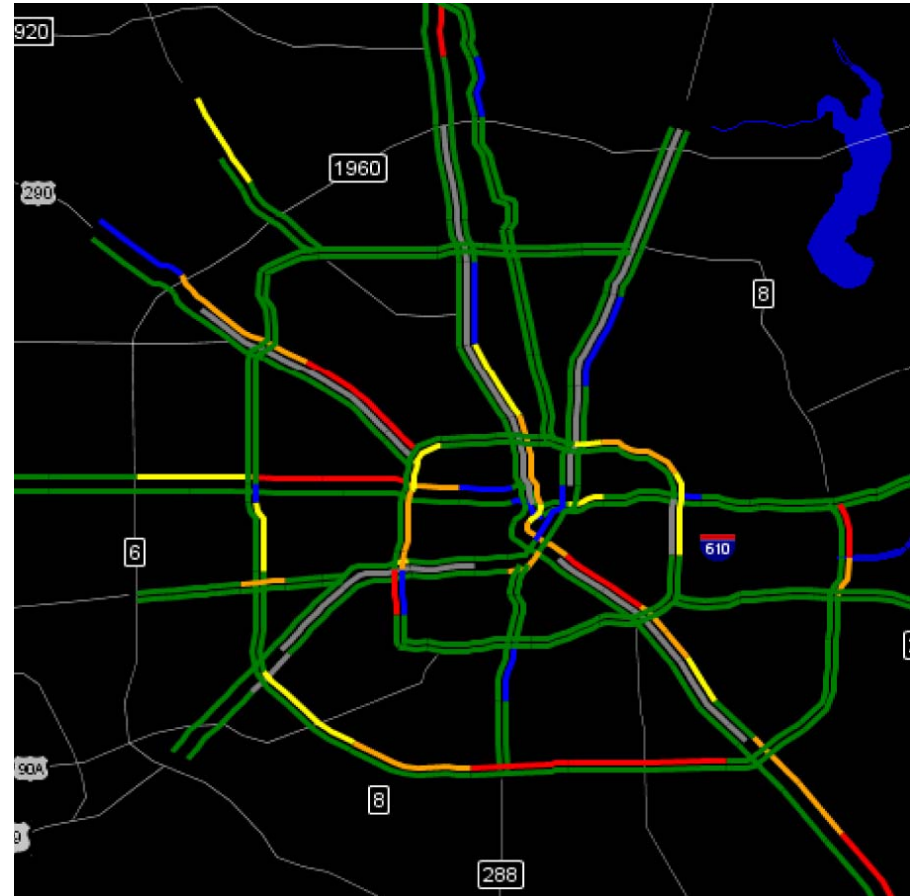


# THURSDAY – 2PM

## RITA

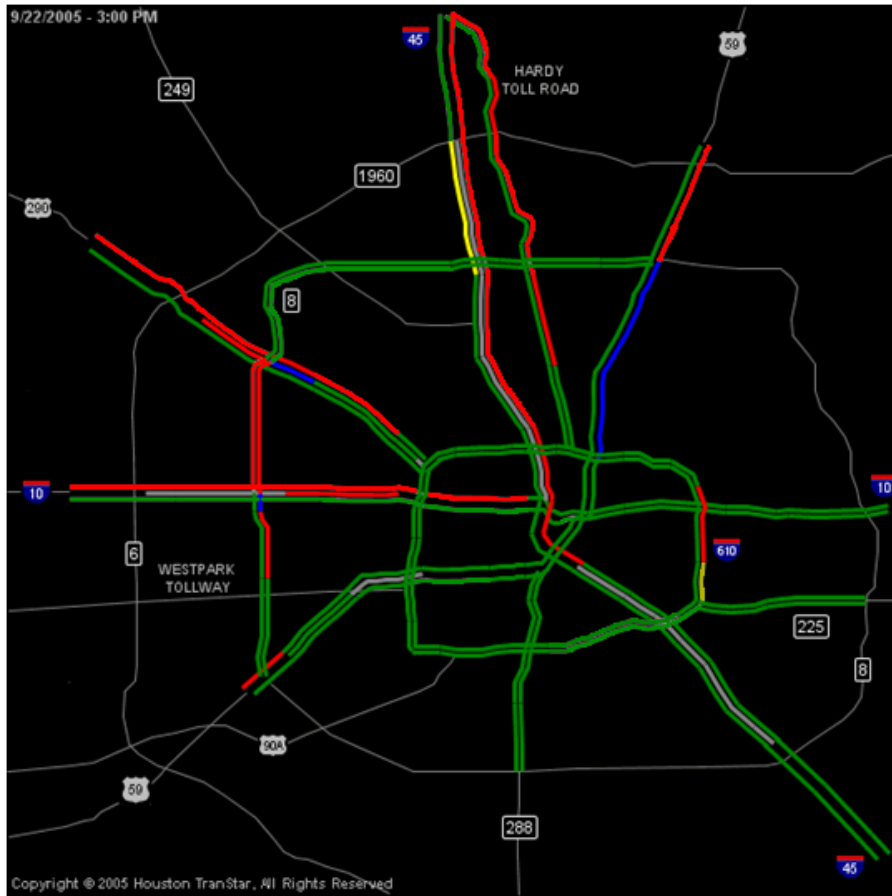


## IKE

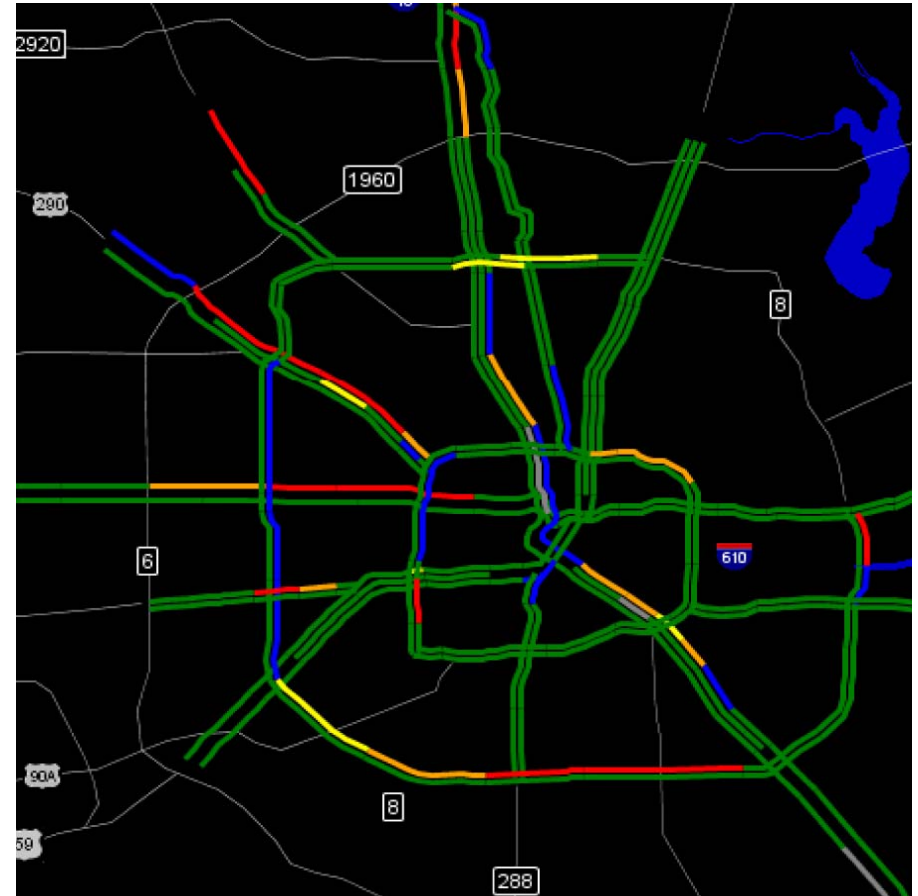


# THURSDAY – 3PM

## RITA

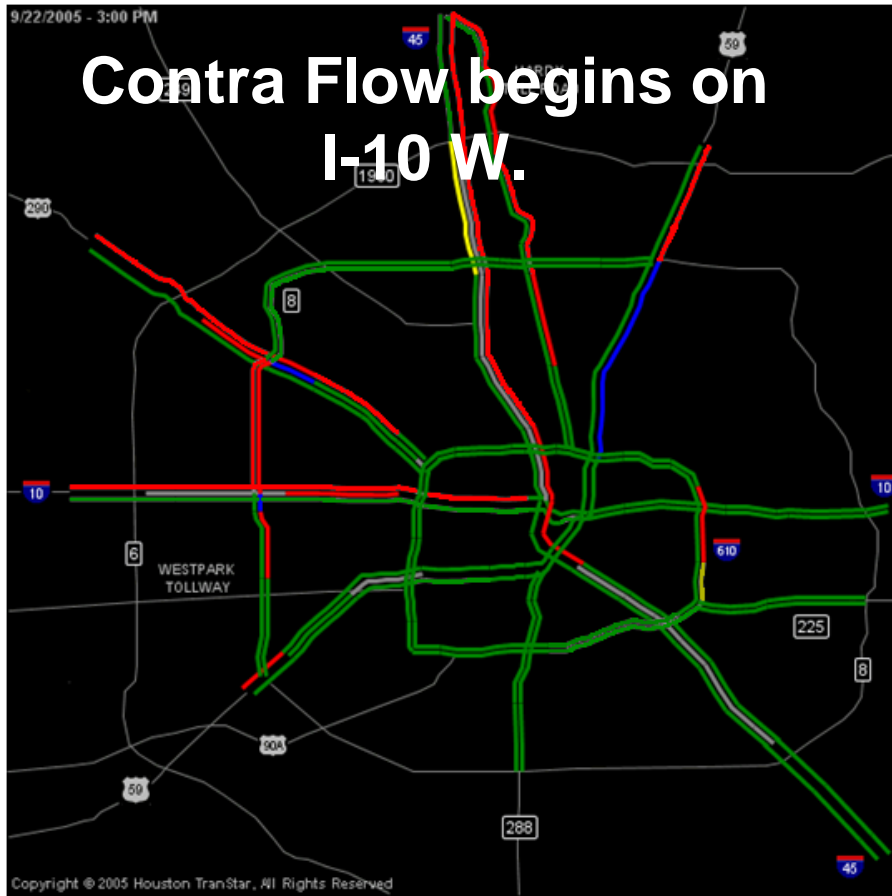


## IKE

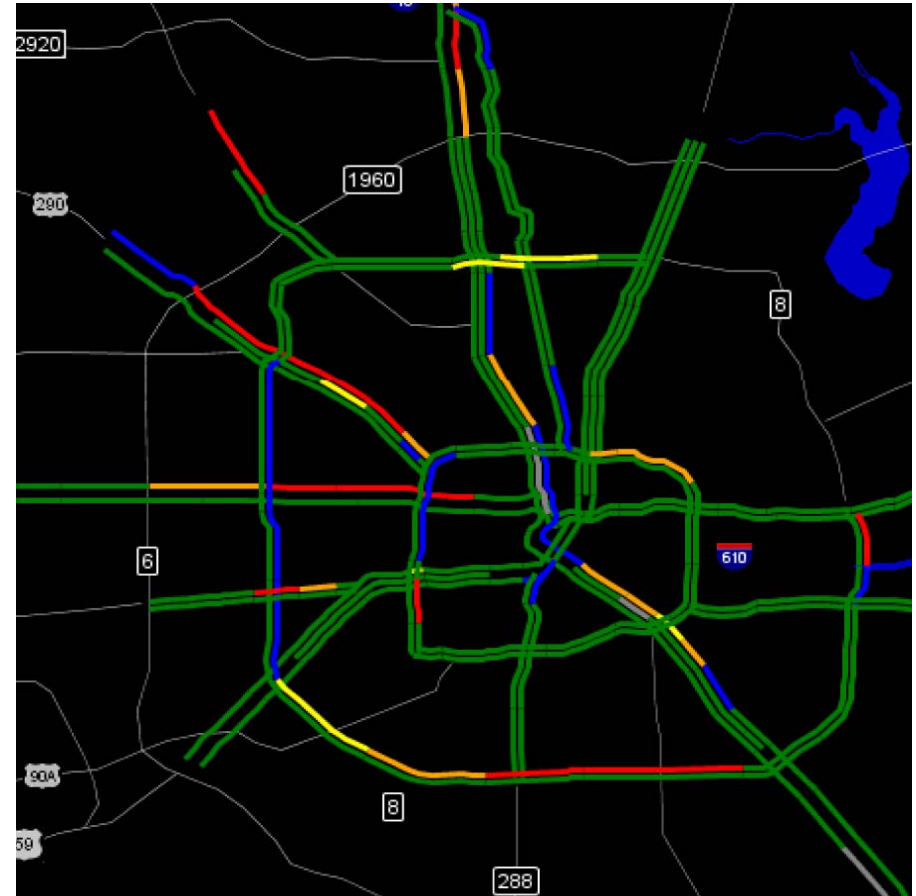


# THURSDAY – 3PM

## RITA



## IKE



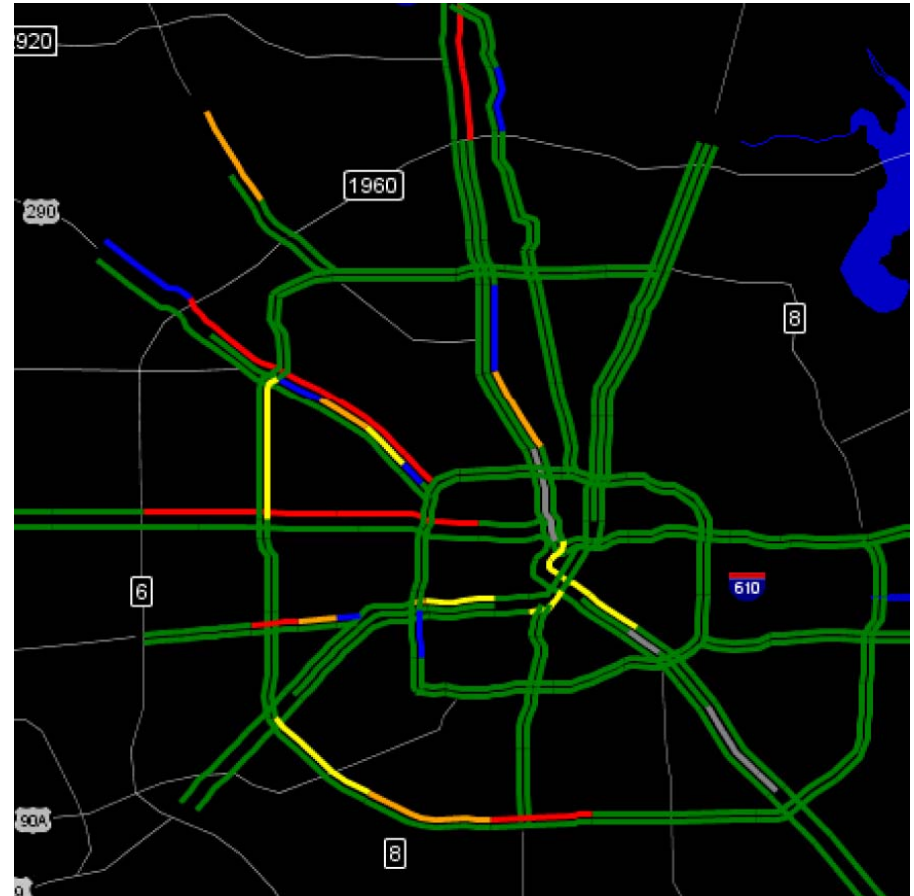


# THURSDAY – 4PM

## RITA

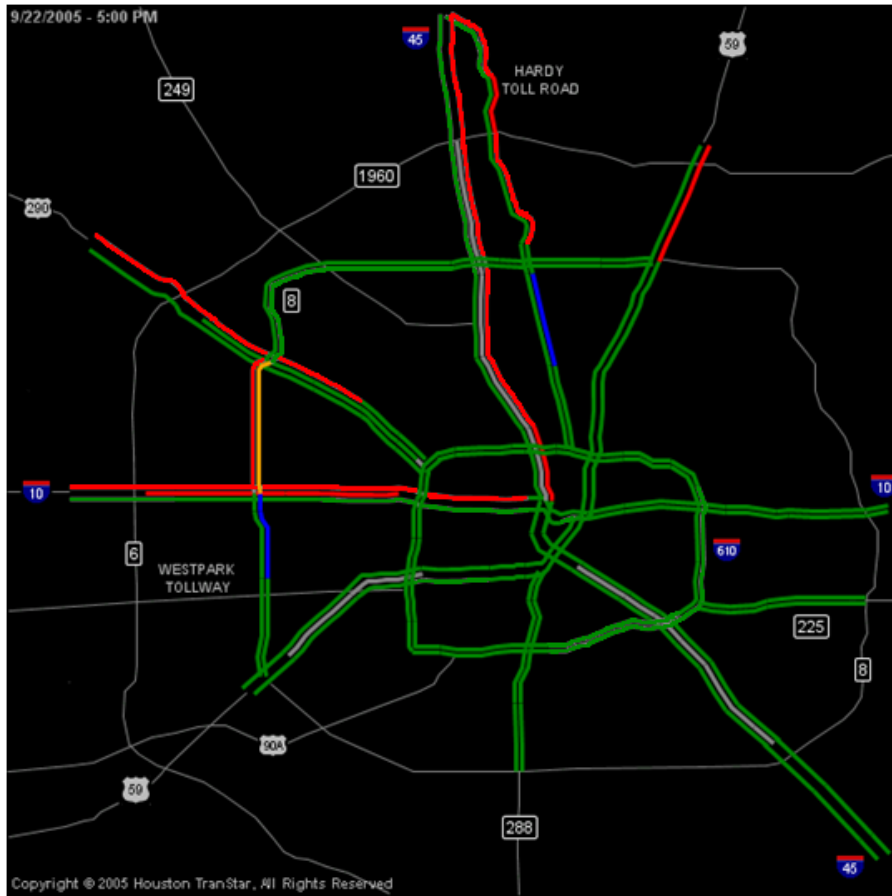


## IKE

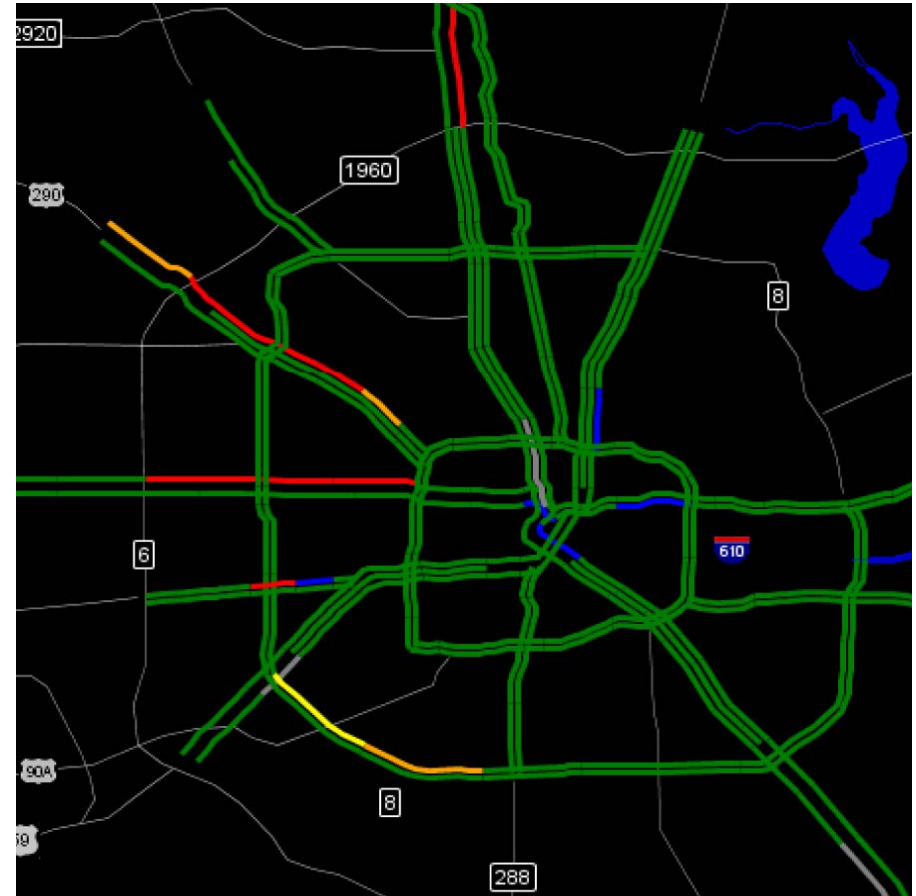


# THURSDAY – 5PM

## RITA

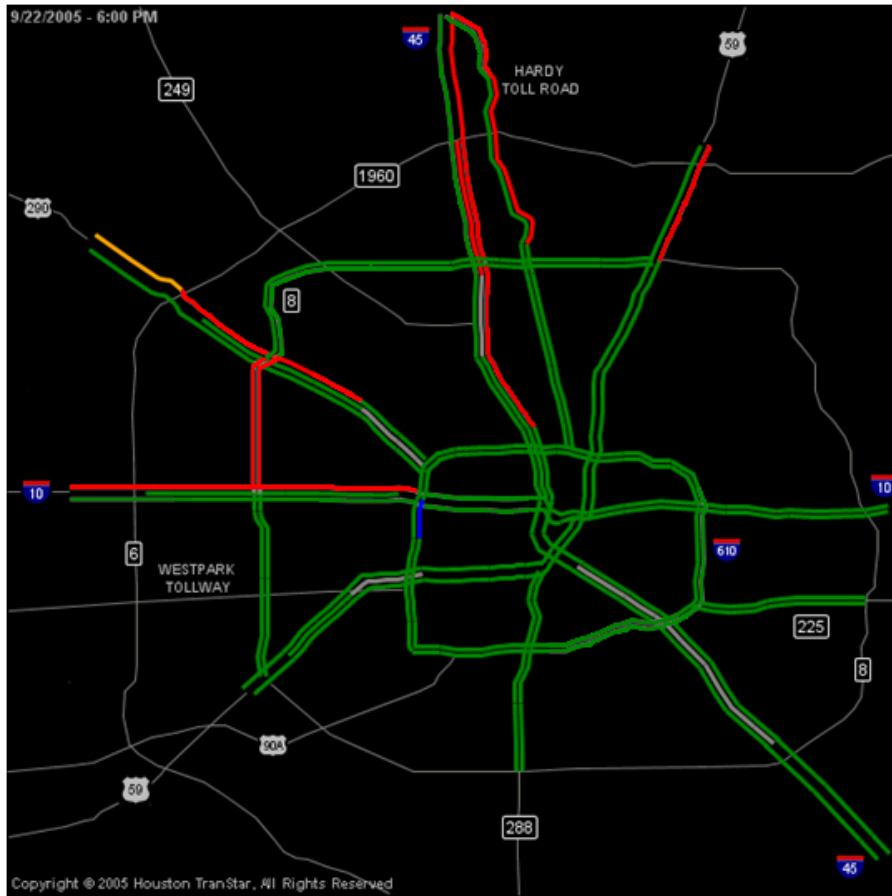


## IKE

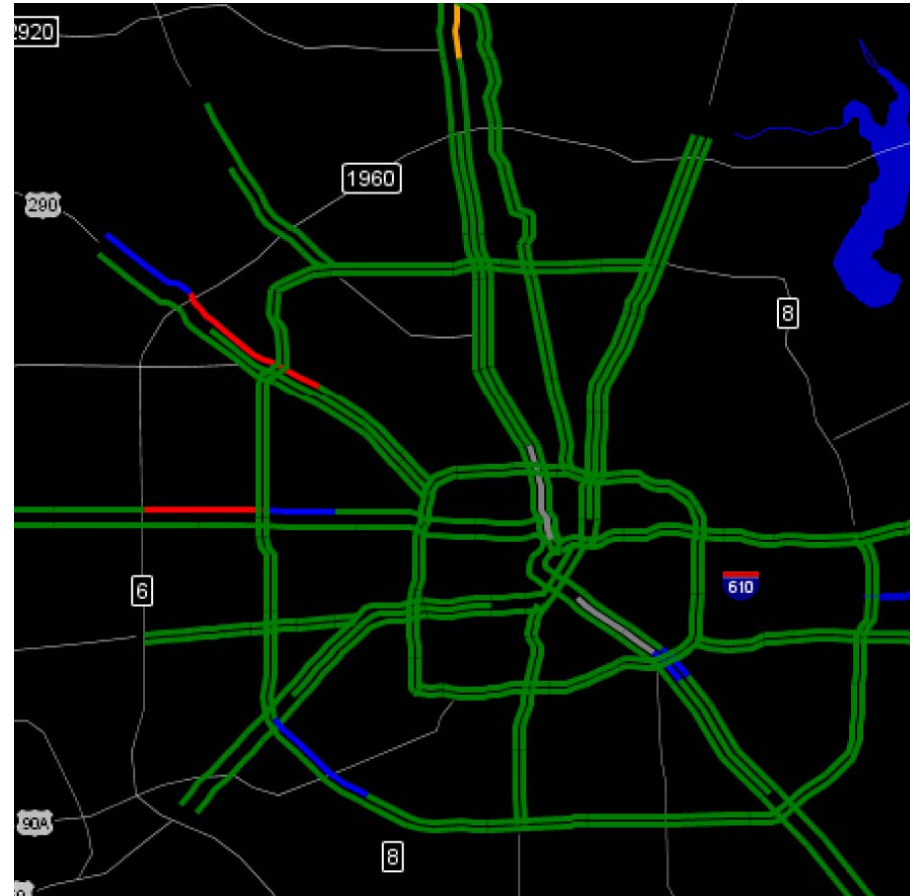


# THURSDAY – 6PM

## RITA

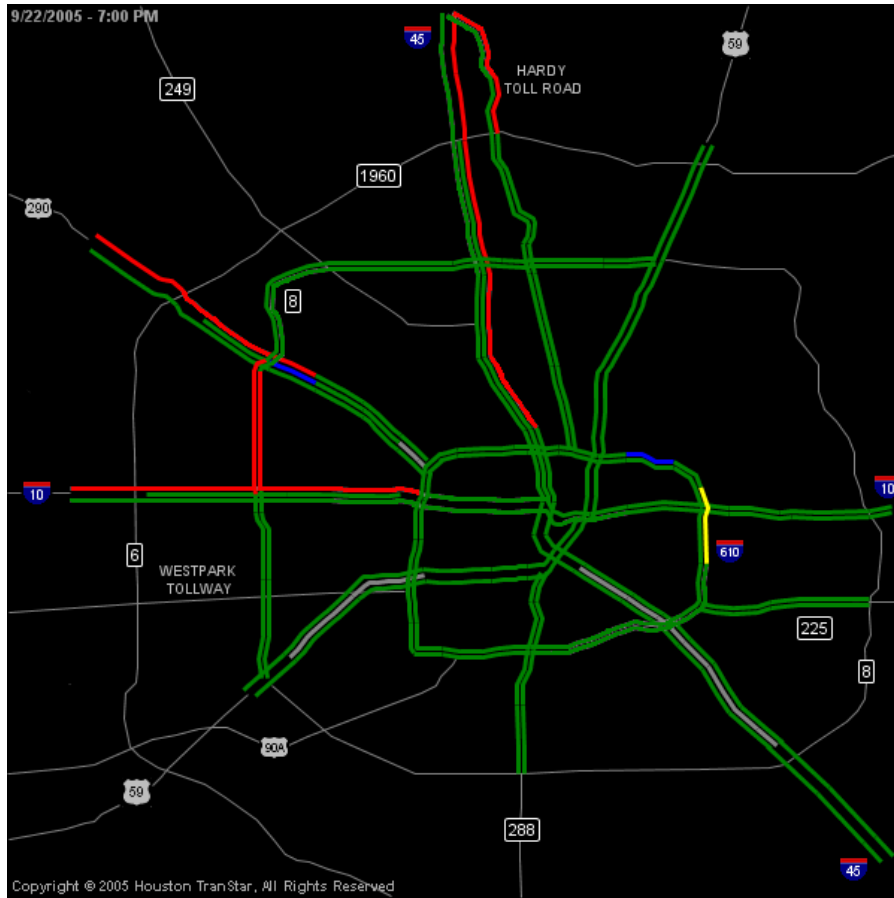


## IKE

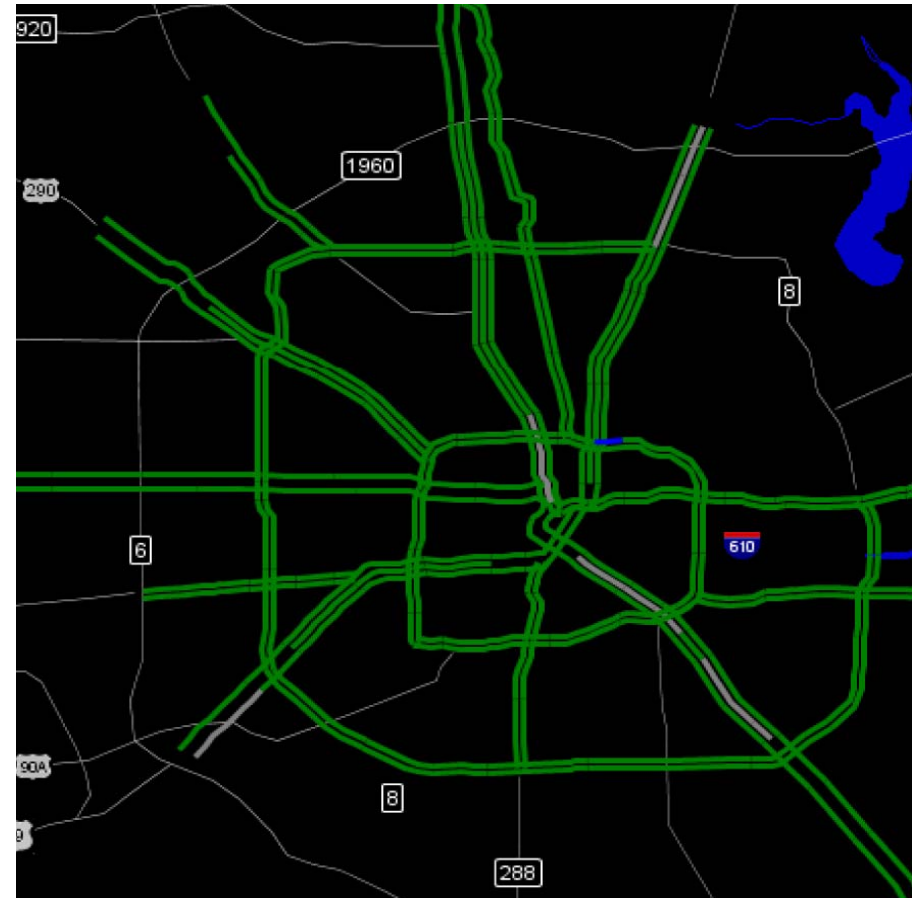


# THURSDAY – 7PM

## RITA

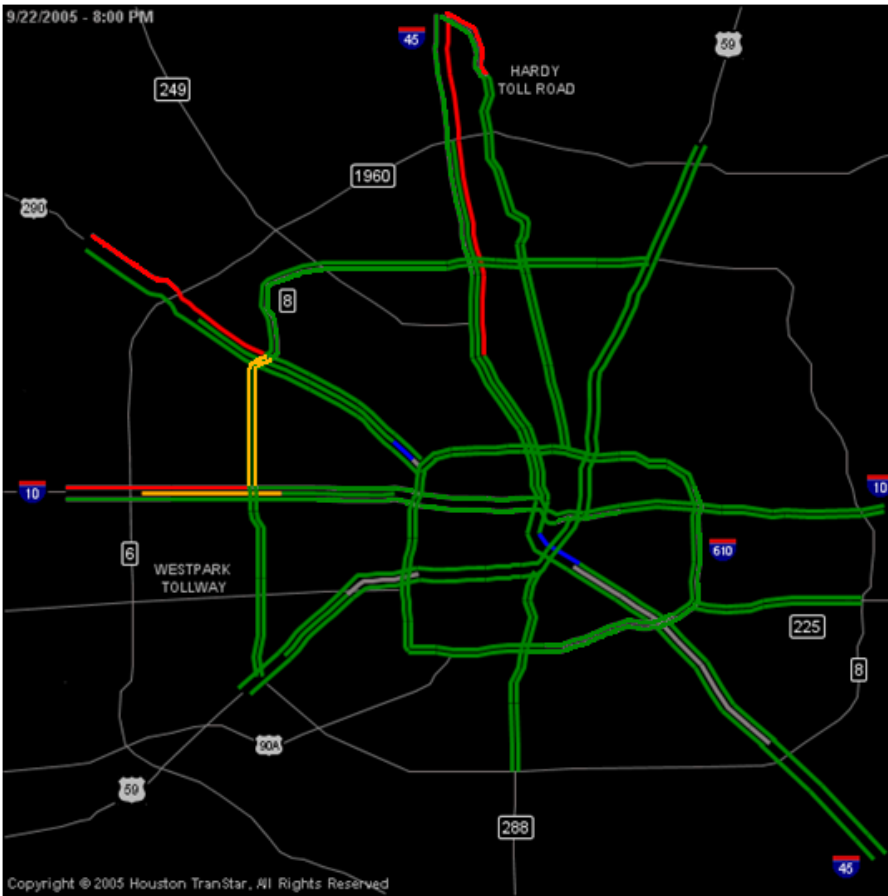


## IKE

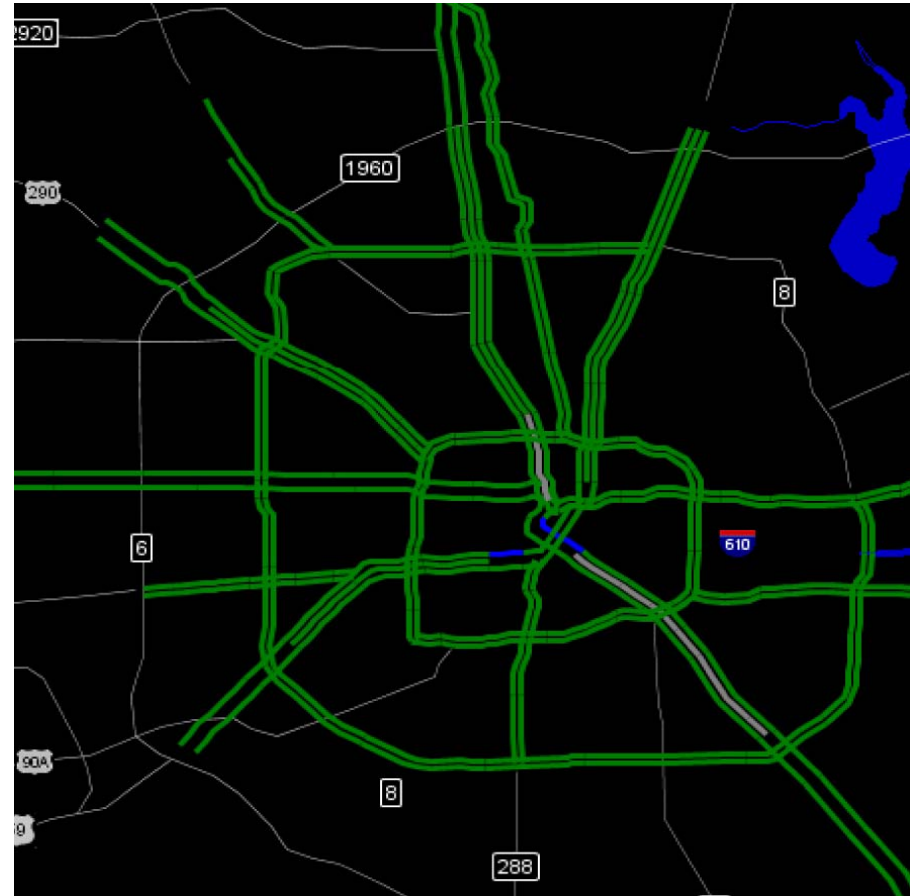


# THURSDAY – 8PM

## RITA

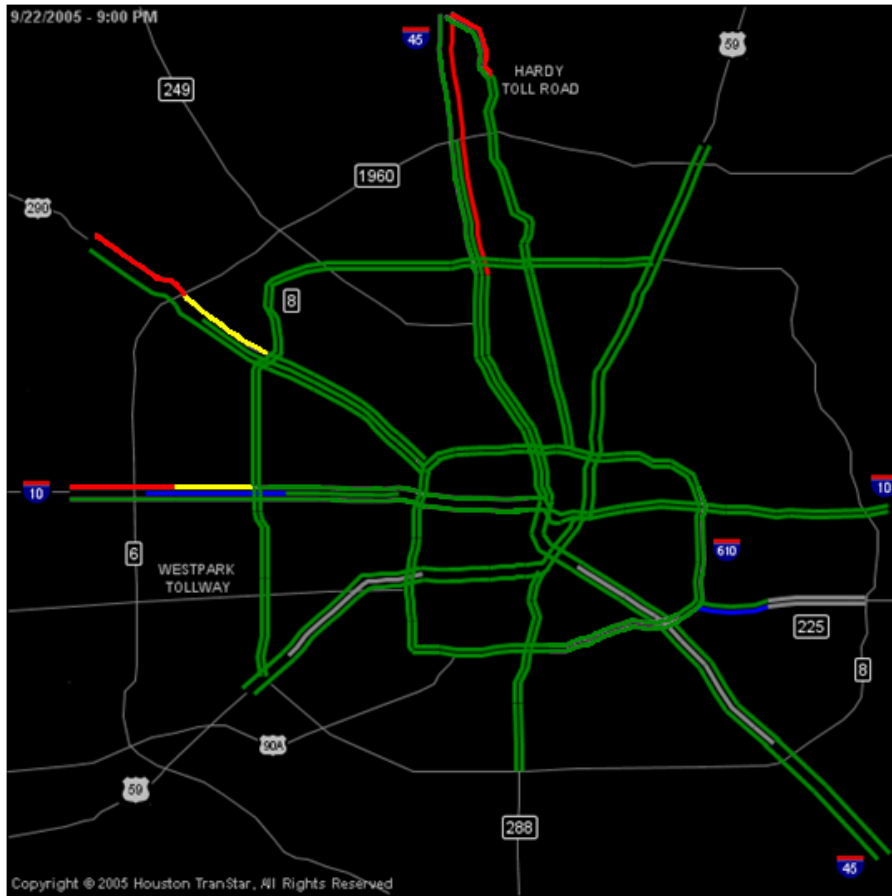


## IKE

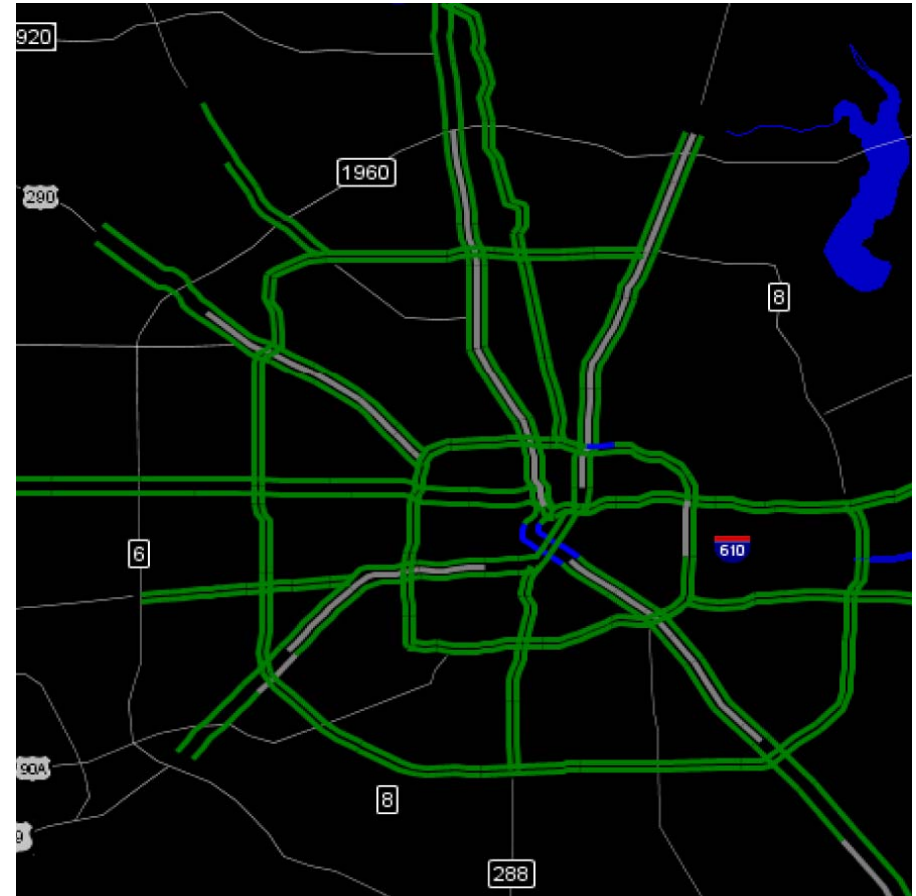


# THURSDAY – 9PM

## RITA



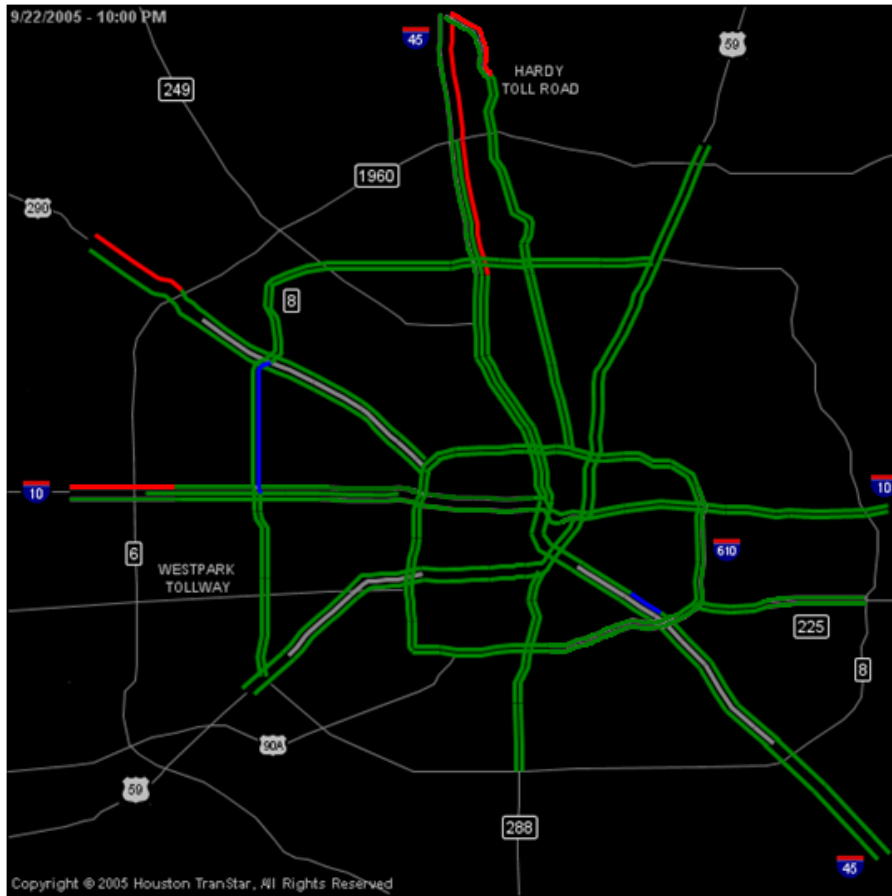
## IKE



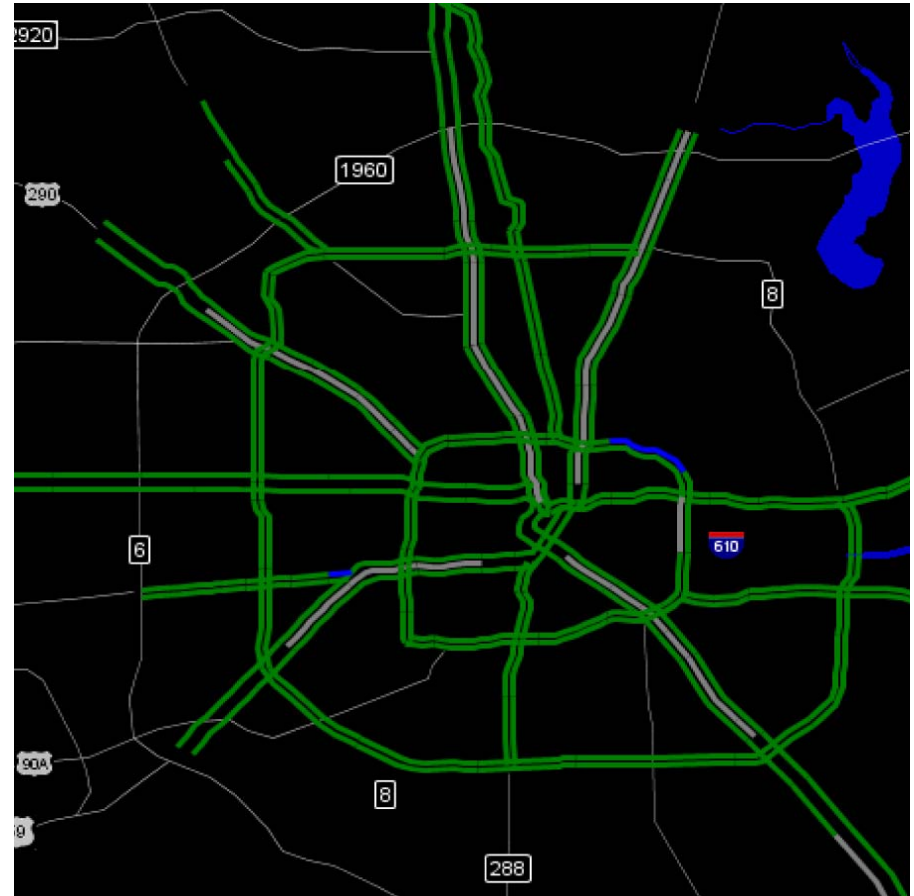


# THURSDAY – 10PM

## RITA

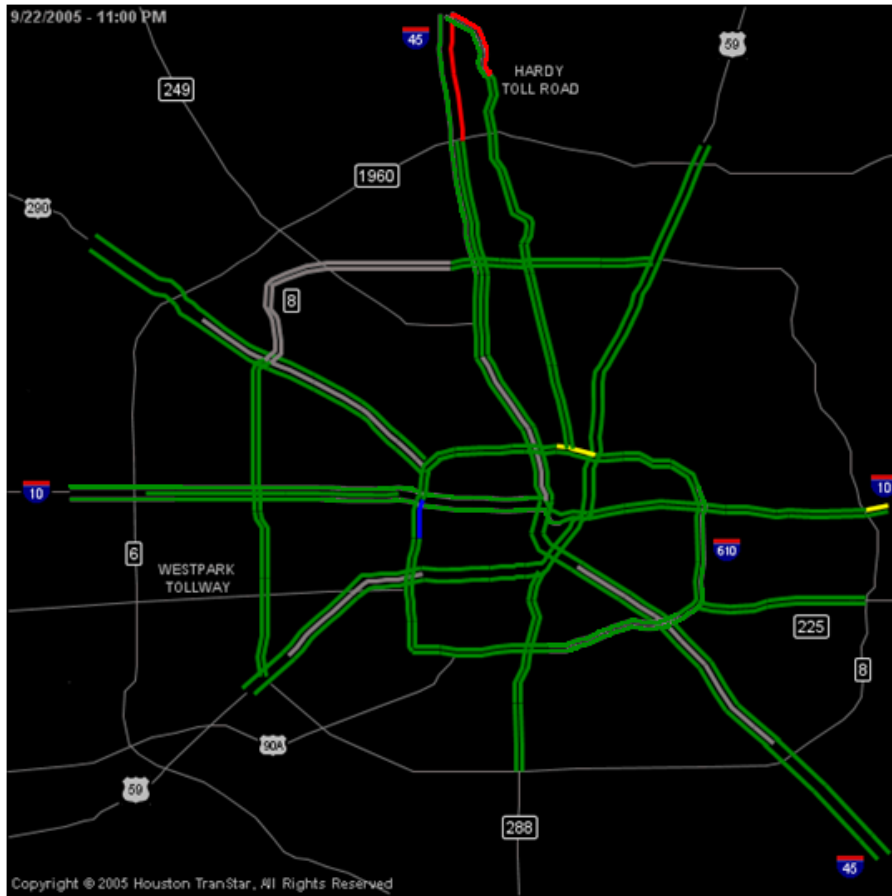


## IKE

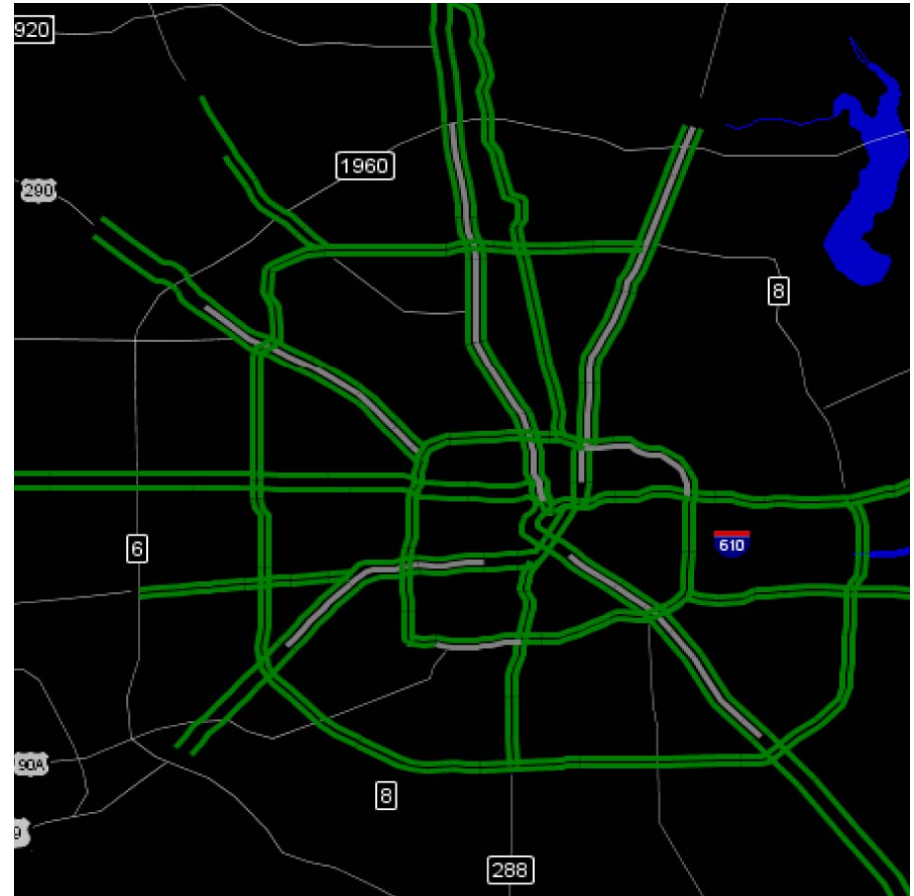


# THURSDAY – 11PM

## RITA

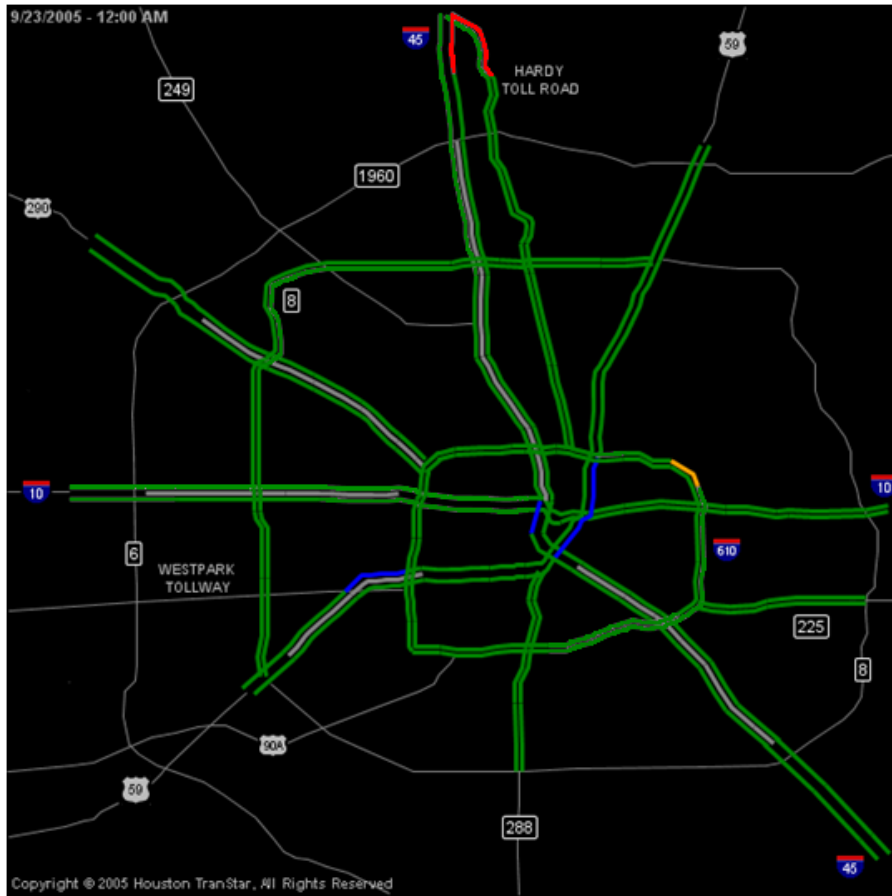


## IKE

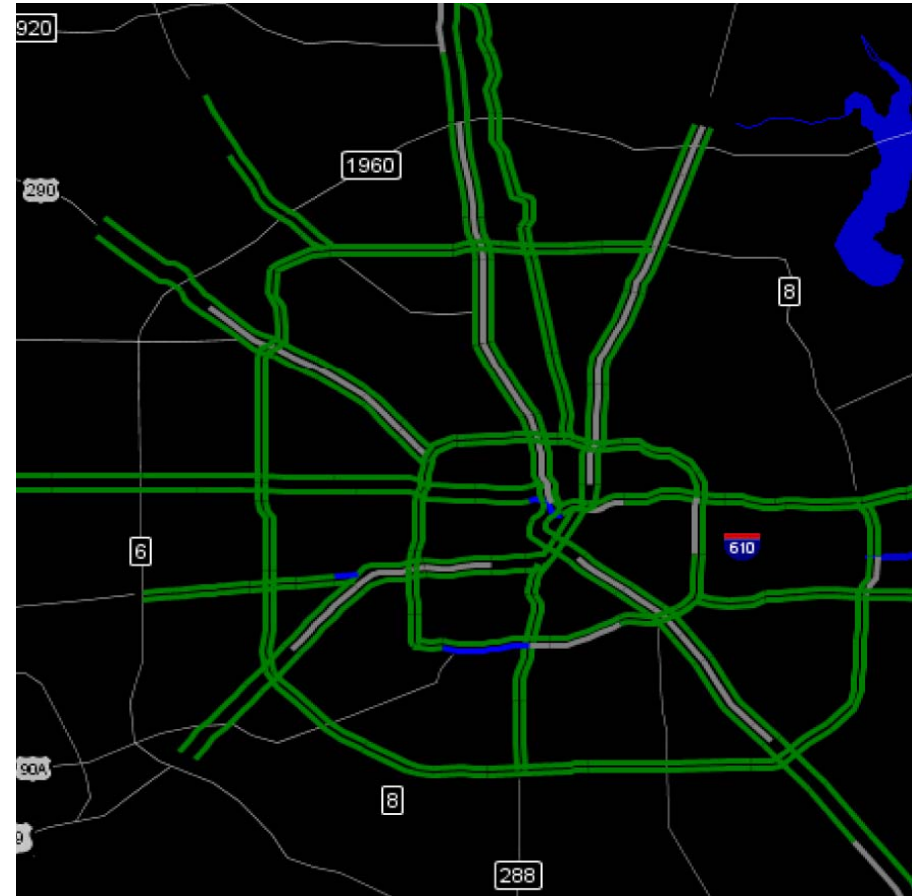


# FRIDAY – 12AM

## RITA (9/23/05)

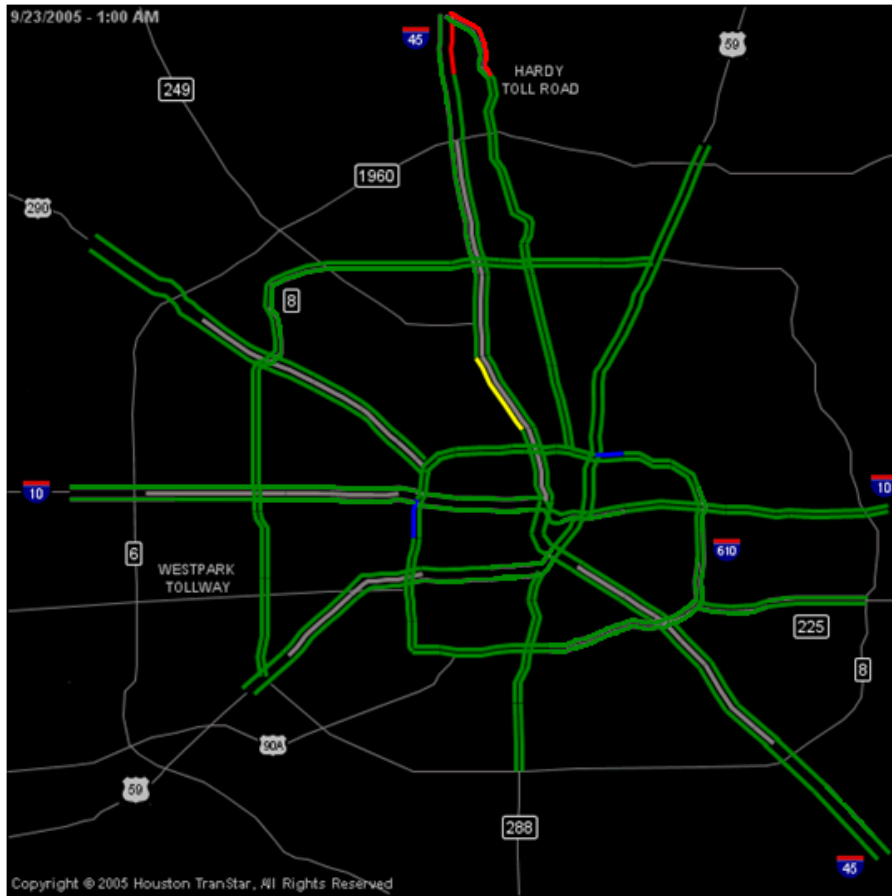


## IKE (9/12/08)

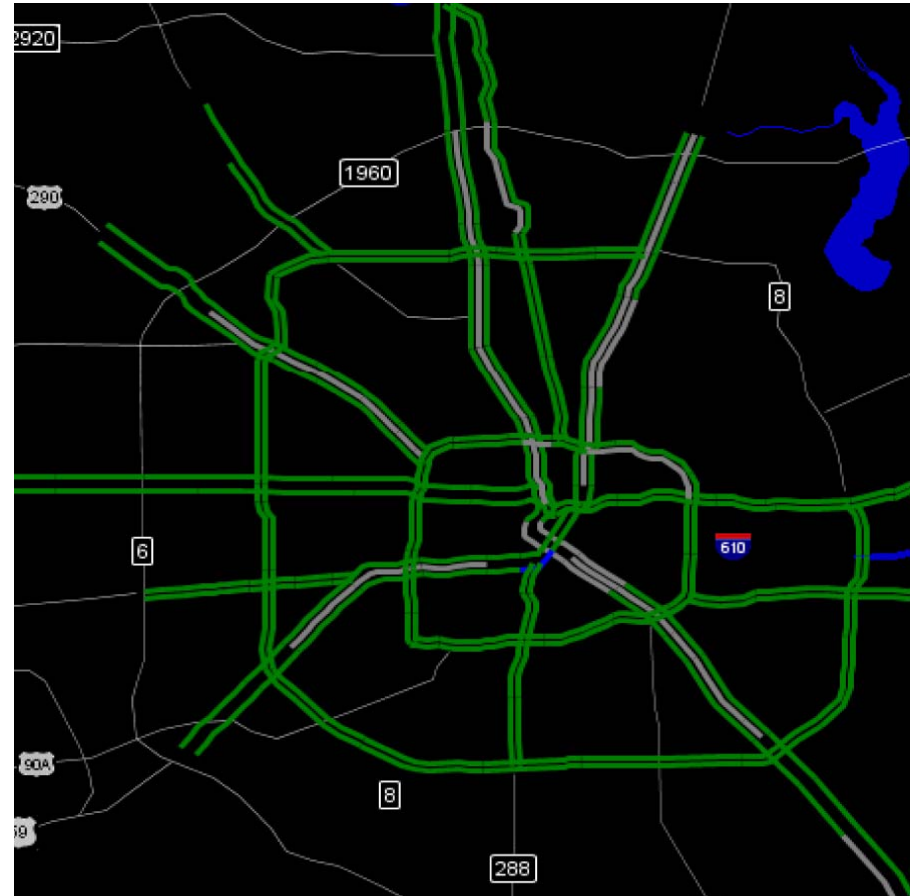


# FRIDAY – 1AM

## RITA (9/23/05)

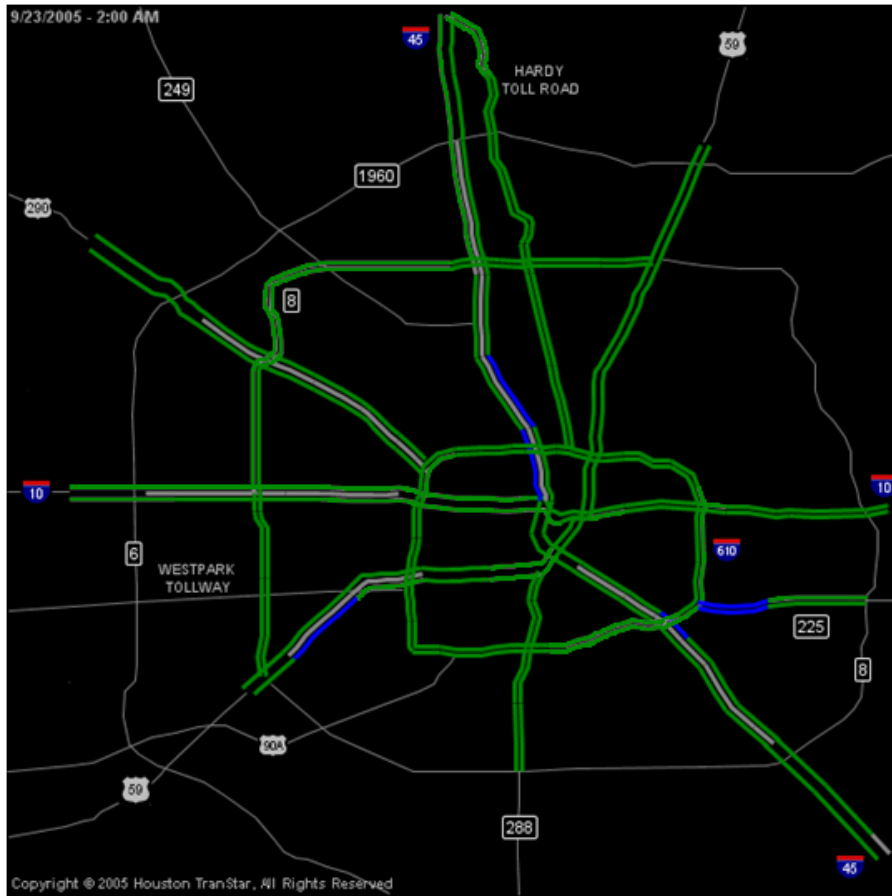


## IKE (9/12/08)

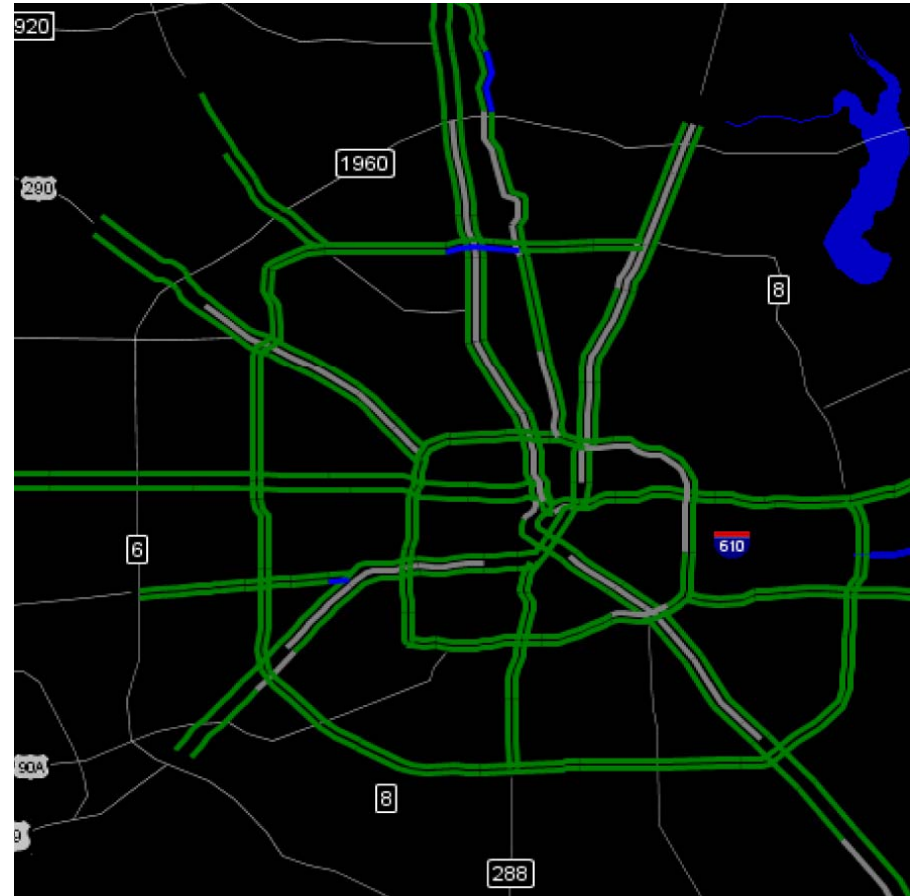


# FRIDAY – 2AM

## RITA (9/23/05)



## IKE (9/12/08)



# What Can We Do Better?

- Expanded Traffic Monitoring
  - Non-freeway, non-tollway evac. routes
  - Data storage and communications
- Out of Region Media Communications on the “Return” (When, Where, How)
- Power and More Power
  - Backup power for strategic intersections, fueling
- Identification and Evac. Coordination of Special Needs Pop.





# Hurricane Evacuation

## What Have We Learned?

