PAY AS YOU GO FOR INSURANCE, PARKING AND ROADS

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Our Purpose This Week

- Reducing our dependence on oil

vs

- Declining Gas Tax revenue
- Increasing traffic congestion

A Part of the Solution

- Smart Road Pricing
  - Meter each and every road
  - Use Smart Meters like for Electricity

- How do we charge for the roads like any other public utility?
- Charge for the roads by:
  - Place
  - Distance
  - Time of Day or Week
  - TDP

GPS in Detail

- GPS generally inaccurate
- Especially in "Urban Canyon"
- "Map Matching" typically used to counter
- Inaccurate maps?
- Map updates?

Urban Canyon

Testing Shows:

GPS Errors vs. Skymeter   Skymeter: 40 Drives Overlaid

Asian City - May 2008

Another Asian City - June 2008

Superoperability

- We must co-exist with established Tolled Assets
  - Back End
  - Front End
- Assign different amounts from toll revenue to different entities
- Be a platform for Telematics

- Enable almost any policy
  - Cordon
  - Area
  - Full TDP
  - Driver Rewards

- Toll must be fair and repeatable
  - "Financial Grade GPS"
- Collecting the toll should not cost a large % of revenues
- We must be privacy driven
- Proceeds must be clearly attributed
- Tolling technology should have multiple uses
  - To help defray costs
  - To increase utility
  - To increase the variable cost of driving