FHWA
Arterial Management Roadmap – research portion needs input from TSS committee
Traffic Signal Timing Roadmap

Generate **themes** to develop an umbrella for problem statement development

Simulation subcommittee minutes:

Ken Courage presented two programs (HILSCI and STScript). The programs can be downloaded from [http://ce.ufl.edu/HILS.htm](http://ce.ufl.edu/HILS.htm). These programs work with McCain CIDs and 170 controllers. Modifications are needed to make it work for 2070 controllers or NEMA TS 2 controllers. Ken is willing to provide source code for further updates, if anyone is interested in.

Brian Park presented microscopic simulation model calibration and validation procedure and Clara Fang presented her research work on the simulation modeling of diamond interchange and single point urban interchange. Brian and Clara also discussed limitations on existing microscopic simulation models.

Brian Park presented on behalf of Peter Martin at University of Utah on the video stream discussions (Talk shop). Status was reported and future topics and presenters were solicited.

Alex Skabardonis reported current status of simulation related subcommittees (Freeway Operations, Traffic Flow Theory, etc.). He also reported upcoming modeling conference to be held in Sedona, AZ. Ken, chair of joint simulation subcommittee,

Subcommittee members discussed gaps between microscopic simulation models and deterministic optimization tools used in the traffic signal timing optimization.

Motion made to join joint simulation committee by B. Park and approved unanimously.

Subcommittee objectives:
1. Guideline for the state-of-the-art simulation models (including how to use wisely?)
2. Hardware-in-the-loop-simulation
3. Adaptive control
4. How to use simulation?
5. US Actuated controller
6. Real-time simulation and optimization
7. Data warehouse – work with NGSIM