Fresno COG CMP Steering Committee
Meeting Notes

Date: Wednesday, July 1st, 2015
Time: 2:00 p.m. – 4:00 p.m.
Place: Fresno COG Ash Conference Room
2035 Tulare Street, Suite 201

Attendees:
Kooner Harpreet, Fresno County
Jill Gormley, City of Fresno
Ivonne Ripolle, Fresno County
Nicholas Don Paladino, Bicycling Club
Mandeep Sekhon, Fresno County
Aly Tawfik, Fresno State University
Leon Raykin, Iteris

FCOG staff:
Kristine Cai
Mike Bitner
Kai Han
Seth Scott
Angela Yang

Chair **Ms. Harpreet Kooner** called the meeting to order at 2:05 p.m.

I. Public Presentation
No presentation was made.

II. Information and discussion items

A. Welcome and Introductions
Ms. Kooner welcomed the attendees, and the attendees introduced themselves.

B. Approval of Meeting Notes
Mr. Paladino mentioned the notes need to be corrected. **After discussion everyone agreed to the corrections. Mr. Paladino** made the motion to correct the notes. Mr. Mike Bitner seconded the motion. **Ms. Kooner** called for a vote, and the committee unanimously voted to approve the motion.

C. Cell Phone Data in Transportation Planning / Map 21 Congestion Performance Measures (presented by Leon Raykin, Iteris)

Mr. Leon Raykin, Analytics Consultant with the Iteris, provided an overview of the company. Iteris is a leader in software-based information solutions for the Intelligent Transportation Systems (ITS) market. Based on the applications of the transportation industry, **Mr. Raykin**

explained the Big Data concept and what the Big Data can help. The Big Data collection process is to collect the data all the time. It has greater accuracy, with more vehicles, more times and more days of data collected. It can not only reduce the cost, but also improve sample size, which means the accuracy of analysis is better. **Mr. Raykin** provided the Iteris' forecast of the Moving Ahead for Progress in the 21st Century Act (MAP-21) performance measures implementation schedule, in which the Congestion Management Process draft rule was expected to come out by the third quarter of 2015. The Big Data could provide deeper insights for the MAP-21 performance based process, by understanding the reliability of travel times.

The committee discussed the MAP 21's definition, and the latest update. **Ms. Kristine Cai** mentioned that the Caltrans planned to conduct a big data workshop about the performance measurements on August 24th and 25th at Sacramento.

Mr. Raykin continued the presentation. The US Department of Transportation provides free big data to MPOs. The program named the National Performance Management Research Data Set (NPMRDS). The spatial coverage of NPMRDS is the National Highway System. **Mr. Raykin** listed three Big Data providers of private companies: HERE, INRIX, and TomTom. These big data sources cover the freeways & arterials. Iteris gets big data from private companies. The data type from both public and private is segment speeds. **Mr. Raykin** showed a data validation project which Iteris did for the Alameda County Transportation Commission (ACTC) using INRIX data purchased by the Metropolitan Transportation Commission (MTC) for the Bay Area. Comparing the INRIX data with floating car data, the result is very close. Iteris could provide agencies with the data validation study before using the big data. **Mr. Raykin** explained the performance of CMP study process. A screen shot of interactive web dashboard was shown. There are many additional analyses that the Big Data could support, such as vehicle hours of delay, transit analysis, and sporting events analysis.

Mr. Aly Tawfik asked a question about what kind of data source MTC purchased. **Mr. Raykin** replied that MTC purchased and shared the full INRIX dataset in the region. **Mr. Tawfik** asked the definition of the "high quality data" that **Mr. Raykin** mentioned in the Iteris data cleaning process. **Mr. Raykin** explained that the bad data was removed. The data that Iteris applied was actually filtered.

Ms. Cai added the background of CMP project. The Fresno COG used to apply the level of services for the past CMP projects. From the last discussion of the committee meeting, it seems like Fresno region doesn't have a lot of information for traffic speeds. The Fresno COG is interested in the Big Data source. For this year's CMP project, the Fresno COG only needs to apply the Big Data to monitor the CMP network. But if your cities and the County find that the big data is useful for studies and projects, the Fresno COG would like to purchase the full dataset for the entire region. So before the Fresno COG move forward with the purchase, the staff would like to see whether cities and the County are interested in the data.

Ms. Jill Gormley asked what kind of software has been used in processing the data. **Mr. Raykin** answered that the Iteris developed the dashboard by itself. **Ms. Ivonne Ripolle** asked whether the County needed to purchase the dashboard software, and whether the

software fee included the data updating service. **Mr. Raykin** answered that the data analysis is offered as a service. But if an agency wants to analyze the whole county area automatically and continuously, it is recommended to purchase the software. The data is separate from the software package. Iteris could help agencies work with data providers to purchase the data. Iteris, as a company providing the data analysis service, also offers the product (software) to automatically process the data. Mr. Raykin would like to help agencies contact the data providers.

Ms. Kooner asked a couple of questions: what the price difference is, between the CMP network dataset and the entire county dataset; is there any restriction of the data service time that the committee needs to know? **Mr. Raykin** said that, for general historical data, the Fresno COG just purchased for once to get it. The price difference question could be answered by the Iteris financial department.

Ms. Ripolle pointed out that the traffic study would be costly and sometimes the data is not available. So the County will benefit from this. **Mr. Tawfik** added that, for the major highways, NPMRDS may have covered the most part of it. But if the agencies want to see more details, Big Data is a good source. **Ms. Cai** said that the committee didn't need to make the decision during the meeting. Every committee member can consider it after the meeting.

Ms. Gormley asked whether the data could support the traffic count program. Mr. Raykin answered that the data providers don't provide the traffic volume data yet.

Ms. Cai said the Fresno COG could contact the data provider companies to get the continued data from time to time in the future.

Ms. Kooner asked everyone to think about whether their agencies want to get the Big Data.

D. Bike/Pedestrian Count Pilot Program.

Ms. Kooner opened the section.

Mr. Kai Han presented a brief overview of the program.

Mr. Paladino asked whether counters collected the count with the directions.

Mr. Han said Fresno COG purchased one set of directional pyro box and tube counter, the rest are non-directional. Based on the feedback from the cities and the County, agencies are interested in total counts.

Ms. Cai added that, now, the Fresno COG would like to buy as many counters as possible. Mr. Han said we were able to buy eight counters: four Pyro boxes and four TUBES counters. They can be used to count 4 locations at the same time. Every location will collect 2 weeks of data at least.

There are copies of a table which had the location proposal submitted by the agencies. **Mr. Han** went through the locations and explained the columns in details. The agencies were asked to narrow down to 4 locations.

Ms. Ripolle asked questions about how to process the data and whether it is needed to purchase the additional software.

Ms. Cai replied that, after purchasing the counters, the Fresno COG will have a training for counter installation and software. The work shop will be in August.

Mr. Han talked about his consideration to minimize the equipment transfer time from one agency to another. While the committee discussing the safety issue of the counters, **Ms. Cai** mentioned that the Fresno COG would like to consider ordering extra TUBES, if some are damaged.

The Fresno State University proposed four intersections, but didn't mention the count directions of intersections. **The committee** discussed that four intersections equal to 16 locations, and it might need two months to collect the data. The committee requested Fresno State and other agencies to go back to check the proposal and ensure every location had a clear direction noted.

Ms. Ripolle suggested looking into the monitoring data more frequently. If the data is all similar every day, the location could be counted by one week or so. **Ms. Cai** said the automatic data software can look into the data any day and any time. Agencies can check the data daily.

Ms. Kooner wrapped up the meeting. **Mr. Tawfik** would like to talk to the Fresno State staff first to see whether they wanted to reduce the locations, and what periods the Fresno State wanted to be count. **Ms. Cai** will send out an email asking for a maximum of four segments for collecting bike/ped counts.

E. Other Items.
None

F. Adjourn
Ms. Kooner thanked everyone and closed the meeting at 4:00 p.m.