Technical Analysis Peer Exchange (TAPE) Meeting Minutes
Northwest Wing Conference Room 1st Floor – Iowa DOT Complex
Tuesday, August 20, 2013

<u>Attendees</u>

1.	Rudy Koester	AAMPO
2.	Daya Snapp	Bi-State
3.	Aaron Bartling	DMAMPO
4.	Luke Parris	DMAMPO
5.	Dan Fox	ECIA
6.	Jake Ironside	ECIA
7.	Kris Ackerson	MPOJC
8.	Kathie Pfaffle	SIMPCO
9.	Kellee Van Bruggen	SIMPCO
10.	Brock Grenis	ECICOG
11.	Julie Pribyl	CVPD
12.	Dan Schlichtmann	INRCOG
13.	Maggie Carlin	MIDAS COG
14.	Andrew Collings	SICOG
15.	Courtney Harter	SWIPCO
16.	Angie Poole	Iowa DOT – Office of Location & Environment.
17.	Terisa Thomas	Iowa DOT – Office of Location & Environment
18.	Joe Drahos	Iowa DOT – Office of Maintenance
19.	Brent Paulsen	Iowa DOT – Office of Public Transit
20.	Laura Hutzell	Iowa DOT – Office of Rail Transportation
21.	Steven LaBedz	Iowa DOT – Office of Systems Planning
22.	Jeff Von Brown	Iowa DOT – Office of Systems Planning
23.	Eric Wilke	Iowa DOT – Office of Systems Planning
24.	Phil Mescher	Iowa DOT – Office of Systems Planning
25.	Hermes Diaz	Iowa DOT – Office of Systems Planning
26.	Mark Hansen	Iowa DOT – Office of Systems Planning
27.	Lori Judge	Iowa DOT – Office of Systems Planning
28.	Adam Shell	Iowa DOT – Office of Systems Planning
29.	Brad Cutler	Iowa DOT – Office of Traffic & Safety
30.	Eric Abrams	Iowa DOT – Performance & Technology Division
31.	Matt Haubrich	Iowa DOT – Performance & Technology Division

<u>**Agenda**</u>

PowerPoint Presentations given at the meeting can be viewed online by going to the following link and clicking on the drop down for _Technical Analysis Peer Exchange (TAPE)_: http://www.iowadot.gov/systems_planning/planning_resource_guide.html

1. Intro, Background, and intent of TAPE
    a. Kris Ackerson (MPOJC) introduced the group, explained the background and intent of the group. The Technical Analysis Peer Exchange (TAPE) will be a forum for Regional Planning Affiliation (RPAs) and Metropolitan Planning Organization (MPO) staff to meet, network, present work and share ideas in how to improve technical processes.

2. Visualization with Google Maps – Dan Schlichtmann (INRCOG)
    a. Dan gave a demo on the use of Google Maps as an alternative map publishing platform (compared to GIS software such as ArcGIS products). Dan showed how Google Maps could be used to inform the public of new projects in the Transportation Improvement Program (TIP) and transit route and schedule information can be updated to the Google General Transit Feed Specification (GTFS).

3. Environmental Justice Analysis – Aaron Bartling (DMAMPO)
    a. Aaron gave a presentation on the DMAMPO's efforts in analyzing environmental justice (EJ) as part of their long range planning efforts. Aaron explained how the MPO determined areas that are considered EJ, which is based on the Delaware Valley Regional Planning Commission (DVRPC) eight degrees of disadvantage. The presentation also covered how EJ is incorporated into the long range transportation plan, how EJ areas are involved in the public involvement process, and a discussion of the distribution of transportation funds in EJ and non-EJ areas.

4. Location Suitability Analysis – Kris Ackerson (MPOJC)
    a. Kris gave a presentation on the City of Iowa City affordable housing location suitability model, which is used to determine sites for future subsidized housing. The presentation provided a brief overview of subsidized housing issues to provide context for the GIS project. He outlined the variables that were incorporated into the raster analysis and described the weighting of each variable, as well as the identification of a threshold for federal funding eligibility.

5. New Access to Data for Planners – Eric Abrams (Iowa DOT)
    a. Eric gave a presentation on the Iowa DOT's efforts to provide more data that is easily accessible via the Internet or the cloud (ArcGIS online). Eric showed how the Iowa DOT is utilizing ArcGIS server to provide web map services (WMS) and web feature services (WFS) of various information including administrative boundaries (city, county, section etc), infrastructure (aviation, road centerline, and road structures), and remote sensing (aerial photography and LiDAR).

b. Eric spent some time explaining rest endpoints and how they are used to publish data to the Internet so users can consume data online without having to download separate shapefile or like-data to their own computers or servers. He also showed how the Department is utilizing ArcGIS Online to publish maps and data for GIS users to consume. The following links were provided by Eric:
    i. GIS Downloads
        1. http://www.iowadot.gov/gis/downloads/default.aspx
    ii. REST end points (work in progress)
        1. https://geonexusr.iowadot.gov/ArcGIS/rest/services
        2. http://services.arcgis.com/8lRhdTsQyJpO52F1/ArcGIS/rest/services
    iii. Iowa DOT ArcGIS Maps
        1. http://iowadot.maps.arcgis.com/home/
c. Eric explained the Iowa DOT is building a library of data and most of this data is available internally to Iowa DOT staff. However, the goal is to provide this information to external users of the Iowa DOT. To determine the interest and priority of data needs, Eric went through each dataset and asked the group of their thoughts. The following is a summary of that discussion:
    i. Aerial Imagery
        1. There was strong interest, especially for agencies that have experienced flooding in recent years and aerial imagery doesn't look normal due to flooded water features.
    ii. Aviation
        1. At first, people didn't understand what data is available but when Eric explained that runway and flight zone data (i.e. 'Part 77') are available there was a consensus that this data would be useful.
    iii. Base Map
        1. Eric explained there are various base maps (color and black & white) available that can be used in lieu of aerial photography which appeared to the primary base data used for mapping.
    iv. Crash Data
        1. Very strong interest in this data and significant discussion on how it could be used.
        2. The information is similar to that used in the Crash Mapping Analysis Tool (CMAT) and is already summarized by crash type (injury, property damage, and fatal).
    v. Communication Towers
        1. No real feedback
    vi. Environmental
        1. Strong feedback on the need for various NEPA data including wetlands.
    vii. Five Year Program Projects
        1. Strong interest in this data which led to a discussion of how to get spatial information from the Transportation Program Management

System (TPMS). Eric informed the group has a meeting planned with staff from the agency that developed the TMPS and will communicate thoughts and discussions from the meeting.

    viii. GIMS History
1. Eric explained the re-design of data and what's available.
2. There is interest in having historical traffic data – see comments below on the turning movement data.

    ix. Historic Imagery
1. Available from Iowa State University (ISU) but no feedback.

    x. Project Imagery
1. Some interest.

    xi. Pavement Data
1. Strong interest.

    xii. Rail Lines
1. Strong interest.

    xiii. Structures
1. Strong interest.

    xiv. Turning Movement
1. Strong interest and lots of discussion on traffic data in general.
2. Eric also showed how the turning movement information can be queried using ArcGIS online.