Summary

Revolutionizing Transportation Planning: A Hands-On AI Workshop

September 23, 2024

Broward MPO
Metropolitan Planning Organization

AMPO

SUMMARY

Overview

Statement of Purpose

On Monday, September 23rd, BMPO and AMPO hosted **15 representatives** from MPOs around the country in Salt Lake City prior to the official kickoff of the annual AMPO conference.

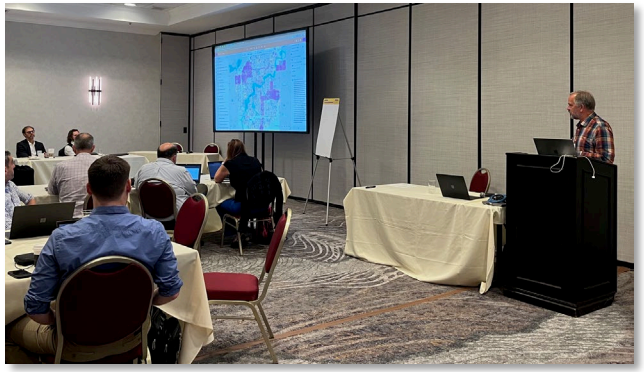
The half-day session provided an opportunity to seek **industry leader insights** on critical design decisions for BMPO's new AI-enabled geospatial analysis platform, SMART METRO.

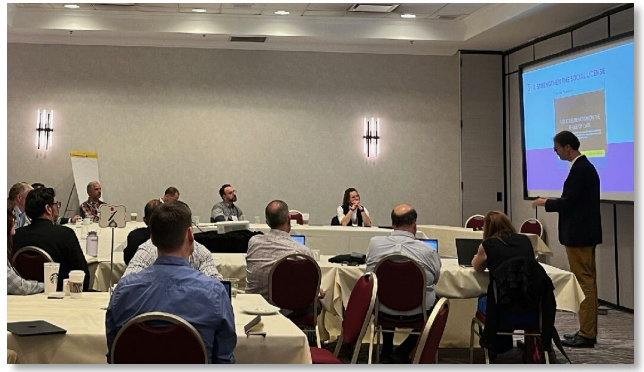
During the workshop, the group focused on:

Empowering MPO leaders to drive meaningful change through AI-technology adoption in efforts to build a more resilient and sustainable planning future.

Participants

- Jacob Riger, Denver Regional Council of Govs
- Edward Brown, AZMAG
- Dennis Farmer, Metropolitan Council
- Parag Agrawal, Mid-Ohio RPC
- Lyn Erickson, National Capital Region TPB
- David Behrend, NJTPA
- Matt Johns, Rapides Area Planning Commission
- James Corless, SACOG
- Sarah Dominguez, SCAG
- Brent Christian, Tetra Tech
- Stefaan Verhulst, GovLab
- Sam Blanchard, UrbanSim
- Paul Waddell, UrbanSim
- Samuel Maurer, UrbanSim
- Andrew Gruber, Wasatch Front Regional Council
- Bill Hereth, Wasatch Front Regional Council
- Bill Keyrouze, AMPO
- Jason Pavluchuk, AMPO
- Katie Economou, AMPO
- David Giguere, ARC
- Ashby Johnson, CAMPO
- Erin Aleman, CMAP
- Michael Ruane, DVRPC
- Greg Stuart, BMPO
- Andrew Riddle, BMPO
- Carol Henderson, BMPO
- Paul Calveresi, BMPO
- Anant Dinamani, Deloitte
- Melissa McConnell, Deloitte
- Naveen Juvva, Deloitte
- Emma Pattiz, Deloitte
- Paige Fackler, Deloitte





AMPO ANNUAL CONFERENCE 2024

Broward MPO Metropolitan Planning Organization

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Key Conversations

Introduction + Technology

- **Session Goals:** Shared intentions for the workshop and level of familiarity with the subject matter
- **Project Vision:** Elaborated on shared challenges and opportunities for an integrated planning tool
- **SMART METRO Overview:** Detailed project team, platform capabilities, component technologies, and potential use case applications

Data Governance + Collaboration

- **Introduction to Data Governance:** Observed summary of industry
- **Lessons Learned:** Best practices and case studies across private and public sectors

Operational Model

- **Design Decisions:** In breakout groups, discussed options for how BMPO can most effectively address technology implementation, data governance, and platform operations

SUMMARY

Key Takeaways

MPOs face an increasingly complex planning landscape and recognize a need for innovative solutions. Industry leaders are leveraging advanced AI analytics and new technologies. To unlock their capabilities, BMPO must advance technology, governance, and operating decisions during SMART METRO development.

Technology

Services | What services should BMPO offer alongside SMART METRO?

- Train the trainers and bring back to MPOs; training should break status quo
- Provide technology assistance
- Lean on partner capabilities

Scope | What planning use cases should SMART METRO support?

- And Really long range
- Operations of road network
- Safety
- Local community needs
- If/then scenarios for existing MPO programs
- Future proofing
- Immediate and Local Needs
- Evaluate projects at community meetings
- Corridor planning
- Economic market analysis

Governance

Geography | How broadly should SMART METRO be deployed?

- Start small, show value, then expand
- Consider if State should be owner of data

Data Collaboration | What governance approach will best facilitate data sharing across and among agencies?

- Create templates for data sharing, data standards
- Identify and resolve data gaps
- Regional
- Federated
- To scope how data can be used, Interoperability of data

Operational Model

Fees | How should SMART METRO users pay for platform access?

- Fee for service
- If Federal money to develop, confirm that it doesn't have to be free
- Subscription service scaled based on size / frequency / uses
- Data sharing in lieu of fees / in kind

Ownership | How should BMPO measure SMART METRO effectiveness and success?

- Did you solve problems? Did you influence policies?
- Efficiencies gained in process

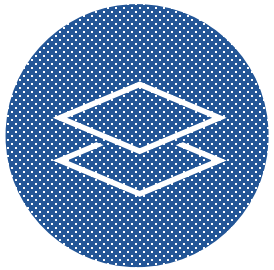
SUMMARY

Workshop Summary

DATA COLLABORATION & ANALYTICS

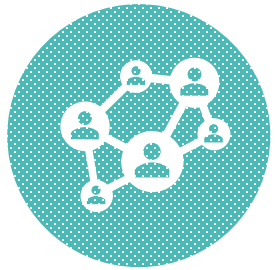
- Industry **leading technologies**, powered by valuable public data, bring insights into **one place**
- Sample applications include **travel demand modeling** but can apply to **other use cases** relevant to MPOs
- **User interface** making data accessible to range of MPO staff and partners

MODEL SIMULATION & SCENARIO PLANNING



- Easily **select and view** data layers across transportation, demographics, and land use
- Rapidly run, visualize, and compare **scenarios**
- Integrate **additional data layers** based on project needs

RENEWED REGIONAL GOVERNANCE



- Technology implementation relies on proper **data management**
- Examples from **public and private** sectors provide replicable frameworks for data sharing and stewardship
- Establishing strong governance supports **interagency engagement** driving shared insights

Looking Forward:

1. **Survey |** Please complete the survey that has been sent to your email so we can continue to improve SMART METRO communications.
2. **Workshops |** Over the next year, additional workshops will be held on SMART METRO progress. We value your continued feedback!
3. **Continued Conversation |** Please reach out to Andrew Riddle (PM) via email with questions or follow-up (riddlea@browardmpo.org)

