The Transportation Information Gateway
An Open Source Web Platform for Collaboration in the Planning Process

presented to
AMPO 2017 Annual Meeting

presented by
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Agenda

- Planning Context and Challenges
- NYMTC’s Vision and the Project Objective
- Development Approach
- Results
- Looking Ahead
NYMTC Planning Context

Planning Area:
- New York City
- Lower Hudson Valley (3 counties)
- Long Island (2 counties)

10 Voting Members:
- New York City DOT
- New York City DCP
- Five suburban counties
- New York State DOT
- Metropolitan Transportation Authority
- Port Authority of New York & New Jersey

6 Additional Advisory Members
Challenges

- Communication
- Collaboration
- Consensus building
- Relevance
NYMTC’s Vision for a Transportation Information Gateway

- Develop an intelligent, integrated, and user-friendly system that:
  - Integrates relevant data and information from multiple sources
  - Provides user-friendly tools to support planning
  - Improves the efficiency and effectiveness of regional planning
  - Promotes effective communication among stakeholders, including the public
NYMTC’s Vision for a Transportation Information Gateway

- Improve the transportation planning process

- Regional Plan
- Project Planning
- CMP and Conformity
- Performance Measures
- TIP

CAMBRIDGE SYSTEMATICS
Data vs. Information
Narrow Project Objective

- Develop a flexible, expandable planning data warehouse to **support NYMTC’s core planning functions**
- Deliver web and mobile applications for visualization, reporting, and public outreach – **make data accessible**
- Provide secure data sharing and collaboration tools – **versioning, archiving, downloading**
- **Establish a regional “hub”** for active, engaged members of the transportation community
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Agile Development Approach

- Functional and technical requirements developed by NYMTC prior to RFP release
- After project launch, extensive pre-development outreach to NYMTC members to validate requirements
- Iterative development with seven design sprints
- Thorough and transparent documentation of user input and feedback between each iteration
Benefits of Agile Approach

Process supports:
- Increased communication and collaboration
- Continuous feedback
- Greater transparency

End results:
- Meet client needs more effectively
- Achieve objectives faster and more efficiently
Sprints – the Agile Building Block

Two to three weeks, end to end
Sprints Build Up to Releases
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Results: Catalog and Dashboard

You are currently viewing 4 of the 28 available data sources in the Gateway. Create an account or log in to see more.

**Catalog Summary**

Showing Top 8 Most Frequently Accessed Sources

- Hub Bound Travel Data...
- 2040 SED TAZ Level Forecast Data...
- Acceptance Test Source Edited...
- 2050 SED County Level Forecast Data...

**Recent Activity**

- Feb 26, 2016 1:10pm: AT Agency User 1 commented on 'Hub Bound Travel Data - 2007-2014'
- Feb 26, 2016 1:09pm: AT Agency User 1 commented on 'Hub Bound Travel Data'
- Feb 26, 2016 11:54am: AT Contributor 1 updated 'Acceptance Test Source Edited'

Show More
Results: Data Mash-ups
Results: Performance Measures
Results: Performance Measures

NPMRDS (current: 12:00 - 13:00) : Year: 2016, Month: July, Day of week: Tuesday, Vehicle class: All Vehicles

Area: All - Data
Results: Custom Study Areas
Lessons Learned

- User interface is not everything!

- Start with data controlled by and most used by MPO staff

- Check in with stakeholders often
  - Involve people outside core “power users” group

- Be transparent and forthright about which features and “bugs” will and will not be incorporated into each iteration
  - …and also set expectations about final product vs. future phases
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Future Potential Improvements

- More reports, more filters, more overlays

- Additional data
  - Particularly related to performance measures (national and regional)

- Collaboration and work flow management capabilities
  - Submission and review of project data (UPWP, RTP, TIP, conformity) to improve Planning Consistency
  - Simultaneous review and comment by member agencies (e.g., draft SED forecasts, model run outputs)
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