Applications and Data Environment Breakouts: Introduction

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• Application Concepts
• Breakout Exercises: Ground Rules and Background
• Role of Stakeholder Input
• Breakout Group Organization
• Questions
Application Concepts
Goal
• Identify, with help of stakeholders, collection of applications for development and testing in Phase 2 of Program

Approach
• Solicit ideas for transformative applications that improve decision making by system managers and users
  – Initial request closed on 31 July; second call closed 15 October
  – More than 90 submittals received
• Summaries are available on the web:
  – http://dma.noblis.org
• Thank you to everyone who took the time to submit an idea
Consolidating Applications Concepts

• 90+ application concepts are too many to consider in a single workshop
• Some ideas were out of scope for Dynamic Mobility Applications
  – Active safety referred to IntelliDrive Safety Program
  – Data-specific ideas referred to Data Capture Program
• Many ideas were similar or variants of a single concept
• Consolidating and merging in-scope applications resulted in 33 concepts
  – One page write up on each concept in your participant booklet
  – There is still some overlap and clear connections between some ideas
• Making yourself familiar with these 33 concepts will enhance your participation in the breakout sessions (but not required)
In order to conduct meaningful research on promising applications, the Dynamic Mobility Applications program must:

- Effectively leverage research data (collect once, use many times)
- Look for synergies between applications
- Balance near-term risks and long-term impacts

Our breakout exercise this afternoon addresses these issues:

- Applications grouped around similar data environment concepts

We want your individual and collective feedback on each concept:

- **Potential Impact:** will this application have transformative impact?
- **Deployment Readiness:** if we assume the data is available, can this application be developed, tested and widely deployed by 2025?
- **Program Alignment:** does the application align with program goals and is there a clear federal role in its development and deployment?
Breakout Exercises:
Ground Rules and Background
Exercise Ground Rules

• For today’s exercise, these items can’t be changed
  – Evaluation criteria
  – Data Environment assumptions
  – Application concepts (no altering or adding new ones)
• Policy-related issues are NOT in play for discussion
  – If these topics come up, we will park the discussion until tomorrow, when we have special session to deal with these in turn
Today’s Exercise
(Part 1) Scorecards

- Feedback materials provided in the breakout rooms
  - Application scorecards
  - 3 poker chips (for voting)
- Facilitators will brief assumptions about the data environment that applications can draw upon
- Facilitators will clarify application evaluation criteria
- Consider a set of (up to 12) IntelliDrive application concepts
  - Facilitators provide one slide that describes the application
  - Field questions and clarifying discussion
  - Individually, you rate the application (HIGH, MEDIUM, LOW) against the criteria on your scorecard
Today’s Exercise (Part 2) Voting

• Once you have scored each application, each participant votes for the three most promising applications
  – “Most promising”: strong potential for transformative impact, low deployment risk, and clear alignment with IntelliDrive program objectives
    – BLUE = 3 points (top priority)
    – RED = 2 points (second-highest priority)
    – WHITE = 1 point (third-highest priority)
  – Deposit your chips in the voting bins identified for each application (also turn in your scorecards)
• Quick break (5 minutes) to tabulate the results
• Reconvene to consider results within each breakout
  – Discuss the implications of your group process
  – Identify a presenter from your group for the breakout report at 3 PM
Role of Stakeholder Input
Candidate Applications
Prioritization Criteria

• Prioritization Criteria
  – Potential for transformative impact
  – Makes use of IntelliDrive data
  – Significant stakeholder interest
    • Your input from this workshop is one measure of stakeholder interest
    • We have conducted similar exercises with several stakeholder groups
  – Can evolve from near-term state to long-term state
  – Potential to be released as open source
  – Cross-modal impact

• The program cannot fund every idea
• Exercises as a part of this workshop inform the federal team understanding of each application, but **do not determine application priority**
Breakout Group Organization
Today and Tomorrow’s Breakouts

• Today’s Breakouts organized around data environments, applications assigned to each breakout are listed in your participant resource booklet
  – Arterial (Breakout Room 317)
  – Freeway (Breakout Room 332)
  – Corridor (Breakout Room 330)
  – Regional (Breakout Room 331)

• Please attend only one breakout each day, exercises are conducted in parallel

• Tomorrow morning’s breakouts features a different exercise and are organized around primary impact
  – Environmental (Breakout Room 332)
  – Productivity (Breakout Room 317)
  – Mobility (Breakout Room 330)
  – Safety and Security (Breakout Room 331)
Breakouts Will Begin Promptly at 12:30 PM
Questions?