Model Deployment Characteristics

Emily Nodine
RITA/Volpe Center

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Moving From Research Toward Implementation

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Outline

• Integrated Vehicles
• Test Subjects
• Subject Exposure
• Subjective Feedback
Integrated Vehicles by Number of Applications

Total of 64 vehicles from 8 OEMs participated in the Model Deployment
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Test Subjects by Age and Gender

Total of 64 subjects participated in the first six months (round 1)
Subjects of integrated vehicles drove about 450,000 miles in six months (round 1)
Test Subjects by Trips with V2V Interactions

![Bar chart showing the distribution of test subjects based on the percentage of trips with V2V interactions. The x-axis represents the percentage of trips with V2V interactions, ranging from 35% to 100%, while the y-axis shows the number of subjects. The chart indicates a peak around 80%.]
Test Subjects by Number of Alert Events

Alert events include cautionary and warning alerts (3,877 total alerts)
Surveys

• Key Topics
  ▪ Usability
  ▪ Perceived Safety Benefits
  ▪ Understandability
  ▪ Desirability
  ▪ Security/Privacy
Survey Structure

a. It was clear *why* the system was warning you when it warned you

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“negative”  “neutral”  “positive”

![Survey Structure Diagram]

22 | 27 | 14

0% | 20% | 40% | 60% | 80% | 100%
Survey Scale Results

Did the warning system increase your driving safety?

The system will cause drivers to pay less attention to the road
Survey Scale Results

Differentiating the various warning types was easy

Overall satisfaction with the system
Open Ended Responses

What did you like least?

• Invalid warnings:
  “The warnings were more distracting than useful in my opinion, and not always clear to what they were warning of”

• Warning confusion:
  “When it [the warnings] would go off it would scare me. I would jump more from the alert system than a possible accident.”

What did you like most?

• Accident prevention/safety:
  “I felt utterly safe in this vehicle. I liked the sense of knowing it would warn me.”

• Applications:
  “When I experienced warnings. They [the warnings] were accurate and helpful.”
  “The coolness factor. Great idea, great technology, and I enjoyed helping test it.”