

Program Overview and Status Report

Jack J. Ference
NHTSA

2008 ITS World Congress
Session AM36

November 19, 2008

Program Overview and Purpose



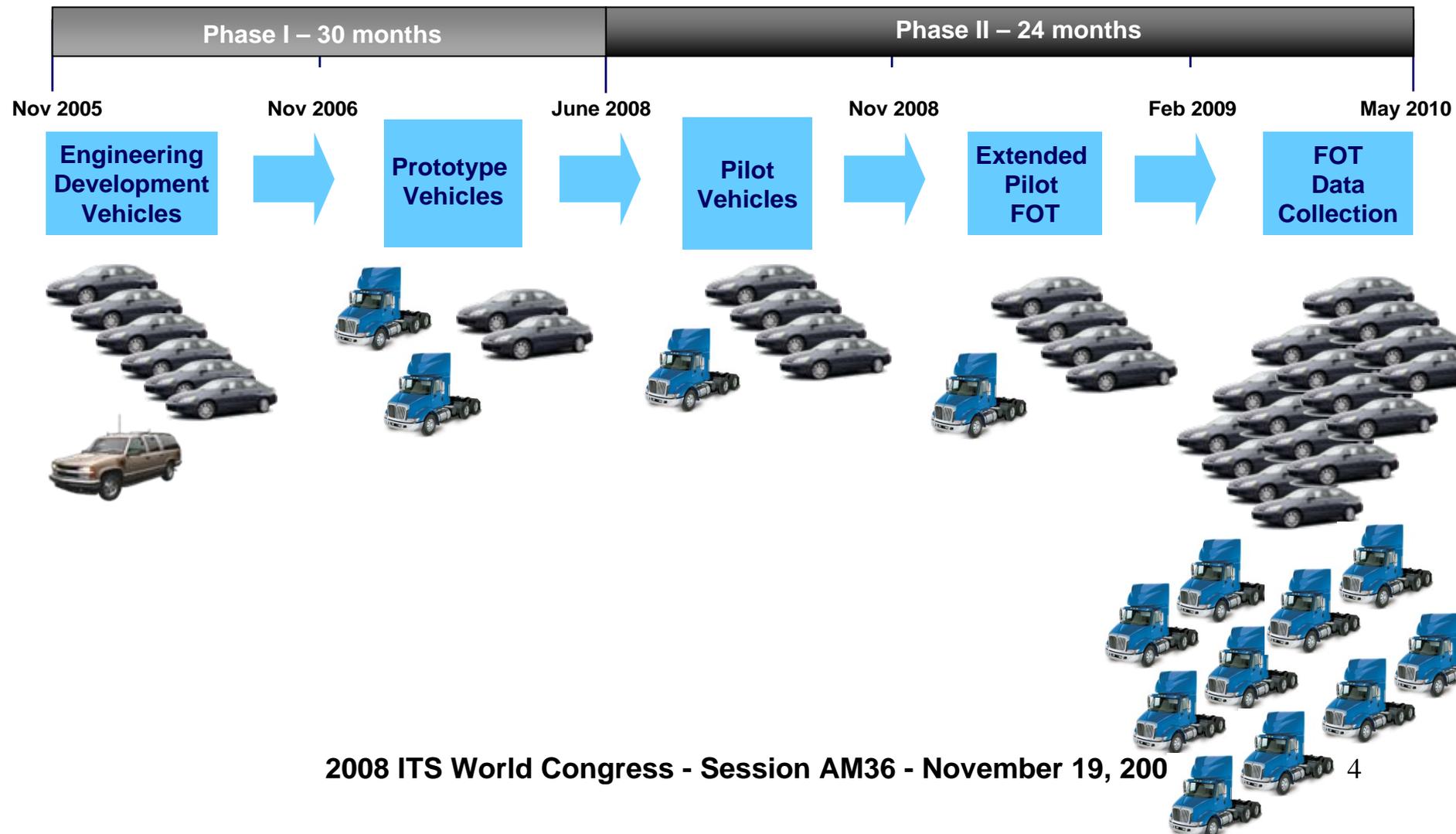
- IVBSS is a 4+ year effort to develop and field test integrated safety systems for **passenger vehicles and heavy commercial trucks**
- Safety systems will provide warnings for rear-end, lane change and road departure crashes in addition to **arbitration of multiple crash threats**
- Will include a 1-year field test on public roads - an independent evaluation will determine safety benefits, user acceptance and willingness to buy

Program Team





Program Timeline





Phase I Accomplishments

- System requirements and prototype vehicles developed
- Verified system design using prototype vehicles
 - In addition to developmental testing, conducted extensive closed-course track tests and 300 mile public road tests to prove out
- Published numerous project documents on Internet
 - Design guidelines and test procedures
 - Two annual reports
 - Driver-vehicle interface (DVI) research reports
 - Heavy truck DVI design and arbitration documents
 - Technical papers covering verification testing
- Truck OE and trucking company added to project team
- Discussed research results at IVBSS public meetings, SAE Govt-Industry, ITSA annual meetings, ATA events



Phase II Status

- Completed planned system refinements
 - Added system diagnostics for field test
 - Addressed issues to improve system robustness
 - Enhanced system performance
 - Continued to work on lowering nuisance alerts
- Re-verified system design at test track and on public roads
- Established fleet build schedule for field test and delivered first set of vehicles for extended pilot test
- Completed field test design document and initial planning
- Recruited volunteers for extended pilot tests
- Independent evaluation effort well underway



For Further Information

Jack J. Ference, *PMP*

Intelligent Technologies Research Division

1200 New Jersey Avenue, SE, W46-448

Washington, DC 20590

(202) 366-0168

Jack.ference@dot.gov

Visit our websites:

IVBSS webpage on ITS JPO website: www.its.dot.gov/ivbss

ITS JPO website: www.its.dot.gov

NHTSA website: www.nhtsa.dot.gov