

# **TFTN, HPMS, MAP-21, and ARNOLD**

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June 11 - 12, 2013

# Moving Ahead for Progress in the 21st Century (MAP-21)

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- Signed into law by President Obama on July 6, 2012
- Funds surface transportation programs at over \$105 billion for fiscal years 2013 and 2014
- Includes funding of \$4.8 billion for a Highway Safety Improvement Program (HSIP)
  - Requires the development of a “basemap” of all roads onto which safety attributes can be attached
  - HSIP funds can be used by State DOTs to develop the basemap

# MAP-21 and TFTN

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- FHWA has embraced the recommendations of the TFTN Strategic Plan and will develop the “basemap” using HPMS networks
  - A memo was issued to each State DOT requiring that they provide a complete road network as part of the annual HPMS submittal
  - Will include both paved and unpaved roads and dual carriageway representation where appropriate
  - In addition to HSIP funds, FHWA waived the match requirement for using State Planning and Research Funds
  - A plan of action is required from each State DOT by June 2013
  - Complete networks required by June 2014



# TFTN → HPMS → ARNOLD

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**A**ll  
**R**oads  
**N**etwork  
**O**f  
**L**inear-Referenced  
**D**ata



# **ARNOLD will NOT be in a FHWA Vacuum!**

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- FHWA and Census are exploring a working relationship
- FHWA will be submitting a Request for Proposals (RFP) to develop a document that will provide a long-term systematic approach to developing a geospatial linear referencing system for all public roads
- Contract will be followed by a Pooled Funds Study
- FHWA hosted a Developers Summit in March 2013
- FHWA will host an Academia Workshop in August 2013



# USDOT/Census Relationship

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- FHWA and Census have met twice, with many more meetings planned
- Early objectives are technology exchange and to explore how Census can leverage the FHWA's relationships with the State DOTs
- Ultimate objective is for Census to leverage the work from ARNOLD to enhance TIGER



# The FHWA RFP/Contract

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- Will build upon the TFTN Strategic Plan
- Will provide guidance in building a LRS for public roads
- Will examine best practices in Federal/State/Local Governments and Private Industry
- Will develop detailed LRS technical instructions for ramps, interchanges, roundabouts and other highway system components
- Define the technical requirements for establishing dual carriageway LRS systems and establish guidance for maintaining these systems

# The FHWA RFP/Contract – Part 2

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- Examine the collection of **house numbering** and the development of **address ranges** that will be directly related to the LRS
- Develop a methodology so that highway attribute data collected via GPS equipment is related to LRS efficiently and consistently
- The results of the study will assist States to acquire/build and provide their portion of ARNOLD in a way that is consistent across States and provides a National highway baseline



# Pooled Funds Study

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- The intent of the study is to partner with States that need or desire help in undertaking the All Public Roads LRS/GIS requirement to implement the guidance developed under the FHWA contract
- If you and your DOT are interested in participating in the Pooled Funds Study, please contact FHWA



# Questions/Comments?

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