



Large Truck Crash Causal Factors Study (LTCCFS)

Commercial Motor Vehicle Safety Summit
May 26, 2021



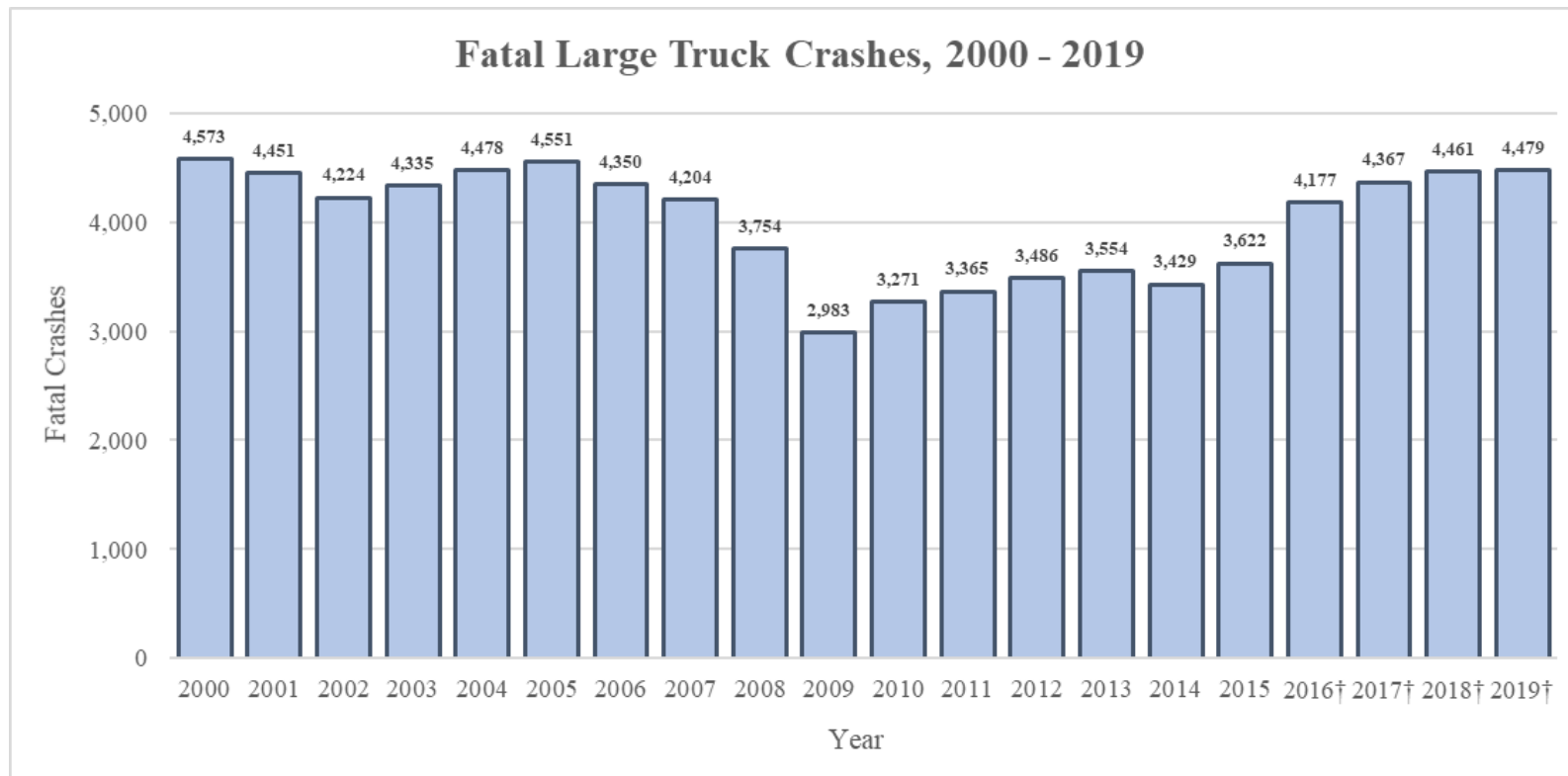
U.S. Department of Transportation
Federal Motor Carrier Safety Administration

Agenda

- Background
- Study Timeline
- Original Study Scope and Limitations
- Scope for Current Study
- Current Activities

Background

- Fatal crashes involving large trucks have steadily increased since 2009
- 17 years since the original study
- Changes in technology, vehicle safety, driver behavior, and roadway designs



Funding and Collaboration

- Funding:
 - Congress appropriated \$30M to be used on a study by FMCSA and NHTSA on the causes of large truck crashes, available until expended.
 - MCSAP grant money will pay for State truck inspectors.
- Collaboration with NHTSA:
 - Study Design
 - State Crash Investigators
 - IT Development
- Collaboration with CVSA:
 - State truck inspectors
 - Assist in updating crash notification process and training of NHTSA's CISS crash investigators

Study Timeline



Phase 1

Request for Information and Study Planning
(Current)



Phase 2

Study Design, Peer Review, IT Development, OMB Clearance, Pilot



Phase 3

Data Collection

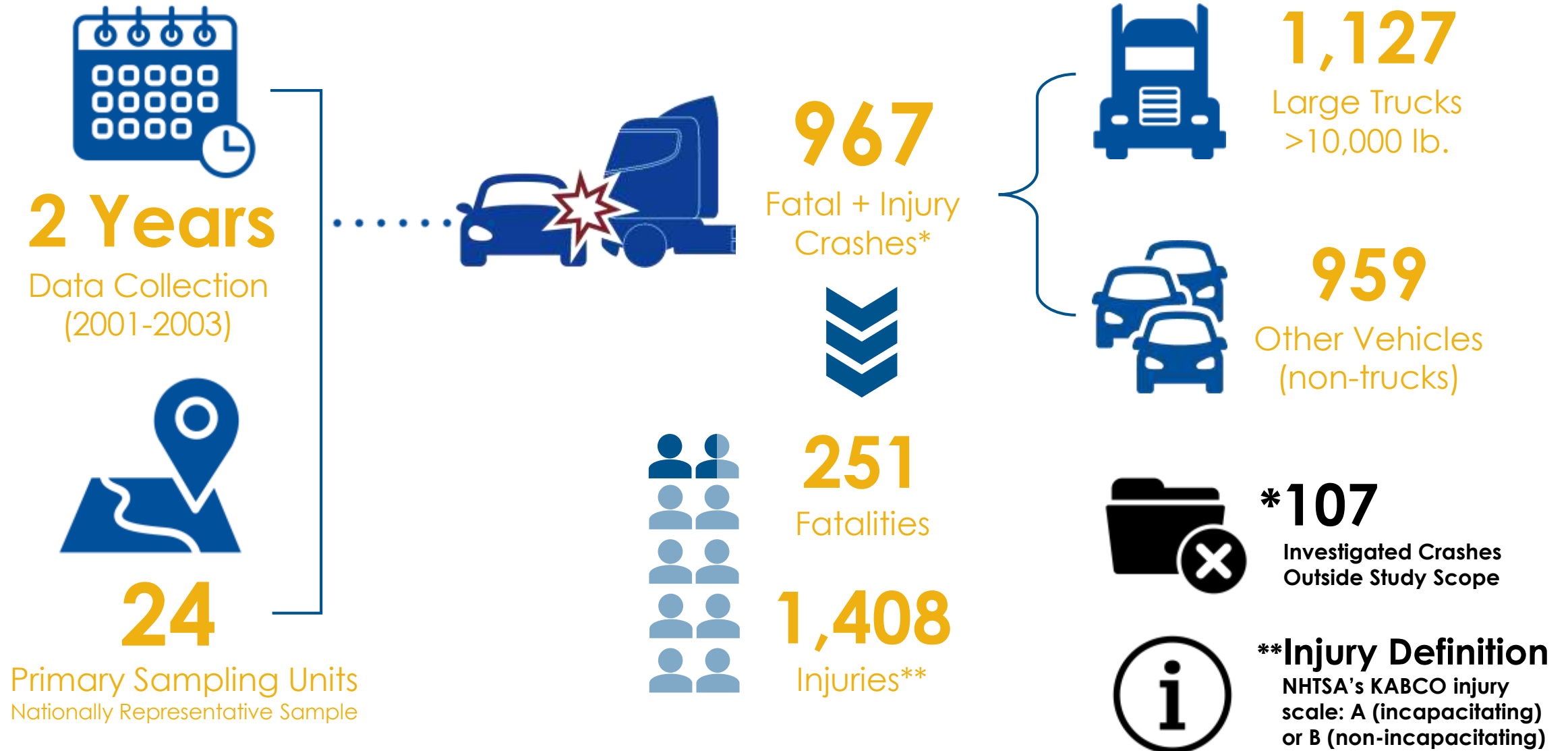


Phase 4

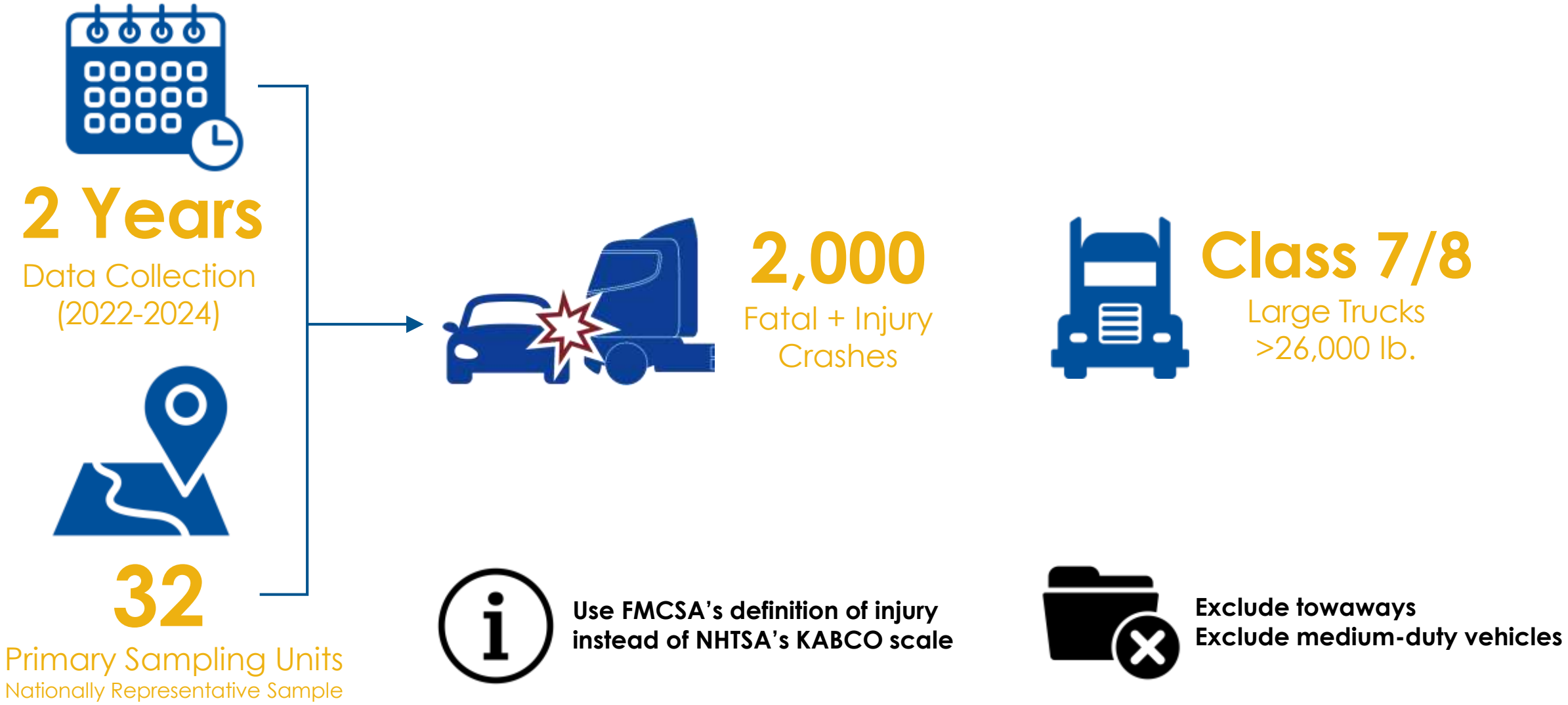
Detailed Analysis and Report Writing



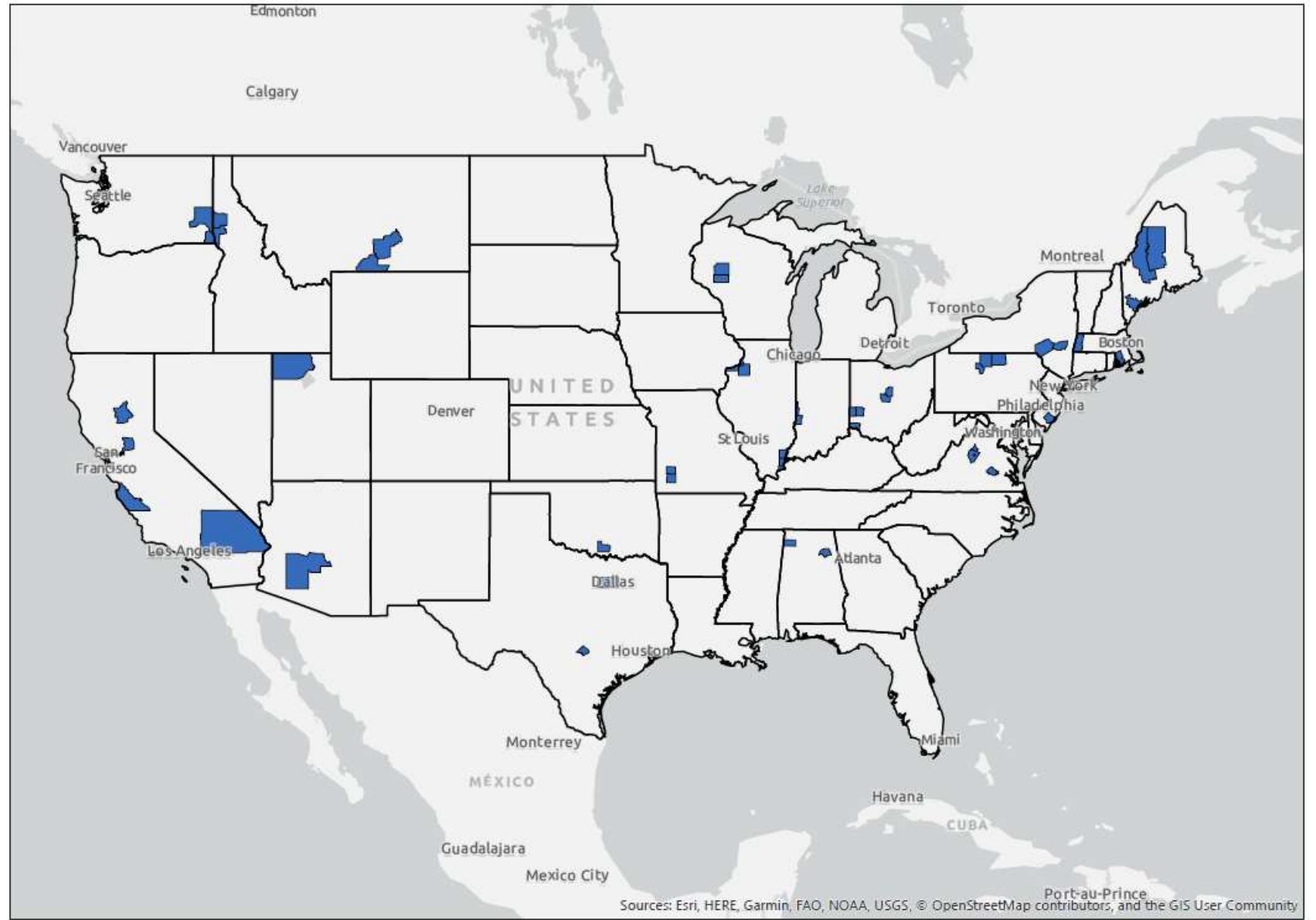
Original Large Truck Crash Causation Study (LTCCS) Scope



Planned LTCCFS Scope



32 Primary Sampling Unit (PSU) Locations



Research Questions

- Draft research questions have been provided to FMCSA leadership, NHTSA and CVSA for comment.
- Broken out into the following areas:
 - Driver Factors
 - Vehicle Factors
 - Motor Carrier Factors
 - Environmental and External Factors
 - Role of Light Vehicles in Large Truck Crashes
- Research questions will be used to identify:
 - Data sources
 - Data elements
 - How data will be collected (e.g., on-scene, derived/linked or off-scene).

Current Activities

- Finalizing research questions and identifying data sources
- Identifying risks and potential delays
- Setting up working groups to tackle key areas
 - Sample design
 - Notification system
 - Data collection

Questions?

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