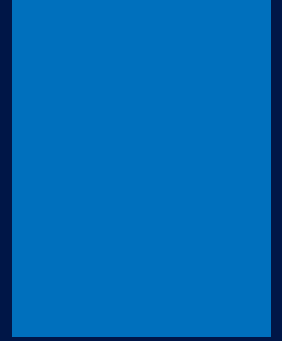


Large Truck Crash Causal Factors Study (LTCCFS)

Commercial Vehicle Safety Summit
November 30, 2022



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



Agenda

- Background
- Progress to date
- MCSAP Grants
- Next Steps

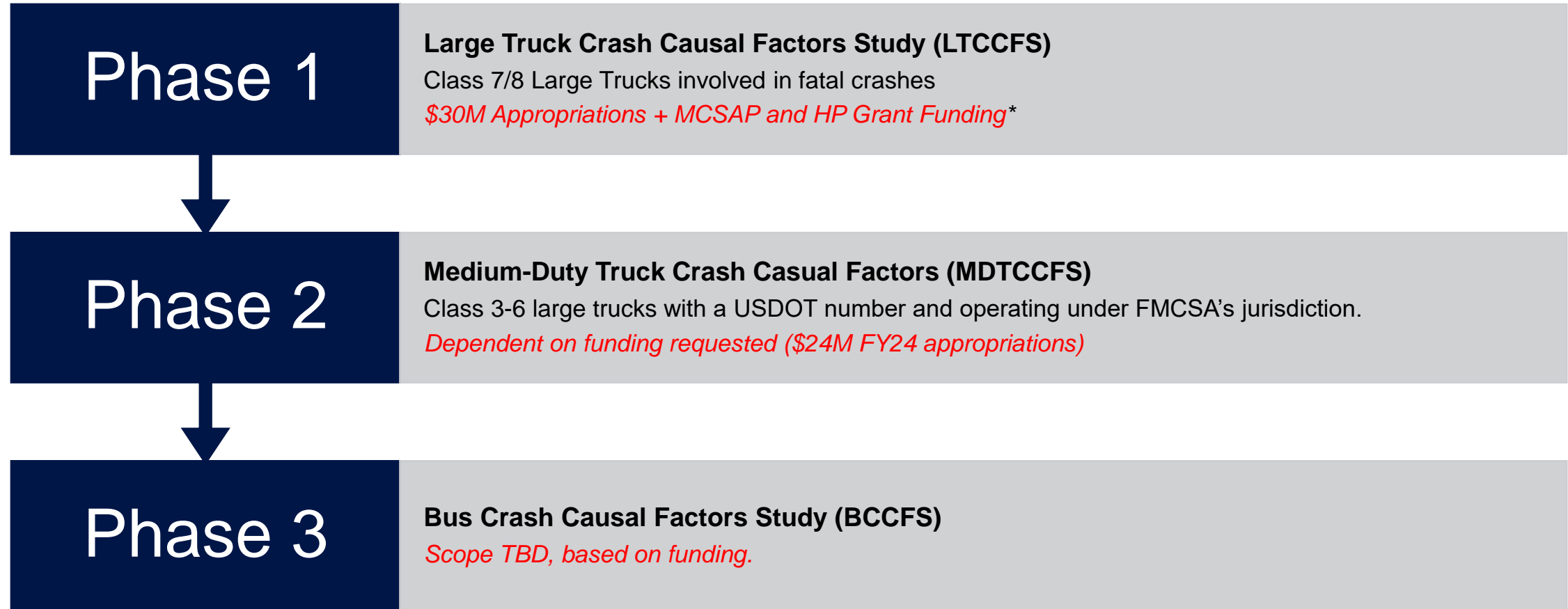
Background



Background

- Request for Information (RFI) was published January 15, 2020 and closed for comment on March 16, 2020.
 - 167 comments received from industry, academia and various stakeholders, including CVSA.
- Funding:
 - In FY21, Congress appropriated \$30M to be used by FMCSA, in collaboration with other research participants, on a study of the causes of large truck crashes, available until expended.
 - Motor Carrier Safety Assistance Program (MCSAP) and High Priority (HP) grant money.
- Bipartisan Infrastructure Law (BIL)
 - In FY22, Congress passed the BIL which included more prescriptive language on the LTCCFS than the appropriations bill.
 - FMCSA has been working with Congress to reconcile differences in legislative language with a plan to move forward with a phased approach.

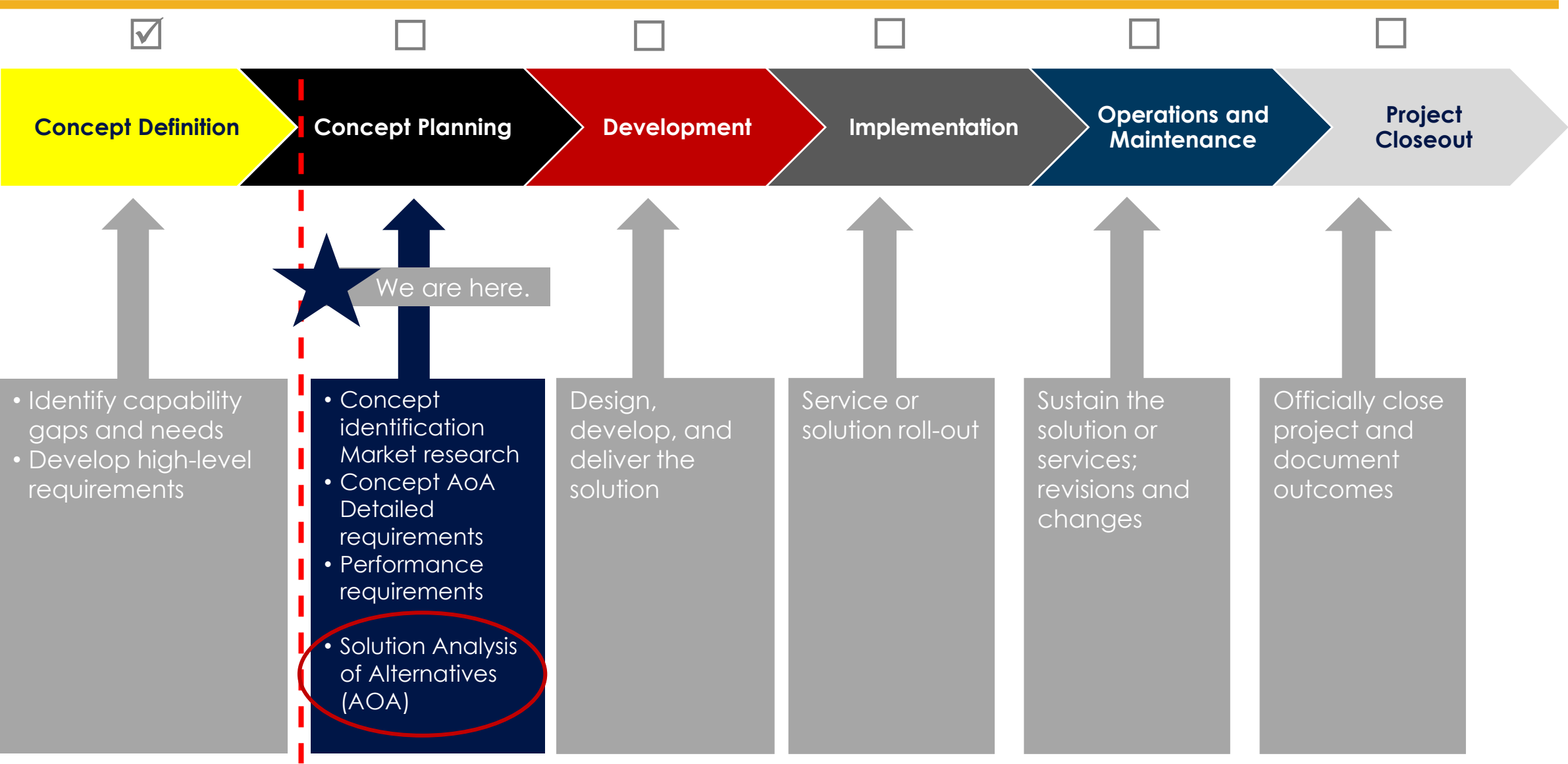
Crash Causal Factors Program



*MCSAP = Motor Carrier Safety Assistance Program; HP = High Priority



LTCCFS Study Phases



Phase 1: LTCCFS Study Scope



2 Years
Data Collection



~30
Participating States
Nationally Representative Sample



2,000
Fatal Crashes
+
Convenience Sample
of Injury Crashes



Class 7/8
Large Trucks
>26,000 lb.



Use FMCSA's definition of injury instead of NHTSA's KABCO scale

Who Collects the Data?



Investigators
(on-scene)

+

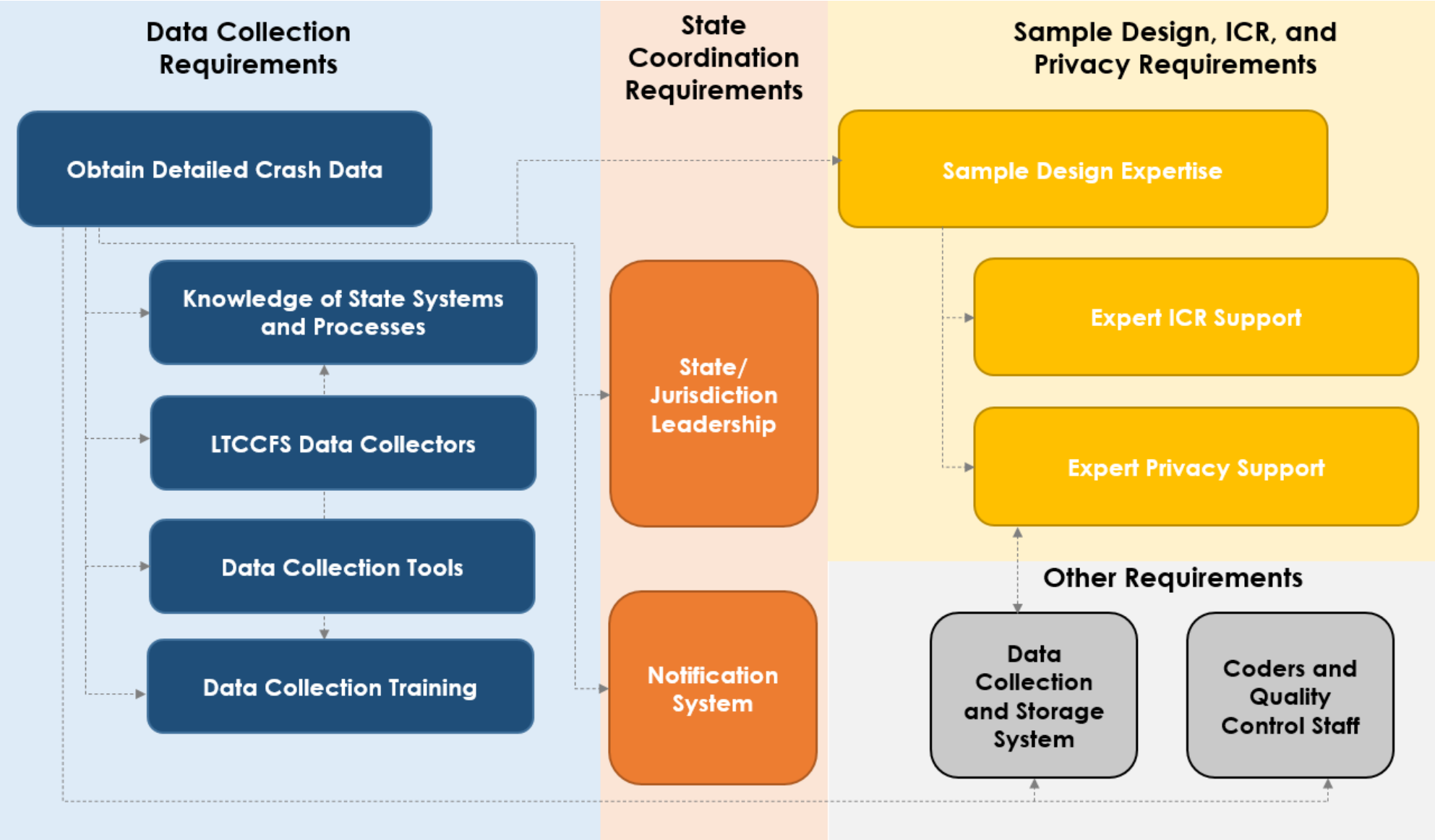


Truck
Inspectors

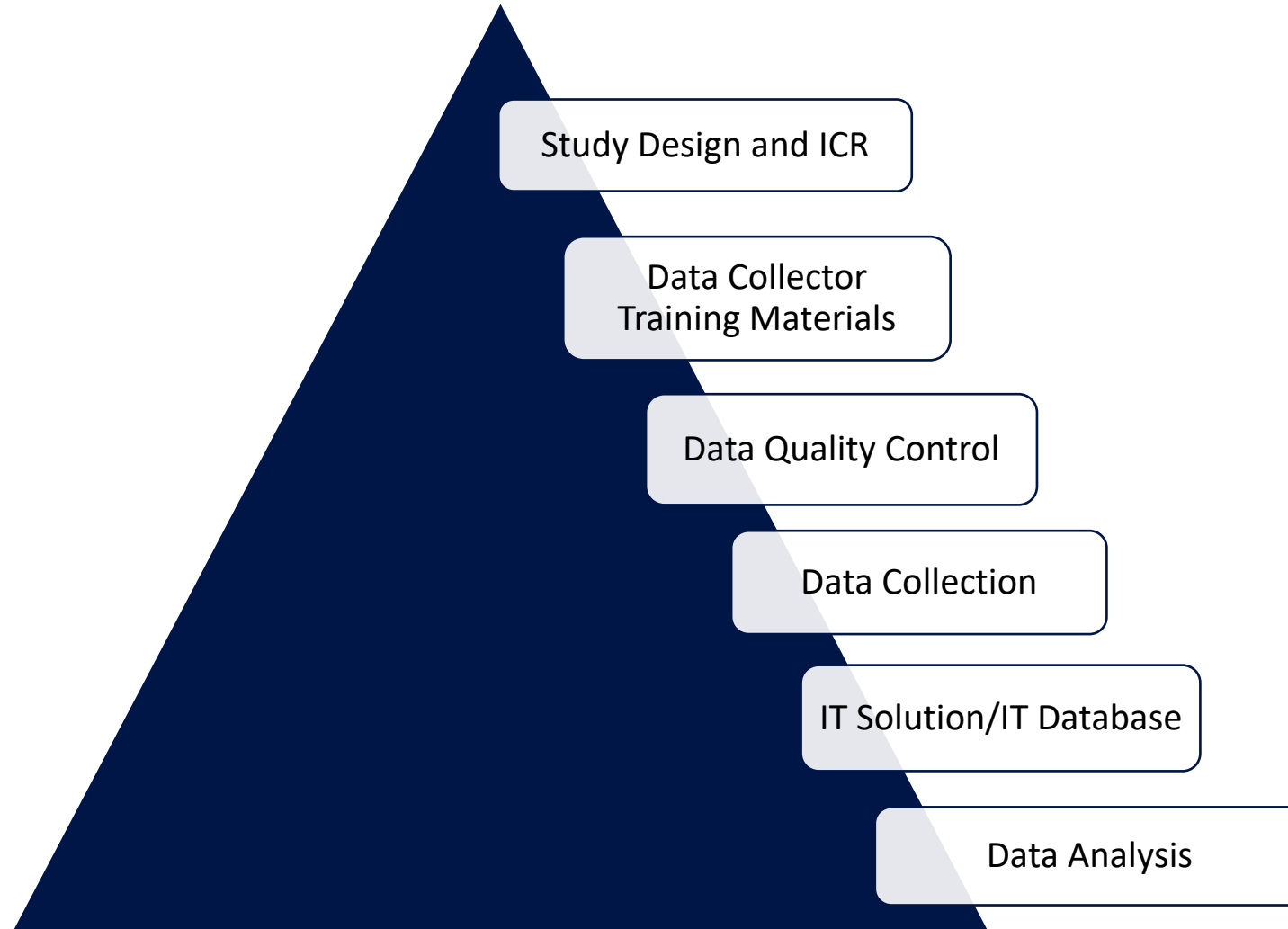


Exclude tow-aways
Exclude medium-duty vehicles*

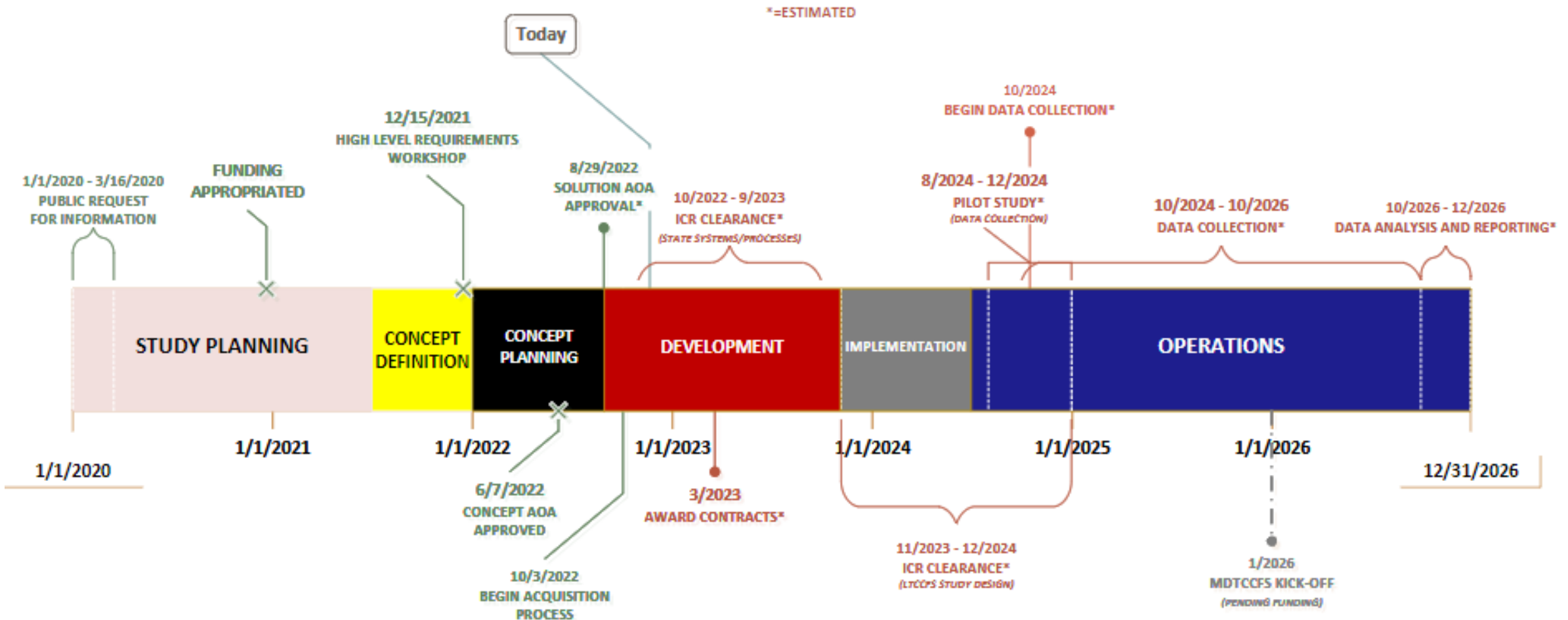
LTCCFS High-Level Requirements



Planned LTCCFS Components



LTCCFS High-Level Timeline (subject to change)



MCSAP Grants



MCSAP Eligibility

- Expense eligibility determinations established by FMCSA
- [MCSAP Comprehensive Policy \(MCP\)](#)
 - Full policy on FMCSA Funding Opportunities
 - Cost eligibility guidance is condensed in Appendix A
- Supplemental Policy issued 6/15/2022

MCSAP Eligibility (cont.)

- **Crash Investigation** - If specifically included in an approved project plan and budget.
 - Investigation must be limited to **fatal and serious injury** crashes involving CMVs covered under the State's or FMCSA's definition of a commercial motor vehicle. Recipient must maintain other CMV safety efforts (inspections, investigations, safety audits, traffic enforcement, etc.) at an acceptable level as approved by FMCSA.
 - **Investigating officer/personnel must be NAS A/B certified**
 - Required training and certifications necessary to conduct crash investigations
 - Other trainings necessary to collect, process, analyze, and determine facts collected at crash scene.

MCSAP Eligibility (cont.)

- **Crash Reconstruction** - If specifically included in an approved project plan and budget
 - Reconstruction must be limited to crashes involving CMVs covered under the State's or FMCSA's definition of a commercial motor vehicle. Recipient must maintain other CMV safety efforts (inspections, investigations, safety audits, traffic enforcement, etc.) at an acceptable level as approved by FMCSA.
 - Reconstruction officer/personnel **must include a NAS A/B certified officer** as a part of the analysis.
 - Required training for Reconstruction certification allowed.

MCSAP eligibility for equipment and other resources

- Each jurisdiction will determine equipment needs and processes for collecting crash data
- Crash Investigation/Reconstruction Equipment may include:
 - Scene documentation
 - Total stations
 - Drones
 - Software for scene documentation
 - Data Collection
 - Heavy Vehicle Event Data Recorders (HVDER)
 - OEM or Generic options are available
 - Crash Data Retrieval (CDR)
 - Used for passenger carrier vehicles
 - Must be prorated based upon program utilization

MCSAP eligibility for equipment and other resources (cont'd)

- May need to be pro-rated if not specific to CMV only use
 - Crash Investigation Analysis Tools for CMVs (training, equipment, software)
 - Crash Reconstruction Analysis Tools for CMVs (training, equipment, software)
 - Enforcement/Inspection Tools/Equipment (e.g., chamber mates, creepers, etc.)
- If you are uncertain whether a particular cost is allowable, please contact your FMCSA Division Office.
- Remember, eligibility is first dependent upon the cost being **included in an approved project plan.**

Next Steps



Next Steps

- State/Local Jurisdiction Coordination
 - Identification of funding options and constraints
 - Motor Carrier Safety Assistance Program (MCSAP) Grants
 - High Priority (HP) Grants
 - LTCCFS Funding
- ICR for High-Level Requirement #3 (Knowledge of State Systems and Processes)
 - Will include information gathering on data collection process, training requirements, data collection and storage system tools, data quality reviews, and data integration.
 - The data collected will be used to inform all aspects of the LTCCFS study design and IT development.
- Data Needs and Research Questions
 - Identifying existing data sources (e.g., PCR, post-crash investigations, crash reconstructions) and creating a list of current data elements being captured
 - Matching data sources and elements back to our research questions
 - Identify our delta – additional data elements needed to support LTCCFS that are not collected currently anywhere – and preferred data source (e.g., on-scene vs. follow-up interview)
- Begin Development Stage – Efforts Focused on:
 - Study and sample design
 - Data collector training
 - Design of IT solution

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