



U.S. Department
of Transportation

**Federal Highway
Administration**

AASHTO MASH Implementation Status

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AASHTO/FHWA Joint Implementation Agreement on AASHTO MASH



- Set four deadlines for new permanent installations and full replacements:
 - Dec 31, 2017: w-beam barriers and cast-in-place concrete barriers
 - June 30, 2018: w-beam terminals
 - Dec 31, 2018: cable barriers, cabler barriers terminals, and crash cushions
 - Dec 31, 2019: bridge rails, transitions, all other longitudinal barriers, all other terminals, sign supports, all other breakaway hardware, and temporary work zone devices.

Where do WZ devices stand?



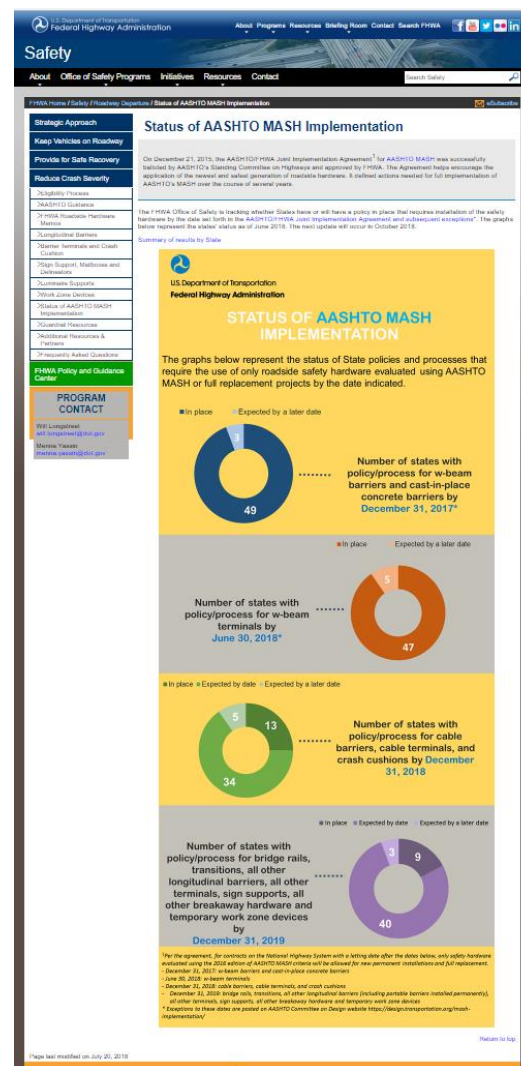
- AASHTO/FHWA Joint Implementation Agreement states,

*“Temporary work zone devices, including portable barriers, manufactured after **December 31, 2019**, must have been successfully tested to the 2016 edition of MASH. Such devices manufactured on or before this date, and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may continue to be used throughout their normal service lives.”*

<https://design.transportation.org/wp-content/uploads/sites/21/2018/06/MASH-Implementation-Agreement-Final.pdf>

Status of AASHTO MASH Implementation

- Status of States on our website
- Survey Division Offices Quarterly
 - Latest info June 2018
 - Policy/Process in place to meet AASHTO/FHWA Joint Implementation Agreement dates.
- Work Zone Devices fall under December 31, 2019

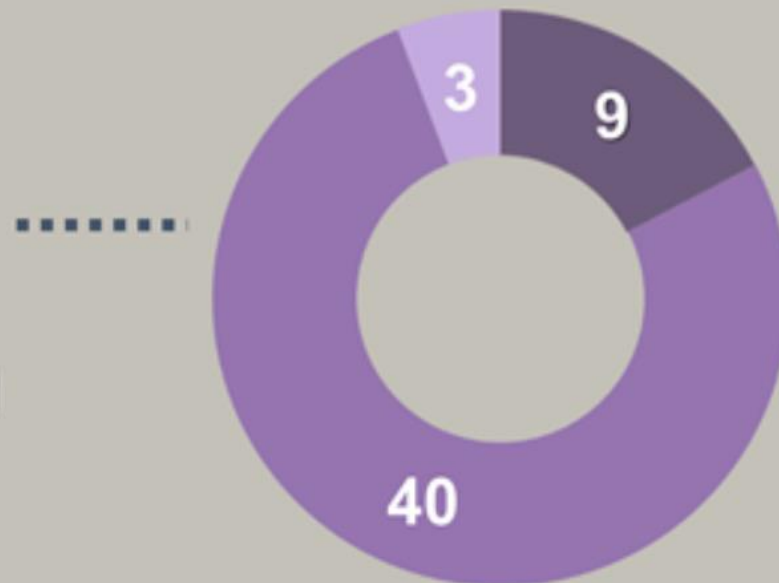


Status Of AASHTO MASH Implementation

- **Graphs on the website show status of four deadlines**
- **December 31, 2019**
 - **3: CT, IA, OR**
 - **9: CA, DC, HI, KS, MS, MT, NY, ND, OH**

■ In place ■ Expected by date ■ Expected by a later date

Number of states with
policy/process for bridge rails,
transitions, all other
longitudinal barriers, all other
terminals, sign supports, all
other breakaway hardware and
temporary work zone devices
by
December 31, 2019



AASHTO/FHWA Technical Working Group



- First meeting November 2017
- Made up of AASHTO reps/State DOT/FHWA and crash testing labs.
- Questions regarding AASHTO MASH & Implementation
- Changes will be posted on the AASHTO Committee on Design website once approved by AASHTO & FHWA

For more: <https://design.transportation.org/mash-implementation/>

Clarifications of the Agreement and more...

MASH Q&A posted *05/09/2018*

- Highlights:
 - Definition of letting date? Bid opening date/funding is obligated
 - NCHRP 350 small car vs. MASH small car? Not the same
 - Family of devices? Up to owner agency to accept mods based on eng. analysis or more crash testing

For more: <https://design.transportation.org/mash-implementation/>

Clarifications of the Agreement and more...

MASH Q&A posted 05/09/2018

- Highlights...continued:
 - Cat. 1? May be self-certified if no attachments.
 - Cat. 4? MASH contains testing criteria – Dec 31, 2019
 - Two temp WZ signs tested together? Yes
 - Service life? Up to owner agency to determine for WZ devices.

For more: <https://design.transportation.org/mash-implementation/>

Clarifications of the Agreement and more...

For more & future documents:

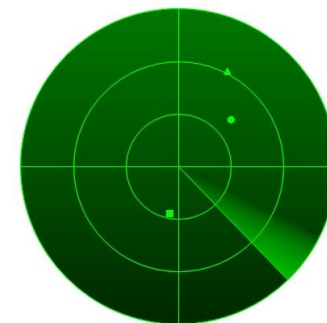
AASHTO Committee on Design

<https://design.transportation.org/mash-implementation/>

FHWA Roadside Hardware Policy Memos & Guidance

https://safety.fhwa.dot.gov/roadway_dept/countermasures/reduce_crash_severity/policy_memo_guidance.cfm

On the radar...



- NCHRP 350 website – migrating eligibility letters
- AASHTO MASH Implementation status, next update October 2018
- Eligibility letters? Cont. to write through Dec 31, 2019, reassess based on transitioning to new model – work with AASHTO
- FAST ACT Guardrail Safety training
https://safety.fhwa.dot.gov/roadway_dept/countermeasures/reduce_crash_severity/docs/fast_act-guardrail_safety_training.pdf
- In-service performance evaluations (ISPE)
https://safety.fhwa.dot.gov/roadway_dept/countermeasures/reduce_crash_severity/guardrail_ispe.cfm



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More information found at FHWA Office of Safety website

<https://safety.fhwa.dot.gov/>