apbp

ASSOCIATION OF PEDESTRIAN & BICYCLE PROFESSIONALS

Expertise for Active Transportation

Transportation Alternatives guidance, and an opportunity to weigh in on Car Safety Standards

CARON WHITAKER

POLICY SPECIALIST

CARON@CLWCONSULTING.NET

AGENDA

NCAP Request for Comments

Transportation Alternatives guidance

- Funding
- New Eligibilities and Eligible entities
- Transferability
- Technical Assistance
- Rec Trails
- E-bikes

Coming Soon

Charleston, SC- NACTO photo gallery

apbp ASSOCIATION OF PEDESTRIAN
& BICYCLE PROFESSIONALS
Expertise for Active Transportation

NEW CAR ASSESSMENT PROGRAM

https://www.nhtsa.gov/sites/nhtsa.gov/files/2022-03/NCAP-ADAS-RFC-03-03-2022-web.pdf

apbp

ASSOCIATION OF PEDESTRIAN
& BICYCLE PROFESSIONALS

Expertise for Active Transportation

NCAP under BIL

New Car Assessment Program-

- 5 Star rating program on new cars. Based on safety tests
- Focused on driver safety then car occupant safety

Under BIL

- Must assess Vulnerable Road Users in the NCAP
- Update to similar standards as other testers: EuroNCAP
  - Insurance Institute for Highway Safety (IIHS)

NHTSA asking for comments on:

- NCAP update
- 10 year plan for NCAP
- Future technologies

apbp ASSOCIATION OF PEDESTRIAN & BICYCLE PROFESSIONALS
Expertise for Active Transportation

NCAP: REQUEST FOR COMMENTS

1. Proposes to add four new ADAS technologies to NCAP

2. Discusses Agency's plan to develop a new rating system for ADAS

3. Describes steps to list the crash avoidance on the vehicle's window sticker

4. Describes roadmap to update NCAP over the next ten years,

5. *Requests comments on expanding NCAP to provide consumer information on ADAS*

6. Discusses NHTSA's ideas for updating several programmatic aspects of NCAP

https://www.nhtsa.gov/sites/nhtsa.gov/files/2022-03/NCAP-ADAS-RFC-03-03-2022-web.pdf

ADVANCED DRIVER ASSISTANCE SYSTEMS (ADAS)

- Blind spot detection,
- Blind spot intervention,
- Lane keeping support,
- **Pedestrian automatic emergency braking**

EuroNCAP.com
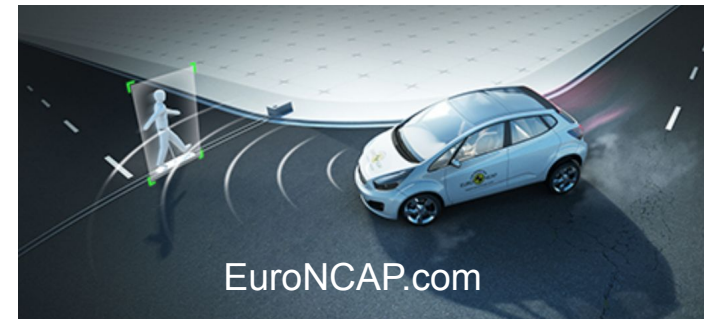
NHTSA has done some draft testing under 2 conditions

- Pedestrian crossing infront of car
- Pedestrian walking along side the road

NOT

- Right hand turns
- Left hand turns

apbp ASSOCIATION OF PEDESTRIAN
& BICYCLE PROFESSIONALS
Expertise for Active Transportation

PEDESTRIAN AEB

Proposed changes (based on a 2015 call for comments)

- Articulating Mannequin
- Change in speeds
    - Increase from < 25 mph
    - to 37.5 mph - ~50 mph
- Changes in lighting

AAA Foundation

Questions they ask for feedback are on these changes

- Regarding proposed changes
- Asks about Scenarios (right hand turns?)
- Should NHTSA consider testing with bicycles?

apbp ASSOCIATION OF PEDESTRIAN & BICYCLE PROFESSIONALS
Expertise for Active Transportation

COMMENTS

Thank you for including VRU

- definitely test at higher speeds, multiple lighting scenarios.

Comments

- Yes test for bicyclists, ppl with disabilities
    - EuroNCAP has done so since 2018…
    - What about race, ethnicity and gender?
- Consider VRU for blindspot testing
- Lane Departure- how will this compensate for safe passing and move over laws?

How will NHTSA educate on limitations
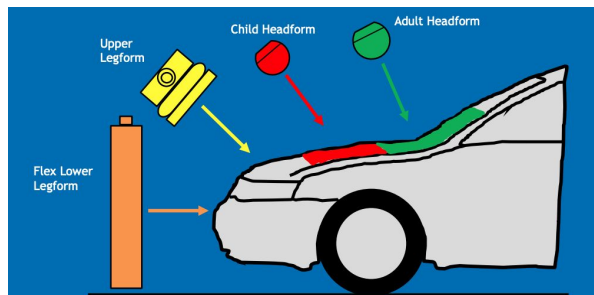of testing re: blindspot, etc.?

-

apbp ASSOCIATION OF PEDESTRIAN
& BICYCLE PROFESSIONALS
Expertise for Active Transportation

NCAP 10 YEAR ROADMAP

NCAP ROADMAP

2021-2022

- 4 ADAS tests (current comments)
- Hoods and bumpers with pedestrians/ crashworthiness (2015 testing)
  - head-to-hood,
  - upper leg-to-hood leading edge, and
  - lower leg-to-bumper discussed
- To measure with cars, trucks, and SUVs

https://www.nhtsa.gov/sites/nhtsa.gov/files/documents/sae2018bsuntay.pdf

NCAP ROADMAP 2022-2023

- NHTSA will consider incorporating lighting systems for improved nighttime pedestrian visibility:

-

(1) adaptive driving beam headlights;

(2) upgraded lower beam headlighting;

(3) semi-automatic headlamp beam-switching;

(4) rear automatic braking for pedestrian protection.

GOOD: Hyundai Kona with LED projector headlights (Ultimate, Limited trims built after May 2018)

POOR: Hyundai Kona with halogen projector headlights (SE, SEL trims)

Headlight comparison from Insurance Institute for Highway. Safety. IIHS.org

apbp

ASSOCIATION OF PEDESTRIAN & BICYCLE PROFESSIONALS

Expertise for Active Transportation

NCAP ROADMAP 2023-2024

- Rulemaking process on updating the Monroney label with a new labeling concept.
- Begin revising its 5-star safety ratings system.
    - (discussed in current document)

Tesla Model Y AWD and RWD crash test results in different categories. Source: NHTSA website.

National Highway Traffic Safety Administration (NHTSA) and the Environmental Protection Agency (EPA) -

NCAP ROADMAP 2025-2031

Hopes to focus on technologies now being developed including: NHTSA

- (1) intersection safety assist;
- (2) opposing traffic safety assist; and
- (3) automatic emergency braking for all vulnerable road users
  - including bicyclists and motorcyclists
  - including when the vehicle is turning left or right.

Any other 'mature' technologies

EuroNCAP.com

apbp ASSOCIATION OF PEDESTRIAN & BICYCLE PROFESSIONALS
Expertise for Active Transportation

QUESTIONS FOR 10 YR NCAP PLAN

- Identification of safety opportunities or technologies in development that could be included in future roadmaps,
- Opportunities to benefit from collaboration or harmonization with other rating programs, and
- Other issues to assist with long-term planning.

Comments-

- Everything in here is already done by EuroNCAP or IIHS or both
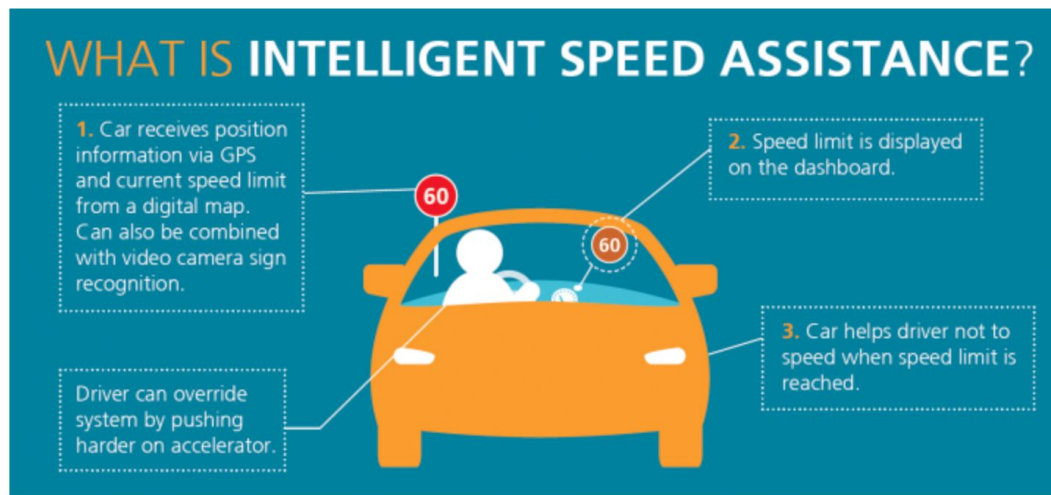- Should test with ppl with disabilities, race/ethnicity and gender differences,
- *What else?*

apbp
ASSOCIATION OF PEDESTRIAN
& BICYCLE PROFESSIONALS
Expertise for Active Transportation

EMERGING TECHNOLOGY

EMERGING TECHNOLOGIES

A. Driver Monitoring System

B. Driver Distraction

C. Alcohol Detection

D. Speed belt Interlocks

E. **Intelligent Speed Assist**

F. Rear seat child reminder

- State of technology
- What should NHTSA measure?
- What should be the response?
- What is the customer acceptance of such technology?

apbp ASSOCIATION OF PEDESTRIAN
& BICYCLE PROFESSIONALS
Expertise for Active Transportation

INTELLIGENT SPEED ASSIST

- Should the driver be able to turn it off (as in Europe).
- Should it be locked on but allow speeding up to a certain extent?
- Should driver be able to turn it off except in school zones?

WHAT IS **INTELLIGENT SPEED ASSISTANCE**?

1. Car receives position information via GPS and current speed limit from a digital map. Can also be combined with video camera sign recognition.

2. Speed limit is displayed on the dashboard.

3. Car helps driver not to speed when speed limit is reached.

Driver can override system by pushing harder on accelerator.

apbp ASSOCIATION OF PEDESTRIAN & BICYCLE PROFESSIONALS
Expertise for Active Transportation

EDUCATION TO THE PUBLIC-COMMENTS

Discuss limitations of testing/ technology

AAA Foundation 2019 Test- P-AEB

<u>Pedestrian crossing road at 20 mph</u>

- Failed 60% of time with adult
- P-AEB failed 89% with child
- Failed 100% of time in dark
- Failed 100% of time with right hand turn

Car companies advertise as detecting pedestrians

- But IIHS, AAA Foundation and NHTSA data shows technology not as competent as ads
- Can NHTSA
- require more truthful ads?
- Educate to limitations of technology?

NewsRoom.AAA.com

apbp
ASSOCIATION OF PEDESTRIAN
& BICYCLE PROFESSIONALS
Expertise for Active Transportation

TRANSPORTATION ALTERNATIVES

THE LAW GETS INTERPRETED

Congress writes bill
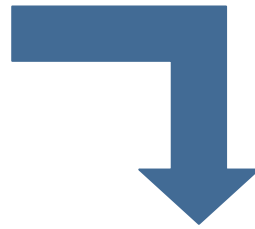
US DOT writes guidance
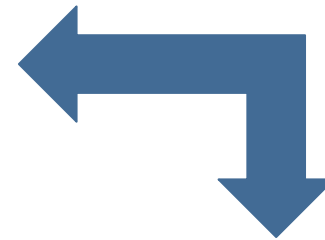
States follow guidance to ensure reimbursement

FHWA BIL WEBSITE

TRANSPORTATION ALTERNATIVES

Changes to

- Eligible entities
- Eligible Projects

Big changes

- Funding
- Transferability
- Technical Assistance
- Rec Trails

Still to come

- Match

NEW ELIGIBLE ENTITIES

- An MPO that serves an urbanized area with a population of fewer than 200,000.

- A nonprofit entity.

    - (used to include "focused on transportation safety")

- A State, at the request of an eligible entity listed above.

    - This is likely the biggest change.

    - Goal: to help small communities who want to choose/apply for a project but don't have the resources to create the application/proposal.

ELIGIBLE PROJECTS

- All existing eligibilities

- Changes to Safe Routes to School

  - Projects to high schools are now eligible

  - SRTS Coordinators are eligible

- Vulnerable Road User Safety Assessments

  - Required for states under Highway Safety (HSIP).

  - Eligible here so that MPOs can do them as well.

- Bike share and scooter share systems are eligible (capital costs)

  - Not operations.

ELIGIBILITY PROJECTS

- Stand-alone planning projects
- Planning components of projects
- Resiliency improvements to existing projects
- Road diets -
    - if the work benefits activities eligible under the TA
    - i.e- widening sidewalks or installing separated bike lanes
- Maintenance For "Rec Trails" projects

City of San Diego, La Jolla / Bird Rock

Before

After

California LTAP

ASSOCIATION OF PEDESTRIAN
& BICYCLE PROFESSIONALS

Expertise for Active Transportation

FUNDING

Funding increases from $850 million/yr to 1.38 billion in 2022

- **59% is suballocated** into 4 categories
  - Large MPOs (pop > 200,000
  - Urbanized areas (50,000< pop<= 200,000)
  - Communities between 5,000 and 50,000
  - Communities under 5000

A state may choose to suballocate up to 100% of TAP

Transferability applies only to 41% not suballocated

5% Can be used for Technical assistance

apbp
ASSOCIATION OF PEDESTRIAN
& BICYCLE PROFESSIONALS
Expertise for Active Transportation

TEXAS TRANSPORTATION ALTERNATIVES FUNDING

Year	TA Set-Aside	Rec Trails	Potential Technical Assistance	Amount Transferred/ Transferable	Amount available for Projects
2020	$ 81.9	$ 4	– –	$ 39	$ 39
2022	$133.2	$ 4	$ 2.7	0 [$53]	$ 127.5 [$74]

All Dollar amounts in millions

apbp ASSOCIATION OF PEDESTRIAN & BICYCLE PROFESSIONALS
Expertise for Active Transportation

TEXAS MPO funding

	2020	2022	5% Tech. Asst	=2022-Tech
Austin	$ 2,108,284	$ 4,129,496	$ 206,475	$ 3,923,021
Brownsville	$ 336,704	$ 659,502	$ 32,975	$ 626,527
Corpus Christi	$ 495,294	$ 970,132	$ 48,507	$ 921,625
Dallas–Fort Worth–Arlington	$ 7,925,922	$ 15,524,505	$ 776,225	$ 14,748,280

MPO funding is almost double (2010 census #s)
- MPOs can use 5% for Technical Assistance
- MPOs can flex 50% to STBGP projects

apbp ASSOCIATION OF PEDESTRIAN & BICYCLE PROFESSIONALS
Expertise for Active Transportation

TRANSFERABILITY

BIL Requires that before a state can transfer the Secretary must certify that the state

1- Ran a competitive process

2- Offered Technical Assistance, and provide it

3- There are no 'suitable applications' left unfunded

Secretary= FHWA

Competitive process- FHWA will be providing a clear definition

Technical Assistance (next section)

'Suitable Applications..

TRANSFERABILITY

"...The State will need to demonstrate genuine efforts to establish a robust TA Set-Aside program before FHWA will authorize a transfer…"

Robust program? (no specific definition)

- Imply it means Staffing
- Robust technical assistance
- 2016-2020 TA Annual Reports show application costs are greater than funding for the program

-

apbp ASSOCIATION OF PEDESTRIAN & BICYCLE PROFESSIONALS
Expertise for Active Transportation

OTHER GUIDANCE ON TRANSFERABILITY

- The new transferability rules **apply to carryover funds** as well.

- If a state fails to obligate funds and fails to meet transferability requirements, funds will lapse after four years.

- There are no new restrictions on a state transferring funds into TA.

- FHWA will not allow transfers for FY 2022. Goal- to ensure states have time to set up a robust TA program.

TECHNICAL ASSISTANCE

Staffing
- Can mean a Safe Routes to School Coordinator, TA Coordinator(s)
- Can be used to contract for help
- CANNOT be used to fund Bike/Ped Coordinator positions

Technical assistance is defined as:
- Administering a statewide competitive program
- Assisting applicants to help them successfully apply
    - (for statewide, MPO or other competitive process)
- Assisting applicants with project implementation, including NEPA review
- Planning, design, permitting process
- Project management

apbp ASSOCIATION OF PEDESTRIAN & BICYCLE PROFESSIONALS
Expertise for Active Transportation

TA REC TRAILS PROJECTS GET REC TRAILS BENEFITS

Any project funded under TA that is called a Recreational Trail get Recreational Trails benefits

- Has more leeway around using federal funds as a match.
- Not subject to Francis Bacon rules
- Can be used to fund maintenance

When to use Rec Trails vs. TA funds?

- Agency responsible
  - TA goes through MPO and/or DOT
  - Rec Trails often goes through Nat Resources Agency
- TA has more funds
- Depending on match requirement
-

E-BIKES

Bill redefines E- bikes using 3 class system AND allows them on trails built with federal dollars

- Final decision up to local government

Motorized Vehicles banned on non-motorized trails funded w/ federal $$

- E-scooters and other micro mobility still technically banned

Rec Trails projects

- Ban on motorized vehicles on non motorized trails still in place
- Ebikes not allowed.

apbp
ASSOCIATION OF PEDESTRIAN & BICYCLE PROFESSIONALS
Expertise for Active Transportation

FLEXIBILITY FOR LOCAL MATCH

Flexibility for local match

- HSIP funds can be used as local match for projects that improve safety
- A state may meet 20% local match
    - by project
    - by group of projects
    - by program

More guidance to come!

Buffered bike lane on Ravenna Blvd in Seattle, WA.

apbp ASSOCIATION OF PEDESTRIAN & BICYCLE PROFESSIONALS
Expertise for Active Transportation

WHAT TO WATCH FOR?

GUIDANCE, ETC

Guidance

Climate programs

Complete Streets planning

Planning-

- Connectivity pilot project
- Complete Streets

Discretionary Grant Program

Rural grant program is open NOW

Safe Streets and Roads for All- May

Comment Opportunities

Hoods and bumpers

AKRON, OHIO

apbp ASSOCIATION OF PEDESTRIAN
& BICYCLE PROFESSIONALS
Expertise for Active Transportation

QUESTIONS?