The Message Design Dashboard: A Tool for Effective Alert and Warning Design

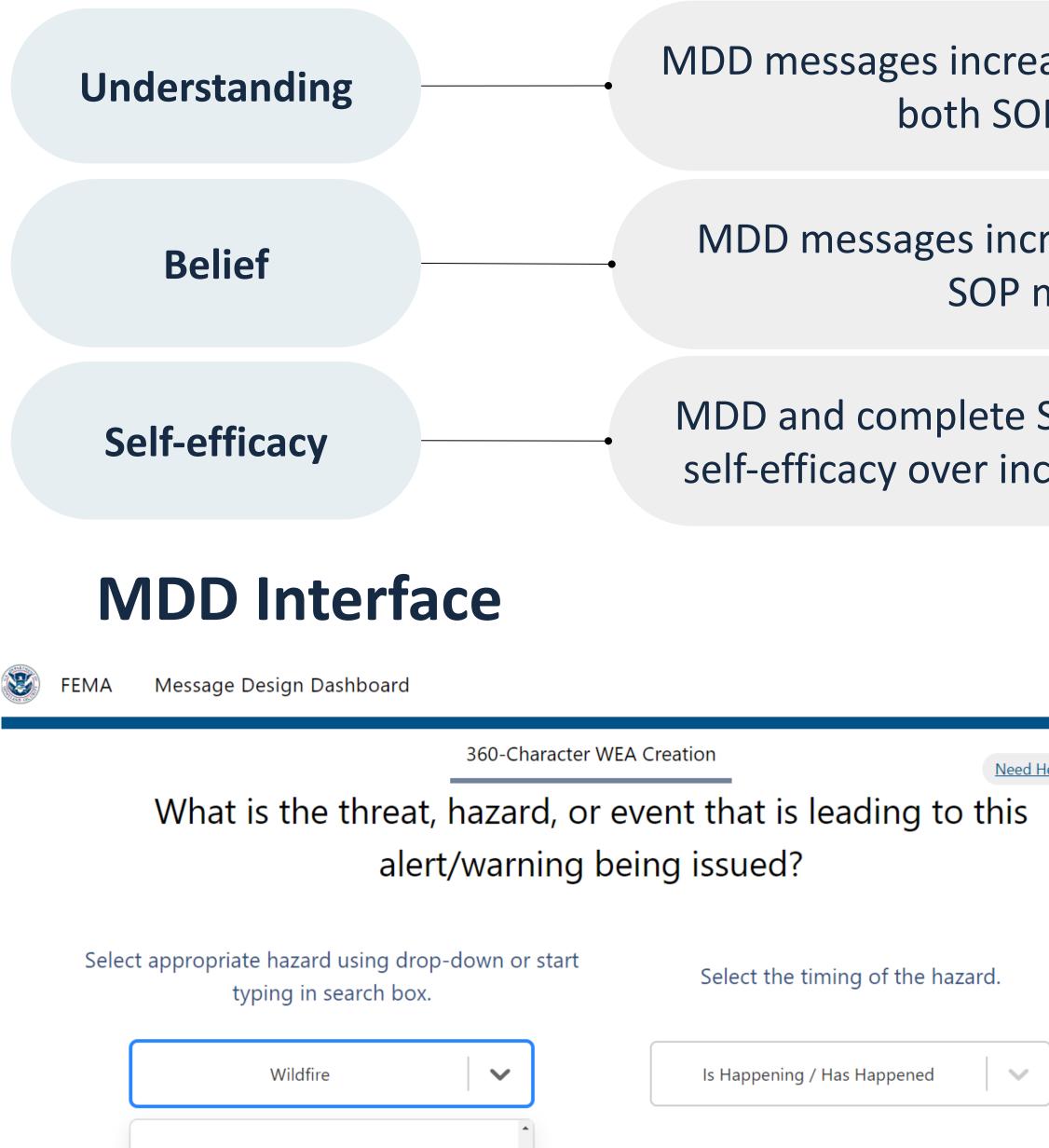
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PROJECT OBJECTIVES

Design, develop, validate, and implement the Message Design Dashboard (MDD), a template-based software tool to help Alerting Authorities quickly write effective and complete Wireless Emergency Alerts (WEAs).

MDD Content and Validation

- Developed the Warning Lexicon content for 48 hazards, including **impact statements** and **protective actions**
 - Verified by hazard and warning message design subject matter experts
- Workflow designed to follow Mileti and Sorensen's (1990) Warning Response Model
- Validated standardized contents in an experimental survey testing MDD messages against complete and incomplete standard of practice messages (SOP)



NOTE: Select "About to Happen" if the hazard has

lappening/Happened" if the hazard has already

happened yet but will soon. Select I

appened or is currently happening

Timing only affects 360 char WEAs.

NextStep 💻

: Hazard Info

Toxic Fumes

Tsunami

Volcano

Water Service Disruption

Wildfire

Winter Storm

MDD messages increased understanding over both SOP messages

MDD messages increased belief over both SOP messages

MDD and complete SOP messages increased self-efficacy over incomplete SOP messages

<u>Help?</u>	Preview
	360 Char WEA Preview:
	Albany County Fire: [WILDFIRE WARNING], [Level 1 Level 2, Level 3], [Ready, Set, Go], [Mandatory/Voluntary Evacuation] in [location]. Visibility in area will be reduced and roads/evacuation routes can become blocked; if you do not leave now, you could be trapped, injured, or killed.
ot	283 of 360 Characters Used

Training Content

Socio-behavioral model of warning response and message design fundamentals

Training Impact

11 deliveries

666 participants

49 states + Washington, D.C.

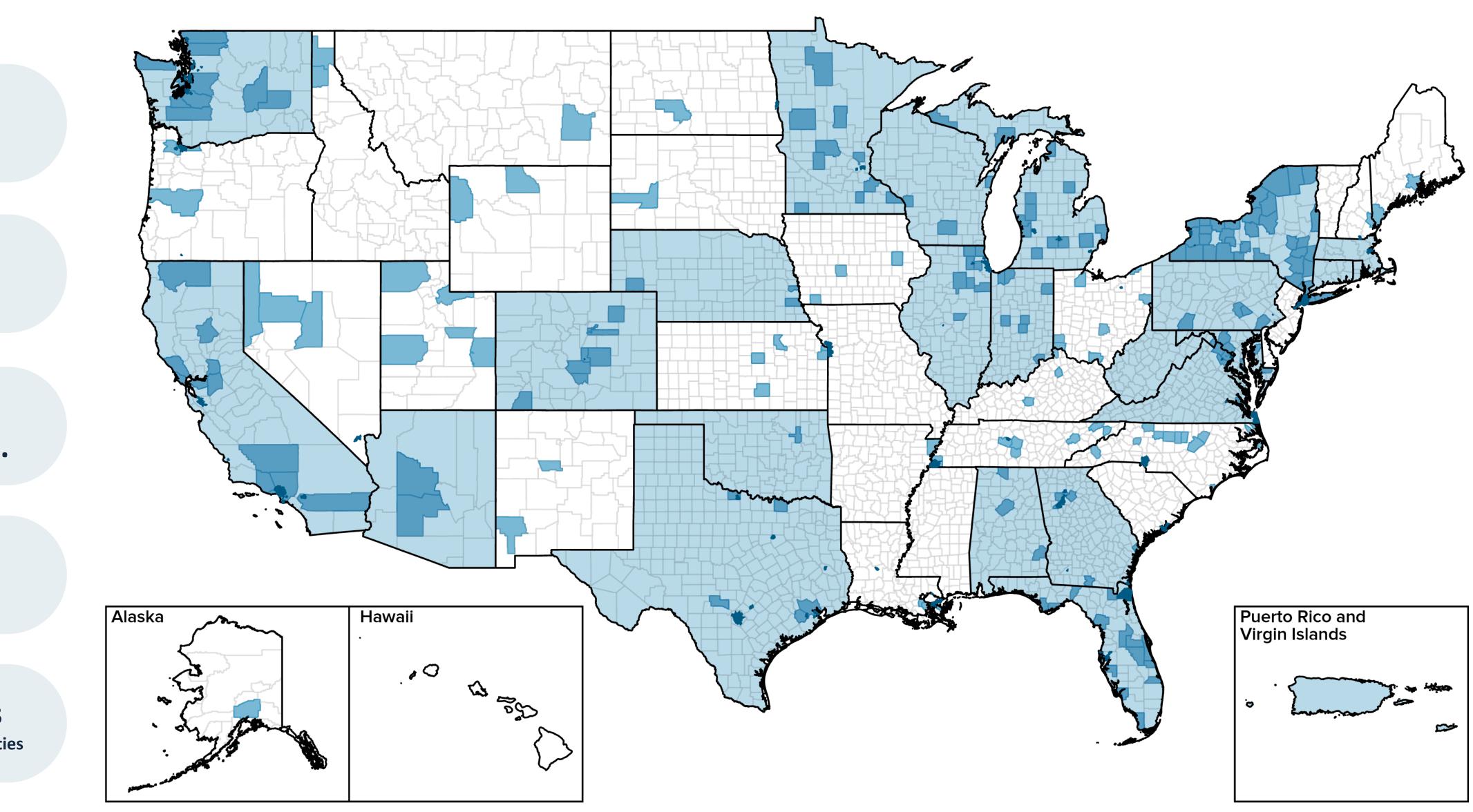
2 territories

76% of Americans served by trained Alerting Authorities

Next Steps

- during-, and post-training
- Portal
- Additional research:
- All-clear messaging
- Missing persons alerts
- Symbols and icons

Overview of MDD functions and hands-on training



• Finalize "MDD 2.0" prototype with improvements to user interface based on evaluation feedback • Analyze training data— message proficiency pre-,

Official software launch via FEMA's Alerting Tools



Resources Warning Lexicon Paper Decade of WEAs Paper The Warn Room MDD Training





Scenario-based message design activities pre-, during- and posttraining

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