



NATIONAL ACTION PLAN FOR COMBATING ANTIBIOTIC-RESISTANT BACTERIA

Progress and next steps

Casey Sullivan, Ph.D.

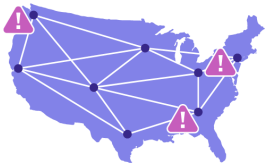
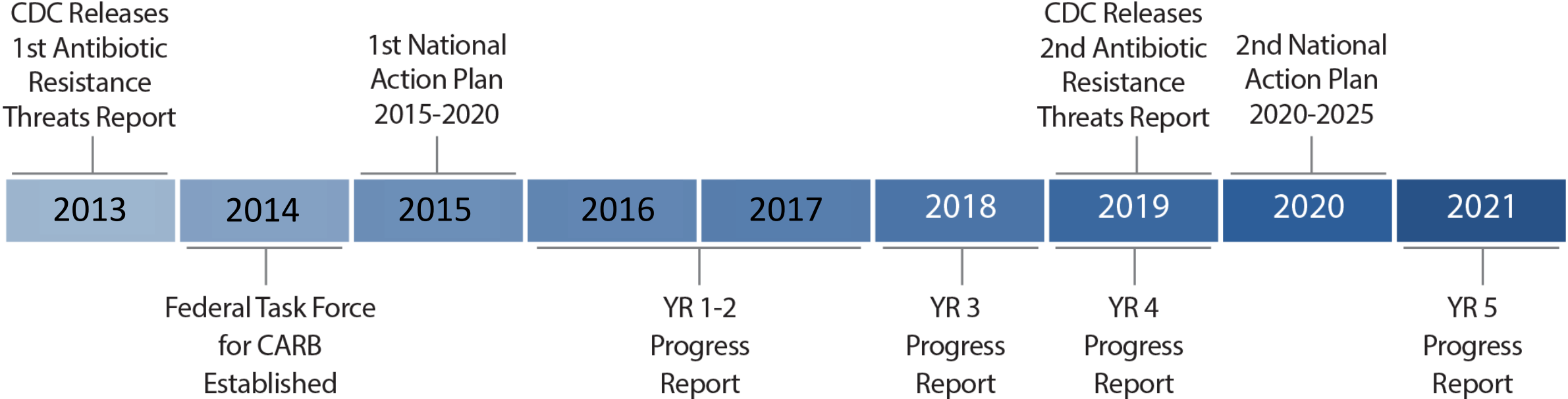
Office of the Assistant Secretary for Planning & Evaluation

U.S. Department of Health and Human Services

The Federal CARB Task Force

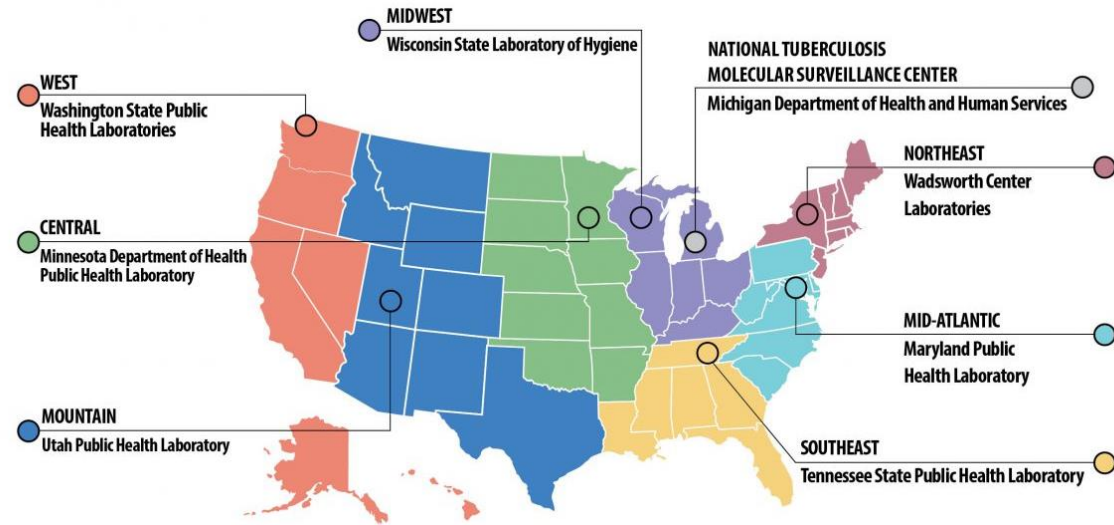


The U.S. Government response to antibiotic resistance



Since 2015...

- Developed effective strategies to prevent infections, and supported stewardship across healthcare settings
- Strategic initiative to support antibiotic stewardship in veterinary settings
- New national Antibiotic Resistance Laboratory Network
- Supported the development and approval of new diagnostic and treatment options
- Biopharmaceutical accelerator, CARB-X
- Obtained hundreds of commitments to global action from a broad range of sectors and stakeholders



Source: CDC



NIFA SUPPORTS BASIC AND APPLIED RESEARCH, EDUCATION, AND EXTENSION PROJECTS THAT:

- Determine the attributable risks caused by antimicrobial use in agriculture
- Create new and improved animal disease vaccines and diagnostic tests
- Identify strategies for controlling and mitigating the emergence and spread of AMR
- Explore alternatives to antibiotics

Source: USDA



Source: CARB-X



Source: CDC

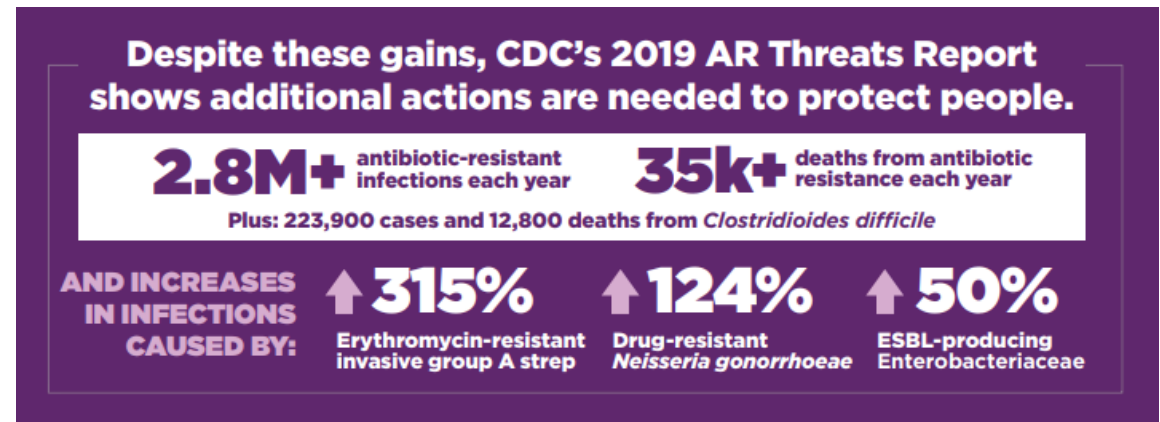
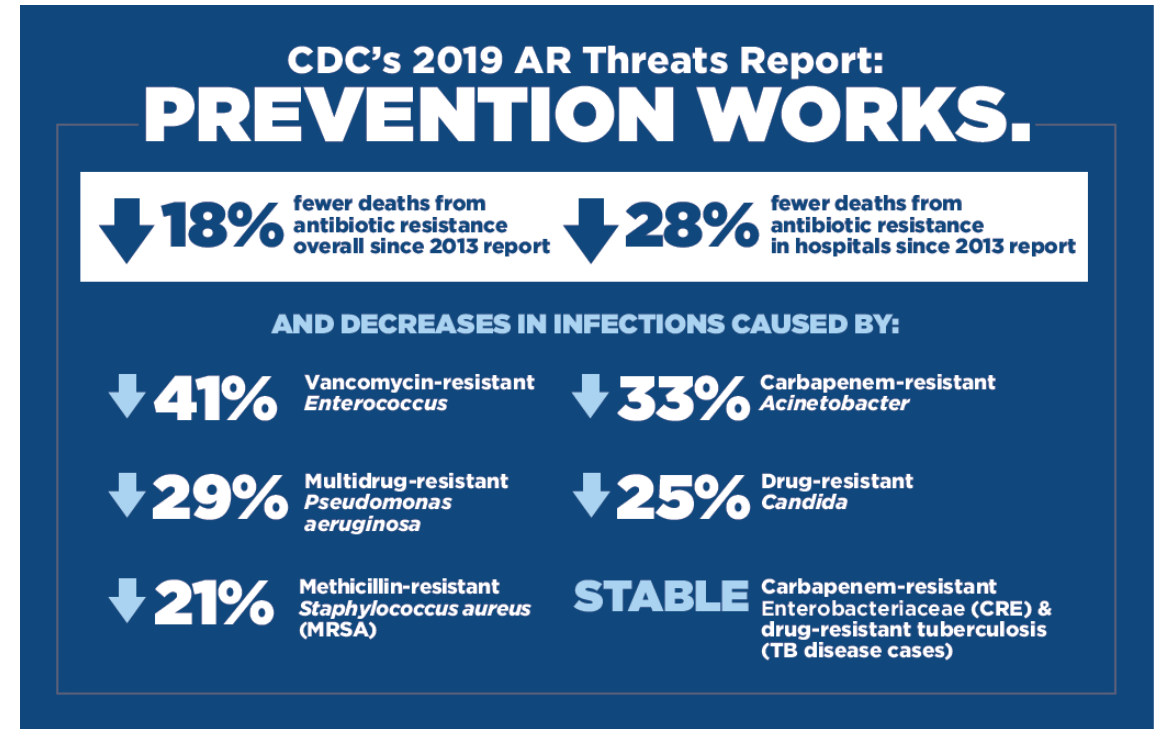
Progress, but ongoing need

Efforts to reduce the effects of antibiotic resistance are working

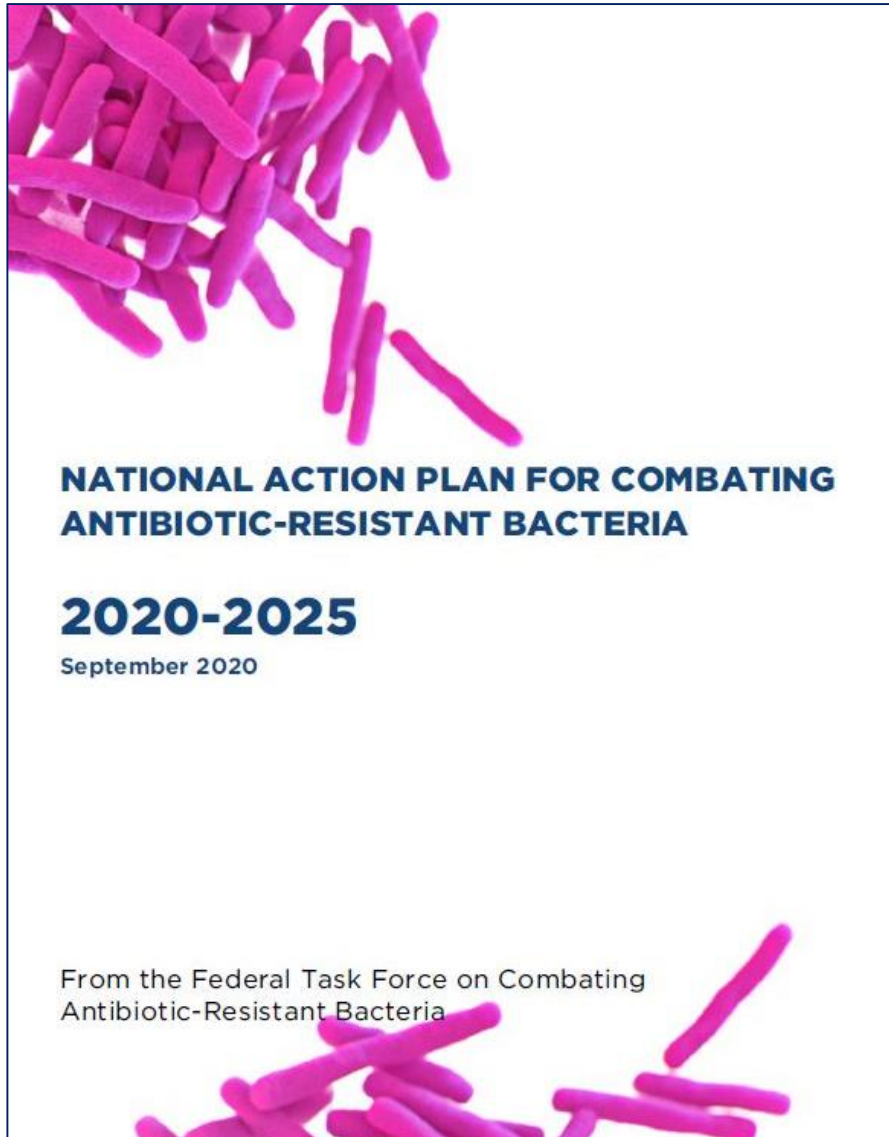
There are still too many resistant infections and too many deaths

- Some resistant infections are increasing
- New resistant pathogens emerge – e.g., *Candida auris*

Challenges with developing new antibiotic products persist

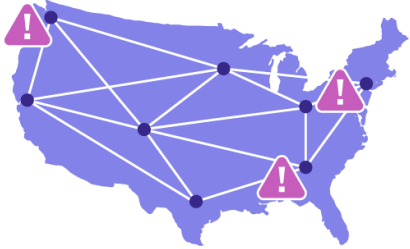


CARB National Action Plan, 2020-2025



The U.S. Government is committed to continuing the fight against antibiotic resistance.

CARB National Action Plan, 2020-2025



Starting in Fall 2018, the CARB Task Force

- Enlisted >100 federal experts, crossing the One Health spectrum
- Reviewed prior efforts and anticipated future challenges and opportunities
- Drew from public input via the PACCARB

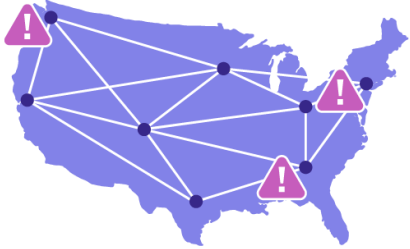
Drew from several external sources

- CDC's 2019 AR Threats Report
- GAO Report 20-341
- Public input via the PACCARB

Select PACCARB recommendations

Goal	PACCARB Recommendation	Task Force Objective
1	1.2 Widely implement IP and AS strategies that have been proven effective throughout healthcare settings and animal agriculture.	1.1 Expand national, regional, and state capacity for detection, containment, and prevention of antibiotic resistant infections.
2	2.1 Enhance antibiotic use and resistance reporting systems for human and animal health.	2.3 Strengthen the national infrastructure and improve capacity, harmonization, and utility of AR surveillance data and timely reporting across the One Health spectrum.
		2.4 Strengthen the national infrastructure and improve capacity, harmonization and utility of AU surveillance data and timely reporting across the One Health spectrum.
3	3.1 Support studies that use clinical outcomes to evaluate the use of diagnostics and advance their integration into care.	3.2 Support research to determine the appropriate use of new and existing diagnostics.
4	4.2 Continue to create push incentives for development of new antibiotics, vaccines, and alternatives.	4.2 Intensify basic, translational, and clinical research to support the discovery and development of new treatment options.
5	5.1 Enhance US leadership in the global fight against AMR.	5.1 Enhance U.S. leadership in the global fight against AMR.

CARB National Action Plan, 2020-2025



Updated measurement strategy, to better understand progress and challenges

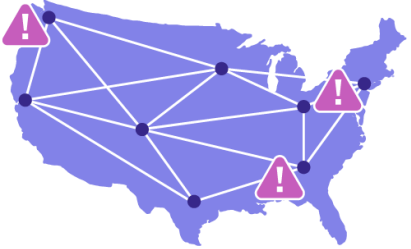
Set quantitative targets where possible

- “Increase” or “expand” recently established infrastructure
- Embed quantitative targets within the Goals and objectives

Targets can be updated annually

- Respond to the changing landscape of AMR

CARB National Action Plan, 2020-2025

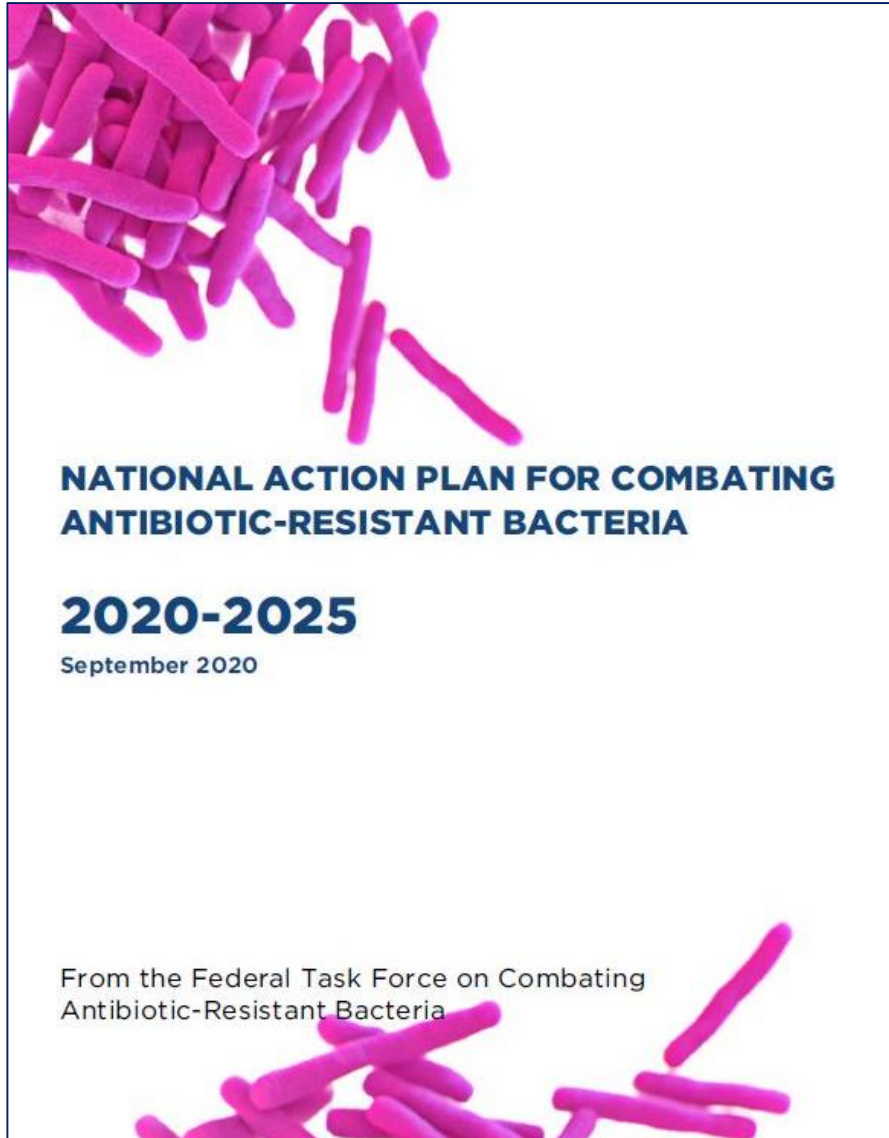


Updated reporting strategy, to increase efficiency and transparency

Annual reports will include

- Progress toward all relevant targets
- Any updates or additions to targets, with rationale
- Challenges and how they were addressed
- Focused topic narrative

CARB National Action Plan, 2020-2025



Plan link:

<https://aspe.hhs.gov/pdf-report/carb-plan-2020-2025>

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