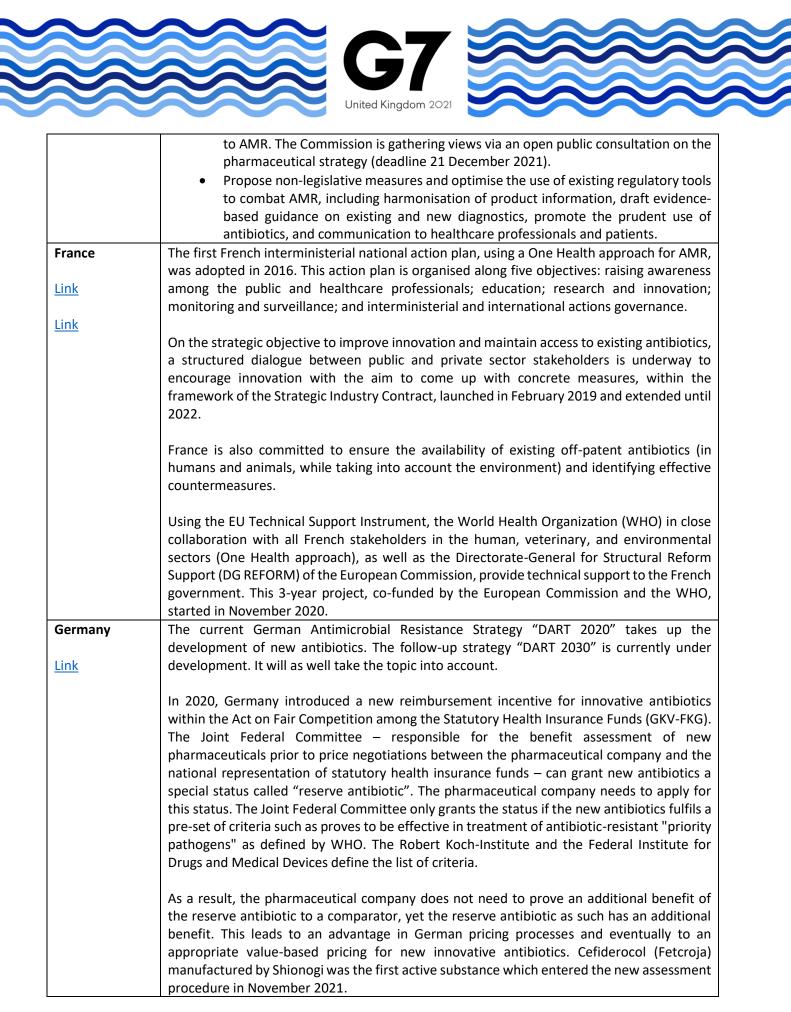


G7 Finance Ministers' Statement on Actions to Support Antibiotic Development

<u>Annex A</u>

G7 Member (links to AMR Action Plans and related strategies)	Examples of G7 actions to create the right economic conditions to preserve existing antibiotics and their access, strengthen antibiotic research and development, and bring new drugs to market
Canada Link	The Pan-Canadian Framework for Action on Antimicrobial Resistance (AMR) and Antimicrobial Use (AMU) was issued in 2017. The Framework identifies opportunities for action and desired outcomes under four pillars: surveillance, stewardship, infection prevention and control, and research and innovation.
	 The Framework includes these opportunities for action with respect to research and innovation: Support a cross-sectoral, multidisciplinary research network to facilitate
	antimicrobial discovery, best practices, behavioural research, and economic and production impacts across sectors and jurisdictions.
	 Explore mechanisms to develop the capacity and appropriate infrastructure required to further support the development of human and veterinary medicines and alternative tools.
	 Establish a fast-tracked cost-effective process for licensing antimicrobial drugs, alternatives to antimicrobials and new diagnostic tools in Canada to incentivise pharmaceutical investment without compromising safety, efficacy, and quality.
	The new Pan-Canadian Action Plan on AMR and AMU is being developed in cooperation with provincial and territorial governments, Indigenous partners, and stakeholders to define specific priorities for collaborative action and move forward with implementation.
EU Link	Following the implementation of the 2017 AMR EU Action plan, the EU Commission in November 2020 adopted the Pharmaceutical Strategy for Europe that will address several AMR challenges including issues around investment and raising AMR awareness. Flagship initiatives proposed in relation to AMR include measures to reduce excessive and
<u>Link</u>	inappropriate use of antibiotics and new incentive models to develop antimicrobials.
	 Proposed initiatives related to AMR include to: Pilot innovative approaches to EU R&D and public procurement for antimicrobials and their alternatives aiming to provide pull incentives for novel antimicrobials. The pilot is on-going with proposals submitted in response to the Horizon Europe research calls currently being evaluated. Promote investment and coordinate research, development, manufacturing, deployment, and use for novel antibiotics as part of the new EU Health Emergency
	 Response Authority, prior to the start of the Authority's operations on preparatory action on AMR. Consider in the review of the pharmaceutical legislation to introduce measures to restrict and optimise the use of antimicrobial medicines. Explore new types of incentives for innovative antimicrobials. Work is on-going with ambitious timelines for the adoption of a legal proposal, including consideration of provisions relevant





Italy	In 2017, Italy adapted its first National Astics Dian on Antimicrobial Desister 2017, 2020
Italy Link	In 2017, Italy adopted its first National Action Plan on Antimicrobial Resistance 2017-2020. The plan set out six areas of interest: antibiotic resistance surveillance and prevention; appropriate use and surveillance of antimicrobial consumption; surveillance, prevention and
	control of healthcare associated infections; training of healthcare staff; information and
<u>Link</u>	education of the population; and research and innovation.
	A new "AMR committee AIFA-OPERA" (2021-2024) within the Italian Medicines Agency (AIFA) has been created which would provide advice on antibiotics including proposals for
	new models to incentivise antibiotic research and development. Its short-term goals include development of recommendations based on the best scientific evidence of antibiotic
	therapy of infections for both hospitals and general practitioners, and strengthening
	antibiotic monitoring systems. The long-term goals comprise development of coherent actions, including awareness campaigns, creation of a network of centres of excellence to
	support AIFA-OPERA's training and research activities.
Japan	Japan's AMR National Action Plan 2016-2020 is structured around six areas: public awareness and education; surveillance and monitoring; infection prevention and control;
<u>Link</u>	appropriate use of antimicrobials; research and development; and international cooperation. Within this, the government made a commitment to push incentives for the
	research and development of antibiotics.
	At the Tokyo Meeting of Health Ministers on Antimicrobial Resistance in April 2016, "Asia-
	Pacific One Health Initiative on AMR (ASPIRE)" was declared to jointly identify and address the challenges posed by AMR in the Asia Pacific region. At the Tokyo AMR One Health
	conference in February 2021, working groups were established that represent the four
	pillars of ASPIRE: 1) surveillance system and laboratory network; 2) health-care management; 3) antimicrobial access and regulation; and 4) research and development.
	Japan has a special pricing scheme of drugs to promote innovation. Started in 2010 and
	applied to special premium to drugs that demonstrate a high degree of benefit relative to other drugs, in 2020 its scope was extended to cover antimicrobials to stimulate innovation.
UK	The UK's 20-year vision for AMR aims to drive innovation that will support the development of new antimicrobials and support sustainable supply and access to products in the
<u>Link</u>	future. This is supported by the UK's AMR National Action Plan for 2019-24, issued in
	January 2019, which includes a key commitment 'develop and test new models for national purchasing arrangements that de-link the price paid for antimicrobials from the volumes
	sold, using a NICE led healthcare technology assessment to support robust stewardship'.
	The idea of the payment approach is to move away from paying for individual packs of
	antimicrobials and, instead, make an annual payment based on the health benefits to patients and the wider value to the NHS.
	In December 2020, NHS England and Improvement, in collaboration with the National
	Institute for Health and Care Excellence (NICE) and the Department of Health and Social Care (DHSC), selected the first antimicrobial drugs to be purchased via the UK's innovative
	'subscription-type' payment model.
	Following a rigorous process with expert clinical input, two treatments, Cefiderocol
	(Fetcroja) manufactured by Shionogi, and ceftazidime with avibactam (Zavicefta)

*	United Kingdom 2021
	manufactured by Pfizer, were selected to move to an innovative health technology evaluation process.
	The evaluation process for the two products is in progress by NICE, applying a framework for the evaluation of antimicrobials developed for this project. A special NICE Advisory Committee has been established for this project and the Committee meetings, where the patient and public health benefits will be considered and captured, are scheduled in January and February 2022. The guidance from these meetings will be used by NHS England in final commercial discussions with the companies. It is anticipated that these products will be made available to patients via a subscription-based payment model from Spring 2022.
US	Prioritising incentives and other action, including market entry, to address the antibiotic and antifungal R&D pipeline is a longstanding priority of the U.S. Department of Health and Human Services (HHS). Efforts are covered in the US Covernment's first (2015-2020) and
<u>Link</u>	Human Services (HHS). Efforts are covered in the US Government's first (2015-2020) and second AMR National Action Plan (NAP) 2020-2025. Both NAPs direct federal agencies to accelerate the US response to antibiotic resistance by presenting coordinated, strategic actions to improve the health and well-being of all Americans across the One Health spectrum. The 2015-2020 NAP directed federal agencies to establish an accelerator for the pipeline of antibiotics, and other therapeutics, diagnostics, and vaccines, resulting in CARB-X.
	Two of the 2020-5 NAP's five strategic goals are directly related to supporting antibiotic development: Goal 4 – accelerate basic and applied research and development for new antibiotics, other therapeutics, and vaccines; and Goal 5 – improve international collaboration and capacities for antibiotic-resistance prevention, surveillance, control and antibiotic research and development.
	In addition to early R&D support by CARB-X, HHS's Office of the Assistant Secretary for Preparedness and Response's Biomedical Advanced Research and Development Authority has dedicated late-stage clinical development support to promote antibiotic research and development.
	 In addition to actions under the NAP, the United States has implemented additional steps including: Generating Antibiotic Incentives Now Act (GAIN Act) of 2012, which provides benefits to manufacturers of Qualified Infectious Disease Products (QIDPs) including 5 years of additional nonpatent exclusivity.
	• The 21st Century Cures Act which took steps to streamline clinical trials for antimicrobials that treat serious or life-threatening infections for which there are unmet medical needs.
	 Centers for Medicare & Medicaid Services (CMS) issued a final rule expanding the pathway for certain new antibiotics, with a QIDP designation, to receive an add-on payment for the use of the appropriate antibiotic. CMS also issued a rule requiring all acute-care hospitals that participate in Medicare or Medicaid to develop and implement an antibiotic stewardship program as part of their infection control efforts showing the benefit of linking stewardship requirements to efforts to address the R&D pipeline.



