

ROADMAP FOR THE IMPLEMENTATION OF ACTIONS BY THE EUROPEAN COMMISSION BASED ON THE COMMISSION COMMUNICATION AND THE COUNCIL RECOMMENDATION ON STRENGTHENING COOPERATION AGAINST VACCINE PREVENTABLE DISEASES

ACTIONS	TIMELINES AND DELIVERABLES				
	2018	2019	2020	2021	2022
<p>Examine the feasibility of developing a common vaccination card/passport for EU citizens (that takes into account potentially different national vaccination schedules and), that is compatible with electronic immunisation information systems and recognised for use across borders, without duplicating work at national level.</p> <p style="text-align: right;">CR 16 and CC*</p>		<p>Feasibility study for the development of a common EU vaccination card - completed -publication pending</p>			<p>Commission proposal for a common vaccination card/ passport for EU citizens - considered delivered in the format of Commission proposal for Regulation on the European Health Data Space: https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A52022PC0197</p>
<p>Produce on a regular basis a Report on the State of Vaccine Confidence in the EU, to monitor attitudes to vaccination. Based on that report and taking into account related work by WHO, present guidance that can support Member States in countering vaccine hesitancy.</p> <p style="text-align: right;">CR 17 and CC</p>		<p>State of Vaccine Confidence in the EU 2020. Follow up of study published in October 2018. See https://health.ec.europa.eu/vaccination/state-vaccine-confidence_en</p> <p>Guidance on countering vaccine hesitancy tailored to specific needs identified by the Member States and/ or vaccine specific issues - ECDC report on vaccine hesitancy against HPV: https://www.ecdc.europa.eu/sites/default/files/documents/Guidance-on-HPV-vaccination-in-EU-countries2020-03-30.pdf</p> <p>Special Eurobarometer - Europeans' attitudes towards vaccination: https://health.ec.europa.eu/system/files/2019-04/20190426_special-eurobarometer-sp488_en_0.pdf</p>			

* Basis for action:

CR for Council Recommendation and the number of the Recommendation in the legal text. CC for Commission Communication

ACTIONS

TIMELINES AND DELIVERABLES

	2018	2019	2020	2021	2022
<p>Convene a Coalition for Vaccination to bring together European associations of healthcare workers as well as relevant students' associations in the field, to commit to delivering accurate information to the public, combating myths and exchanging best practice.</p> <p style="text-align: right;">CR 18 and CC</p>		<p>Convened in March 2019, follow-up meeting in September 2019</p>	<p>Annual meetings 2020, 2021, 2022, to take note of compliance with commitments made by members of the Coalition for Vaccination</p>		
<p>Strengthen the impact of the annual European Immunisation Week by hosting an EU public awareness initiative and supporting Member States' own activities.</p> <p style="text-align: right;">CR 19</p>			<p>EU public awareness initiative on vaccination during the European Immunisation Week - ECDC contributed the European Immunisation Week in 2020 (launch of the European Vaccination Information Portal), 2021 and 2022.</p>		
<p>Identify barriers to access and support interventions to increase access to vaccination for disadvantaged and socially excluded groups, including by promoting health mediators and grassroots community networks, in line with national recommendations.</p> <p style="text-align: right;">CR 20 and CC</p>		<p>Guidance on increasing access to vaccination for disadvantaged and socially excluded groups - publication pending - expected Q4 2022</p>			
		<p>Country reports on research-based determinants behind high and low vaccination coverage - delivered by the European Joint Action on Vaccination Work Package 8: https://eu-jav.com/</p>			
		<p>E-learning platform to share country reports, provide a database on structured country reports - delivered by the European Joint Action on Vaccination Work Package 8: https://eu-jav.com/</p>			
		<p>Series of webinars about specific cases, projects and initiatives dealing with vaccine hesitancy and uptake-related issues, involving broad range of stakeholders - delivered by the European Joint Action on Vaccination Work Package 8: https://eu-jav.com/</p>			

ACTIONS

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2018

2019

2020

2021

2022

Guidance on electronic immunization information systems: handbook to help countries upgrading current EIS systems in place or set up new ones where these are not in place yet - ECDC guidance on Immunisation Information systems: https://www.ecdc.europa.eu/sites/default/files/documents/designing-implementing-immunisation-information-system_0.pdf

Outline of core functionalities for information sharing and vaccine coverage assessment pilot platform, based on input from stakeholders - delivered by the Joint Action on Vaccination Work Package 5: <https://eu-jav.com/>

Protocol for harmonized estimations of vaccination coverage of first and second dose with mumps-measles-rubella vaccine (MMR1 and MMR2) - delivered by the European Joint Action on Vaccination - Work Package 5: <https://eu-jav.com/>

Open-source computer algorithm that can be shared and run by regions, countries with electronic immunisation information systems or other similar data source, completed by data on doses of measles containing vaccines - delivered by the Joint Action on Vaccination - Work Package 5: <https://eu-jav.com/>

Common pilot online platform where vaccine coverage estimations for cross-border vaccine coverage assessments can be shared publicly - delivered by the European Joint Action for Vaccination - Work Package 5: <https://eu-jav.com/>

Report on data collection procedures, datasets used and interoperability assessment of electronic immunisation information systems in the EU area - delivered by the European Joint Action on Vaccination Work Package 5: <https://eu-jav.com/>

Report that describes existent reminder systems and provides recommendations for future systems - delivered by the European Joint Action for Vaccination Work Package 5: <https://eu-jav.com/>

Report that describes the feasibility of conducting coordinated cross-border measles vaccination campaigns - delivered by the European Joint Action for Vaccination Work Package 5: <https://eu-jav.com/>

Develop **EU guidance for establishing comprehensive electronic immunization information systems** for effective monitoring of immunization programmes.

ACTIONS	TIMELINES AND DELIVERABLES				
	2018	2019	2020	2021	2022
<p>Develop guidance to overcome the legal and technical barriers impeding the interoperability of national immunisation information systems, having due regard to rules on personal data protection, as set out in the Commission Communication on enabling the digital transformation of health and care in the Digital Single Market, empowering citizens and building a healthier society.</p> <p style="text-align: right;">CR 21 and CC</p>				<p>Guidance on overcoming legal (and technical) barriers to the interoperability of national immunisation information systems - considered delivered in the format of the the Commission Recommendation on a European Electronic Health Record exchange format (https://digital-strategy.ec.europa.eu/en/library/recommendation-european-electronic-health-record-exchange-format) and the guideline for an electronic Patient Summary (https://health.ec.europa.eu/system/files/2021-07/ehn_guidelines_patientsummary_en_0.pdf)</p>	
<p>Continue to support research and innovation through the EU framework programmes for Research and Innovation for the development of safe and effective new vaccines, and the optimisation of existing vaccines.</p> <p style="text-align: right;">CR 22</p>	<p>Projects funded under Horizon 2020 and Horizon Europe - delivered (action of continuous character). See https://ec.europa.eu/info/research-and-innovation/research-area/health-research-and-innovation/coronavirus-research-and-innovation/vaccines_en, https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-2020_en and https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe_en</p>				
<p>Strengthen existing partnerships and collaboration with international actors and initiatives, such as the WHO and its Strategic Advisory Group of Experts on Immunization (SAGE), the European Technical Advisory Group of Experts on Immunization (ETAGE), the Global Health Security Initiative and Agenda processes (Global Health Security Initiative, Global Health Security Agenda), Unicef and financing and research initiatives like Gavi, CEPI, GloPID-R and JPIAMR (the Joint Programming Initiative on Antimicrobial Resistance).</p> <p style="text-align: right;">CR 23 and CC</p>		<p>Global Vaccination Summit organised by the European Commission in cooperation with the World Health Organization. Delivered on 12 September 2019. Outcome: https://health.ec.europa.eu/system/files/2019-11/10actions_en_0.pdf</p>			

ACTIONS

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	2018	2019	2020	2021	2022
Develop evidence-based tools and guidance at EU level in order to support countries to anticipate, pre-empt or respond to crisis situations.	Report on previous experience about vaccine shortages and responses of EU countries - delivered by the European Joint Action Work Package 6: https://eu-jav.com/				
	Guidelines on procedures to estimate vaccine needs and procurement in the EU - delivered by the European Joint Action on Vaccination - Work Package 6: https://eu-jav.com/				
	Report on the financial mechanism for joint procurement based on an evaluation of the financing mechanisms in different countries - delivered by the European Joint Action on Vaccination - Work Package 6: https://eu-jav.com/				
	Establish a vaccine network with Member States to leverage the sustainability of activities of the joint action beyond the project - delivered by the European Joint Action for Vaccination Work Package 4: https://eu-jav.com/				
	Develop an "integration of outcomes of the joint action into national policies & sustainability" plan to strive towards a converging vaccine agenda for the most commonly used vaccines at EU level - delivered by the European Joint Action on Vaccination Work Package 4: https://eu-jav.com/				
	Overview of EU-level and national legal and technical frameworks and operational criteria for decision-making on vaccination policies and available (EU and national) platforms - delivered by the European Joint Action on Vaccination Work Package 4: https://eu-jav.com/				
	Survey on the range of attributable costs used for the most recent MS-National Immunisation Technical Advisory Groups (NITAGs) evaluations available - delivered by the European Joint Action on Vaccination Work Package 4: https://eu-jav.com/				
	Pilot of a technical collaboration to establish an active cooperation structure across NITAGs - delivered by the European Joint Action on Vaccination Work Package 4: https://eu-jav.com/				
	Pilots to provide an overview about the evidence-base of national immunisation programmes - delivered by the European Joint Action on Vaccination Work Package: https://eu-jav.com/				
	Countering online vaccine misinformation, taking into account the Commission Communication on tackling online disinformation - ECDC report on countering online vaccine misinformation in the EU/EEA: https://www.ecdc.europa.eu/sites/default/files/documents/Countering-online-vaccine-misinformation-in-the-EU-EEA.pdf				
Counter online vaccine misinformation and develop evidence-based information tools and guidance to support Member States in responding to vaccine hesitancy, in line with the Commission Communication on tackling online disinformation.		Online and offline promotion of the new information tools (through social media, search engine optimisation, specialised media) in particular towards the sectors of health care, education, social services, media - toolset for online use: https://drive.google.com/drive/folders/1XkWCXu2541Cth2BtRvWHazTbHkiv2Rc			

CC

CR 9c and CC

ACTIONS	TIMELINES AND DELIVERABLES				
	2018	2019	2020	2021	2022
Establish a European Vaccination Information Sharing system.	<p>Launch of the key projects to establish a European Vaccination Information Sharing System - delayed due to the COVID-19 pandemic</p>				
	<p>Examine the feasibility of establishing, by 2020, guidelines for a core EU vaccination schedule taking into account WHO recommendations for routine immunisation, aiming to improve the compatibility of national schedules and promote equity in Union citizens' health protection - delayed due to the COVID-19 pandemic</p>				
	<p>Strengthen consistency, transparency, and methodologies in the assessment of national and regional vaccination plans, by sharing scientific evidence and tools with the support of NITAGs - NITAGs network set up with multiple work streams.</p>				
	<p>Design EU methodologies and guidance on data requirements for better monitoring of vaccination coverage rates across all age groups, including healthcare workers, in cooperation with the WHO and collect such data and share them at EU level - considered delivered as this will be carried out under ECDC strengthened mandate. See https://ec.europa.eu/info/strategy/priorities-2019-2024/promoting-our-european-way-life/european-health-union_en</p>				
	<p>Collect vaccination coverage data and share them at EU level - considered delivered as this will be carried out under ECDC strengthened mandate. See https://ec.europa.eu/info/strategy/priorities-2019-2024/promoting-our-european-way-life/european-health-union_en and https://ec.europa.eu/commission/presscorner/detail/en/ip_21_6435</p>				
	<p>Establish, by 2019, a European vaccination information portal, with the support of the European Medicines Agency, to provide objective, transparent and updated evidence online on vaccination and vaccines, their benefits and safety, and the pharmacovigilance process - full, first version launched during the European Immunization Week 2020: https://vaccination-info.eu/en</p>				

CR 9 and CC

ACTIONS	TIMELINES AND DELIVERABLES						
	2018	2019	2020	2021	2022		
<p>Continuously monitor the benefits and risks of vaccines and vaccinations, at EU level, including through post-marketing surveillance studies.</p> <p>CR 10 and CC</p>		<p>Create a sustainable and multi-stakeholder platform for EU post-marketing surveillance studies monitoring the safety, effectiveness, and impact of vaccination - considered delivered as this will be carried out under strengthened ECDC and EMA mandates. See https://ec.europa.eu/info/strategy/priorities-2019-2024/promoting-our-european-way-life/european-health-union_en. See https://ec.europa.eu/commission/presscorner/detail/en/ip_21_6435 and https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32022R0123&qid=1657698532918</p>					
<p>Work towards developing common methodologies and strengthen the capacities to assess the relative effectiveness of vaccines and vaccination programmes.</p>				<p>Guidance on methodologies to assess relative effectiveness of vaccines and vaccination programmes - considered delivered as this will be carried out under the Annual Work Programme 2021 of the EU4Health Programme. See https://ted.europa.eu/udl?uri=TED:NOTICE:31109-2022:TEXT:EN:HTML&src=0</p>			
<p>Strengthen the effective application of Union rules on the protection of workers from risks related to exposure to biological agents at work, as laid down in Directive 2000/54/EC and Council Directive 2010/32/EU, taking into account national competences, in particular by supporting continuing education of healthcare workers, monitoring their immunisation status and actively offering vaccination where necessary, to ensure adequate levels of patient and healthcare-workers' safety.</p> <p>CR 12 and CC</p>		<p>Evaluation of implementation of Directive 2000/54/EC in the various Member States - delivered. See https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A52021SC0148&qid=1657701851017</p>					
<p>Provide evidence and data, including through the European Schoolnet, to support Member States' efforts to strengthen the aspects related to vaccinology and immunisation in their national medical curricula and postgraduate education</p> <p>CR 13 and CC</p>		<p>Development of e-learning training modules targeting GPs and primary healthcare providers focused on improving skills to address hesitant populations and promote behavioural change - delayed due to the COVID-19 pandemic</p>					

ACTIONS

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	2018	2019	2020	2021	2022
<p>Consider developing a virtual European data warehouse on vaccine needs and, if applicable, offerable stocks, to facilitate the voluntary exchange of information on available supplies, possible surpluses and global shortages of essential vaccines.</p> <p style="text-align: right;">CR 14a and CC</p>	<p>Develop common principles for vaccine demand forecasting - delivered by the European Joint Action for Vaccination Work Package 6: https://eu-jav.com/.</p> <p>Development of a concept for a regional or European data warehouse for (virtual stockpiling and vaccine management) needs - delivered by the European Joint Action Work Package 6: https://eu-jav.com/.</p>				<p>Develop a virtual European data warehouse on vaccine needs and, if applicable, offerable stocks, to facilitate the voluntary exchange of information on available supplies, possible surpluses and global shortages of essential vaccines - considered delivered due to the set-up of DG HERA. See https://ec.europa.eu/info/strategy/priorities-2019-2024/promoting-our-european-way-life/european-health-union_en</p>
<p>Explore feasibility of physical stockpiling and engage in a dialogue with vaccine producing companies on a mechanism to facilitate the stockpiling and availability of vaccines in case of outbreaks, taking into account global shortages of essential vaccines.</p> <p style="text-align: right;">CR 14 b and c and CC</p>	<p>Study exploring the feasibility of and identifying options for physical stockpiling of vaccines - considered delivered due to the set-up of DG HERA. See https://ec.europa.eu/info/strategy/priorities-2019-2024/promoting-our-european-way-life/european-health-union_en</p>				
<p>Consider developing a concept for a mechanism for exchanging vaccine supplies from one Member State to another in case of an outbreak, improving the links between supply and demand for vaccines.</p>	<p>Concept for a mechanism for exchanging vaccine supplies from one Member State to another in case of an outbreak - considered delivered due to the set-up of DG HERA. See https://ec.europa.eu/info/strategy/priorities-2019-2024/promoting-our-european-way-life/european-health-union_en</p>				

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	2018	2019	2020	2021	2022
<p>Consider, jointly with stakeholders, in particular with the vaccine-manufacturing industry, which has a key role in meeting these aims, possibilities for improving EU manufacturing capacity, ensuring continuity of supply and ensuring diversity of suppliers.</p> <p style="text-align: right;">CR 14d</p>			<p>Conference on improving EU manufacturing capacity and ensuring continuity of supply - considered delivered due to the set-up of DG HERA. See https://ec.europa.eu/info/strategy/priorities-2019-2024/promoting-our-european-way-life/european-health-union_en</p>		
<p>Exploit the possibilities of joint procurement of vaccines or antitoxins to be used in cases of pandemics, unexpected outbreaks and in case of small vaccine demand (small number of cases or very specific populations to be covered).</p> <p style="text-align: right;">CR 14e</p>		<p>Joint procurement of pandemic influenza vaccine Framework contracts signed in March 2019. See https://health.ec.europa.eu/vaccination/influenza_en</p>			
<p>Support the EU Official Medicines Control Laboratories network and its work to ensure that vaccines placed on the EU market are of high quality.</p> <p style="text-align: right;">CR 14f</p>		<p>Meeting with the EU Official Medicines Control Laboratories network - delivered</p>			
<p>Monitor compliance with the obligation of continuous supply of medicines placed on marketing authorisation holders (Article 81 of Directive 2001/83/EC) and explore ways to enhance compliance with that obligation.</p> <p style="text-align: right;">CR 14g</p>		<p>Examination whether this article has been implemented in full in national legislation - delivered</p>			
<p>Consider facilitating –together with EMA- early dialogue with developers, national policy-makers and regulators in order to support the authorisation of innovative vaccines, including for emerging health threats.</p> <p style="text-align: right;">CR 14h</p>		<p>Actions to facilitate early dialogue with developers, national policy-makers and regulators in order to support the authorisation of innovative vaccines, including for emerging health threats - considered delivered due to the set-up of DG HERA. See https://ec.europa.eu/info/strategy/priorities-2019-2024/promoting-our-european-way-life/european-health-union_en</p>			

ACTIONS	TIMELINES AND DELIVERABLES				
	2018	2019	2020	2021	2022
<p>Reinforce existing partnerships and research infrastructures, and establish new ones, including for clinical trials.</p> <p style="text-align: right;">CR 15a and CC</p>	<p>Establishment of research networks for clinical trials and fostering collaborative research infrastructures and/or programmes e.g. clinical trial network to be established, ECRIN, support to CEPI, EDCTP-2, etc. - delivered (action of continuous character). See in particular https://vacCELERATE.eu/</p>				
<p>Seek consensus on unmet population needs and agreed priorities for vaccines that can be used to inform future vaccine research funding programmes at national and EU level, including leveraging the advantages of the Coalition for Epidemic Preparedness Innovations (CEPI) and the Global Research Collaboration for Infectious diseases Preparedness (GloPID-R).</p> <p style="text-align: right;">CR 15b and CC</p>	<p>Roadmap of unmet population needs and agreed priorities for vaccines - delivered by the European Joint Action on Vaccination Work Package 7: https://eu-jav.com/</p> <p>Agree on a subset of vaccines as regards research priorities - delivered by the European Joint Action on Vaccination Work Package 7: https://eu-jav.com/</p> <p>Define a concept framework for decision-making on research priorities for an agreed subset of vaccines - delivered by the European Joint Action on Vaccination Work Package 7: https://eu-jav.com/</p> <p>Define a proposal for an annual list of EU vaccine research priorities - delivered by the European Joint Action on Vaccination Work Package 7: https://eu-jav.com/</p> <p>Report on a proposal for shared funding mechanisms based on an analysis of funding gaps and hurdles for cooperation among funders - delivered by the European Joint Action on Vaccination Work Package 7: https://eu-jav.com/</p>				
<p>Consider investing in behavioural and social science research on the determinants of vaccine hesitancy across different subgroups of the population and healthcare workers.</p> <p style="text-align: right;">CR 15c and CC</p>	<p>Set of actions funded by Horizon 2020 and actions undertaken by ECDC to address low-vaccine uptake, and behavioural study on vaccination to identify determinants of vaccine hesitancy across different subgroups of the population and health workers - delivered (action of continuous character). See https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-2020_en. Action linked to "Guidance on increasing access to vaccination for disadvantaged and socially excluded groups - publication pending - expected Q4 2022"</p>				
<p>Report on a regular basis, on progress in implementing the Recommendation based on indicators agreed with Member States and on information from other relevant sources.</p> <p style="text-align: right;">CR 24</p>	<p>Biannual progress report on the implementation of the Council Recommendation - ongoing - study planned for Q3 2023</p>				