### 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

- 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.

  - CR 16 and CC 3

- 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.

  - CR 17 and CC 4

#### TIMELINES AND DELIVERABLES

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* Basis for action:
  CR for Council Recommendation and the number of the Recommendation in the legal text. CC for Commission Communication
**ACTIONS**

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.

**TIMELINES AND DELIVERABLES**

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<td><strong>CR 18 and CC</strong></td>
<td><strong>CR 19</strong></td>
<td><strong>Annual meetings 2020, 2021, 2022, to take note of compliance with commitments made by members of the Coalition for Vaccination</strong></td>
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<td>Strengthen the impact of the annual European Immunisation Week by hosting an <strong>EU public awareness initiative</strong> and supporting Member States’ own activities.</td>
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<td><strong>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.</strong></td>
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<td>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.</td>
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<td>Guidance on increasing access to vaccination for disadvantaged and socially excluded groups – publication pending - expected Q4 2022</td>
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<td><strong>Country reports on research-based determinants behind high and low vaccination coverage – delivered by the European Joint Action on Vaccination Work Package 8:</strong> <a href="https://eu-jav.com/">https://eu-jav.com/</a></td>
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<td><strong>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:</strong> <a href="https://eu-jav.com/">https://eu-jav.com/</a></td>
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<td><strong>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:</strong> <a href="https://eu-jav.com/">https://eu-jav.com/</a></td>
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<td>Develop <strong>EU guidance for establishing comprehensive electronic immunization information systems</strong> for effective monitoring of immunization programmes.</td>
<td>Guidance on electronic immunization information systems: handbook to help countries upgrading current EIIS systems in place or set up new ones where these are not in place yet - ECDC guidance on Immunisation Information systems: <a href="https://www.ecdc.europa.eu/sites/default/files/documents/designing-implementing-immunisation-information-system_0.pdf">https://www.ecdc.europa.eu/sites/default/files/documents/designing-implementing-immunisation-information-system_0.pdf</a></td>
<td>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: <a href="https://eu-jav.com/">https://eu-jav.com/</a></td>
<td>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: <a href="https://eu-jav.com/">https://eu-jav.com/</a></td>
<td>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: <a href="https://eu-jav.com/">https://eu-jav.com/</a></td>
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## ACTIONS

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.

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.

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).

| CR 21 and CC | CR 22 | CR 23 and CC |

## TIMELINES AND DELIVERABLES

### 2018


Develop evidence-based tools and guidance at EU level in order to support countries to anticipate, pre-empt or respond to crisis situations.

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.

**ACTIONS**

| **TIMELINES AND DELIVERABLES** |
|---|---|---|---|---|
| **2018** | **2019** | **2020** | **2021** | **2022** |
| 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/](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/](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/](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/](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/](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/](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/](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/](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/](https://eu-jav.com/) |
| Counter 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](https://www.ecdc.europa.eu/sites/default/files/documents/Countering-online-vaccine-misinformation-in-the-EU-EEA.pdf) |
| 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/1_XkWCXuZ541Cth2BfV WHaq7hKiu2Rc](https://drive.google.com/drive/folders/1_XkWCXuZ541Cth2BfV WHaq7hKiu2Rc) |
## ACTIONS

**Establish a European Vaccination Information Sharing system.**

## TIMELINES AND DELIVERABLES

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<tr>
<td><strong>Launch of the key projects to establish a European Vaccination Information Sharing System</strong> - delayed due to the COVID-19 pandemic</td>
<td><strong>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</strong> - delayed due to the COVID-19 pandemic</td>
<td><strong>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</strong> - NITAGs network set up with multiple work streams.</td>
<td><strong>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</strong> - considered delivered as this will be carried out under ECDC strengthened mandate. See <a href="https://ec.europa.eu/info/strategy/priorities-2019-2024/promoting-our-european-way-life/european-health-union_en">https://ec.europa.eu/info/strategy/priorities-2019-2024/promoting-our-european-way-life/european-health-union_en</a> and <a href="https://ec.europa.eu/commission/presscorner/detail/en/ip_21_6435">https://ec.europa.eu/commission/presscorner/detail/en/ip_21_6435</a></td>
<td><strong>Collect vaccination coverage data and share them at EU level</strong> - considered delivered as this will be carried out under ECDC strengthened mandate. See <a href="https://ec.europa.eu/info/strategy/priorities-2019-2024/promoting-our-european-way-life/european-health-union_en">https://ec.europa.eu/info/strategy/priorities-2019-2024/promoting-our-european-way-life/european-health-union_en</a> and <a href="https://ec.europa.eu/commission/presscorner/detail/en/ip_21_6435">https://ec.europa.eu/commission/presscorner/detail/en/ip_21_6435</a></td>
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<td><strong>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</strong> - full, first version launched during the European Immunization Week 2020: <a href="https://vaccination-info.eu/en">https://vaccination-info.eu/en</a></td>
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## ACTIONS

**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.

**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.

**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.

## TIMELINES AND DELIVERABLES

<table>
<thead>
<tr>
<th>Year</th>
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<tbody>
<tr>
<td>2018</td>
<td>Develop common principles for vaccine demand forecasting - delivered by the European Joint Action for Vaccination Work Package 6: <a href="https://eu-jav.com/">https://eu-jav.com/</a></td>
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<tr>
<td>2019</td>
<td>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: <a href="https://eu-jav.com/">https://eu-jav.com/</a></td>
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**ACTIONS**  
**TIMELINES AND DELIVERABLES**

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<td>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.</td>
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<td>Conference on improving EU manufacturing capacity and ensuring continuity of supply - considered delivered due to the set-up of DG HERA. See <a href="https://ec.europa.eu/info/strategy/priorities-2019-2024/promoting-our-european-way-life/european-health-union_en">https://ec.europa.eu/info/strategy/priorities-2019-2024/promoting-our-european-way-life/european-health-union_en</a></td>
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<td>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).</td>
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<tr>
<td>Support the EU Official Medicines Control Laboratories network and its work to ensure that vaccines placed on the EU market are of high quality.</td>
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<td>Joint procurement of pandemic influenza vaccine Framework contracts signed in March 2019. See <a href="https://health.ec.europa.eu/vaccination/influenza_en">https://health.ec.europa.eu/vaccination/influenza_en</a></td>
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<td>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.</td>
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<td>Examination whether this article has been implemented in full in national legislation - delivered</td>
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<td>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.</td>
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<td></td>
<td>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 <a href="https://ec.europa.eu/info/strategy/priorities-2019-2024/promoting-our-european-way-life/european-health-union_en">https://ec.europa.eu/info/strategy/priorities-2019-2024/promoting-our-european-way-life/european-health-union_en</a></td>
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### ACTIONS

- **Reinforce existing partnerships and research infrastructures, and establish new ones, including for clinical trials.**
  - CR 15a and CC

- **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).
  - CR 15b and CC

- **Consider investing in behavioural and social science research** on the determinants of vaccine hesitancy across different subgroups of the population and healthcare workers.
  - CR 15c and CC

- **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.**
  - CR 24

### TIMELINES AND DELIVERABLES

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<tr>
<td><strong>ROADMAP ON VACCINATION</strong> Last update: Q3 2022</td>
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- **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/](https://vaccelerate.eu/)

- **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/](https://eu-jav.com/)

- **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/](https://eu-jav.com/)

- **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/](https://eu-jav.com/)

- **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/](https://eu-jav.com/)

- **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/](https://eu-jav.com/)

- **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](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”

- **Biannual progress report on the implementation of the Council Recommendation - ongoing - study planned for Q3 2023**