COVID-19 Vaccine Intelligence Network (CoWIN) is the digital backbone of India’s rapidly expanding COVID-19 vaccination program. It is a scalable, inclusive, and open platform for universal vaccination, and enables monitoring of vaccine utilization, coverage, and wastage throughout the system.

WHY Co-WIN?
In order to effectively tackle COVID-19, countries need rapid, effective, and periodic nationwide vaccination campaigns. To this end, CoWIN ensures the following:

- Each dose of vaccination is digitally acknowledged using a QR based certificate. The certificate can be easily traced and verified. This verifiable data is available in terms of total number of people vaccinated at all levels of programme management.
- Minimum prescribed time interval is maintained between the first and second doses of vaccination.
- Invariably, the same type of vaccine is administered during the second dose.
- Vaccine is administered to only an identifiable individual, thus preventing pilferage and fraud.
- In case of adverse events following immunization, beneficiaries, vaccine batches, and vaccination centers can be easily tracked.
- Vaccination data can be used for future pandemic planning and for research and development.

The CO-WIN platform is a state of the art digital solution from the Government of India to help countries of the world achieve universal vaccination against COVID-19. Capable of handling large transaction loads, CO-WIN helped administer 10 million+ doses/day multiple times.

The many challenges of implementing CoWIN in India:

- Total population: 1.36 billion
- 65% population in rural areas
- Limited mobile and internet connectivity, especially in rural and remote areas
- Vulnerable groups: People without identity cards, senior citizens and differently abled citizens
- Low digital literacy among both beneficiaries and system users

Daily vaccination rate touched a record 25 million doses on Sep 17, 2021.
<table>
<thead>
<tr>
<th>COWIN KEY FEATURES</th>
<th>ADVANTAGES FOR CITIZENS</th>
<th>COWIN KEY FEATURES</th>
<th>ADVANTAGES FOR GOVERNMENTS AND MANAGERS</th>
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<tbody>
<tr>
<td>Inclusive</td>
<td>Ensures universal access to vaccination, withstanding physical, lingual, digital, and socio-economic barriers.</td>
<td>Scalable</td>
<td>Ability to take large transaction loads. 10million+ doses/day administered multiple times</td>
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<tr>
<td>Convenient and Transparent</td>
<td>Provides easy access to information on vaccination sessions and centers.</td>
<td>Supply Chain Management</td>
<td>Holistically managing vaccine supply chain planning and operations in government as well as in private setups.</td>
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<td>Flexible</td>
<td>Offers flexibility to register online or on-site.</td>
<td>Ensures proper vaccination session management</td>
<td>Effectively and efficiently managing vaccination sessions for both online and on-site (offline/walk-in) modes (including publishing information on doses and timings).</td>
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<tr>
<td>Anytime, anywhere vaccination</td>
<td>Offers flexibility to register at any convenient access point (ensuring provision of services even in areas with limited internet and mobile connectivity).</td>
<td>Captures coverages and provides reports/dash board</td>
<td>Monitoring vaccination progress throughout the country at a granular level in terms of geographic and demographic coverage.</td>
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<td>Informative</td>
<td>Tracks the time interval between two doses of vaccination (as per the type of vaccine administered) and alerts when the second dose is due.</td>
<td>Simple user interfaces</td>
<td>Offers ease of use to all system users, especially for vaccinators at the front-end.</td>
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<td>Digitally verifiable (verify.cowin.gov.in)</td>
<td>Instantly issues a digital certificate after each dose of vaccination; the certificate is verifiable, both online and offline.</td>
<td>Minimizes vaccine wastage</td>
<td>Assessing the extent of vaccine wastage and facilitating execution of appropriate measures to minimize it.</td>
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<td>Provisions for vulnerable groups</td>
<td>Provisions special vaccination sessions for people without a valid photo identity proof.</td>
<td>Tracks adverse events following immunization (AEFI)</td>
<td>Reporting of AEFIs on real-time basis to enable investigation and intervention, whenever required.</td>
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<td></td>
<td>Provisions special “near to home” vaccination sessions for elderly and differently abled citizens.</td>
<td>Data aggregation</td>
<td>Collating vaccination data to facilitate research and development, including newer vaccines and appropriate booster doses, and to inform pandemic planning and policy decisions at micro and macro levels.</td>
</tr>
</tbody>
</table>
Despite the many challenges, CoWIN is successfully spearheading the world’s largest vaccination drive against COVID-19 in India:
(Data updated as on Sep 28, 2021)

- More than 705 million citizens registered on CoWIN portal through online and on-site modes (scalable up to one billion plus citizens).
- More than 870 million doses of vaccine administered and duly recorded on CoWIN.
- Nearly 7.17 million vaccination sessions held across the country.
- Vaccination sessions conducted across 327604 centres, 73% are in rural areas.
- Vaccination coverage in hard-to-reach tribal areas better than the national average.
- Real-time monitoring of national vaccination programme with desegregated demographic and geographic data at the national, sub-national, local, and health facility level.
- Seamless integration and roll-out of newly approved vaccines with different vaccination schedules.
The Government of India will provide detailed Co-WIN demonstrations and address any specific requirements prior to establishment of a bilateral Memorandum of Understanding covering the possible areas of focused support, including:

**Technology transfer**
- Transfer of the Co-WIN platform/software as a free utility.
- Customization/modification of Co-WIN in accordance with national context and needs.
- Data security and sovereign autonomy retention by country/region seeking support.
- Hosting of Co-WIN platform in alignment with each country’s requirements and/or applicable guidelines.

**Knowledge transfer and implementation support**
- Comprehensive training/capacity-building and support materials.
- Training of ‘master trainers’ as required.
- Support to development and roll-out of national implementation plan.
- Local support by the United Nations Development Programme (UNDP) country teams for detailed onboarding and implementation.

**Contact Information**
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The Co-WIN platform was developed under the leadership of the Ministry of Health and Family Welfare (MoH&FW) of the Government of India, with the technical and implementation support of the United Nations Development Programme (UNDP) in India.