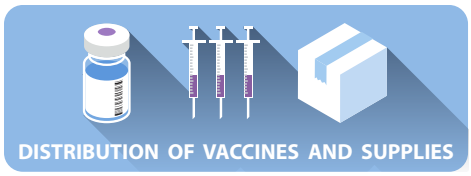
National Center for Immunization and Respiratory Diseases

Pandemic Vaccine Program Distribution, Tracking, and Monitoring

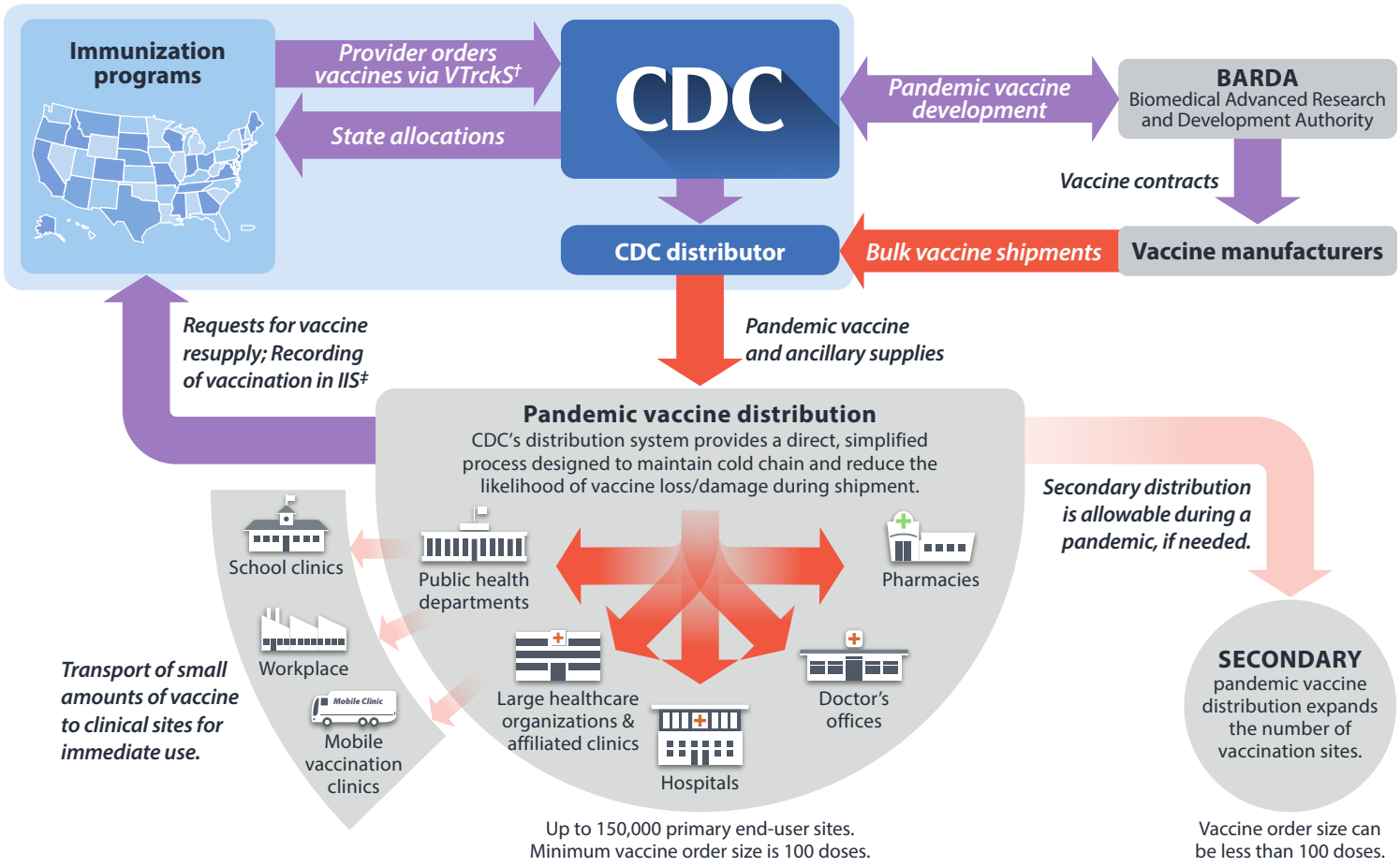
During a pandemic, CDC will scale up existing vaccine distribution, tracking, and monitoring systems to support the response.



Vaccine handling, distribution, and tracking

Secure storage and safe and efficient distribution of vaccine are the cornerstones of a successful vaccination program. CDC's vaccine distribution system, which transfers products to sites where they will be securely stored for later use, is flexible, scalable, and tested. This system ensures maintenance of cold chain*, which is essential to vaccine effectiveness. Each year, CDC distributes over 75 million doses of vaccines from every vaccine manufacturer to health departments and private health providers across the country. From these sites, vaccine may be transported in small quantities to clinical sites for immediate use, while maintaining cold chain. During an emergency, this proven system can be scaled up and expedited to manage and distribute almost 900 million doses of vaccine. It is the only existing vaccine distribution system with the capacity and flexibility to reach the entire nation to support the needs of a pandemic.

Distribution of pandemic vaccine and supplies



* https://www.cdc.gov/vaccines/hcp/admin/storage/index.html
† The Vaccine Tracking System (VTrcks) is CDC's management and ordering systems for publicly-funded vaccines.
‡ Immunization Information System (IIS)

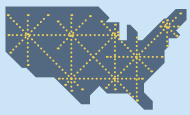
www.cdc.gov/flu/pandemic-resources/

Tracking and monitoring vaccination

Record every vaccine dose administered

Identify all adverse events

Assess the population



Immunization Information Systems (IIS)

Vaccine safety reporting systems

National vaccine surveys

National level data utilization

Vaccine coverage will be monitored by jurisdiction-based IIS and national surveys.
National, regional, and local level data will inform decision-making and outreach priorities.

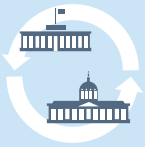
Inventory management of federal vaccine assets

National, regional, state, local vaccination coverage monitoring

Vaccine program modifications based on vaccine safety findings

Targeted outreach and program activities

Tailored communications based on knowledge attitudes, beliefs about vaccination



Coordinate data sharing across jurisdictions

CDC's Pandemic Vaccine Program

FLEXIBLE

SCALABLE

TESTED

CDC pandemic vaccine references and resources

Flu VaxView: www.cdc.gov/flu/fluvaxview/index.htm

Immunization Information Systems (IIS): www.cdc.gov/vaccines/programs/iis/index.html

National pandemic influenza strategy: www.cdc.gov/flu/pandemic-resources/national-strategy/index.html

Vaccine storage and handling: www.cdc.gov/vaccines/hcp/admin/storage-handling.html

Vaccine Tracking System (VTrckS): www.cdc.gov/vaccines/programs/vtrcks/index.html