

SNS / CHEMPACK Program

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Outline

- SNS Program History / Overview
- Requesting SNS
- Distribution Models
- CHEMPACK Program History / Overview
- Containers Types and Antidotes



Texas Department of State
Health Services

Strategic National Stockpile

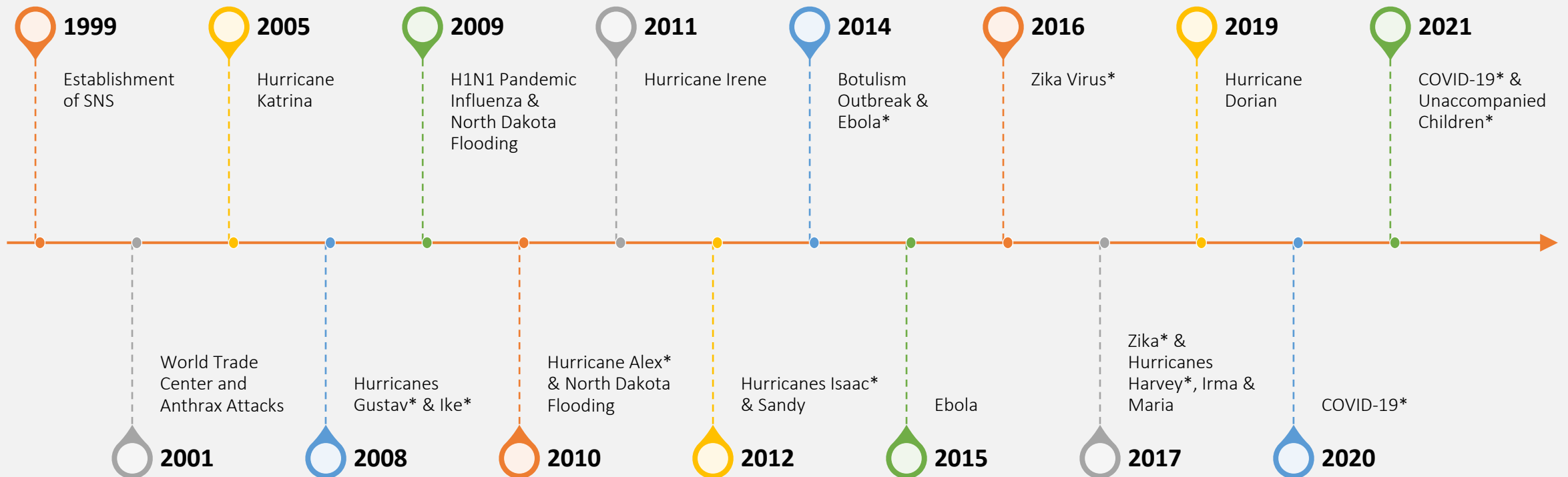
The U.S. federal government's largest repository of emergency medical countermeasures (MCMs)

- Established in 1999 as the National Pharmaceutical Stockpile
- ~\$13.5 billion inventory of medical countermeasures (MCMs) to respond to
 - Chemical, biological, radiological and nuclear threats
 - Burn/blast events
 - Emerging infectious diseases and pandemics
 - Natural disasters
- SNS warehouses are professionally managed by commercial third-party logistics providers

SNS Formulary: Multiple Threats

PPE	Threat	Prophylaxis	Treatment
Vents	Anthrax	Oral antimicrobials vaccine	IV antimicrobials antitoxins
	Botulism	None	Antitoxin ventilators
	Burkholderia	None	Oral and IV antimicrobials
	Burn/Blast	None	Wound care, fluid replacement, pain management
	COVID-19 Pandemic	PPE	Ventilators and ICU supportive care pharmaceuticals
Temperature Control Support Equipment	Chemical Nerve Agent Exposure	None	Antidotes (auto-injector or vial) in forward-placed CHEMPACK containers
	Ebola	Vaccine PPE	Ebola therapeutics
	Glanders & Melioidosis	Oral antimicrobials	IV antimicrobials
Burn & Blast Kit	Influenza (Pandemic Only)	PPE	Antiviral drugs (oral, IV and inhalation) ventilators
	Pneumonic Plague	Oral antimicrobials	IV antimicrobials
CHEMPACK	Radiation	None	Oral and IV chelating agents for specific isotopes supportive care items, anti-neutropenics for acute radiation syndrome
	Radioactive Iodine Exposure	Oral thyroid blocking agent	None
	Smallpox	Vaccines	Oral and IV antiviral drugs
	Smallpox Vaccine Adverse Event		Oral and IV antiviral drugs IV immune globulin
	Tularemia	Oral antimicrobials	IV antimicrobials
Federal Medical Station (FMS)	Typhus	None	Oral and IV antimicrobials

SNS Responses



Federal Medical Station: 50 and 250 Bed Configuration

- Requires a sufficiently large facility of opportunity
- Requires host wrap-around services to be operational
- Primarily delivered by 53' trailers. 50 bed can be delivered by air



Requesting Materiel

In the face of a public health threat, state, local tribal, and territorial health officials may request federal assistance for emergency medical materiel from the SNS.

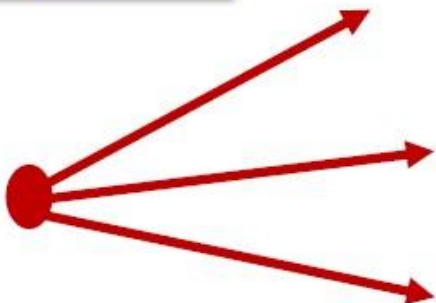
- Jurisdictional stockpiles are depleted
- Materiel is not readily available through commercial market
- Materiel is configured by the SNS for specific threats

SNS Traditional Distribution Models

Support to Public Health Response
Mass Prophylaxis/Vaccination Campaigns



SNS Warehouse(s)



State RSS



State RSS



State RSS



State RSS



State RSS



State RSS

Support to Immediate Health-care Needs
Treatment of Sick in Hospital Settings



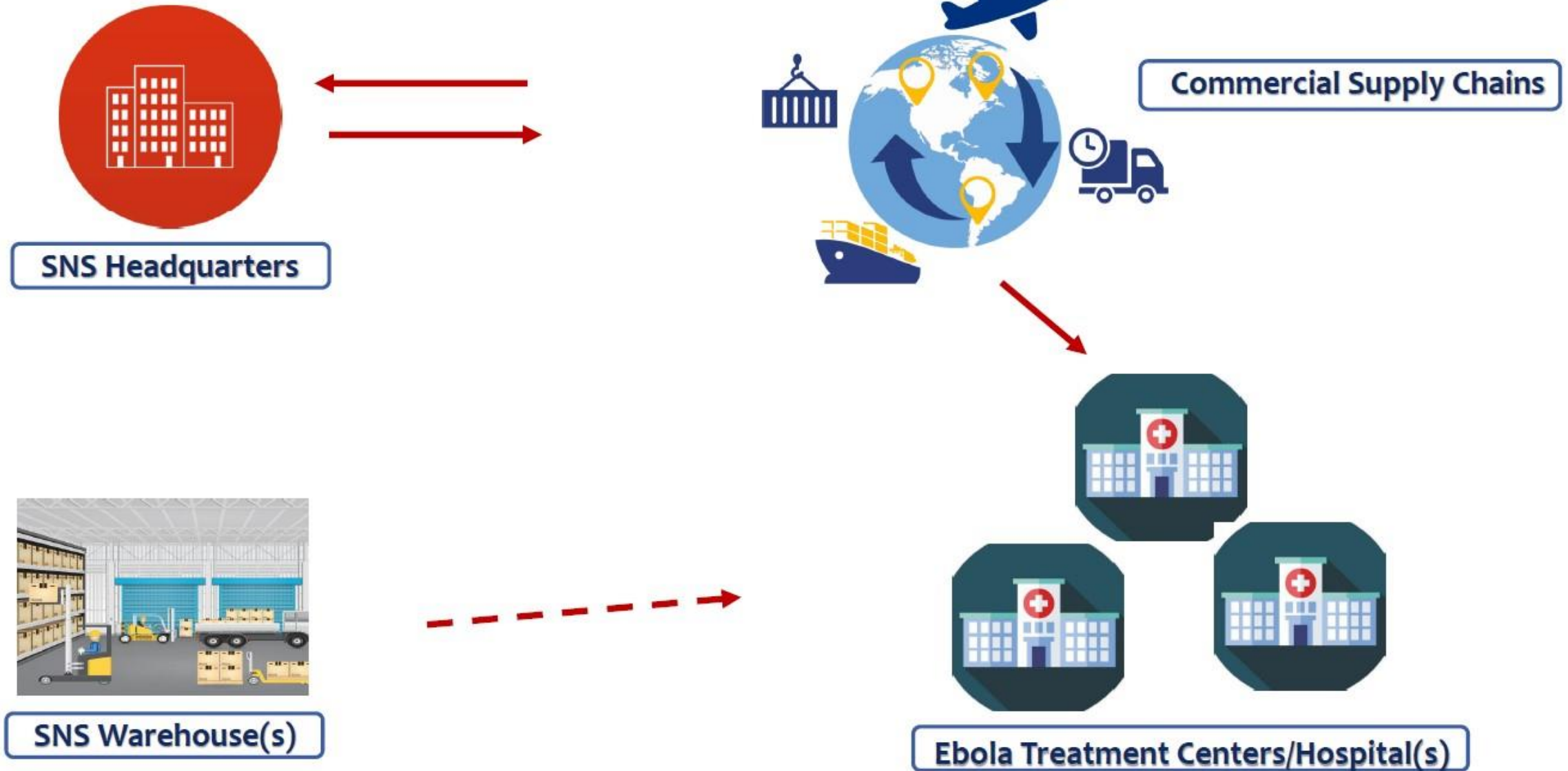
SNS Warehouse



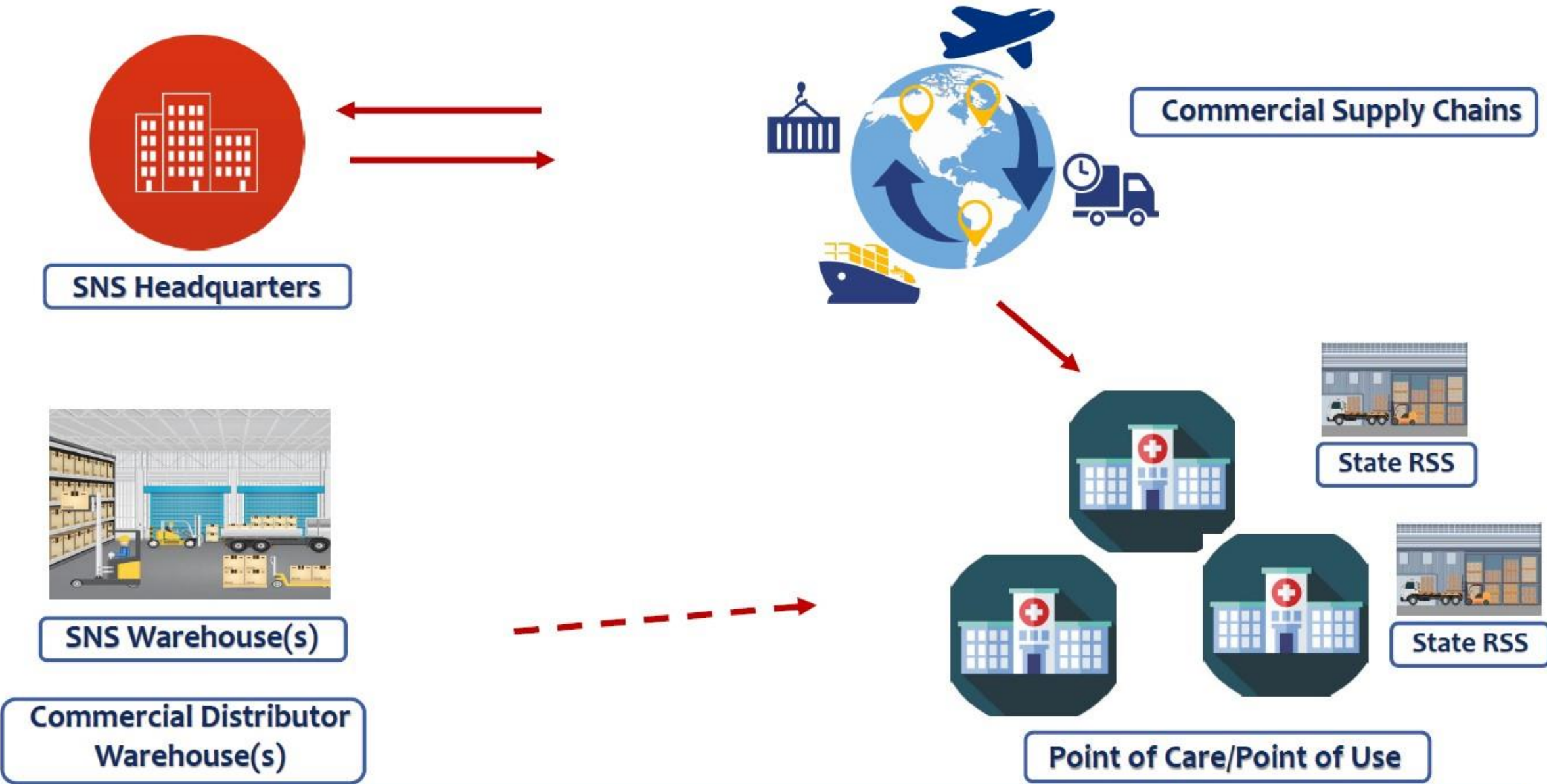
Local Hospital

Additional Distribution Models

(Ebola 2014-2015)



Future State...working on it!



Point of Dispensing (POD)

A POD site is a pre-defined system where MCMs are given to people to minimize the effects of a public health threat or emergency

A POD is:

- a nontraditional healthcare setting.
- where healthy individuals receive medications or vaccinations.
- a place that helps prevents individuals from getting sick.

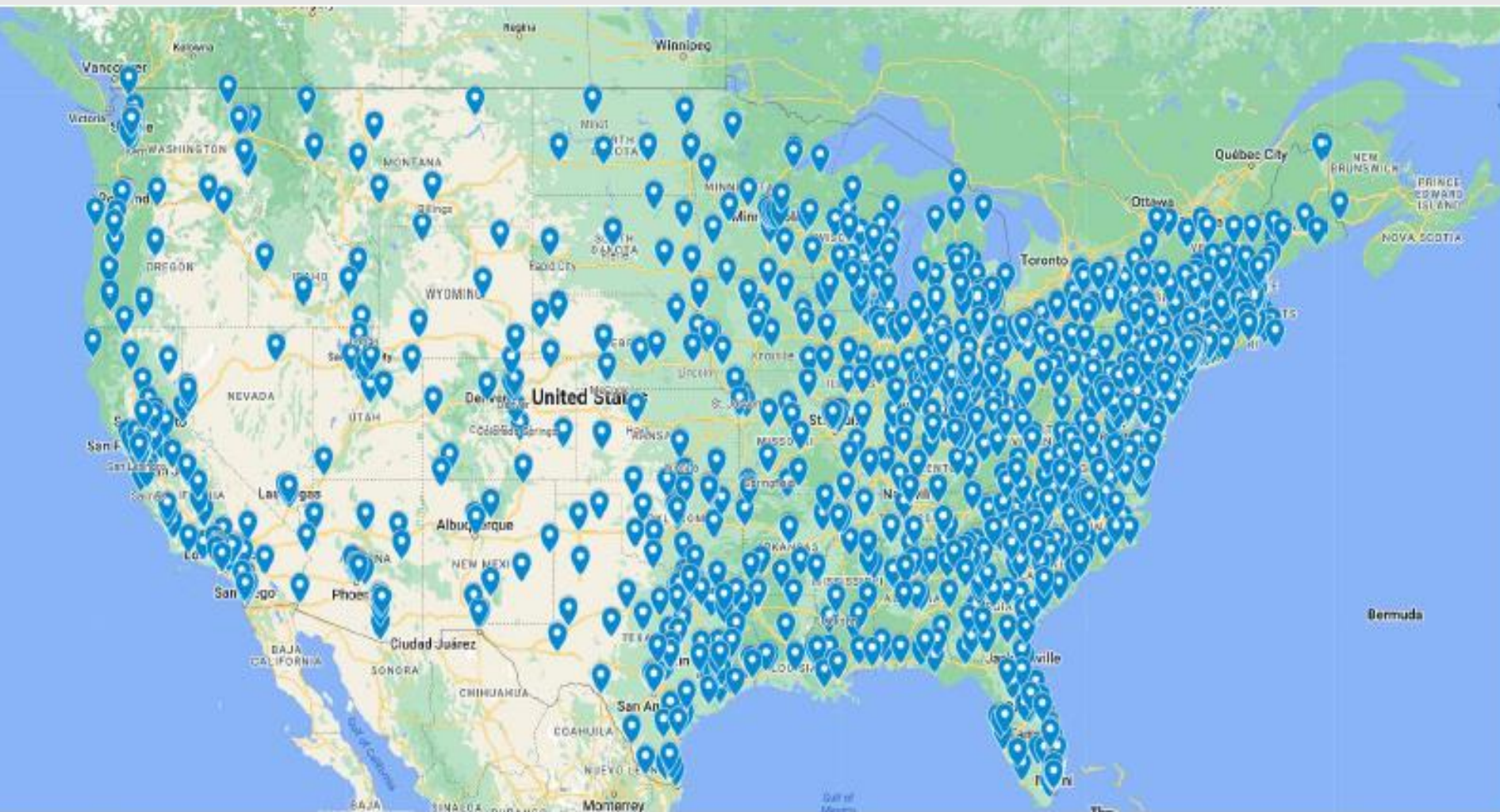
Types of PODs

- Closed – Medication only distributed to persons within a particular entity i.e., school, business, Long Term Care Facility
- Open – POD is open to anyone
- Drive Thru – Vehicles versus walking
- Walk Thru – Walk through the POD

The more Closed PODs you have, the fewer Open PODs you will need

CHEMPACK Program

- The CHEMPACK Program pilot was established in September 2002 (South Dakota, Washington State, and New York City) and officially launched in 2008.
- Containers of nerve agent antidotes forward-placed in secure locations, such as hospitals or fire stations, across the country, for responding to chemical incidents, such as nerve agent attacks and large-scale pesticide poisonings.
- The containers are federally owned, but local jurisdictions manage them.
- The Administration for Strategic Preparedness and Response (ASPR) funds CHEMPACK, which is part of the Strategic National Stockpile (SNS) program.



- >1,974 CHEMPACKS stored at >1,300 cache sites
- >90% of U.S. population within a 1-hour response
- Forward placed in all 50 states, four large metropolitan areas and eight territories and island jurisdictions.

Texas:

- 140 containers
- 117 sites

Types of Containers



EMS Containers

- First Responders
- 85% Auto injectors
- 454 capacity



Hospital Containers

- clinical environments
- 85% multi-dose vials
- 1,000 capacity



Texas Department of State
Health Services

CHEMPACK Antidotes

Mark 1, Nerve Agent Antidote Kit (NAAK)



Diazepam (CANA) Auto-Injector



Atropine, Pralidoxime, and Diazepam Multi-dose Vials



AtroPen Pediatric Doses

1 mg AtroPen®
(Dark Red Label)



0.5 mg AtroPen®
(Dark Blue Label)



- CHEMPACK antidotes treat the symptoms of nerve agent exposure, even when the agent is unknown.

Thank you!

Questions?