



ZENO: Advanced Vaccine Distribution & Scenario Planning Tool

Accelerate, Optimize, and Future-Proof Your Vaccine Rollout

ZENO transforms complex vaccine distribution challenges into precise, data-driven strategies — even amid uncertainty and fluctuating conditions. It enables rapid scenario modeling, optimal resource allocation, and tactical planning to ensure vaccines reach the right people at the right time, efficiently and equitably.

The Challenge

Vaccine distribution involves navigating fluctuating supply, diverse storage and handling requirements, shifting priority groups, and staffing vaccination sites — all under intense public scrutiny. Traditional planning tools often struggle to cope with these dynamic variables, limiting the ability to adapt quickly and plan for the future.

How ZENO Helps

- **Real-time scenario modeling:** Instantly simulate multiple what-if scenarios for supply changes, new vaccine introductions, or shifts in priority groups.
- **Optimized site planning:** Use advanced spatial analysis to determine the ideal number, location, and capacity of vaccination centers.
- **Demand forecasting:** Accurately predict vaccine demand by age group and region, helping allocate resources and schedule staff effectively.
- **Bottleneck detection:** Identify upcoming capacity constraints and data issues before they impact rollout success.
- **Flexible & data-driven:** Easily adapt plans as strategies, supply, or eligibility criteria evolve.
- **User-friendly:** Intuitive interface requiring minimal training, designed for cross-team collaboration and multi-user access.

Proven Impact: ZENO was instrumental in the Netherlands' COVID-19 vaccine rollout, enabling:

- Faster vaccination speeds despite supply volatility
- Smarter, more equitable distribution across 25 regions and 140+ locations
- Data-driven decisions on location openings, staff scaling, and booster campaign readiness
- Enhanced transparency and preparedness under public and parliamentary scrutiny



What's in It for You?

- **Maximize vaccination efficiency** while reducing waste and delays
- **Plan proactively** for future waves, boosters, or new vaccines with confidence
- **Make better, faster decisions** based on real-world data and robust scenario analysis
- **Optimize resource use** — staff, facilities, cold chain logistics
- **Increase public trust** through transparent, data-backed planning
- **Adapt seamlessly** to changing circumstances and policy shifts

ZENO is built for organizations ready to master vaccine distribution complexity with clarity, agility, and precision — transforming uncertainty into actionable insight and impact.