

I:naplan **COVID Vaccine Rollout & Capacity Planning** Solution Overview The materials in this presentation are intended t ct Anaplan for more information on product capabilities and implementation options. Redistribution permitted only with the prior consent of Anaplan. Inc

Summary

- A cloud-based, highly configurable and rapidly deployable solution developed on the Anaplan platform
- Anaplan has been already been deployed for COVID testing at health care provider networks
- The accelerator has now evolved to encompass vaccine rollout planning and management – capacity and demand planning to inform the allocation process
- Anaplan has ongoing conversations with multiple states and can complement ongoing efforts with states related to vaccine rollout management
- This solution can be easily extended to other stakeholders in the supply chain such as pharmacy chains, distributors, etc.



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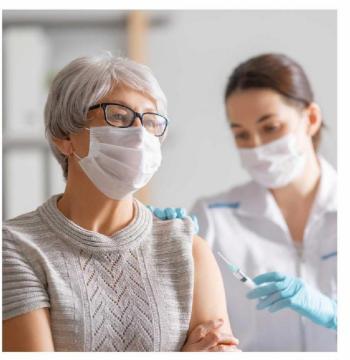
Key issues that states and local authorities are grappling with

- How to coordinate all of their activities under one roof? How can the State have consolidated financial reports on a daily, live basis, with accurate and meaningful projections into future weeks?
- How to avoid inflammatory headlines around planning and decision making by taking the reins of the testing and vaccination efforts and provide a command center for leaders and a calculation machine for operational employees?
- In addition to reporting actual consumption, but how to know how many tests and vaccines will be needed next week and next month in
 order to supply all the testing and vaccination sites adequately?
- How to precisely estimate of how many RNs are needed at each vaccination site in the coming days, weeks and months?
- The current execution model may have information about different types of vaccines and cold chain storage restrictions, spoilage rules and follow up dosage rules, but how to use these constraints to receive alerts weeks in advance to course-correct or re-allocate resources across vaccination sites?
- How to know how many Call Center employees will be needed based on projected call volumes out into the future? What about IVR ports, or incorporating call center blocking targets or Erlang calculations to plan this?
- How to make reliable PPE consumption estimates for each testing and vaccination site in future weeks? For example, we use Anaplan to
 project the number of Nurses, Intake Coordinators, Administrative Staff, Security Guards and others, and then use granular assumptions: A
 nurse may use a set of gloves for every single test and vaccination administered, while a security guard uses a single set of gloves per day.
- How to be alerted weeks ahead of time for need of larger contracts for Nurse Staffing or Face Mask supply? What about expected Call Center shortages or Financial gaps? How to then receive recommendations and reports on all of these alerts?
- How to use a consistent set of assumptions and drivers to make informed decisions and optimize spend?

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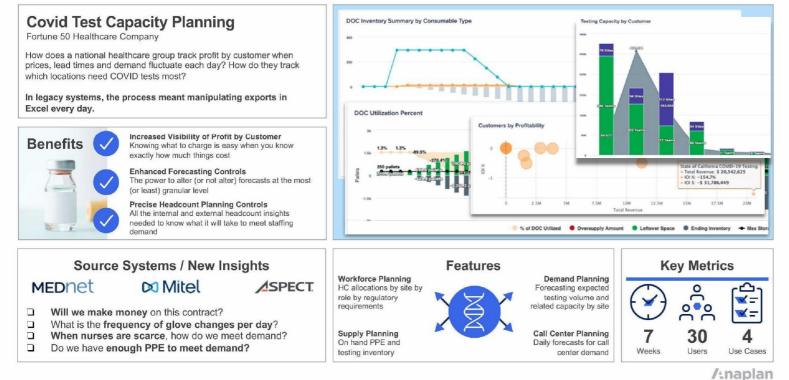
Key Solution Capabilities

- Logistics and equitable distribution planning based on evolving recipient prioritization guidelines
- Transparency and accountability in allocating supply to specific geographies
- Site-level planning for both vaccines and associated consumables
- Daily and weekly vaccination capacity readouts and alerts by site, rolling from ZIP Codes up to Cities, Counties, and State level
- · Resource/inventory depletion rate and cost modeling
- Workforce capacity planning with associated financial reporting

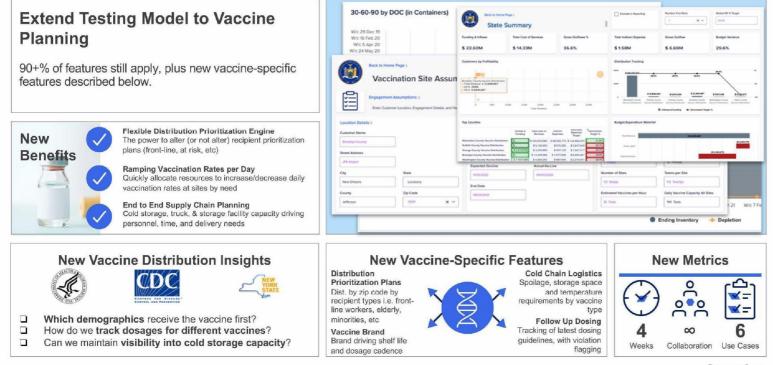


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The genesis: COVID Testing Capacity Planning Model



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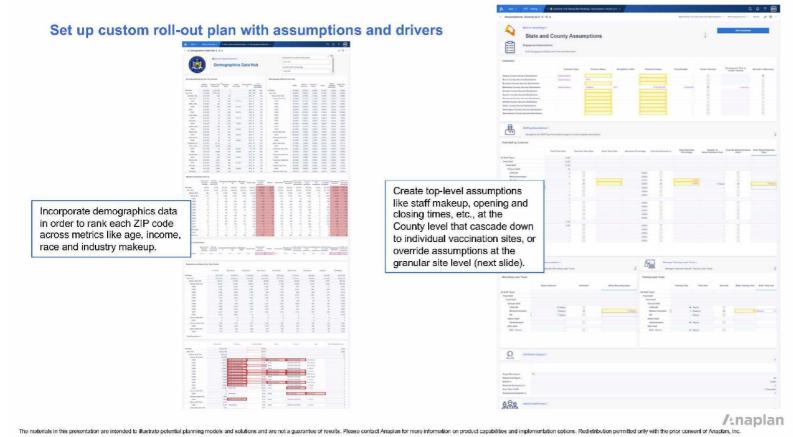


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Planning	& Reports				
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M	County Details) Review Partomanos over Terre		County Assumptions by Week > Overview of all assumptions! details by week to worksheet view	R	Vaccine Setup and Modeling) Review Vaccine cross and see alerta about Operage.
•	New York Demographics Data 5 Ves Demographics breakdown by 20 ^e code, silouetig Industries, Age Banks, Income Bands and ratios.	X	Ostribution Plans > Use this page to schip different vaccination prioritization plans and view results.	A DR	Staffing & HR Management 5 An overview of field and internal staffing regulated to meet demand
Modeling	1				
Co	unties & Vaccination Sites		Finance Modeling		Consumables
	Distribution Anex Defaults > Manage Top-Lovel Assumptions	\$	County Financials > Manage Printing Assumptions		Consumable Modeling > Manage Castorier Consumable Regularments
190	County Modelling > Manage Aspects to County Maceling		Overhead Rates > Manage 58M and 5MA Overhead Rates		
0	Vaccimation Site Modeling 2 Manage Aspects to County Testing Sites				
9	Site Assumptions by Wack > Manage Site Assumptions by Veek				
Distr	ibution Center Management		Lab Capacity Planning		
	Distribution Center Modeling > Manage Facilities, Inventiny, & Storage Capacity		Setup: Laboratory Management) Add Labs and Manage Supported Testing 10s		
			Vaccination Capacity > Summery of Lab Capacity and Tests Performed		
Sta	ffing and HR Management				
	Training Modeling 5 Interage Resource Training Assumptions				
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Set up granular drivers and models down to the site level with reliable data

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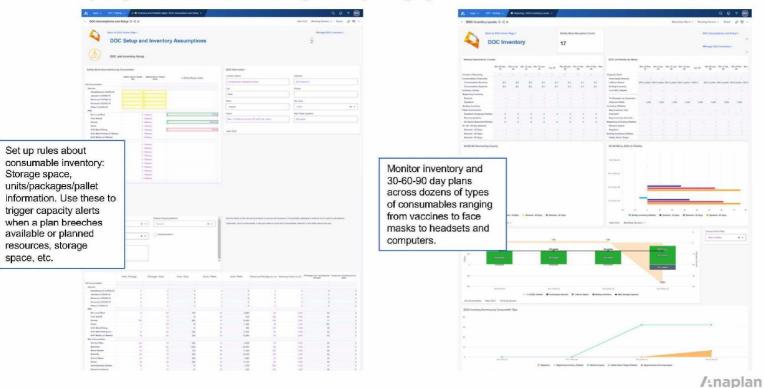
Connect vaccine depletion to demand for consumables using rule based drivers



Set rules based on past performance or future expectations that drive depletion and capacity expectations; for example, a nurse using 1 pair of gloves per vaccination while a security guard uses 1 pair of gloves per day. These granular constraints roll up into final large capacity plan and allow the system to send alerts when a plan breaches capacity in future weeks.

Apps - CPT-	Testing + 2.	Consumables	/ Setup: Add Con	sumables ~								۹	¢	?	0
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Consumable Master Data	·														
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	s. Site	Units / Package	Packages / Case	Units / Case	Cases / Pallet	Units / Pallet	Package (cu in)	(cu in)	running foot of shelf	running foot of shelf	Method	Storage Restrictions	Has	Expire	396
Consumables													_		
Vaccine															
AstraZeneca's COVID-19			0	0	0	0	0	0	0	0	Air	Cold Storage			
Janssen's COVID-19			0	0	D	0	0	0	0	0	Air	Cold Storage			
Moderna's COVID-19			0	0	0	0	0	0	0	0	Air	-54'T Storage			
Novavax's COVID-19	1		0	0	0	0	0	0	0	0	Air	Cold Storage		1	
Pfizer's COVID-19				0		0	0	0	0	0	Air	-94'T Storage			
PPE															
Ear Loop Mask	Packages	5	24	120	24	2,880	50	1,200	52	2	FodEx Express	General / Unresticted Storage			
Face Shield	Pallets	1	10	10	24	240	120	1,200	22	2	Ground	General / Unresticted Storage			
Gloves	Cases	100		800	16	12,800	150	1,200	17	2	Ground	General / Unresticted Storage			
Gown	Patieta.	ź	75	75	16	1,200	10	1,200	162	2	Ground	General / Unresticted Storage			
N-95 Mask Fitting	Cases	1	12	12	32	384	100	1,200	26	2	Ground	General / Unresticted Storage			
N-95 Mask Fitting (x3	Cases	10	24	240	24	5,760	50	1,200	52	2	FodEx Express	General / Unresticted Storage			
N-95 Masks (x3 Masks)	Cases	10	24	240	42	10,080	50	1,200	52	2	Ground	General / Unvesticted Storage			
Site Consumables															
Alcohol Wipe	Cases	24	16	384	12	4,608	75	1,200	35	2	Ground	General / Unresticted Storage			
Band-Aid	Cases	50	20	1,000	24	24,000	60				Ground	General / Unresticted Storage			
Blood Needle	Cases	10	12	120	36	4.320	100				Ground	General / Unresticted Storage		0	
Butterfly	Cases	50	10	500	36	18,000	120				Ground	General / Unresticted Storage			
Clorox Wipes	Cases	24	16	384	20	7,680	75			2	Ground	General / Unresticted Storage			
Gauze	Cases	10	24	384	16	6,144	50	1,200		2	Oround	General / Unresticted Storage		0	
Hand Sanitizer Bottles	Cases	12	0	72	24	1,728	200				Ground	General / Unvesticted Storage			
Sharps Containers	Packages	1	12	12	20	240	100	1,200	26	2	Ground	General / Unresticted Storage			
Tourniquet	Cases	5	12	12	.26	432	100	1,200	26	2	Ground	General / Unrestrcted Storage			
Vacutainer	Cases		40	40	36	1.440	30	1,200	85	2	Ground	General / Unresticted Storage			

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Model capacity constraints and inventory rules by category / item



Model capacity constraints and inventory rules by category / item

