

# Plan and Create Capacity for Covid-19 & Beyond

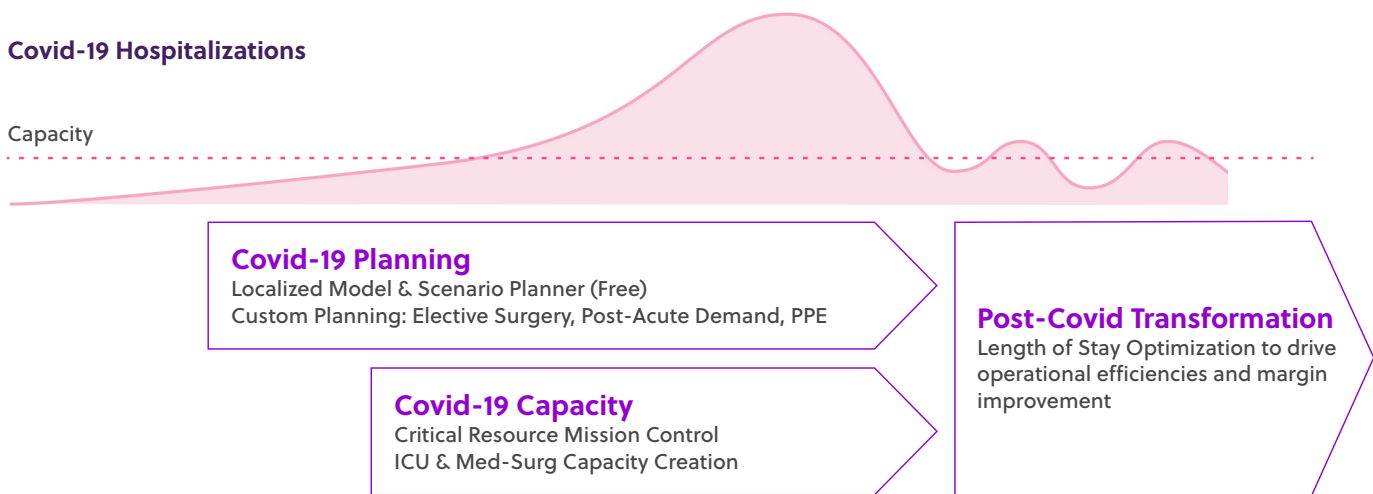


## Optimizing Patient Flow Creates "Virtual" Capacity

As health systems manage through the initial Covid-19 surge and plan for elective surgery backlog, Covid-19 resurgence, and seasonal flu demands, hospitals that optimize patient flow stand the best chance of avoiding severe resource constraints. What's more, for many organizations, the significant financial impact of the pandemic has accelerated a desire to achieve Medicare break-even, making operational efficiency more urgent and important than ever.

## Solutions to Create Capacity for Covid Surge and Future Waves

Qventus offers a range of solutions for hospitals to address each stage of the pandemic, from immediate-term surge planning, to short-term interventions to mitigate resource constraints, to post-Covid patient flow solutions that transform capacity creation.



## Covid-19 Planning

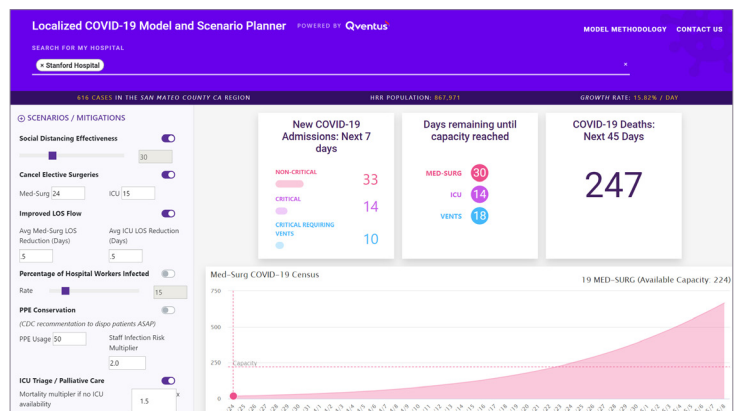
Plan for Covid-19 and beyond with visibility into immediate surge needs as well as capacity and resource strains from future stages of the pandemic.

### Localized Covid-19 Model and Scenario Planner (Free)

With 450 localized epidemiological models updated daily, our SEIR and observed growth curve model has proven to be 2-3x more accurate in backtesting compared to other models, allowing you to make decisions based on the most up-to-date data and research:

- Predict new and cumulative Covid-19 hospitalizations and level of care needs for your hospitals or health system
- Identify capacity constraints for Med-Surg, ICU, ventilator, and PPE resources
- Evaluate the impact of social distancing, reduced length of stay, PPE conservation, hospital staff infections, and other scenarios

Available at: [qventus.com/covid-19-model](https://qventus.com/covid-19-model)



## Custom Covid-19 Planning Products

Building on forecasts from the Scenario Planner, Qventus custom planning products help health systems plan for supply and capacity needs through the initial Covid-19 surge:

- **Elective Surgery Planner:** restore elective surgeries using forecasts of available capacity, staffing needs, and PPE requirements
- **Post-Acute Demand Planner:** gain visibility into discharge needs with predicted Covid-19 discharge volumes to post-acute care
- **PPE Demand Planner:** forecast PPE consumption across inpatient units, emergency departments, and operating rooms

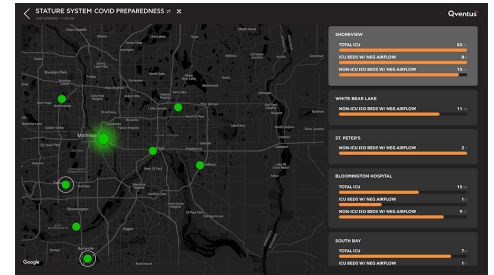
## Covid-19 Capacity

With hospitals urgently needing to mitigate surge demand, the Covid-19 Capacity solutions allow Incident Command Centers to find immediate opportunities to unlock capacity across the system and can be deployed rapidly, in just weeks.

### Critical Resource Mission Control

As Incident Command Centers manage distributed resources across units and facilities, Qventus creates real time visibility for critical resources so that teams can rapidly orchestrate action and load-balance to mitigate constraints:

- Real time situational awareness across multiple altitudes (facility and system) for negative airflow isolation, ventilators, ICU beds, and more
- Covid-19 Scenario Planner forecasts integrated to identify and predict resource shortages
- Automated real time nudges to resolve capacity constraints and load balance across the organization



### ICU & Med-Surg Capacity Creation

Incident Command Centers need visibility into capacity creation opportunities across units, but traditional stepdown and discharge planning processes are heavily strained during the pandemic. Qventus allows hospitals to effectively identify candidates for stepdown and discharge across the facility so that teams can rapidly unlock needed capacity:

- Early recommendations of ICU patients ready for stepdown
- Daily ML-prioritized discharge lists to identify top Med-Surg candidates for discharge
- High priority stepdown and discharge opportunities for unlocking targeted resources such as ventilators, negative airflow rooms, and telemetry beds

PATIENT LIST	MRN	LOS	PRIORITY	DISCHARGE	NOTES
J. Edwards	7736	5d	High	Discharge	
J. Al Near	7736	4d	High	Discharge	
Z. Reed	7736	4d	Med	Select Discharge	
S. Tolson	7736	2d	Low	Not Ready	

## Post-Covid Transformation

As hospitals look to weather financial strains, staffing shortages, and resurgent Covid demand, Qventus supports long term operational transformation that creates "virtual" capacity and can save an average health system tens of millions of dollars in operating expenses per year.

### Length of Stay Optimization

Qventus leverages AI-driven discharge planning and automated barrier resolution to hardware sustained LOS reductions and free up bed capacity:

- Upstream discharge planning using AI to predict discharge dates, dispositions, and barriers days in advance
- Hardwired barrier resolution through real time automated nudges and ML-prioritized ancillary lists
- Statistical process analytics and automated real time escalations to manage accountability

