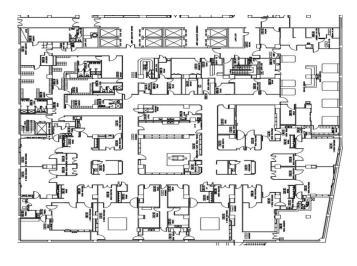
## **OR Optimization with SimTrack®**

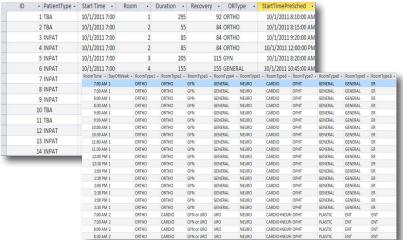
## **OR Layout**

The layout will be used to determine impact of travel distances, congestion, and room location on the overall flow efficiency.

## Room Schedule, Specialty, and Capacity

Define room specialty assignments along with potential operation grouping that it can perform. A set of general guidelines needs to be defined in order to improve future optimization.



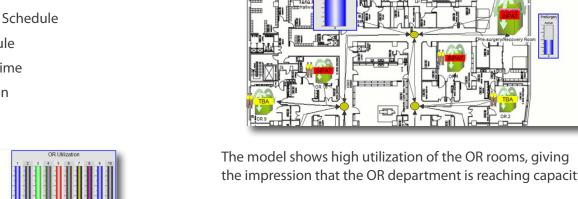


#### **Current Schedules**

Load currently used schedules from EMR (or other systems). The data will be used to validate and improve the OR.

#### Simulation Model

- Build a validated model based on collected data.
- OR Layout
- Room Specialty Schedule
- Provider Schedule
- · Patient Arrival Time
- Surgery Duration



Room Type Room 1 = Room 2 = Room 3 = Room 4 = 16.46 44.82 24.95 Room 5 = Roolm 6 = Room 7 = Room 8 = Room 9 = Room 10 =

the impression that the OR department is reaching capacity.

By examining the overall OR efficiency of every room, the initial results indicate that the rooms operate at a very low efficiency and contribute extensively to Non-Value-Added

Additional capacity can be achieved by improving efficiency.

## **New Schedule and Analysis**

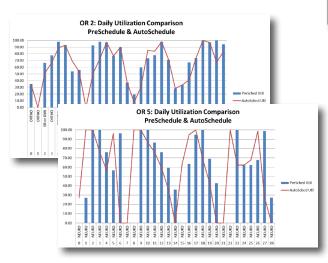
By properly scheduling the OR and providers, a higher level of efficiency can be achieved.

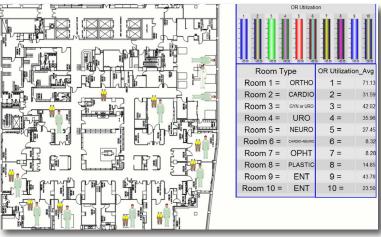
#### **Model Data**

(Historical Data, Schedules, shifts, providers info, and room specialties)

### **Current State Data**

- Schedule Changes
- Provider Availability
- OR Delays
- ED and Unscheduled Operations

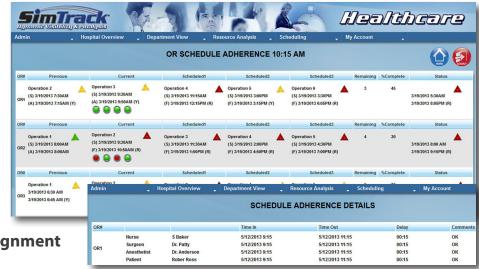




- Room and patient schedules are run through the simulation to determine the optimum patient sequence to maximize room and resource utilization and efficiency.
- Live data is incorporated into the model allowing the simulation to proactively adjust the generated schedule and maximize efficiency.
- The simulation model continually updates the current and forecasted state of the OR based on live data it receives.

## **Automating Process**

Web-based Schedule Adherence dashboards are provided to quickly summarize the state of each room; whether or not it is on schedule and the schedule impact to future operations.



# Provider Allocation and Assignment OR Room Re-Assignment

- · When to call patients to Pre-Op
- · Reschedule Outpatient arrivals
- Notify Surgeons of new times
- · Schedule OR Cleaning for faster turnaround

## **Detail per procedure**

Detailed performance view per provider identifying the impact of delays.