

# Optimize Healthcare Enterprise Capacity Planning with SAP Analytics Cloud

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## **Agenda**

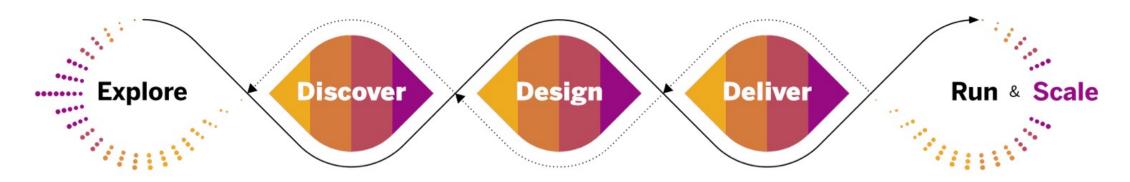
Human-Centered Innovation and Design
Application Realization Diagram (ARD)
Discovery Center Mission
Dashboard Walkthrough
Q&A



## **Human-Centered Innovation and Design**



#### **SAP's Human-centered Approach To Innovation (HCAI)**



**Scale with Architecture Thinking** 

#### **Start with Design Thinking**

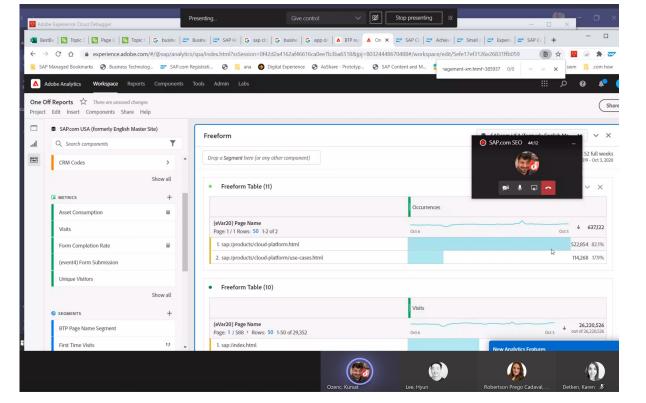
Explore innovation opportunities and tie them to strategic business goals.

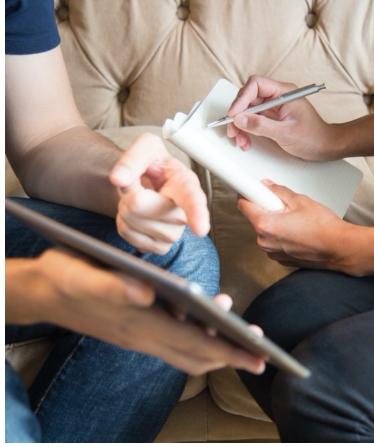
Discover and gain a deep understanding of the needs and opportunities of customers and their end users

Design and create a prototype of the solution and define the enterprise architecture components Deliver the business and technical solutions for productive use in your enterprise architecture landscape Run and scale the solution, and deploy across the company

#### **User Research**

The purpose of User Research is to discover the real end user behavior, their needs, frustrations and expectations.







From in-person to remote

### **COVID User Research Challenges**

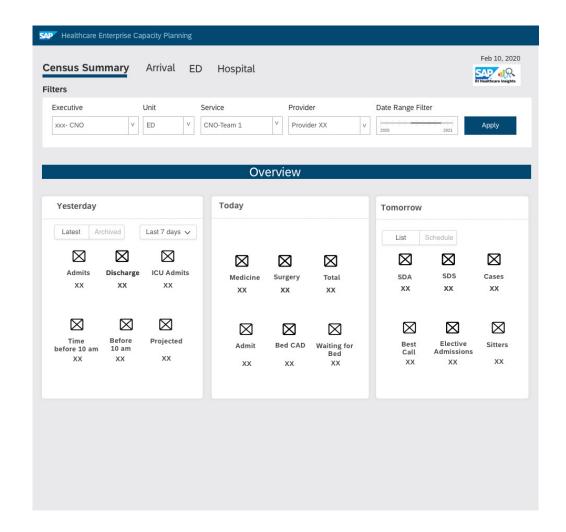
Hospital in crisis mode due to COVID.
 Result → No access to end users

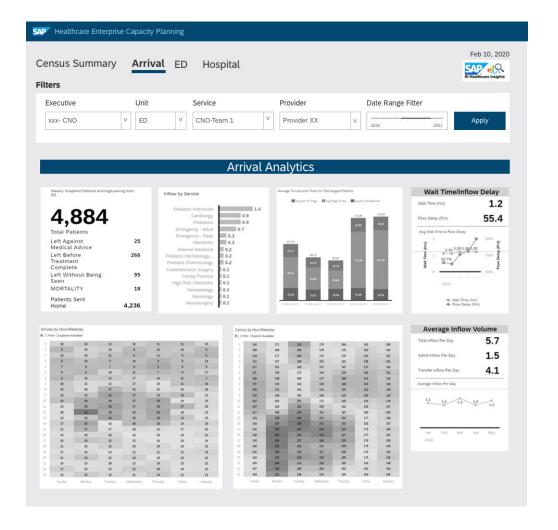
#### Next best alternative: Proxies

- Interviewed SAP Partners who work in the healthcare space.
- Interviewed Healthcare IBU Experts



### Early Design Exploration: Low Fidelity Designs





## Stakeholder and Partner Feedback

- Good content, but
  - Persona not clear
  - Designs don't match stories
  - May not be able to get data for some charts



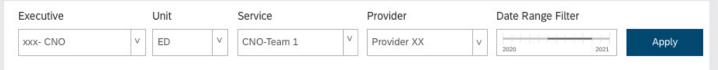
Census Summary





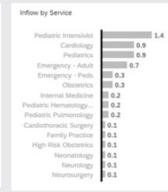


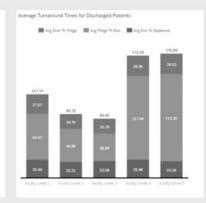
#### **Filters**



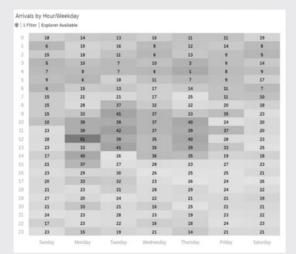
#### **Arrival Analytics**

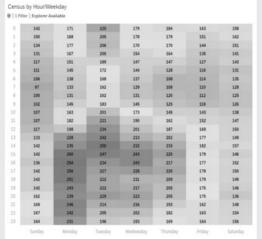






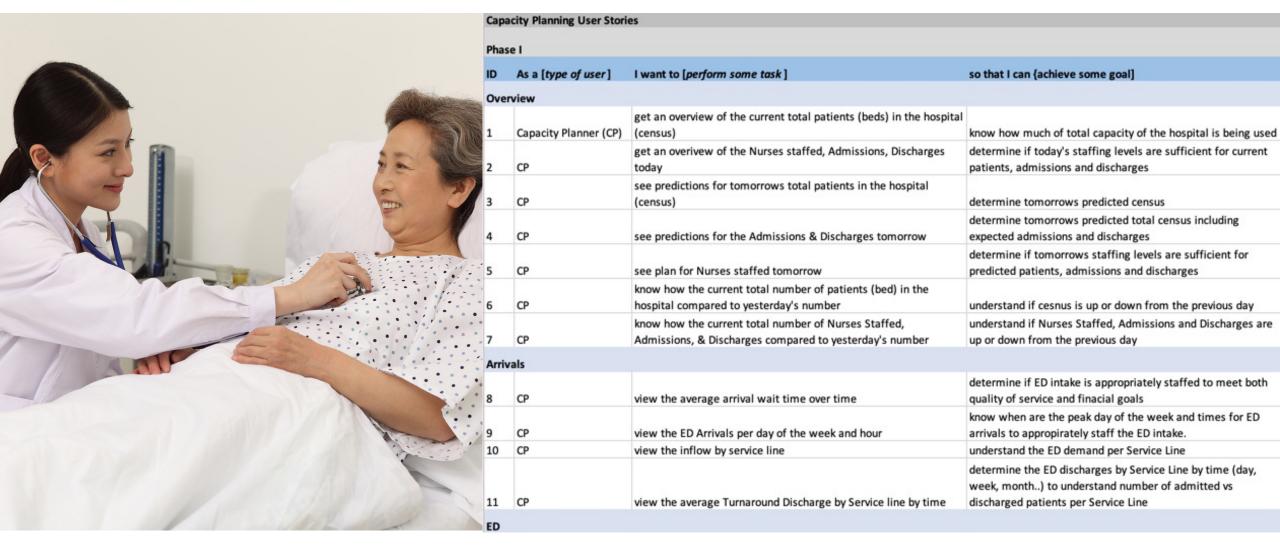








#### Persona & User Stories

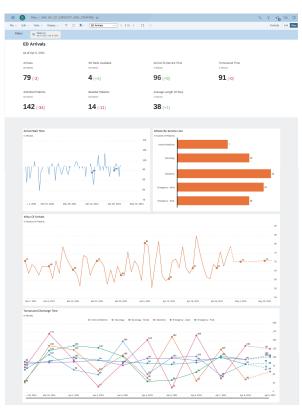


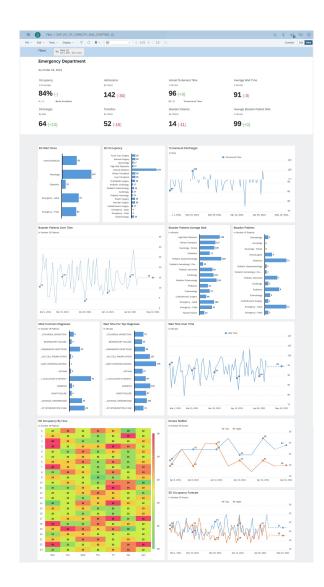
## **Design Exploration**

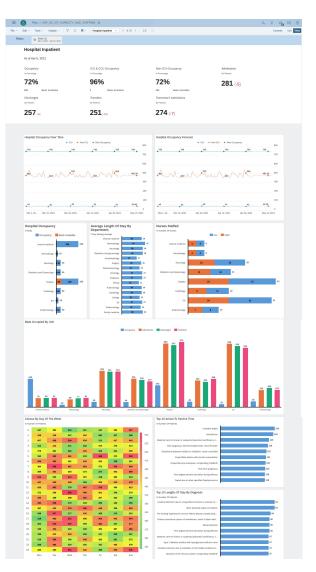


## **Final High Fidelity Designs**









### **Healthcare Enterprise Capacity Planning Highlights**

#### **Topic 1: Insight into Overall Capacity**

Gain insight into the overall capacity within the facility including admissions, discharges, transfers and ED arrivals

#### **Topic 2: Drill-into Emergency Department and Critical Care**

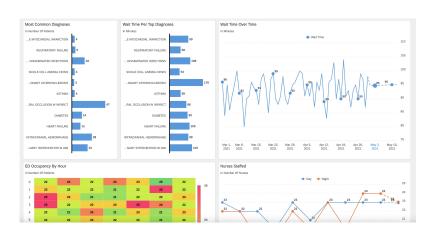
Monitor the arrivals, wait-time and occupancy within the emergency department and forecast needs based on predicted patient volumes

#### **Topic 3: Staffing Insight**

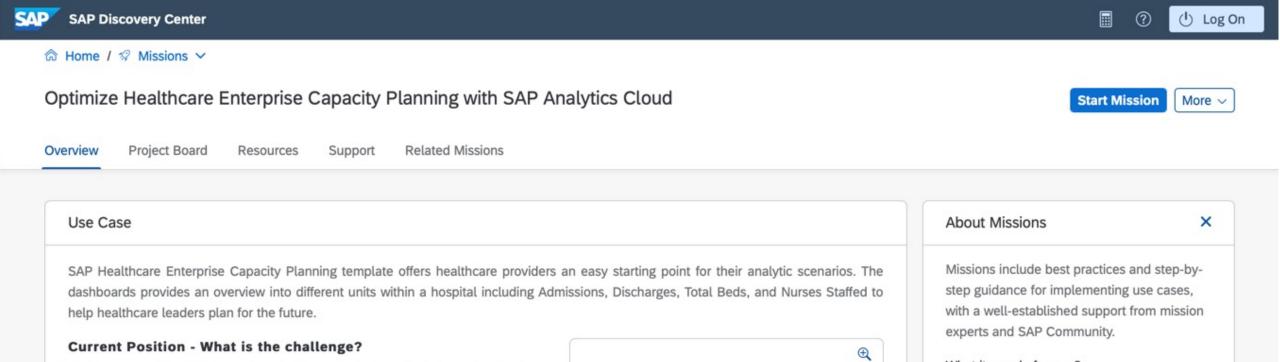
Track nurse staffing levels over time, and estimate needs in the future, based on expected occupancy







## **ARD and Discovery Center Mission**



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