Virtual Design System
Cost-effectively making hospital design a team effort

A Problem

• There is a disconnect between the design team and the end-users.
• Physical mock-ups of room designs can be costly and inflexible

B Principles

• Make hospital design accessible to all stakeholders.
• Provide environmental information cost-effectively.
• Allow flexibility in the design process.

C Solution

• VDS seeks to create an organic virtual mock-up of proposed layouts to allow in-depth analysis.
• We compared two evidence-based design alternatives for an exam room.
• Interacting in the scenarios of each room for each model will allow users to evaluate which design is optimal.

D Future research & Opportunity

• Way-finding and educational benefits
• Interaction in a socially-driven virtual environment
• Advertising opportunities

Design team
To provide design proposals

Virtual design system
To create an organic virtual mock-up

End-users
To evaluate designs based on interacting in scenarios

Feedback to design team and make design improvements

Design A
HKS model – Hughes Spalding

Design B
Revised HKS model (different layout, same size room)

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