

Designing the WAVE

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Overview

- Introduction
- Background and Motivation
- Conceptualization
- Timeline
 - WAVElet
 - WAVE

Motivation

- Medical simulation is traditionally organized along the following lines
 - Standardized Patients
 - Human Patient Simulators
 - Virtual Reality
- Stove piped operation is common.
- Little or no synergy between them.

Motivation

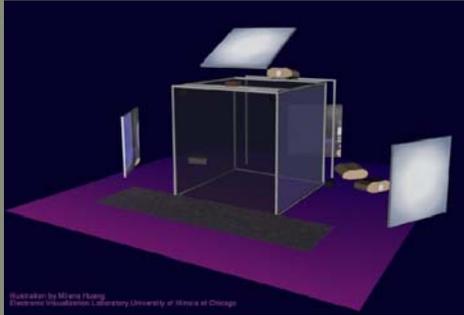
- Traditional methods for mass-casualty training
 - Large scale exercises
 - Table top exercises
- Both have limitations

Motivation

- Need a modality that
 - Combines live action, human patient simulators, and part task (VR) trainers
 - Facilitates mass-casualty training for small to intermediate sized teams

Concept

- Build a holodeck!



Credit: Electronic Visualization Lab



Credit: Christie Digital and Seinajoki Polytechnic



Credit: Fraunhofer IFF

Concept

Wide Area Virtual Environment Concept Animation

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See <http://simcen.org/wave.html>