



e-BUDDI Overview

Why Distributed Simulation (DS)?

- Virtual reality simulation and e-learning applications consistently shows improvement in learning outcomes¹
- Lightweight, portable and self-contained solution²
- ‘Good Enough’ simulation for effective training and procedural skills²
- Ideally suited for quick response f2f augmented customised healthcare training

¹ Schreuder et al, Med Teacher, 2011; Cook et al, JAMA, 2011;

² Kneebone et al, 2010



Why Game Enhanced DS?

- A balanced combination between challenge and learning
- Theory of deliberate practice with intentional repetitive training³
- Improve visuospatial and attention skills⁴ to deal with Risks and Hazards

³ Ericsson et al, *Psychol Rev*, 1993;

⁴ Boot et al, *Acta Psychol (Amst)* 2008



Implementation Overview

Mapping Learning and Game Mechanics



Instructional Learning

- Storyline introduction
- Pre-rendered Videos
- Raising Awareness

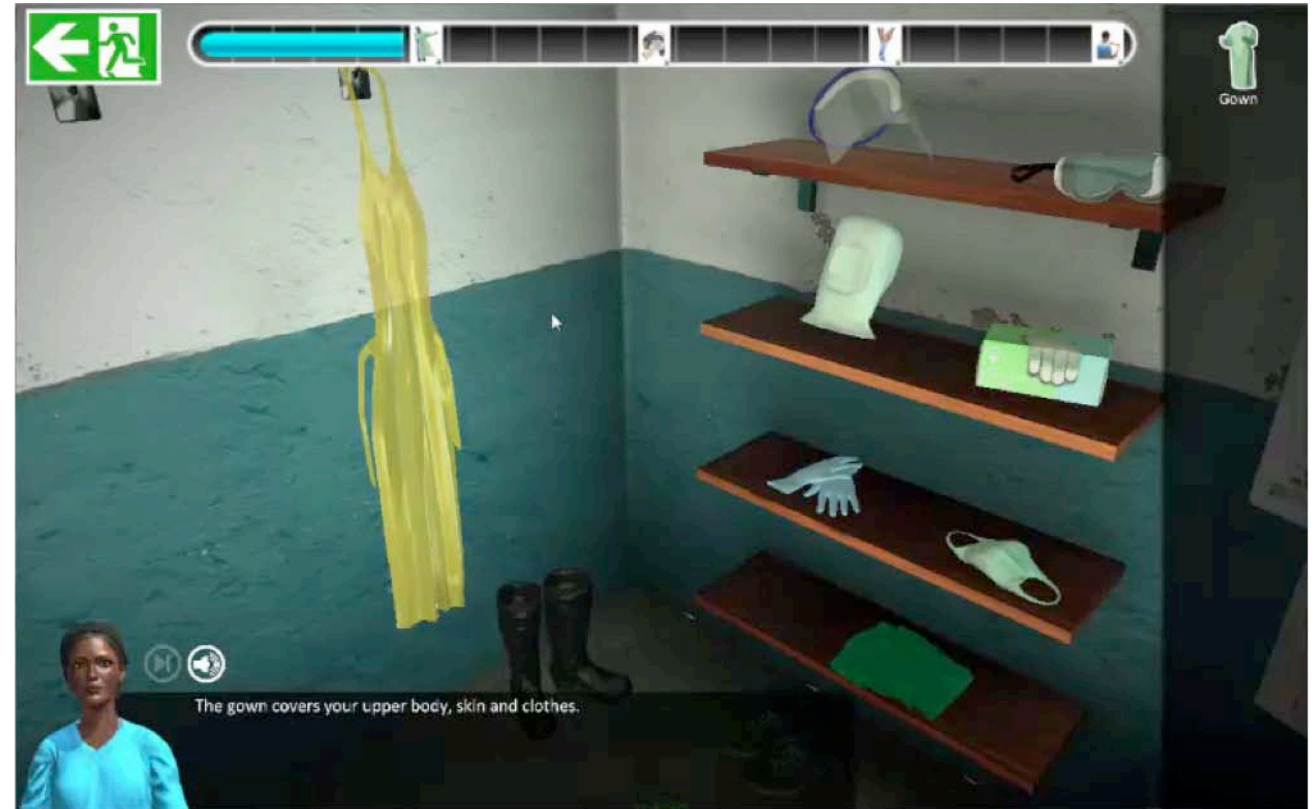


See Video Clip – SDC 2



Discovery based learning

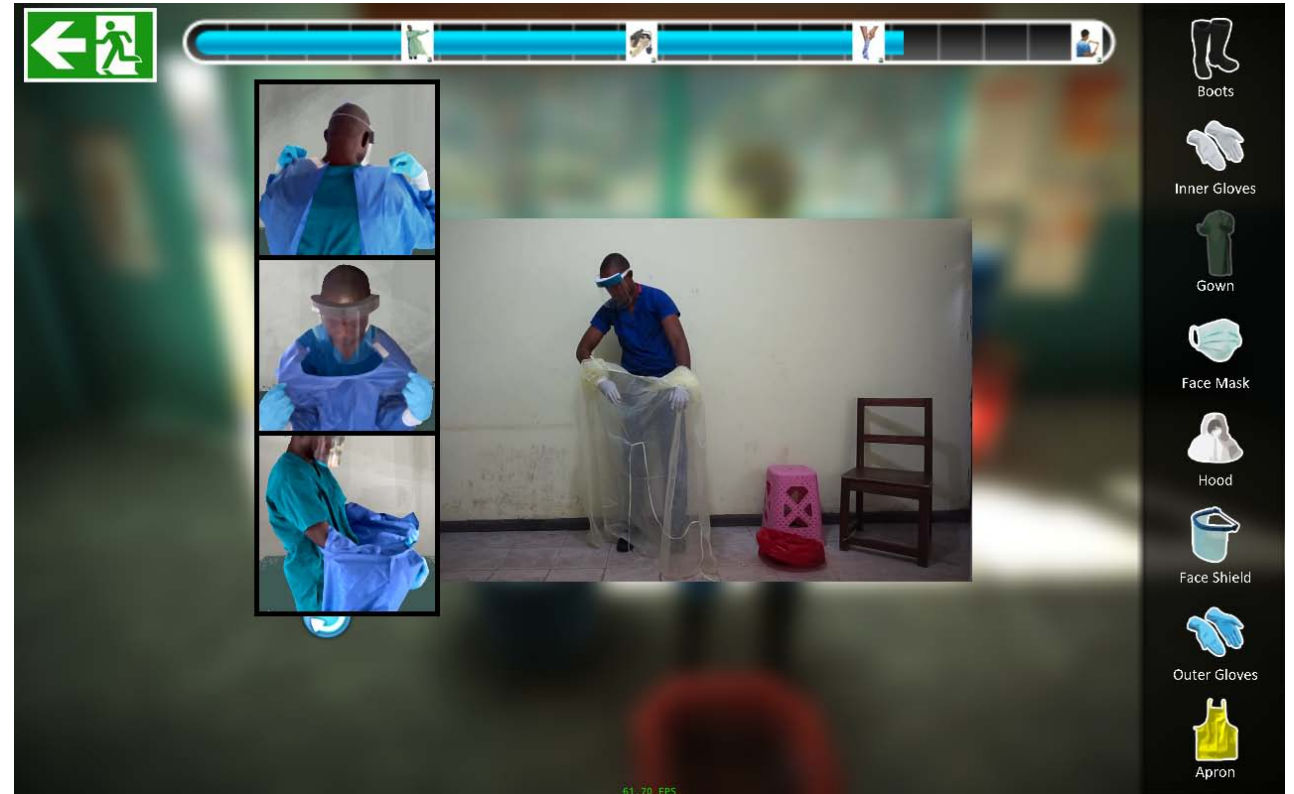
- Selection choices
- Ability to respond as per local content
- Improve Awareness



Sample Video Clip – SDC3

Guided Tutorials

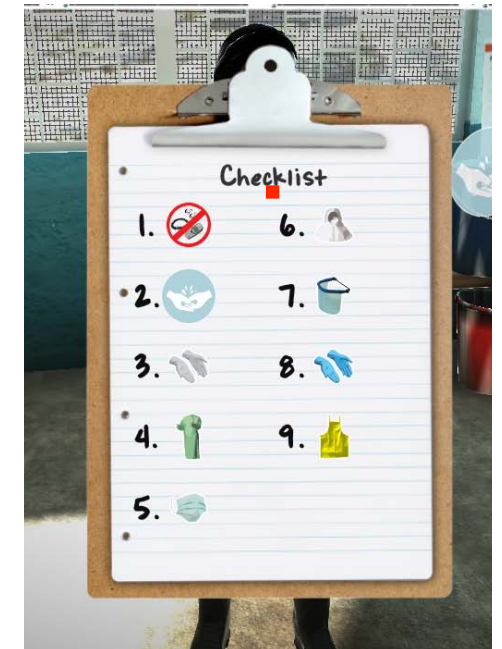
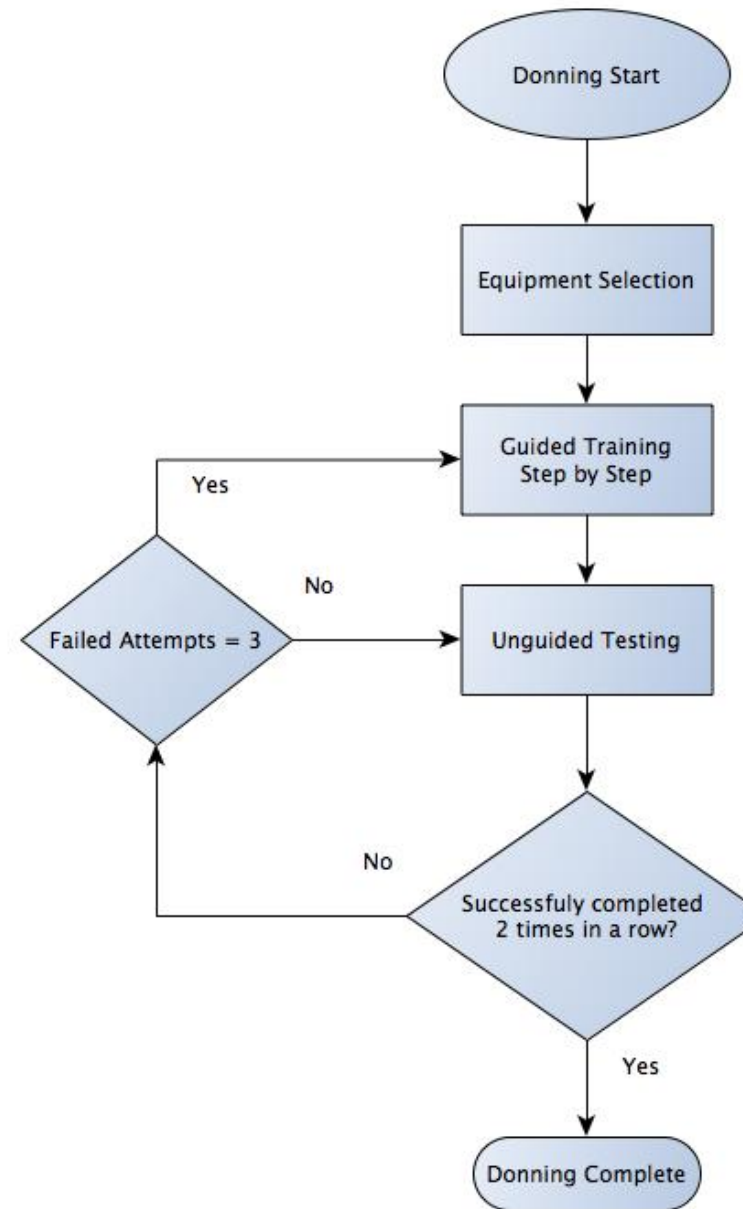
- Cascading Information
- Step-by-Step
- How and Why?



See also Sample Video Clip – SDC4

Intentional Repetition

- Using Behavioral Momentum
- Multiple attempts to Progress
- Restart on fail and reinforcement



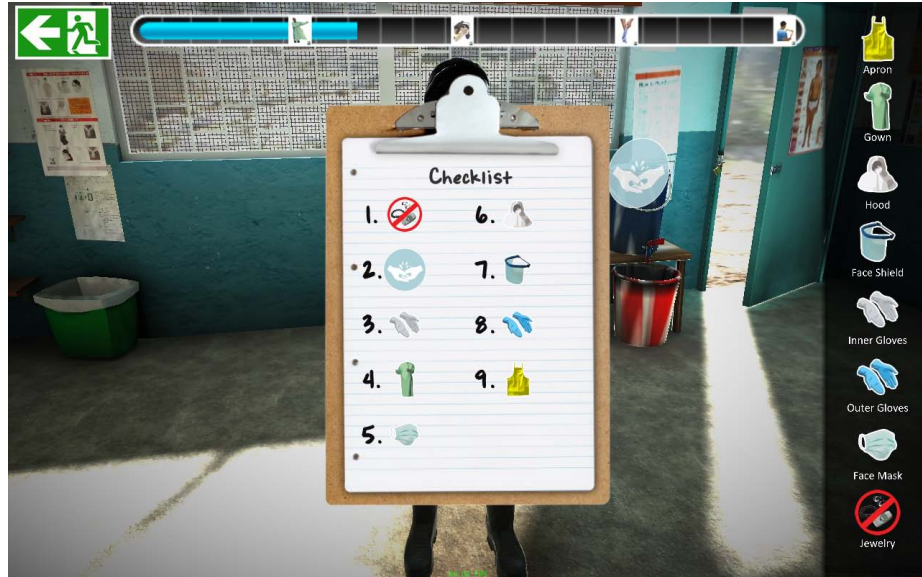
Problem Solving Activity

- Risk Identification and mitigation
- Hazard perception (5 random hazards)
- Capturing events and elimination



Continuous feedback

- Checklists
- Prompts
- Summary



Local Customisation

- Easy to add multiple languages
- Local Voiceovers
- Adaptability to local conditions – Battery dependence

