

## Advanced Prototype Demonstrations

Turning ICT Research into Real World Impact

Using science and storytelling, ICT prototypes provide engaging experiences to improve skills in decision-making, cultural awareness, leadership and coping, to name a few.

Imagine a veteran going online to speak anonymously to **SimCoach**, an interactive virtual guide who can remotely recognize signs of depression, PTSD and suicide risk and point the person in need to resources that can help.

Picture a soldier learning how to address a case of sexual harassment through practice with **ELITE** and **INOTS**, computer-generated virtual human education systems that can role play conversations and teach a classroom of participants the best way to handle tricky personnel issues.

Consider **BiLAT** and **UrbanSim**, computer games now available to troops stationed around the globe that can simulate what goes wrong when they don't consider the cultural sensitivities and indirect consequences of even their smallest interactions.

Explore **Virtual Iraq/Afghanistan**, which provides relief from post-traumatic stress through virtual reality exposure therapy. Patients, with the help of clinicians, confront their trauma memories in a virtual world.

Meet **Ada and Grace**, responsive virtual human museum guides who promote STEM education by answering questions, suggesting exhibits and explaining the technology that makes them work.

Experience **MCIT** and **DICE-T**, which provide counter-IED training via a narrative storylines, immersive environments and a live multiplayer video game-based practice tools.

These inventive examples represent some of the groundbreaking research and advanced technology demonstrations coming out of the University of Southern California Institute for Creative Technologies that are both making an impact today and paving the way for what is possible in the future.



At the University of Southern California Institute for Creative Technologies leaders in artificial intelligence, graphics, virtual reality and narrative advance low-cost immersive techniques and technologies to solve problems facing service members, students and society.