

Coleman Showcase Lab & Intelligent Bus Stop Project

Contact Information:

| | | | |
|-----------------|--|----------------------|---|
| Gerhard Fischer | gerhard@cs.colorado.edu | Leo Burd | burd@cs.colorado.edu |
| Ernesto Arias | ernie@colorado.edu | L ³ D | http://www.cs.colorado.edu/~l3d |
| Hal Eden | haleden@cs.colorado.edu | For more information | http://www.cs.colorado.edu/~l3d/clever |

In conjunction with the Coleman Family Foundation and the CLever project we will establish a showcase design space to support the exploration and study of technology in support of a broad range of cognitive disabilities as well as the impact of such development on broader populations.

The Coleman Showcase Lab will support the ability to prototype technologies using staged innovation. The first step in this process is to build life-sized realistic mockups of the target environment with initial implementations of the **technological innovations**. These environments will provide **access** for the target population to try out and provide initial **feedback**, as well as serving as a centerpoint for the affected **communities** to meet and share experiences with related support systems. As the prototypes mature, the showcase will also serve as an **assessment** tool.

The initial mockup would then serve as a model for an initial prototype deployable in more realistic settings, which would provide more complete design feedback.

Example: a User-Aware, User-Supportive Bus Stop

In this scenario, we envision that there could be various technologies to provide information in multiple modes (visual, auditory, tactile, wireless linkages to PDAs) to riders regarding bus schedules, last bus (did I just miss it?), next bus, on-time / delay, and what bus is currently arriving. The technologies might support special needs communication (e.g., a rider's PDA might contain information on a user's final destination and this might be communicated to the driver via some form of wireless link, so that the driver can assist the rider in finding the right bus and connections). We are in the process of working with Communication Arts (a Boulder-based design firm) to implement this as an initial showcase example.

