MOTIVATION

Medical Need

Amyotrophic Lateral Sclerosis (ALS)
- 15,000 active cases in the US (National Institute for Neurological Disorders and Stroke)
- 1 new diagnosis and death every 90 minutes (ALS Association)
- Progressive illness targeting motor function

Locked-in Syndrome (LiS)
- Advanced stages of ALS lead to LiS
- Limits patients to voluntary control of their eyes

Project Objective
Provide a means for ALS patients with LiS to voluntarily alert their caregivers that they need help.

SOLUTION

Oculert utilizes electrooculography to perform real-time monitoring of eye movement and allow users to sound a remote alarm.

VALUE

Reduced Cost

Eyegaze $13,000
Tobii $22,000
Oculert $5,000

Societal Impact

Short Term
Give agency and security to ALS patients with LiS

Long Term
Expand to patients with LiS outside the ALS community
Provide an assessment tool for identifying LiS cases

Improve quality of life for those with LiS and their caregivers