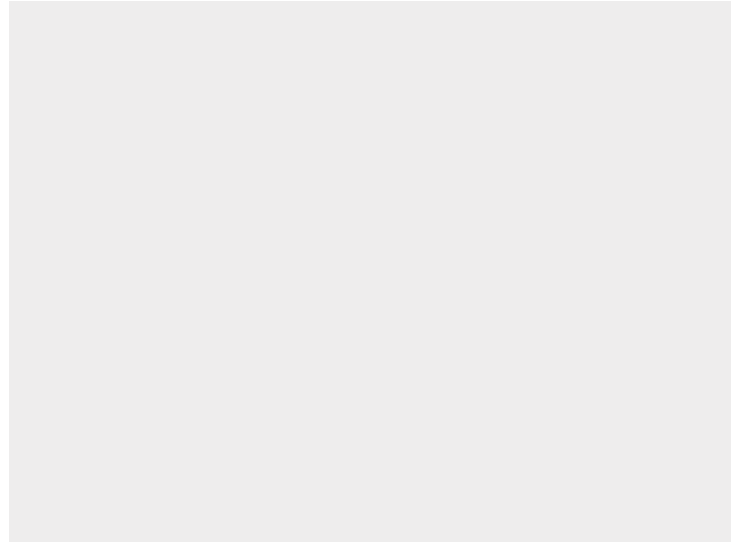


device that can
rather than improving function over the longer term.⁹
device that can

Nations of H

o ience Policy





IMPACTS OF NEURAL STIMULATION TECHNOLOGIES

The use of neural stimulation technologies can compensate for lost nerve function, improve quality of life, and lower the cost of education and treatment. The two examples below illustrate the value of neurotechnology and its potential application to diverse diseases and conditions.

COCHLEAR IMPLANTS

- As of December 2012, approximately 324,200 implants have been implanted worldwide, a nearly 30-fold increase from 1995.⁴⁵ In the United States, roughly 58,000 were implanted in adults and 38,000 in children.⁴⁶
- The vast majority of cochlear implant users continue to use their implant 10 years after implantation.⁴⁸
- Implantation saves society \$30,000-50,000 per person over a lifetime.^{49,50}

