expanding touch interaction beyond the screen on mobile phones

How can we make interacting with mobile phones easier for the thumb and the one-handed user?

49% use with one-hand vs two-handed and cradled

1/3rd of the screen is effortless to reach for the thumb

OUR PROCESS

RESEARCH
Comparative analysis
User research

CONCEPT
Persona development
Gesture concepts

DESIGN
Gesture design
Visual design

BUILD
Physical prototype
Android app

WHAT IS ACTIVEDGE?
Sensors added to the edges of a mobile phone to expand touch interaction beyond the screen.

HOW DOES IT WORK?
Arduino-based sensors are connected to the phone and activated using the Android app.

HOW CAN IT HELP?
Quicker application shortcuts.
Increase target for interaction.
Unobstructed screen viewing.

PROOF OF CONCEPT: SHORTCUT GESTURES
To demonstrate how ActivEdge can help with one-handed use, we designed gestures for app shortcuts

UNLOCK
TAKE A PICTURE
landscape & portrait
PLAY/PAUSE SONG
HOVER MODE
VICE VERSA detects if you hold in left or right hand

visit us at teamactivedge.wordpress.com