

Designing with Teens

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Background

- Taking on the Teenagers Project
 - www.mad4nrg.org
- Innovative technologies to reduce teen energy use
- Create a community of teenagers engaged in reducing energy use
- Longitudinal change in energy attitudes and behaviors
- Design with teenagers
 - MAD (Make a Difference) mobile devices



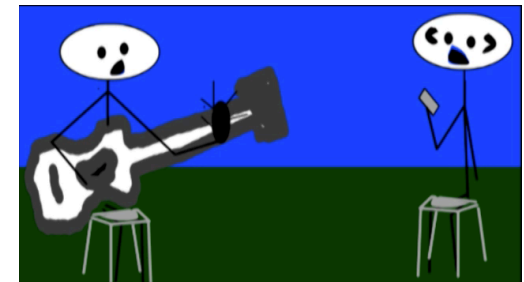
The Challenge

- Understanding teenagers
 - To create 'teen' technologies
 - Design for appropriation in 'cool' ways
- Engaging teenagers in user-centered design
 - Commonplace with adults, rare with teens
 - Conveying requirements?
 - Collected/interpreting designs?



The Design Study

- Design of MAD v1 device
 - Energy awareness, educational info.
 - Mobile/Wearable
- Obstructed Theatre
 - Video portraying a usage scenario with teens
- Y7 (11/12) and Y10 (14/15) classes 2 UK high schools
 - 41 designs
 - Including different usage scenarios



Analysing the Designs uclan University of Central Lancashire

- Group designs then pick the 'best'
 - *ideas to inspire the design of an engaging mobile/wearable energy awareness application for teenagers*
 - 4 Interaction designers
 - Individually then as group
- Complete products
 - Interactive T-Shirt, Locket, Colour changing objects
- Unusual design ideas
 - Devices that fight, Devices that annoy you
Stickers as rewards



Findings

- Teens understood and engaged with the task
- Rich designs
 - Ranging from the mundane to the novel, full products to ideas
- Analysis in groups worked well



Thanks for Listening!

- Taking on the Teenagers
 - www.mad4nrg.org
 - www.chici.org
- Understanding and Designing Cool Technologies for Teenagers, Janet C Read, Daniel Fitton, Benjamin R Cowan, Russell Beale, Yukang Guo, Matthew Horton, CHI, Vancouver, 2011
- Creating 'Cool' Mobile Technologies To Reduce Teen Energy Use, Daniel Fitton, Janet C Read, Russell Beale, Ben Cowan, Yukang Guo, PINC Workshop, CHI, Vancouver, 2011
- Turning Up the Heat on Energy Monitoring in the Home, D Fitton, M Horton¹ M., Guo² Y., and Read¹, J.C. Climate Change Conf, 2011
- COOL - aX continents, cultures and communities Workshop @ CHI 2012 in Texas