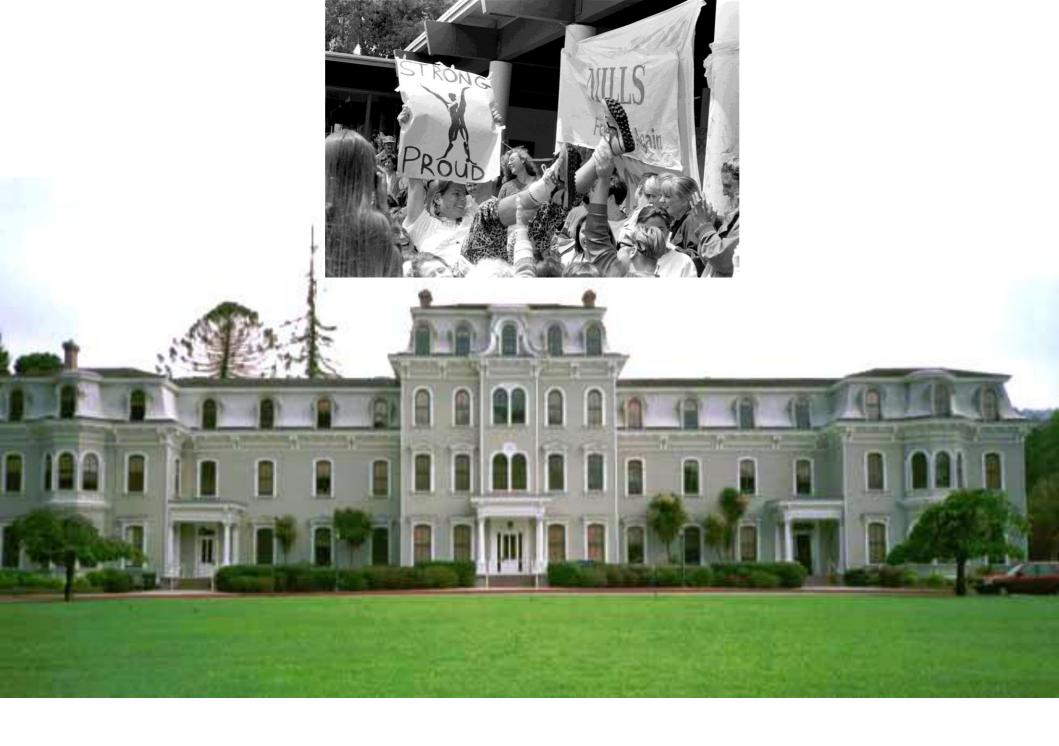
Technology for a Better World

Ellen Spertus
July 13, 2012
App Inventor Summit



CS 80/180: Technology for a Better World

Information and Communication Technology (ICT)





Satisfies the quantitative and computational reasoning requirement



Appsolutely everything

The rapid rise in popularity of smartphone apps is matched by the sheer breadth of things you can do with them

CARKEYS



Zipcar shows nearby hire cars, which you can unlock and drive away using the app and iPhone alone

NAME THAT TUNE



Want to know the details for the song that's playing? Just hold your smartphone near the speaker and let Midomi or Shazam identify it for you

VITAL SIGNS



Cardio Calc, Critical Care and iHeartRate Monitor let you check your pulse and your blood pressure

SEX AND THE VICINITY



Apps such as Who's Here and Grindr link you up with like-minded people near your location for chat, dating or sex. Be prepared to be sent unsolicited photos of penises

DRUG DEALER



See where (medical) marijuana is available to buy nearby with an app called Cannabis

SECURITY CHECK



Biowallet scans your iris with the smartphone's camera to unlock access to your secret passwords

PERSONAL SHOPPER



With Gocart and Snaptel, your phone camera can read barcodes, recognise books or album covers, then provide prices and reviews

BABYSITTER



Baby Rattle, Baby Monitor and Diaper Tracker can make life a little easier for tech-savvy parents

Number of apps downloaded in the first year of iPhone App Store 1.5 New apps added to App Store billion since July last year Proportion of app users who say 64,500 "apps have changed my life" Average time per day app users spend on apps, about half the time they spend using it for calls 55 mins Less time that app users spend on a computer 220/0 \$2.57 Average app price in July Number of new non-gaming apps appearing per day in the App Store



Information

8





Communication





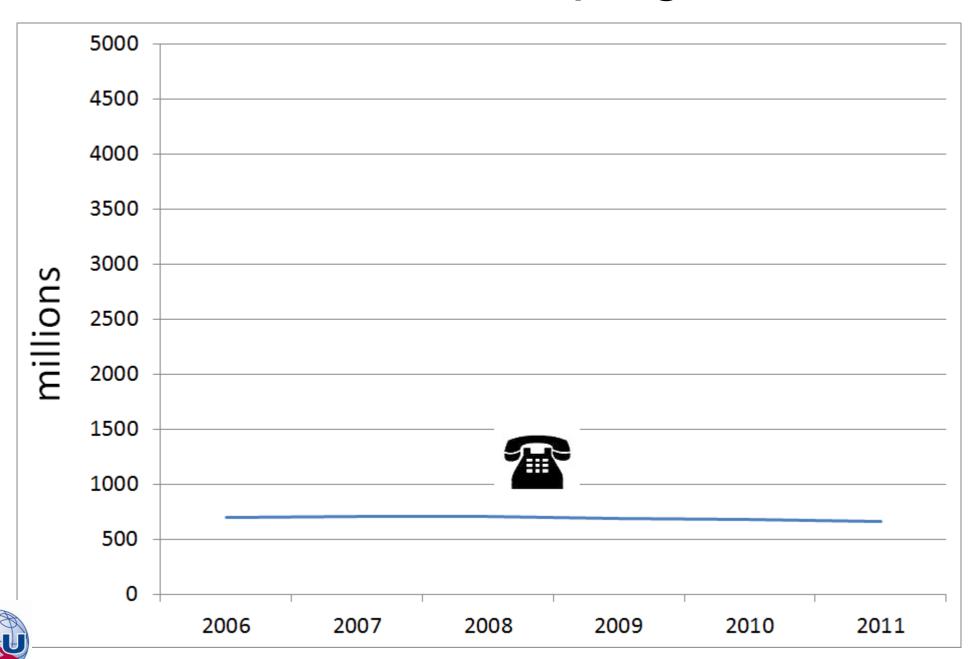
Technology



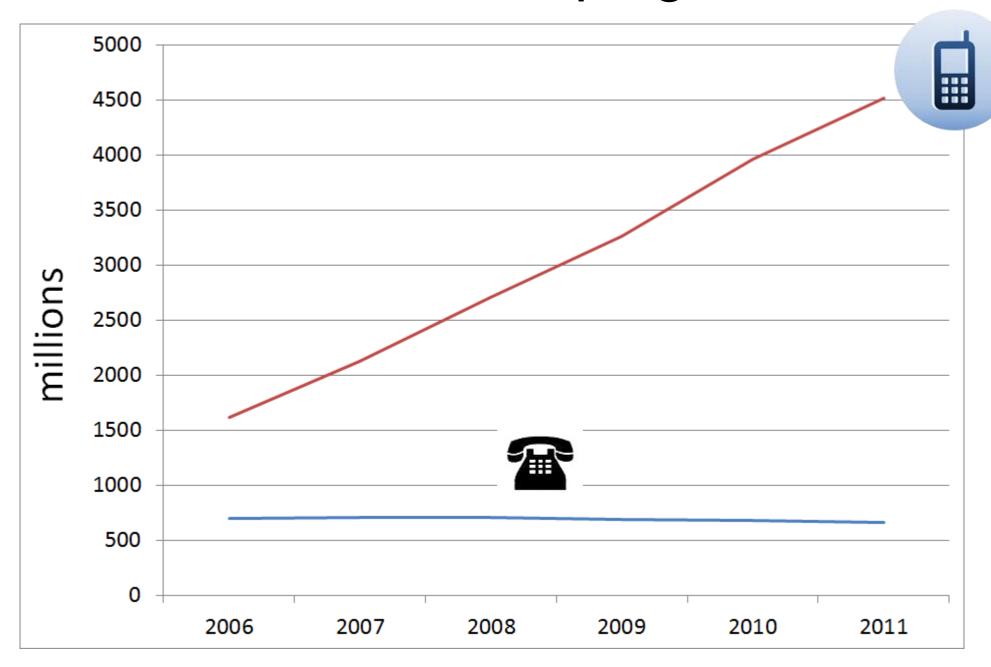




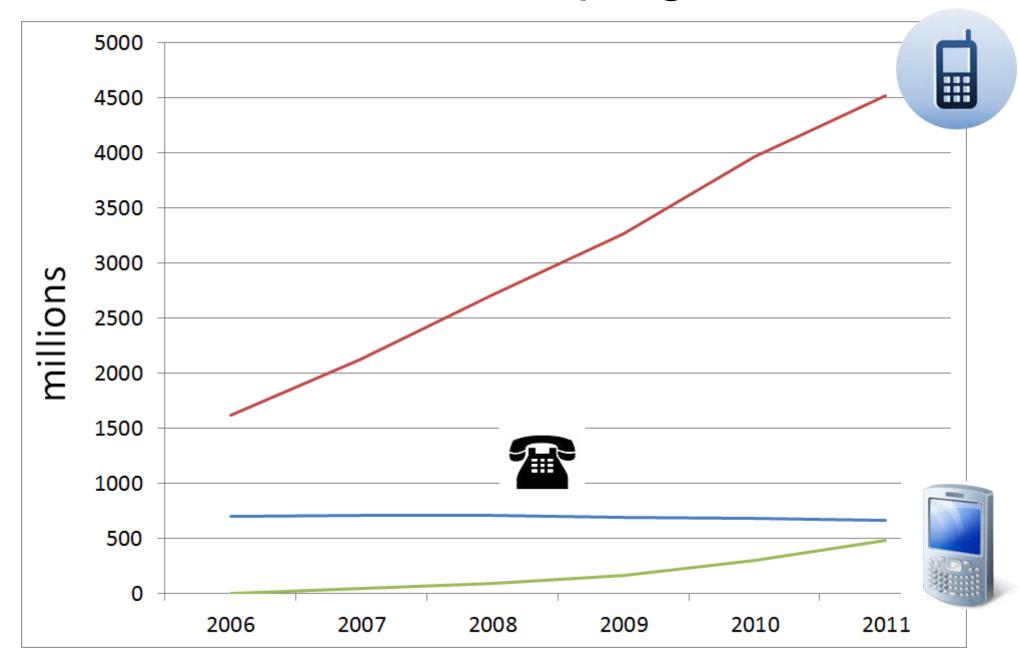
ICT in the developing world



ICT in the developing world

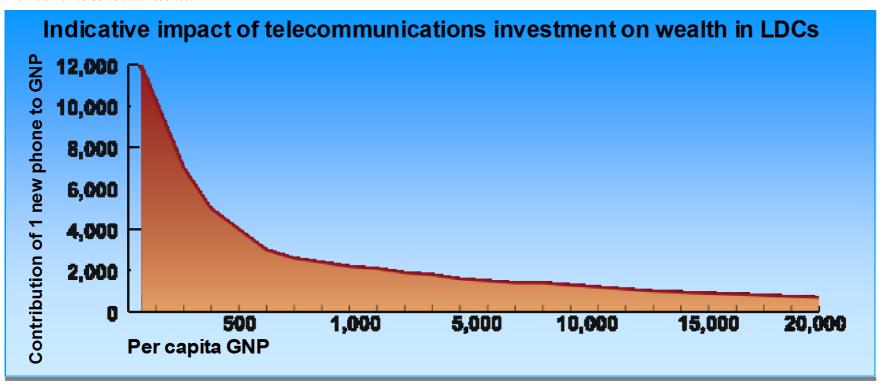


ICT in the developing world



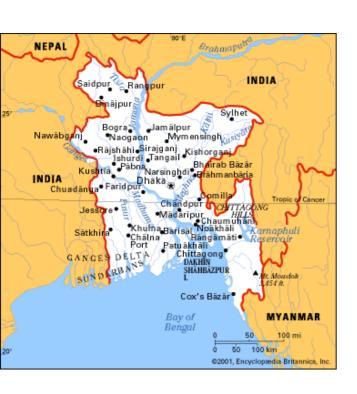
Effect of a single phone on income

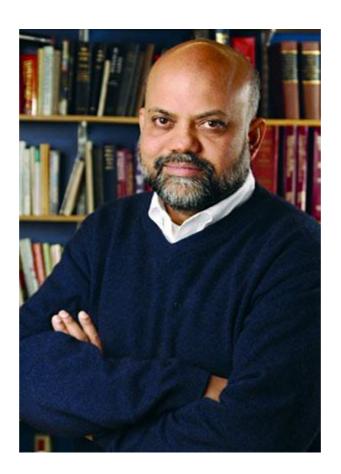
TTU research:



Source: Bottom-Up Entrepreneurship for Democracy and Development, Iqbal Z. Quadir, 6th Annual Technologies Ventures Conference, June 11, 2009.

Iqbal Z. Quadir (1958-)





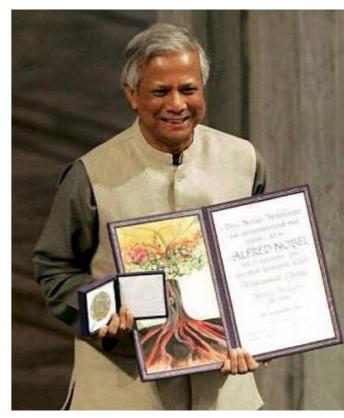




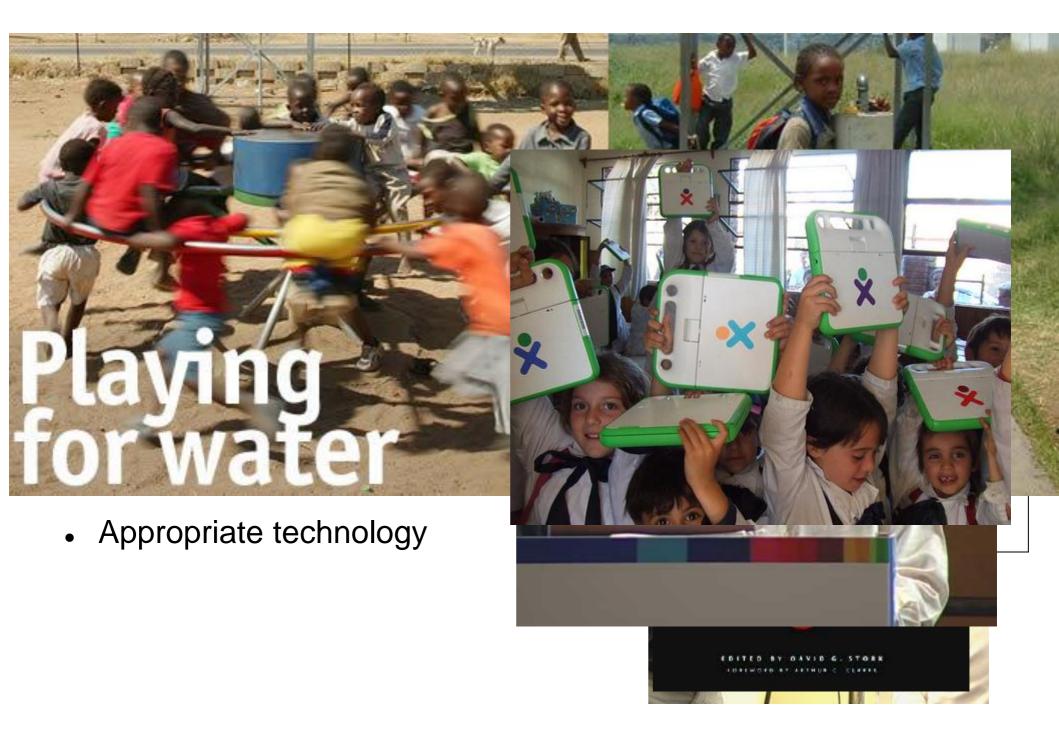












App Inventor labs

- GUIs
- Conditional statements
- Lists
- Procedure calls
- Global variables
- Games
- Sensors (orientation, acceleration, location)



Final project assignment



Build a helpful application

- App Inventor front end
- App Engine back end
- Presentation

Final projects

- Radio station interface
- Apartment finder
- Flash card tool
- Oakland crime information
- Pregnancy information

"Yes...I became more aware of its power to change the world with the help of brilliant minds."

[Child development major – weak programmer]

"I already really liked it, and now I like it even more."

[English senior – weak programmer]

"Yes, It is not just numbers."

[English senior – weak programmer]

"Yes, I saw that computer science affects more people than I originally thought and is used in almost every field."

[Psychology senior – strong programmer]

Discussion