



Development Engineering

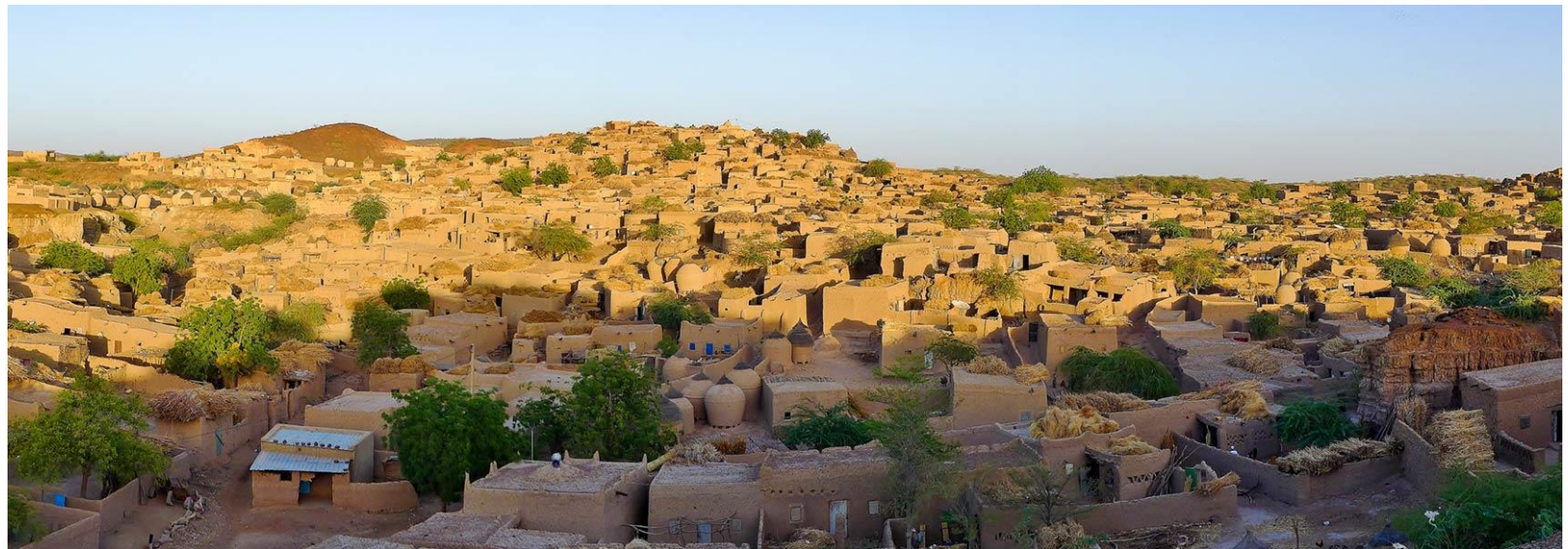
CSEP 590B

Jenny Aker & Richard Anderson

June 1, 2020

Today – Mobile money for unconditional cash transfers

- Announcements
- Jenny Aker, Tufts
- Discussion with Jenny



Announcements

- Discussion Sections – Zoom – Attend one
 - Wednesday: 3:00-4:00 pm
 - Wednesday: 5:00-6:00 pm
- Homework 9, Due June 8.
 - Discussion questions from DevEngr chapter
 - Submit by email
 - Course grade based on 7 of 9 assignments

Course Schedule

Date	Topic	Lead
April 6	Engineering the Vaccine Cold Chain	Richard Anderson
April 13	Community Cellular Networks	Kurtis Heimerl
April 20	Remote Temperature Monitoring	Martin Lukac, Nexleaf
April 27	Election Monitoring	James Long
May 4	Global Goods Software	Skye Gilbert
May 11	Voice Based Social Networks	Aditya Vashistha
May 18	Open Data Kit	Waylon Brunette
May 26	Removing Arsenic from Drinking Water	Ashok Gadgil
June 1	Fintech for Rural Networks	Jenny Aker
June 8	Development Engineering Discussion	Temina Madon and Anustubh Agnihotri

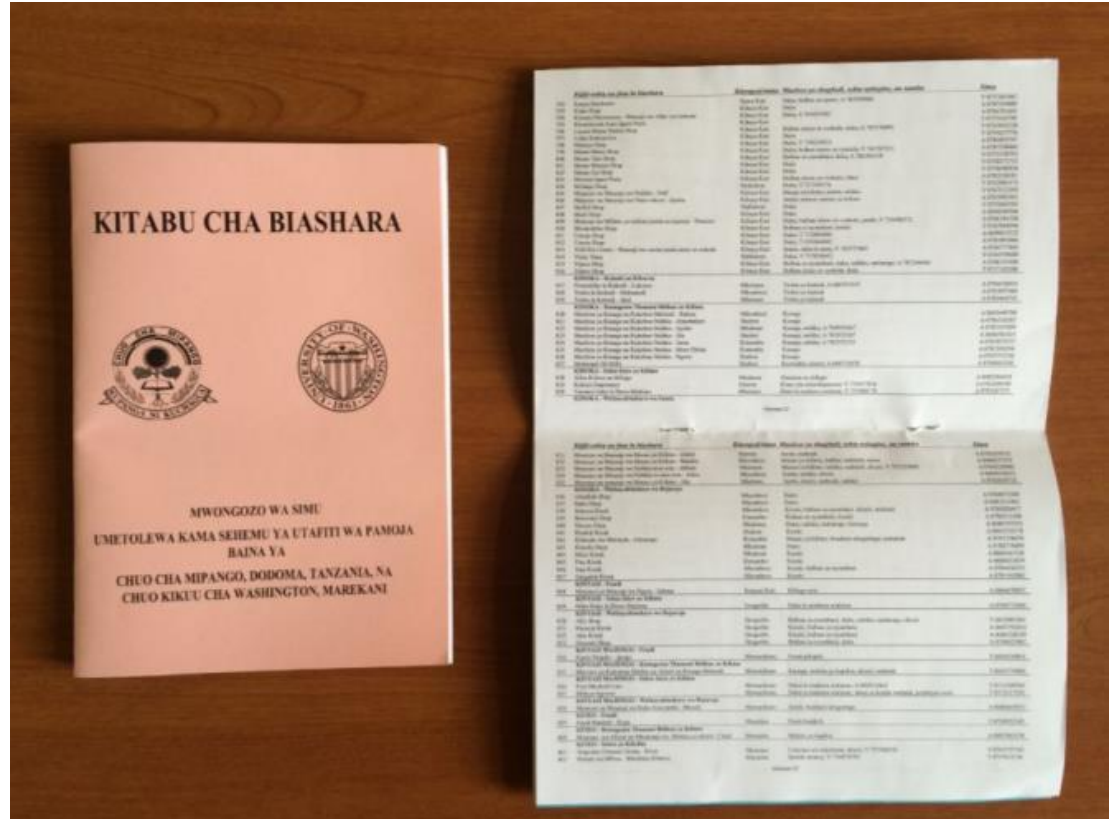
Development Engineering Discussion

June 8

- Temina Madon and Anustubh Agnihotri
- Building a field
 - Humanitarian Engineering (Civil, Water, Sanitation, Power, Disaster Relief)
 - Development Economists
 - Information Technology for Development
- Open Access Textbook
 - 5 Chapter Authors + 2 Section Editors spoke in class
- Discussion topics
 - What are the main themes from the field
 - Is there background that would have been helpful for this course
 - Feedback on Development Engineering from Software Engineering perspective

Kichabi

- Jenny Aker, Josh Blumenstock, Brian Dillon
- Economic question:
 - Does access to information improve livelihoods
- Method
 - Create a business directory
- Implementation
 - Business census in Tanzania
 - Randomized Control Trial in distribution of directory



eKichabi

- Electronic Kichabi
- ABD + Galen Weld, Trevor Perrier, Richard Anderson
- USSD
 - GSM Protocol
 - “Session based SMS”
 - Suitable for building Menu based application
- USSD Implementation of Kichabi
 - Pilot deployments in Tanzania



Today – Mobile Money and Payments

- Development Engineering: Technology development to improve people's lives in low resource settings
- Financial technology: Digital Financial Services and Mobile Money
- How FinTech **might** address poverty
 - Promote financial inclusion
 - Create new services for poor people
 - Increase economic opportunities
 - Improve timeliness and reduce costs of payments
- Challenge of impact evaluations

Today – Jenny Aker, Tufts University

- Professor of Development Economics
- PhD Agriculture Economics, UC Berkeley
- Leading researcher on cell phones and development in Africa
 - Mobile phones and economic development in Africa
 - Mobile phone coverage and producer markets: Evidence from West Africa
 - The promise (and pitfalls) of ICT for agriculture initiatives
- Field work in Benin, Burkina Faso, Chad, DRC, The Gambia, Ghana, Guinea, Kenya, Liberia, Mali, Morocco, Mozambique, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, South Sudan, Tanzania and Togo, Haiti and Guatemala.



Over to you Jenny . . .