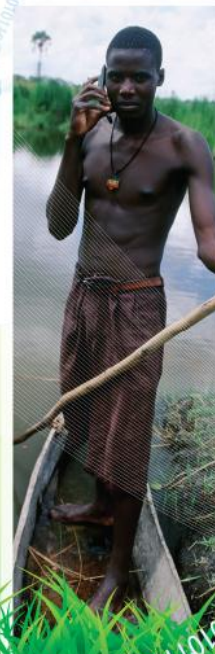


Summer School on Computing for Socio-Economic Development

by Microsoft Research India in association with Indian Institute of Science



Welcome to Bangalore!



Welcome to Bangalore!



Microsoft Research India

Established January, 2005

Seven **research** areas

- Algorithms & Search
- Cryptography, Security & Applied Math
- Mobility, Networks, and Systems
- Multilingual Systems
- Rigorous Software Engineering
- Technology for Emerging Markets
- Vision, Graphics, and Visualization

Contributions to Microsoft:

- MultiPoint, Netra, Virtual India

Currently ~55 full-time staff

Collaborations with government, academia, industry, and NGOs in India

<http://research.microsoft.com/india>



Microsoft Research India
Sadashivnagar, Bangalore

Technology for Emerging Markets

Research Group Goals



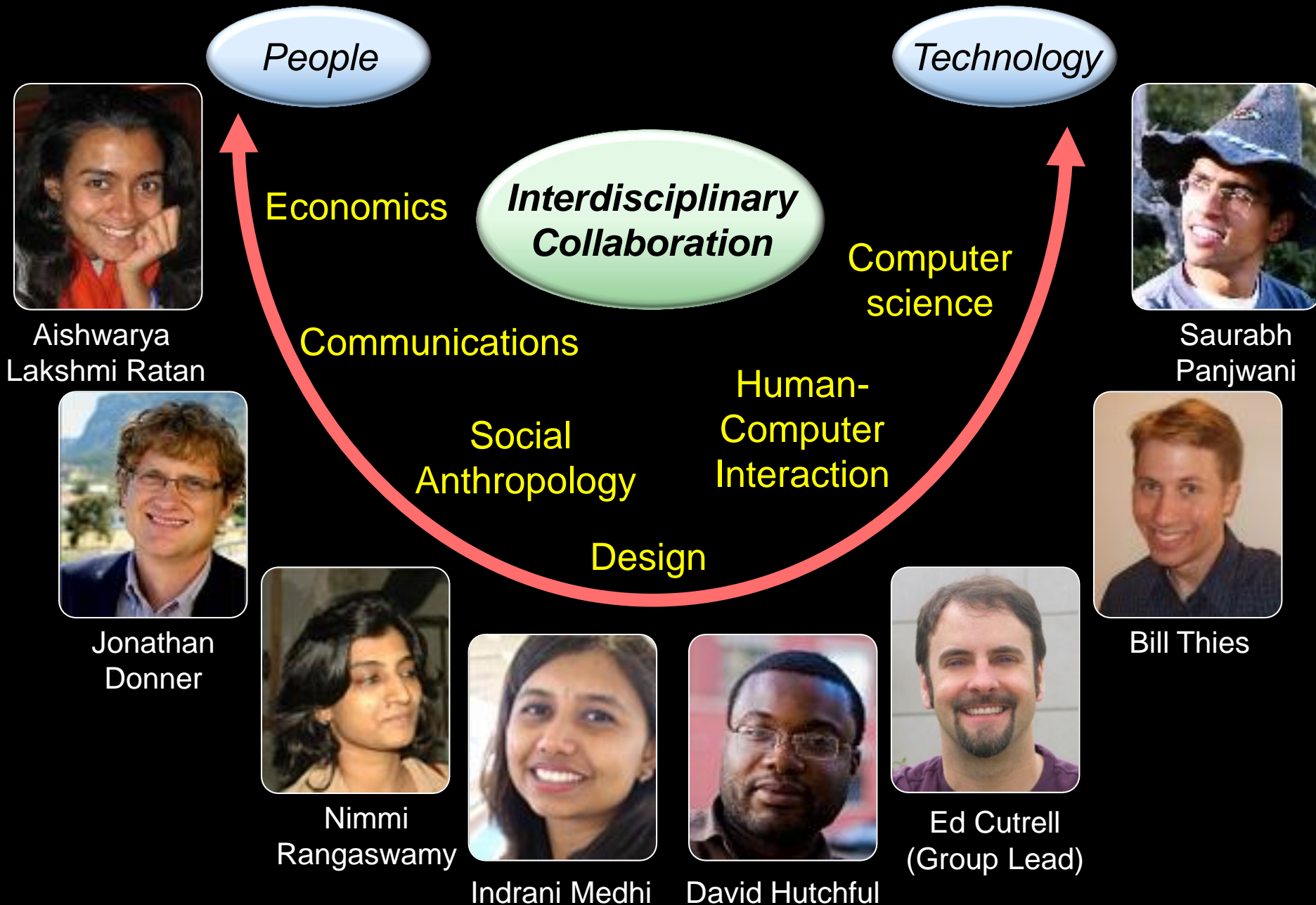
Computer-skills camp in Nakalabande, Bangalore
(MSR India, Stree Jagruti Samiti, St. Joseph's College)

Understand existing and potential technology users in developing communities

Design and **evaluate** technology and systems that contribute to socio-economic development of poor and developing communities worldwide

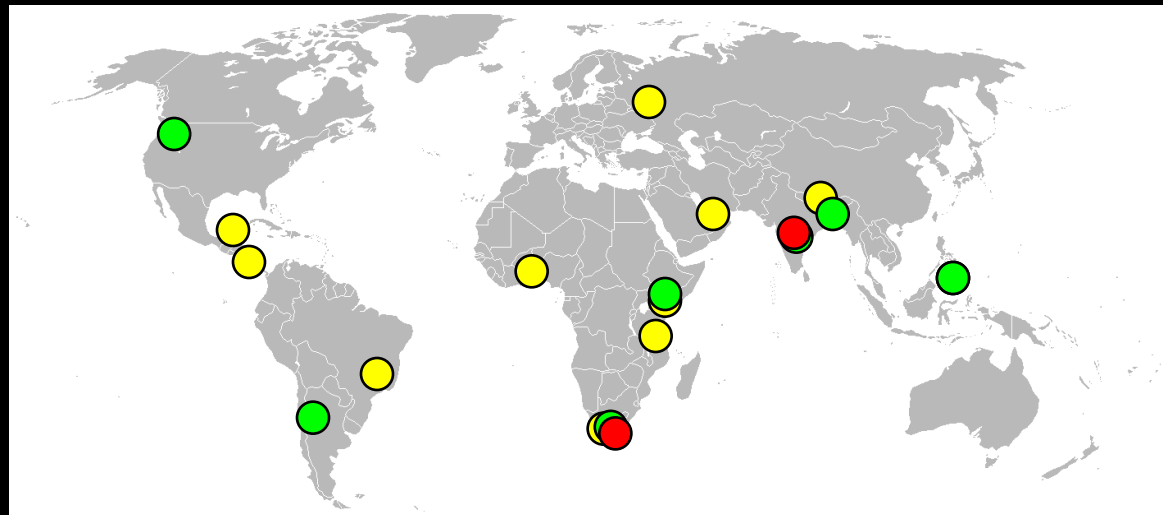
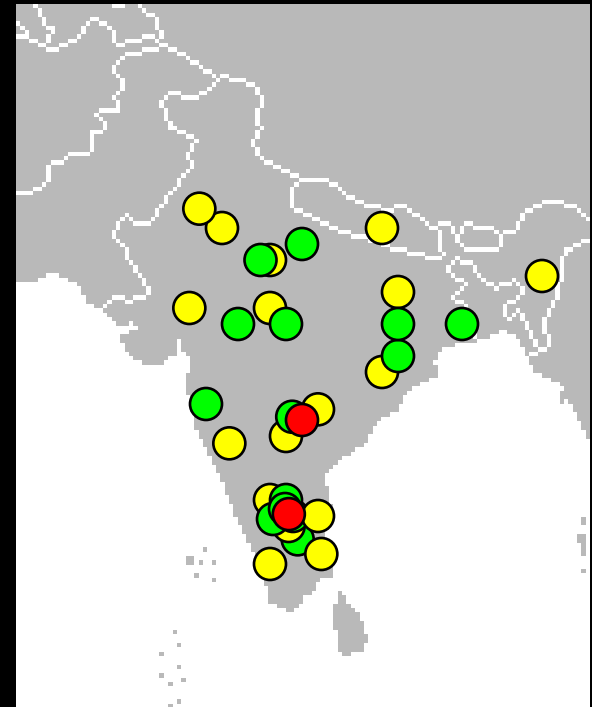
Collaborate with development-focused organizations, governments and industry for sustained, scaled impact

Technologies for Emerging Markets



Research Sites

- - Researcher locations
- - Projects studied
- - TEM projects



Sample Projects

MSR India: TEM

Rural Microfinance and IT



Can computers help existing structures for rural microfinance?

Aishwarya Ratan
Associate Researcher

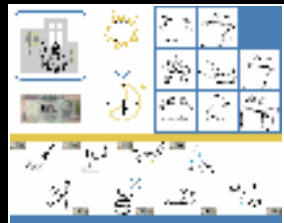
ICTs in Urban Slums



Studies of use and adoption of ICTs in Mumbai slum communities

Nimmi Rangaswamy
Associate Researcher

Text-Free UI



UIs without text for users who are illiterate and may never have seen a computer before

Indrani Medhi
Associate Researcher

DVDs for Education



Experiments with using DVDs as snapshots for books and Web content

Bill Thies
Researcher

Digital Green



Video and mediated instruction for agriculture extension (Spun out to NGO in 2009)

Rikin Gandhi
(CEO, DG)

Tools for K-12 Teachers



Studies of tools to help teachers in low-resource schools

Saurabh Panjwani
Post Doc

Simultaneous Shared Access



Multiplying the value of PCs by allowing many users to access

David Hutchful
Assistant Researcher

Everyday Mobile Use



Studies of mobile phone use in the developing world

Jonathan Donner
Researcher



So why are we here?



Summer school on computing
for socio-economic development
AKA ICTD / ICT4D
(Information & Communication Technology
for Development)

Who are you?

- ~80 out-of-station students
 - 11 Undergraduate
 - 30 Masters/dual degree
 - 30 PhD
- 8 University faculty (Lect., Prof., etc.)
- ?? visitors & auditors

Who are we?



TEM Members



Aishwarya
Lakshmi Ratan



Bill Thies



David Hutchful



Ed Cutrell



Indrani Medhi



Jonathan
Donner



Nimmi
Rangaswamy



Saurabh
Panjwani

Guest Lecturers

Week 1



Revi Sterling
UC Boulder, USA



Isha Ray
UC Berkeley, USA



Michael Best
Georgia Tech, USA



Tapan Parikh
UC Berkeley, USA



Geeta Menon
Stree Jagruti Samiti, India

Guest Lecturers

Week 2



Kentaro Toyama
UC Berkeley, USA



Solomon JP
Ashoka, India



Joyojeet Pal
Polytechnic Inst of NYU, USA



Ashok Desai
Businessworld, India



Rikin Gandhi
Digital Green, India



Yaw Anokwa
U Washington, USA



Carl Hartung
U Washington, USA

Week 1

Monday, June 14:

What is development?

Lectures by Revi Sterling and Aishwarya Ratan

Tuesday, June 15:

ICTs & development

Lectures by Jonathan Donner, Michael Best, and panel of faculty members

Wednesday, June 16:

Projects in ICTD

Presentation of published ICTD projects by faculty members

Week 1.5

Thursday, June 17:

Qualitative methods

Lectures by Isha Ray and Nimmi Rangaswamy

Friday, June 18:

Design: What to build, why and how?

Lectures by Indrani Medhi & Tapan Parikh

Saturday, June 19:

Understanding poor communities

Lectures by Indrani Medhi & Geeta Menon followed by local field trip

Week 2

Monday, June 21:

Projects in ICTD

Presentation of published ICTD projects by faculty members

Tuesday, June 22:

Study methodologies, study design and evaluation issues

Lectures by Aishwarya Ratan

Wednesday, June 23:

Pessimism & optimism in ICTD

Lectures by Kentaro Toyama and Rikin Gandhi

Week 2.5

Thursday, June 24:

From government policy to development outcomes

Lectures by Ashok Desai, Joyojeet Pal and Kentaro Toyama

Friday, June 25:

Beyond research

Lecture by Solomon JP, panel by summer school faculty

Saturday, June 26:

Professional development/conference day

Student presentations, faculty discussion

Tumba Thanks!!!

A group of women in traditional Indian attire are celebrating and dancing. They are wearing colorful saris and jewelry, and some are making peace signs. The background is a warm, golden glow.

Mr Keshava Babu and Ms Geetha
from the CEDT department (IISc)

Mr Arun Nair and his team
from End to End Marketing

Ms Hema V
from MSR India

Mr Ashwani Sharma
from MSR India