The PC- aided Enterprise and Re-cycling ICT An ICT for D Story?

Nimmi Rangaswamy Microsoft Research India

The Research Field: The Slum Ecology

Definition of a Slum







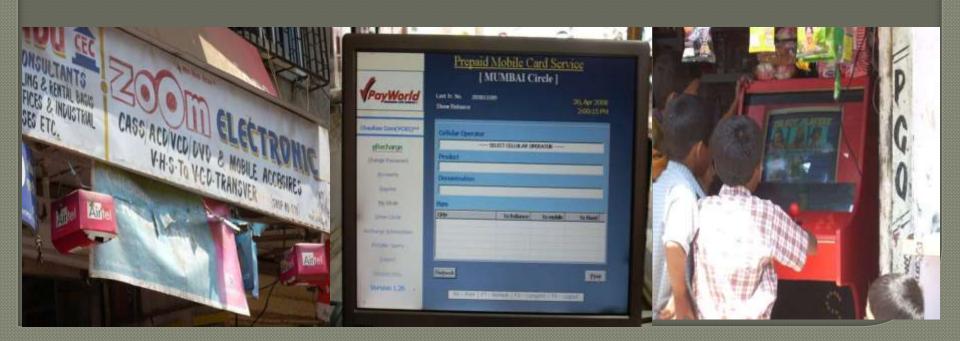
Subject: The PC-aided Small Enterprise

- MSE- Micro and Small Business
- PC as Centre of Business
- Small Entrepreneur



Subject: The Slum Ecology

- Emerging ICT Consumption
- Path to New Technology Immersion
- Alternate Infrastructure



Theoretical Frameworks

- OICTD-Inclusion lens
- Social constructions of technology (SCOT) & Mediation of technology (BOT)
- MSE as Infomediaries (Duncombe & Heeks)
- Repair Cultures (Thrift)

Behram Baug | Mumbai | Suburban Slum 50000 population | 10000 hhlds | 1 km Radius

- PC-related business nodes
 - Cyber Cafes
 - PC assembly enterprises
- Computer skill-training enterprises
- PC-aided services
 - On-line agency for ticketing/bill payments
 - Mobile phone handset repair and software servicing
- PC- based services
 - Photo studio
 - Lottery tickets sales

Methodology

Focus on the entrepreneur

Context	Shop Owner	Business practice	Suburban Slum
30 Shops	Interviews	Observations	Context surveys
Business			

The Field of PC-aided Enterprise...

Type of business	#	With PCs (no Internet)	With PC & Internet
Mobile phone shop	100+	50+	20?
On-line agency	17	0	8
Photo studio	8?	4?	0
Gaming parlor	2	2	0
PC Assembling	6+		
Internet café	0	0	2
Total	140+	56+?	30?

The Field of PC-aided Enterprise...

Type of business	#	With PCs (no Internet)	With PC & Internet
Photo studio	8?	4?	0
Internet café	0	0	2
Gaming parlor	2	2	0
Mobile phone shop	100+	50+	20?
On-line agency	17	0	8
PC Assembling	6+		
Total	140+	56+?	30?

Findings

- The PC-aided Service Node
 - Servicing demand

- Digital Photo
- E-mail
- Ticketing
- Utility Bills
- Re-charge
- Phone Repair
- Updates
- Assembled PC
- Computer Education

Findings

- 'Making do' with available capital.
 - Space, Hardware, Labour
 - Economies of scale
 - Supply chains
 - Demand routes
 - Client-base
 - Legal issues

Findings

- Local Structures of Low-cost Skill
 Acquisition
 - Self-skill building practices.



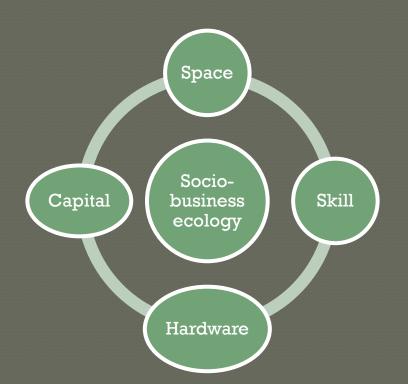
Discussion

- Re-cycling Hardware
- Skill Building Resources

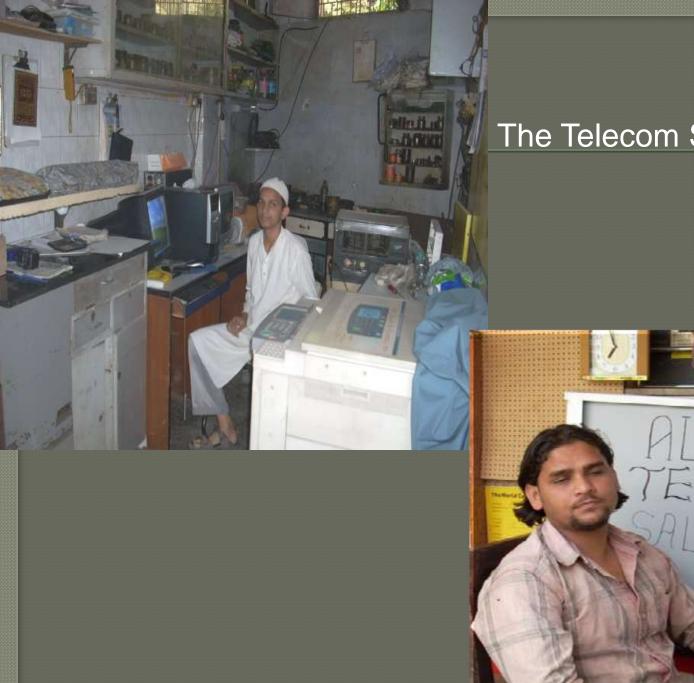


Discussion

• Expanding Enterprise







The Telecom Service Centre





Discussion

- Micro-entrepreneurship not as a simple assimilation of technology aiding business
 - creative and adventurous venture
 - attracting technology
 - disbursing appropriate services
 - effective consumer adoption and use.

Main Findings: PC-aided MSEs

- Self-sustaining
- Promote self- skill building
- Re-cycle technology
- Aid greater affordability
- Aid effective immersion.

Main Findings: PC-aided MSEs

- Small biz are hybrid spaces of formal and non-formal networks
- ICT, arguably, only connector of shifting socio-economic capital
- Co-expansion of ICT use, networking and business potential

Thank You!

http://research.microsoft.com/en-us/people/nimmir/

