Integrating mobile data services into an existing information ecology

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Rural e-Services

 Rural e-services: Participatory co-design of Sustainable Software and Business Systems for Rural Co-operatives



+ Haider Rizvi, Sheffield Hallam University; Subudh Gupta, Saral Services; Xiaolan Fu, University of Oxford; Paul Matthews, U of the West of England

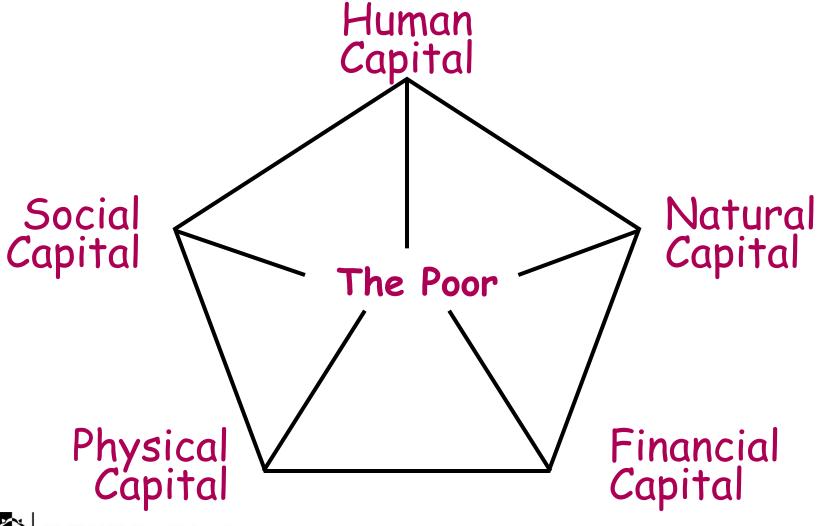


What do we mean by development?

- Development = economic growth?
 - At any cost?
- Development as Freedom
 - Enabling people to make their own choices
- Participatory development practice
 - Empowering individuals and groups
 - Leading social inclusion
- Development as a social change
 - Changing a social ecology



Livelihood assets



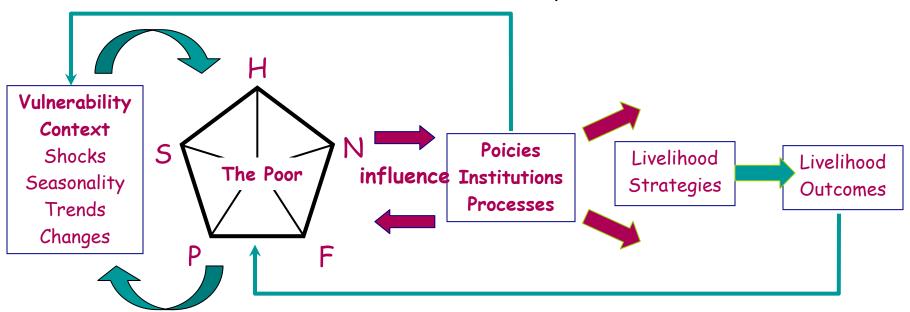


The Livelihoods Framework

H – Human capital P – Physical capital

N – Natural capital S – Social capital

F – Financial capital



Source: DFID Sustainable Livelihoods Framework, 2001



Sironj Crop Producers Company

- The membership
 - 600 member / shareholders
 - Land holdings ~ 5 bigha
 - 50 villages in a 40Km radius
 - INR 100 to join
- Extension services
 - Bulk purchase of inputs
 - Advice on farming methods
 - Seed breeding programme
 - Aggregating outputs





The design process

- Participatory methods
 - from IT design
 - from rural development
 - From agile software development



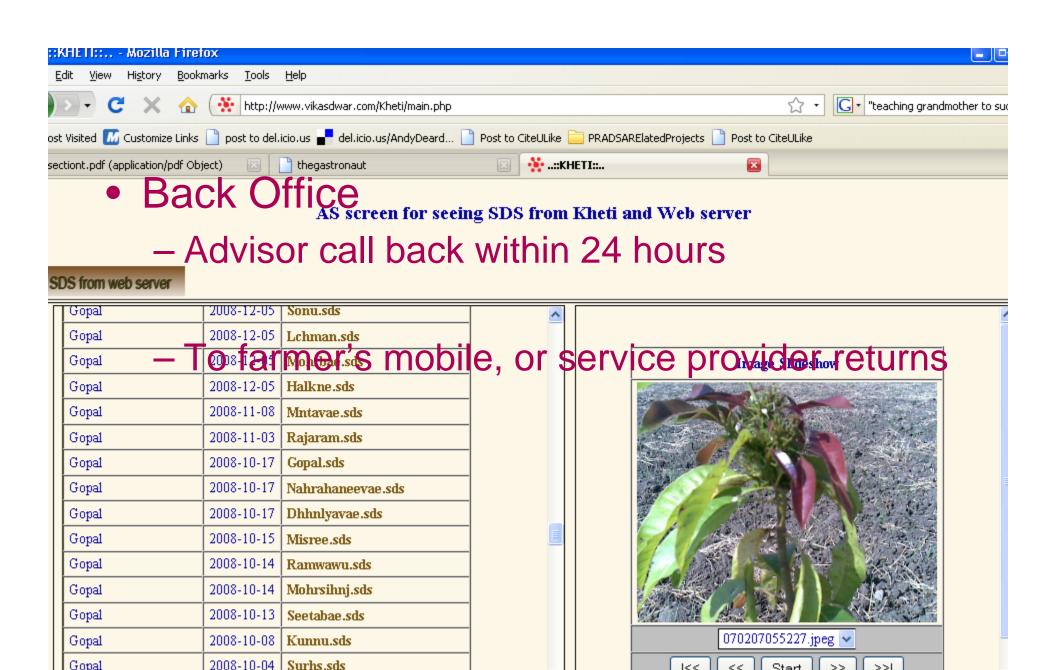


The Socio-Technical System

- Mobile camera phones
 - held by local 'service providers'
- Simple message interface
 - Up to 6 images
 - 1 audio track
- Post using GPRS
- Website back end







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Start

A livelihoods analysis

- Providing new physical assets
 - IP enabled camera phones
 - A mixed network of mobiles and desktop PCs
- Focus on social assets
 - Advice from a trusted source
 - Strengthening links between village & district centre
- Developing human assets
 - Improved farming practice
 - New technical skills
 - New communication practices
- Developing financial assets
 - Increased agricultural productivity
 - New financial model for co-op
- Natural assets
 - Solar power?



The take-home message

It's not about the phone!



Where next?

- Implement in other locations
- Extend to other services
 - Health
 - Microfinance
- No more research funding
 - Looking for partnerships
 - Open source software
 - Maputo

