### **Auditing ISITI's Intangible Assets Uncovering our tacit knowledge about community-based ICT4D projects**

#### Introduction

research ISITI а institute, As generates a great deal of knowledge about the topic area that is its focus; using Information and Communication Technologies (ICTs) for development within remote and isolated indigenous communities throughout Malaysia. Usually this knowledge is captured and shared processes of conferences and peer- conducting their research. It is often reviewed journals.

throughout the research processes of granted that researchers will have it formulating theories and collecting and will be able to use it effectively as analyzing data, researchers and accumulate a considerable amount of enquiries. other, contextual, knowledge that is this is not always the case. There is a not always recorded in the formal research outputs. relates to the experiences and that they observations undergo during their encounters with the curve quickly and easily whilst others through the conventional academic communities with whom they are will struggle. Why is this important? However, personal and it is often taken for

they proceed with their research Unfortunately, though, learning curve to climb in This knowledge understanding the various aspects of the context within which research is conducted. Some will climb that

### **Socio-Technical Systems**

organizations systems in recognizes the importance of the can interaction between people and implementation technology in workplaces within the systems in communities. complexities of organizational work technical design. The term also refers to the development therefore interaction between behaviour. The principles apply value to stakeholders. equally well in information systems for communities. of ICT4D is not technological but approaches can lead. As technologist To illustrate how this works, the social; the emphasis should be on the observation has been made that a "C" and the "D" instead of the "I" and Free Basics is probably the wrong **ICT-based** information the "T." particular system can work well in one The organisation but not in another. As approach to systems design, it is said, causes of failure organisation.

assured, analysts and implementers processes. Despite this, as intuitive Socio-technical systems design is an should take account of the social, as the socio-technical approach may approach to the design of information human and organisation factors of sound, there are still many who that the organisation. Again, the same support be argued for of information A socioapproach to leads to society's systems that are more acceptable to government complex infrastructures and human end users and that deliver better example, Facebook's massive failure

the design of As one observer puts it "the essence typifies

techno-centric alternative the technologies are the same, the does not properly consider the kinds of services because it doesn't have to be complex relationships between the empower people to create solutions attributable to factors within the organisation (community), the people for themselves that are culturally and enacting business (social) processes contextually appropriate". Accordingly, for system success to be and the system that supports these

a more techno-centric the approach to technology deployment and these include major institutions such as the international multi-lateral system development agencies, global technology corporations and institutions. For in delivering free internet to India where techno-centric Anil Dash told Mark Zuckerberg why approach for Facebook in India; "Internet.org may be a fundamentally wrong structure for delivering these

### **Context Rules**

Among the proponents of the socioof implementation is king." This means that the context wanted. Many computer specialists within which a system is inserted will many examples of technologies that exhibited promise reason is argued to be concerned of the 1970s, Betamax was, in theory, sharing files between computers. a superior recording format over VHS, If context is king therefore, the path but it lost out because Sony did not to success with information systems

take into account what consumers lies wanted. Conversely, we can point to understanding of it. It is for this technical approach to the design and sub-optimal technologies that took reason that much of the work that information off with a bang because they ISITI systems, it is often said that "context matched closely with what people communities praise the Apple Macintosh as a far always play a fundamental role in superior device than a Windowsdetermining the outcome. There are based PC, yet Apple has captured less economic profiles of communities superior than 10% of the PC market. The for world-beating dominance but with the standardized and open which ended up on the scrap heap nature of Windows based PCs that communities are facilitated towards because society rejected them. For gave users more choices when example, in the videotape format war selecting software and greater ease in that accord with their own choices

in attaining а thorough with conducts its client based is on ethnographic and anthropological approaches. We go to considerable lengths to understand the social and before we begin to discuss how ICTs might contribute to their development. this In way, uses of computers and the internet and priorities for local development.

# The Context of our Work

### **Knowledge in ISITI**

ISITI, the contextual knowledge of our communities. In community-based ICT interventions is most often The following displays a depiction of the contextual tacit. It goes largely un-recorded in our research knowledge that we have accumulated in our work. reports and has not been systematically organised in We need to be familiar with this in order to continue a manner that would facilitate sharing among achieving impact in our partner communities. colleagues and others. Yet it is crucial to achieving desirable outcomes from the interactions and

interventions that we have with our partner

## Our Knowledge of the Context of our Work

#### **Politics** Culture Infrastructure Obedience **MediaHelipad** TV TransportEducation Habits Art Dance Human-rightsInfluence FoodStories Architecture Connectivity Buildings External-influences Song Cellular-covera **Protocols**LanguageHistoryMusic Loyalty **Decision-making** Communication Health Clothes Heritagesites FamilyPracticesTaboos Electricity Radio Sanitation **Blind-faith** Roads Paths Relationships Demographics Lifestyle Disinterest Ethnicity Religion Patriarchal/matriarchal Genealogy Family-orientation Interactions Education Education Compopulation Education Ed **Respect-for-elders** Humility Decision-making Gender-equality Responsibility Marriage Income Age Gender Social-norms Filial-piety Self-interest Clašs Motivation ResilienceBehaviour Institutions Economy Environment Bank Trading Buildings SignageWeather gathering

Accessibility Landmarks Topology Borders Topology ral Boundaries Location

Clinic Restaurants UNIMAS Credit-union PoliceCorporations Places-of-worship Post-office Local-GovernmentSchool Army NGOs-civil-society Local-societies

Businesses Agriculture Logging Fishing Forest Hunting