

ICT 4 Development

UCT CSC4000w/4003w – Final Exam – June 2009

tuxLabs was a project, funded by the Shuttleworth Foundation, to install computer laboratories in schools with limited facilities, especially in the Western Cape. The project was reasonably successful as more than 100 operational laboratories were set up using recycled hardware and open source software, with student volunteers doing the bulk of the work. However, there was no broad consultation, appropriate technology selection, training, formal ongoing maintenance, curriculum integration or long term sustainability plans.

You have been asked to develop a pre-proposal to be sent to the government to fund a follow-on project to install computer laboratories in every school in the country. Your proposal should emphasize how the approach you propose will address key ICT4D issues and concerns that the original project did not consider.

As an outline for this proposal, you have thus decided upon the following:

- ◆ Introduction to ICT4D
- ◆ Brief description of the tuxLabs project
- ◆ Your evaluation of tuxLabs, based on ICT4D principles
- ◆ How a follow-on project can help to bridge the digital divide
- ◆ Design of a follow-on project
 - Ethnography
 - Technology options/alternatives and motivation
 - Human elements, champions/HAPs, buy-in, etc.
 - Legalities
 - Funding and sustainability
- ◆ How the project's success can be measured
- ◆ References

Your task is to complete the proposal document, following the outline above, focussing on the design of the follow-on project, and including any additional sections on major issues that you deem important.

You may assume that the requestor of the report is a Computer Scientist but does not understand ICT4D issues. Clearly state any assumptions and include reasons for decisions wherever applicable.

You may consult any reference materials (paper or online), but you MAY NOT discuss the problem with any individuals. Use the Wayback Machine (www.archive.org) to find the now defunct tuxLabs website – you are expected to consult this.

Format your document as 12pt Serif (Times Roman), 2.54cm margins, single-spacing. Your document must not exceed 3000 words and must not number more than 8 pages, including figures, tables and references. Include all references to documents consulted.

Submit a **printed copy** to the CS admin office (Jane Wright or Salegga Valley) by 12 noon on the appointed date for the handin. No late handins or electronic or handwritten solutions will be accepted.

UCT-CS : CSC4000W/4003W : 2009 : ICT4D

Marking Rubric

30: Coverage: breadth and depth of topics covered as per question

20: Relevance

10: Accuracy

20: Presentation: layout, style, language, etc.

10: Innovation: originality in arguments

10: References: enough and well presented (5 well presented = full marks)