**AFRINREN Meeting 4 with Hussein Suleman and Josiah Chavula**

Rob more than likely dropping out of CS Honours. Therefore project split + scope needs to be re-evaluated:

* Rosy - Probing
* Chantal - Visualisation

**Lit Review**

* Comments received from Josiah - Josiah spoke to each of us individually about our lit review after meeting
* 2nd draft due for Sunday Morning
* Due Date: Tues 28th April 10am

**Project Proposal**

* Format can be found on CS departmental website
  + Teaching → Forms → Research Proposal Guide
  + Work division not explicit in provided format but we should include
  + See pubs.cs.uct.ac.za for example project proposal: Refer to Sweet Touch
* Problem Statement, Methodology, How going to build system and how going to evaluate it, Legal
* In terms of visualisation, state there will be multiple candidate visualisations and that consultation with users will be done (HCI)
  + Talk to ICTs network people?
  + Apparently talk to Craig about networks??

For data collection, this will need to be strongly classified and explained in detail as to how it will be done.

**Project**

Data from both NRENs and institutions which aren’t necessarily part of an NREN

* Logs are netflow data
  + Map where traffic is coming from and going to
  + Historical data
  + Port numbers can be used to identify type of traffic - dubious tho
* Probes: Data is generated and sent onto the network
  + Shows latencies and hops
  + Can see how networks are interconnected
  + Look into Atlas Probes which are pre-deployed
    - Probes to can sent onto network where those pre-deployed probes are located
* One Visualisation for both sets of data
  + Preprocessing (Parsing) of data needs to be done - what format to use for visualisation?
  + Netflow logs and traceroute probes need to be in a standard format
* Visualisation:
  + For topology - logical and geographical representation:
    - Hussein envisages map-based interface with nodes and edges where edge weights indicate latencies or different edges can be used for different things
    - Reorganise nodes by latencies? Logical based representation
    - Bandwidth? Edges = Amount of data??
* System should be extensible where other types of data can be input and overlays of data visualised

**Points of Action:**

* Submit 2nd draft of Lit Review on Sunday Morning
* Start working on project proposal

**Due Dates:**

* 28 April Literature Review
* 19 May Draft Project Proposal

**Next Meetings:**

* No meeting next week as Mon+Fri are public holidays
* 4 May 3pm