

# Site Local - um, what's a "site"

[Jon.Crowcroft@cl.cam.ac.uk](mailto:Jon.Crowcroft@cl.cam.ac.uk)

*The Computer Laboratory, The University of  
Cambridge*

<http://www.cl.cam.ac.uk/~jac22>



**UNIVERSITY OF  
CAMBRIDGE**

Computer Laboratory

# *In(di)visible Networks*

- ❑ Wireless multihoming becoming commonplace
- ❑ E.g. bluetooth, gprs, 802.11
- ❑ Note different roles
- ❑ Note ad hoc nature of some (role based decision whether its ad hoc use or infrastructure for 802.11...)
- ❑ Role Based access control
- ❑ Role Based address allocation/routing
- ❑ Context is all

# Suggests 1 size does not fit

- ❑ Engage different layers in different decisions
- ❑ IP sometimes, transport others, application others, and even user (e.g. who pays for link for this session?)
- ❑ Can we architect a cross-layer system? (bad track record at this in past)
- ❑ Tip of an iceberg ...
- ❑ **Containment** (or lack of)...

# I Don't have any strawmen...

- ❑ ...but need something soon...
- ❑ ...wireless may not be special case - might be the most general instance of the problem - see our plutarch paper...
- ❑ ...extreme example - commuter router:
- ❑ Borrow everyone's GPRS/3G and 802.11 in a train and build a broadband link out of the sum of all the parts - solve multihoming and load balance and billing problems 😊
- ❑ Microsoft v. symbian 😞

