

Horizon Scanning Agenda 3.5.11



Jon Crowcroft,

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

07733 231822

FW11, Computer Laboratory

WGB, JJ Thomson

If you need print/net/taxi, ask!



Aims & Objectives

- Objectives

- Build UK-based Communications Research Agenda
- high impact by forming linkages between previously disparate groups
- put simply, bring EE & CS together more...

- Focus for the Day

- Mobile and Wireless
- [other events may/have/will look at Photonics, Internet etc]

- Agenda Overview

- am: Challenge-led/industry related
- pm: Curiosity-driven/high risk/payoff

-
- Local net access - eduroam should work,
- otherwise try ssid "wgb" which is open but rate limited and volume capped



Agenda am #1

- 10. - Introduction and background to the network
- everyone introducing themselves

- 10.30 Scoping of UK capability -
- where we are strong, where we are world-class

- 11. Innovation session (challenges) e.g. (not limited to)

- olympics, betfair e.g.s

- practical capacity limits of coop radio

- practical performance limits of SDR

- power/battery life

- offloading computation to the cloud from mobile devices

- short-haul gbps low-power fast-association shared-media radios

- whitespace data networking

- backhaul & spectrum (economics, policy, tech)

- cloud integration

- testbeds & platforms

- hints from sensors on mobile devices to improve wireless performance



Agenda am #2

- 12.45 Grouping of ideas into potential research themes
 - Your input welcome here too!
- 1- 2 Lunch
 - Provided



Agenda pm #1

- 2.-3.44 Innovation breakout session (curiosity) e.g.
- internet of things
- net architecture -
 - from info theory, graph theory to new?
- privacy, sensor, social & mobile
- energy scavenging
- coding for wireless
- beyond LTE
- testbeds & platforms
- tba...



Agenda pm #2

- 3.45 Grouping ideas/rapporteurs get notes together
- 4-5 Re-group for Plenary to report back from breakout sessions
 - - Ranking of themes
 - - Gathering of proposed next steps
 - - Conclusions and actions



Station/Airport/Pub

- Taxi...Panther etc
- Castle Inn (on Castle Hill)