

Context Aware Mobility Project



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Delivering technology that maximises user experience at minimal cost by choosing the best wireless connection based on user's past and present usage.



See full video at <http://www.nicta.com.au/camp>

What's Under the Hood

- Use Dual Stack Mobile IPv6 for mobility between WLAN, 3G, ...
- Collect context information for:
 - Statistical machine learning based network availability prediction
 - Stochastic scheduling for streaming applications
 - Energy aware network selection for interactive applications.

At a Glance

- Automatically select “best” mobile network for application
- Adapt application behavior to available network conditions
- Save battery and money for end user; balance network load for operator.

Looking Ahead

- Joint project between NICTA and Ericsson Research
- Prediction algorithm verified
- Joint prototype with Ericsson demonstrated on Android phone
- Next steps:
 - User study on energy aware network selection
 - Evaluate scheduling algorithm.



Partner:

