



Privacy thoughts, leakage



Australian Government

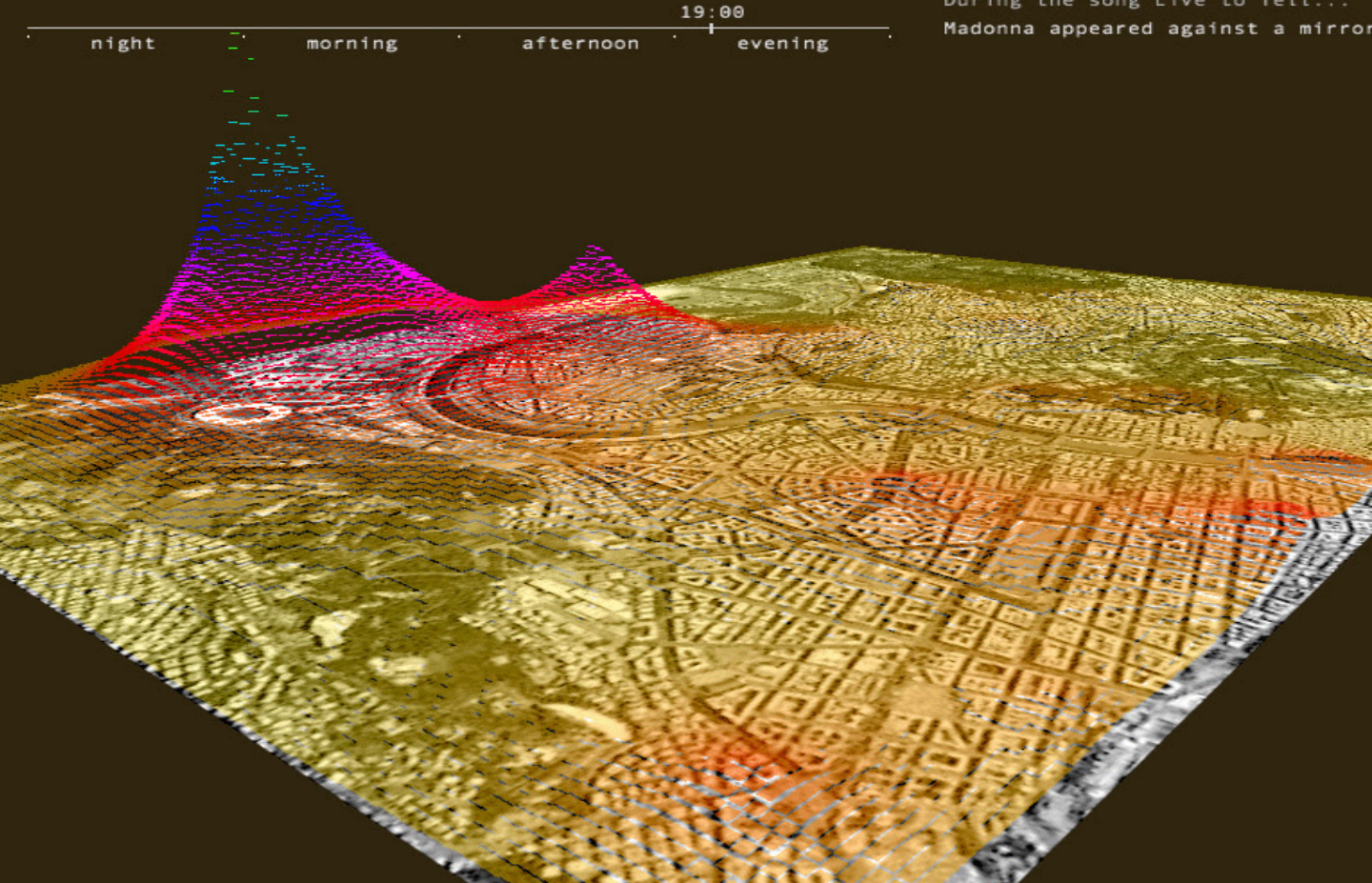
Department of Broadband, Communications
and the Digital Economy

Australian Research Council



Madonna Concert
Cellphone activity in Stadio Olimpico Rome
2006-08-06

Not received data covered from 2006-08-06
At Rome's Olympic Stadium
Located about three kilometres fr
During the song Live to Tell...
Madonna appeared against a mirror



NICTA

We have the
data

carlo ratti MITmedialab

Laboratory Face Recognition Results





Online services and apps leak privacy

Personal information leaks directly
and indirectly from all layers



Transport protocols

IP

WiFi

3G

...

Fibre

...



How can we discover links between people from their Wi-Fi access history?

Wi-Fi history as a Fingerprint



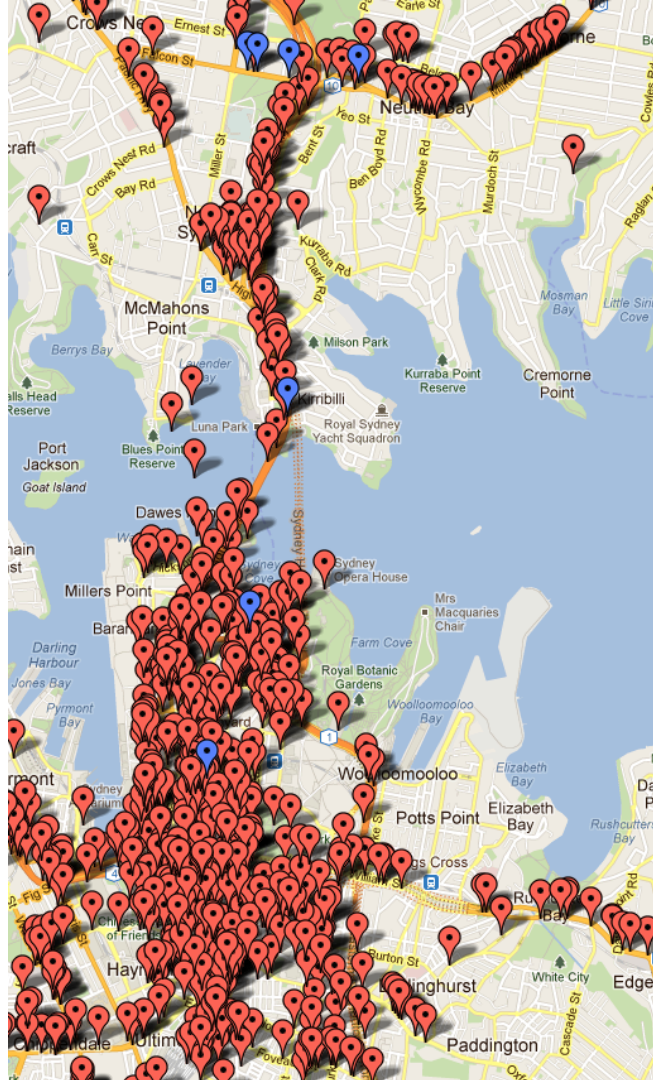
SSID: mydeardog



SSID: sydneyUni

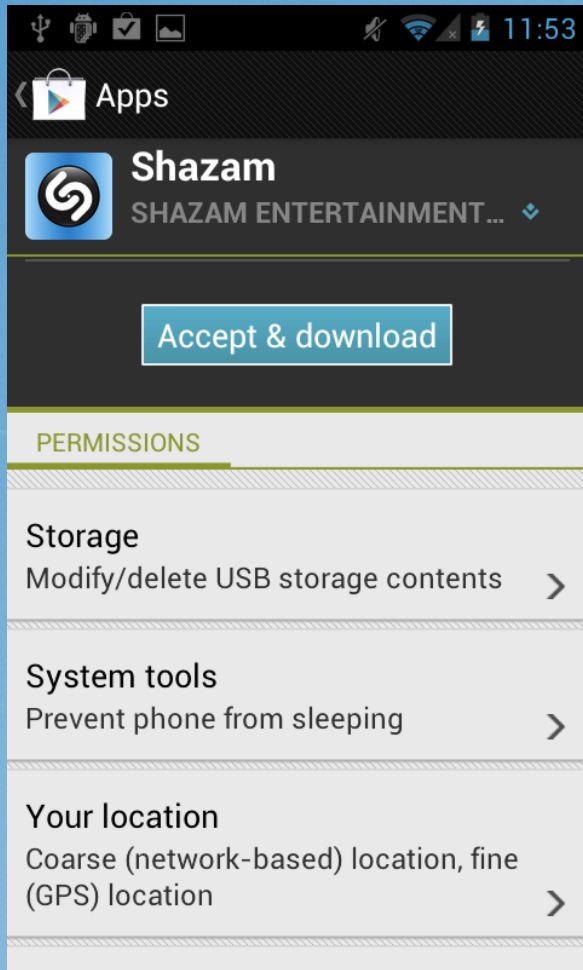


802.11 probe
request
broadcasts
known SSIDs





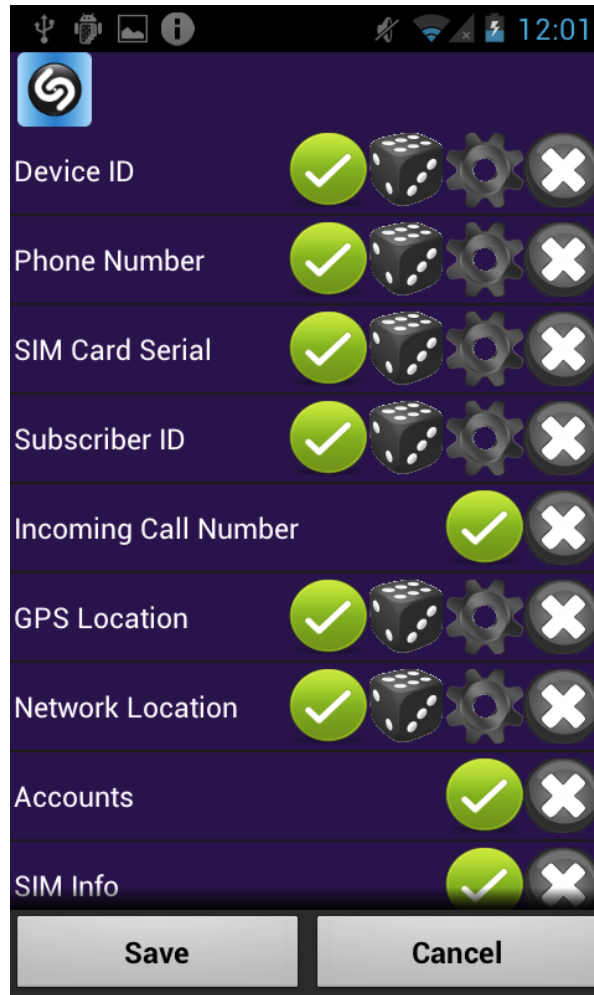
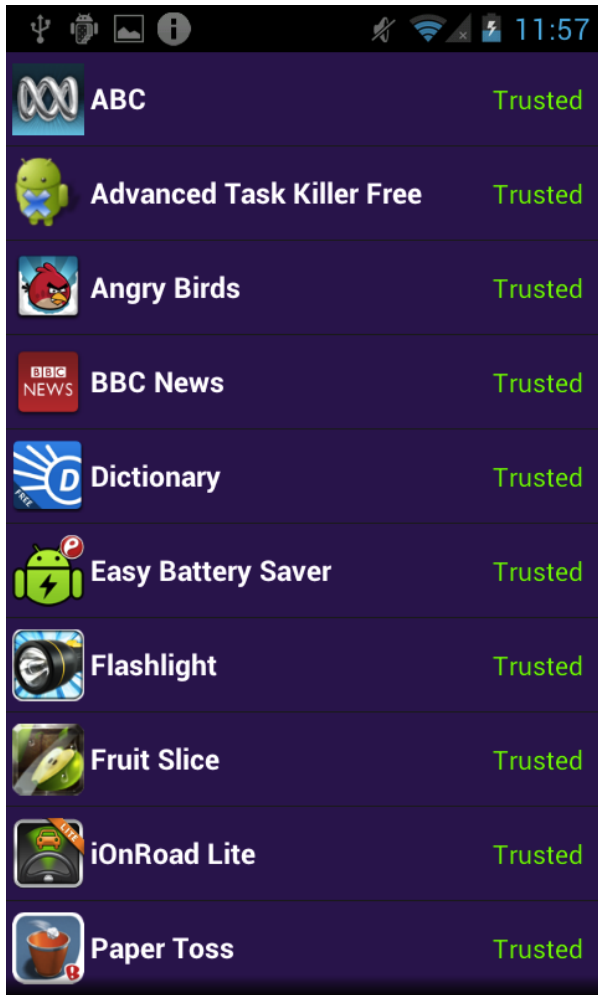
Your apps are
collecting your data



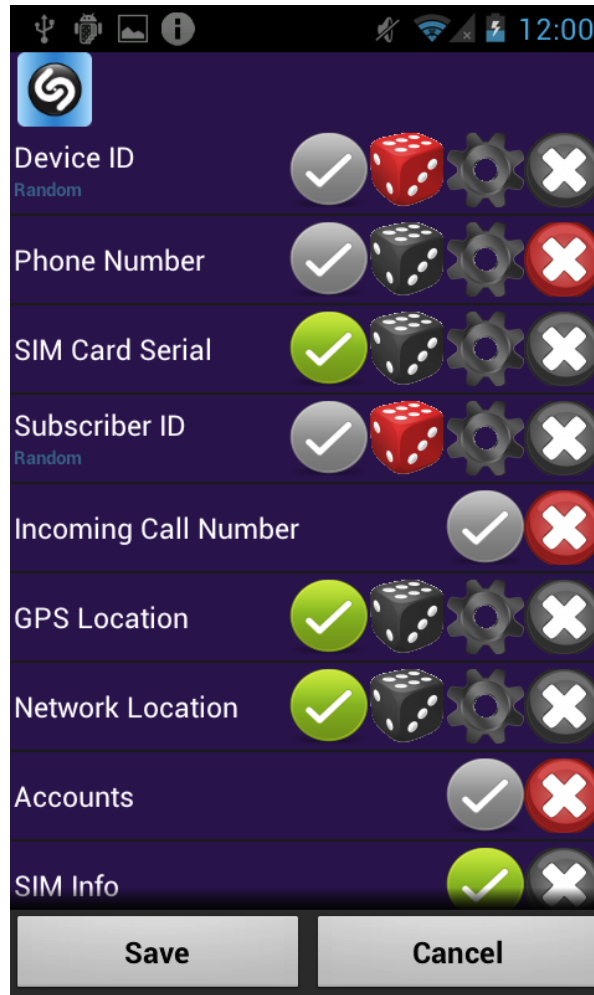
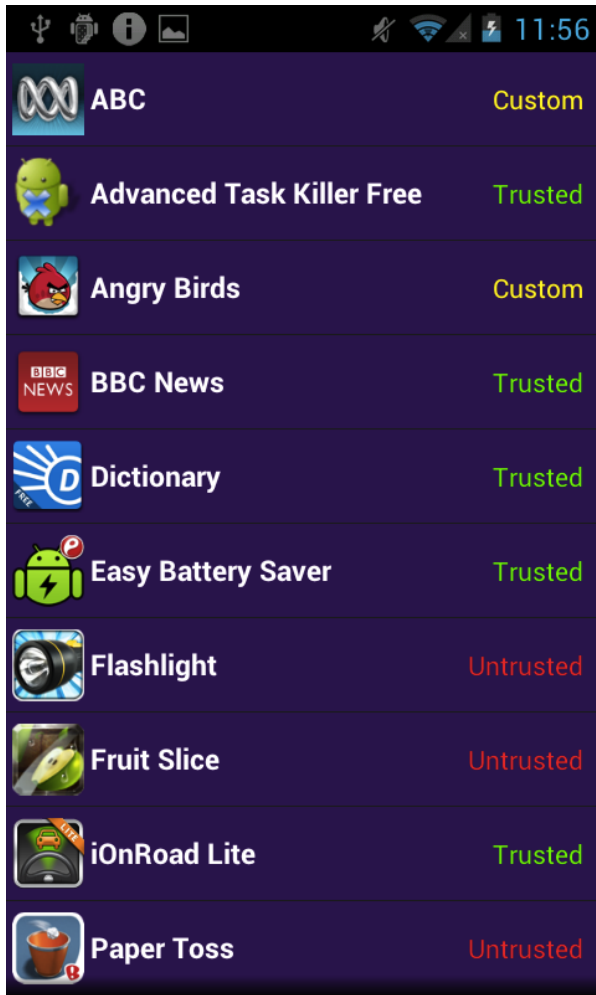
Apps request permissions at install time
yes / no decision, no room for negotiation

Solution: an app that lets users take
control of their privacy

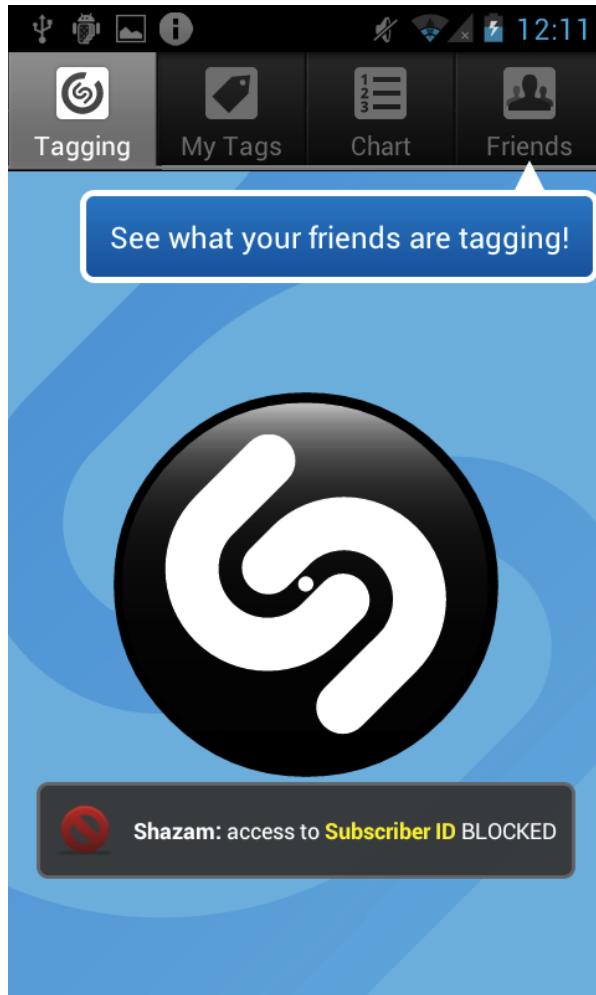
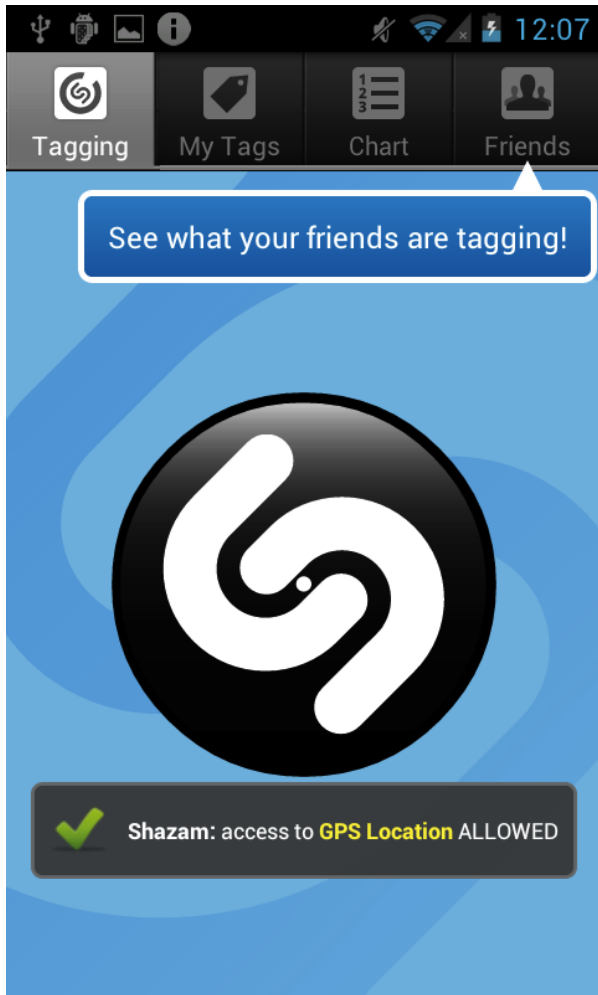




Customise
standard
(Allow All)
settings



Customised
privacy
settings



riWatch
Manage your privacy

Alert user
when
resource is
accessed

For further information, please see:
http://nicta.com.au/research/projects/trusted_networking



From imagination to impact