Mobile Web and Campus Assistant

Damian Steer, ILRT, University of Bristol
d.steer@bris.ac.uk

Alex Dutton, University of Oxford

Overview

- A little history

- What mobile phones could do

- What mobile phones can do

- Why bother with the mobile web?

- How to get them to do what you want

- Case study: Mobile Campus Assistant

- Case study: Molly

Prehistory
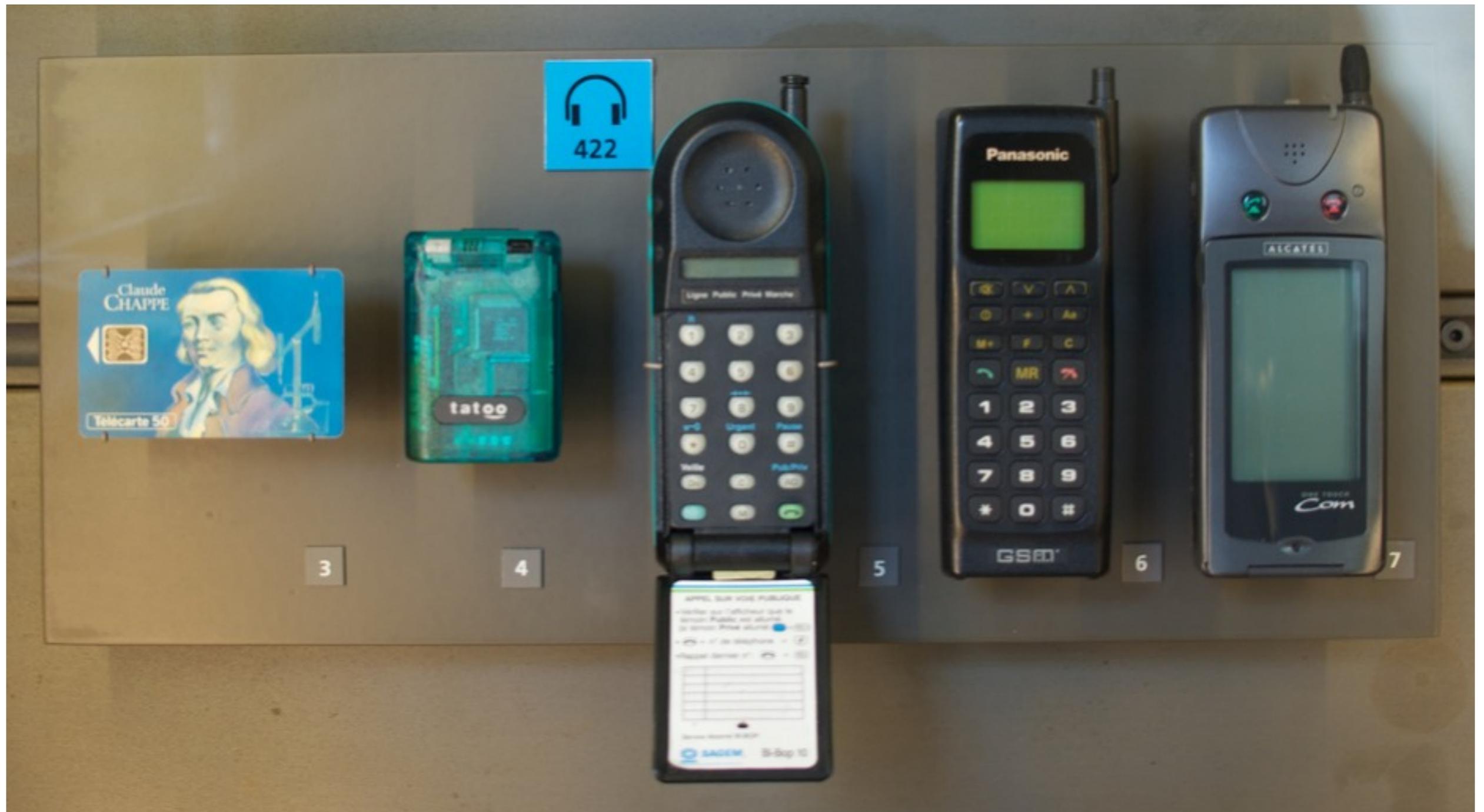
GPRS

WAP

WML

Ten Years Ago
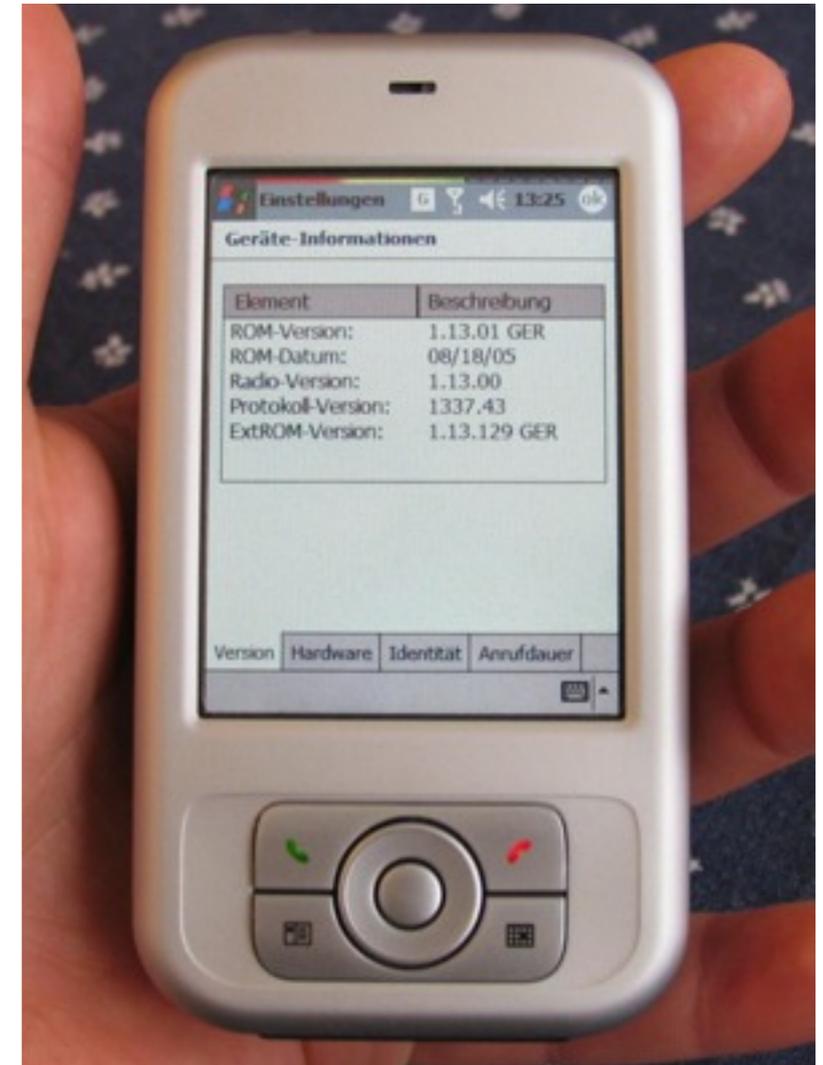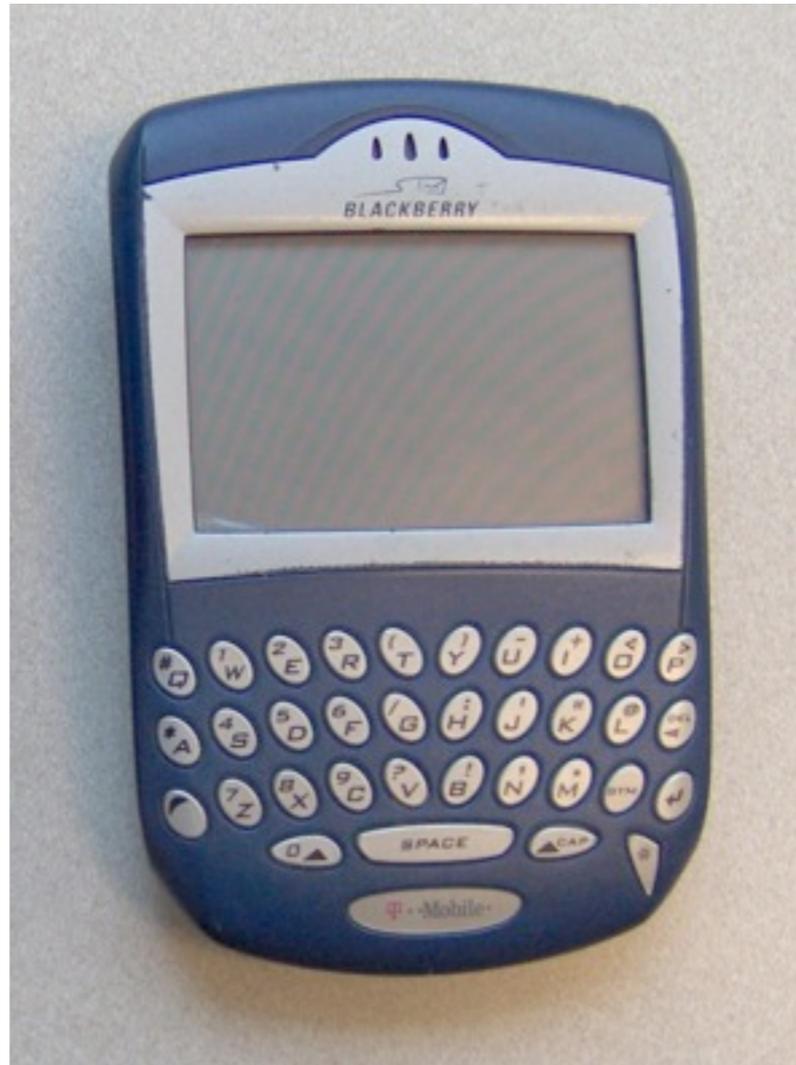
Things improve

Opera Mini:
an appreciation
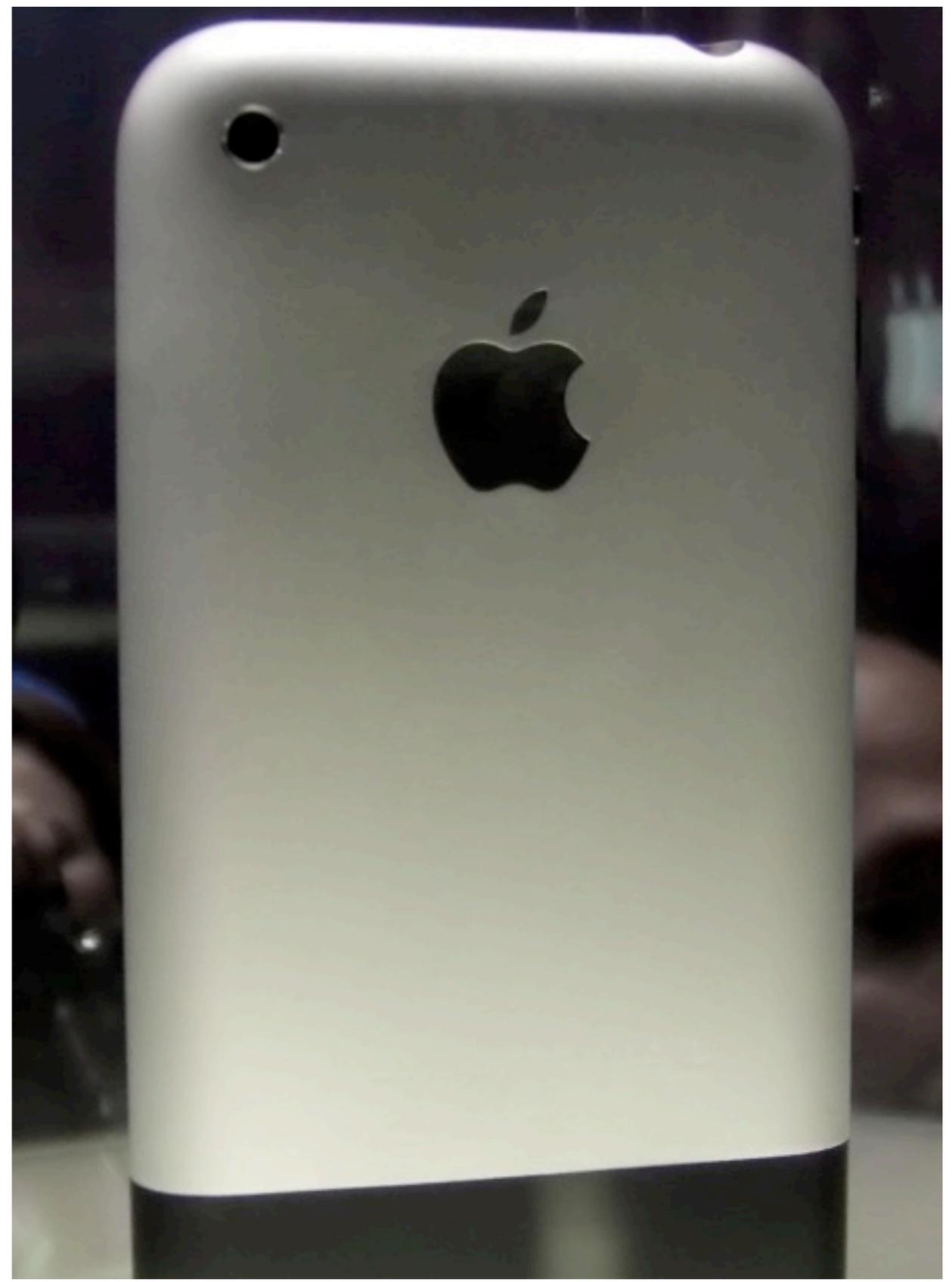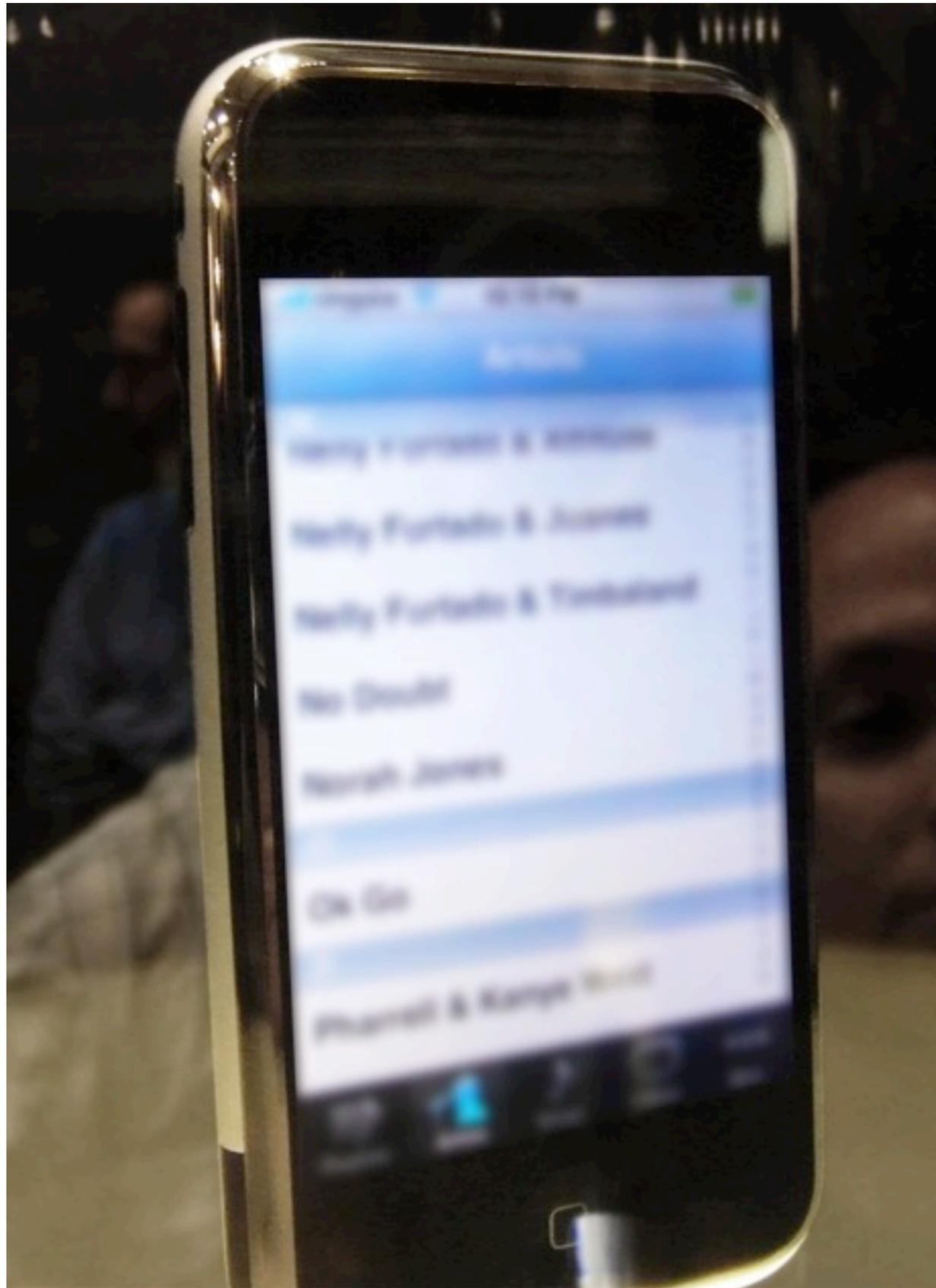
Apple iPhone

iPhone effect

Legend: Total Visitors — Apple Share

Sept 2008   May 2009   May 2010
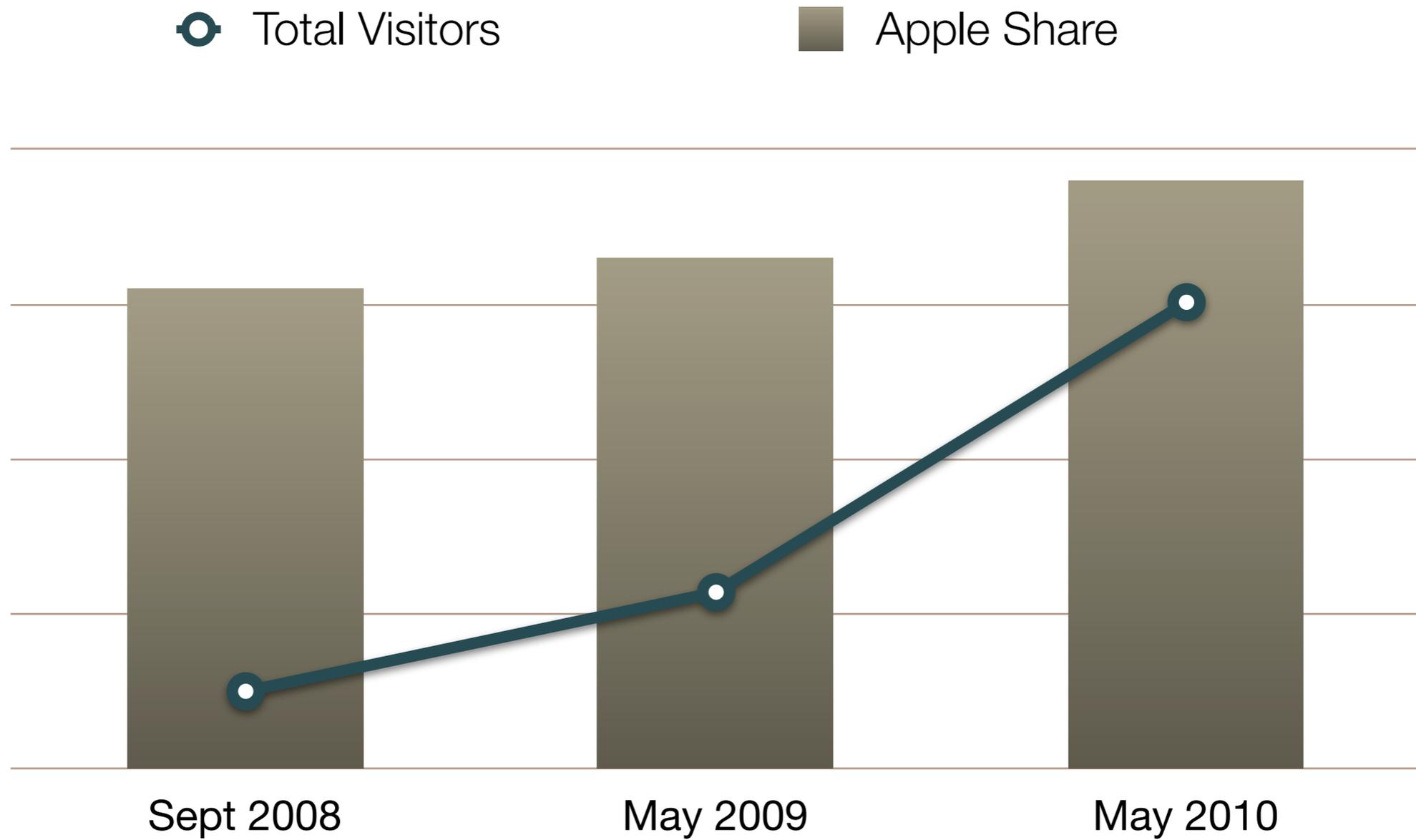
Based on sites monitored by the UoB web analytics system

Mobile Safari and WebKit
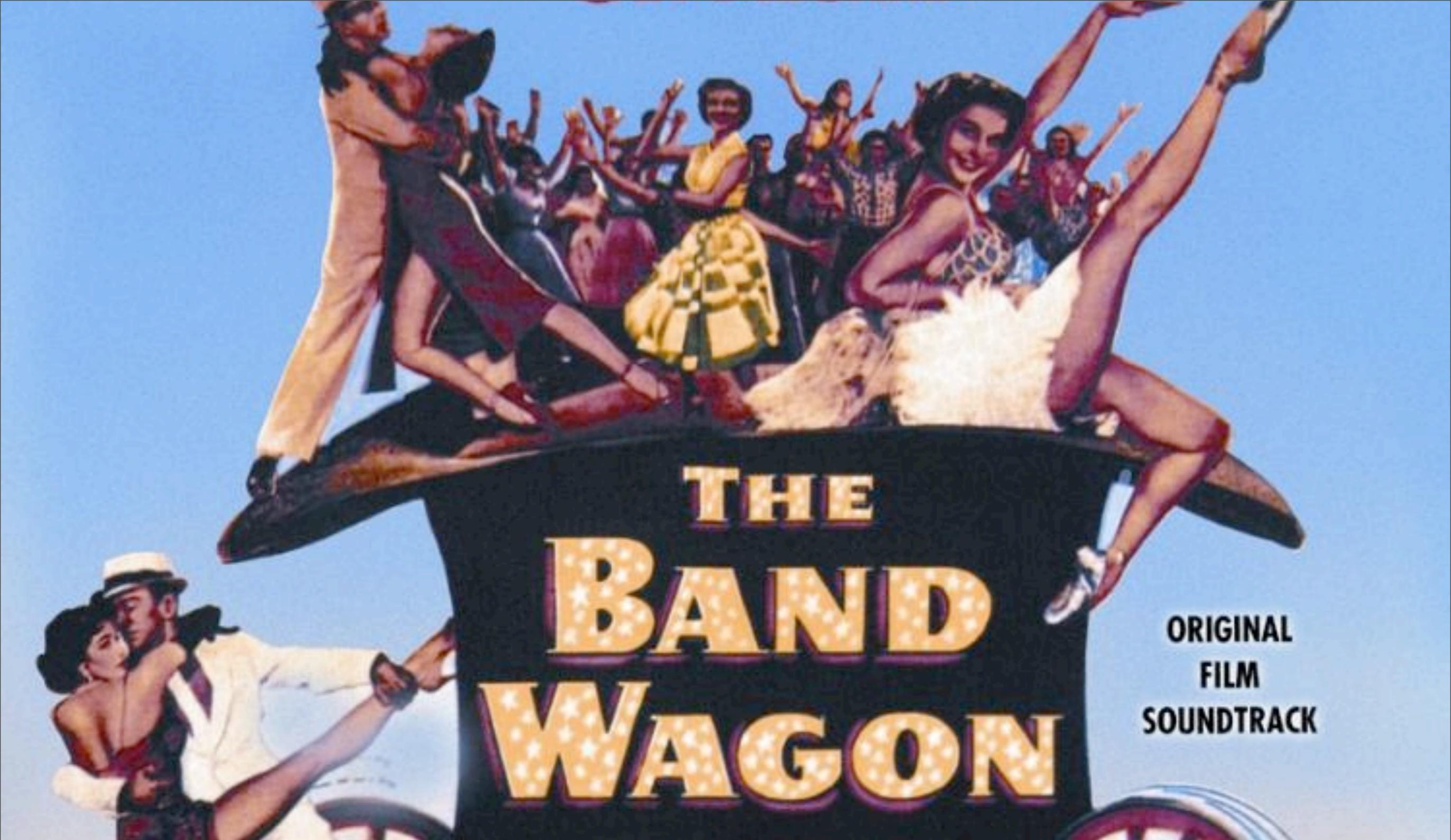
How does my institution
join the mobile world?

Phone	SMS	Contacts
GPS	Compass	Bluetooth
Storage	Offline use	Video

Why bother with web applications?

Audio	Graphics	Animation
3D	Motion detection	Gestures
Camera	Music	Calendar

Why bother with web applications?

Phone	SMS	Contacts
GPS	Compass	Bluetooth
Storage	Offline use	Video

Why bother with web applications?

Audio	Graphics	Animation
3D	Motion detection	Gestures
Camera	Music	Calendar

Getting onto the web: CSS

- @media

- handheld

- only screen and (max-device-width: 480px)

Getting on the web:
specialised site
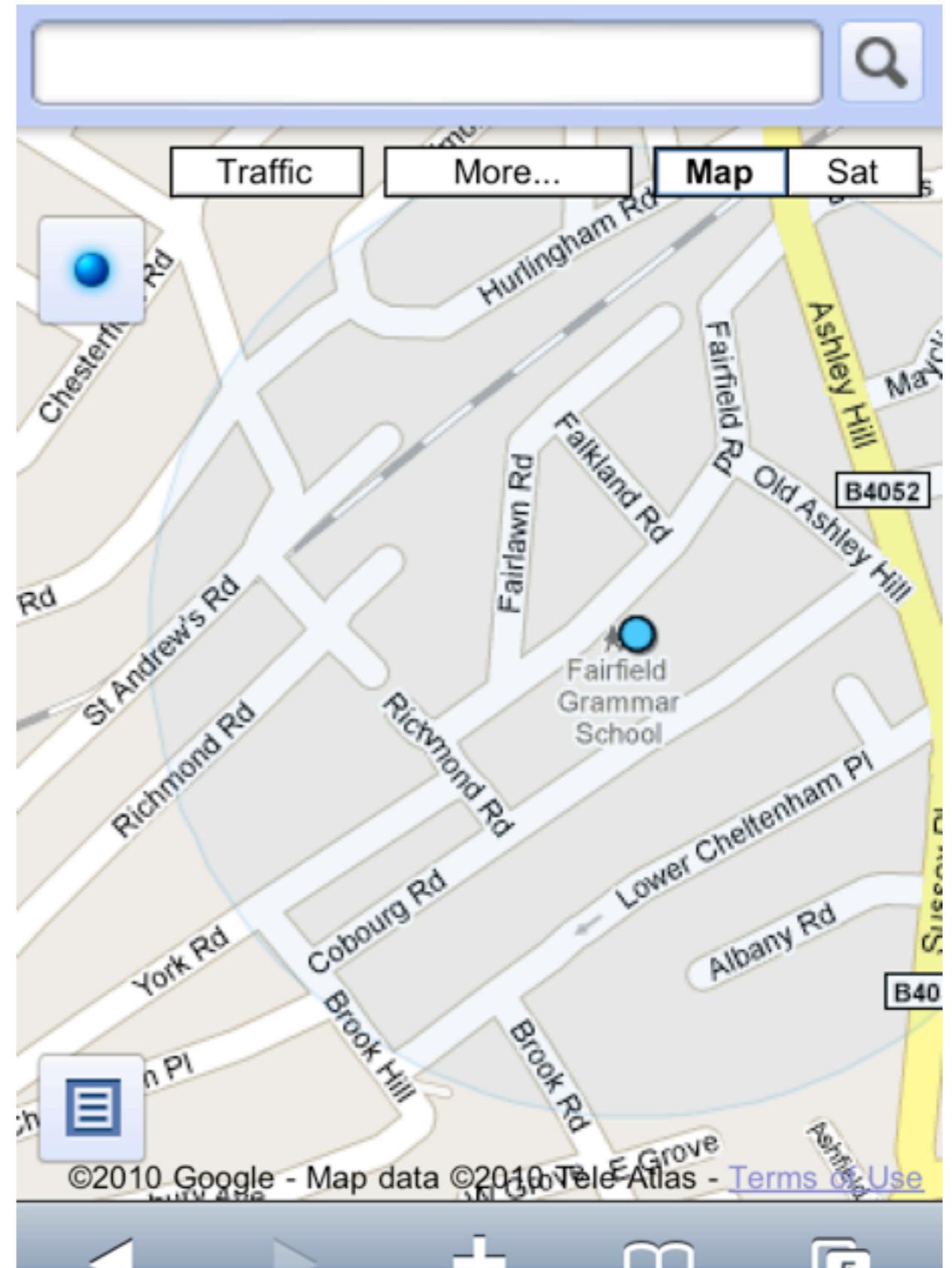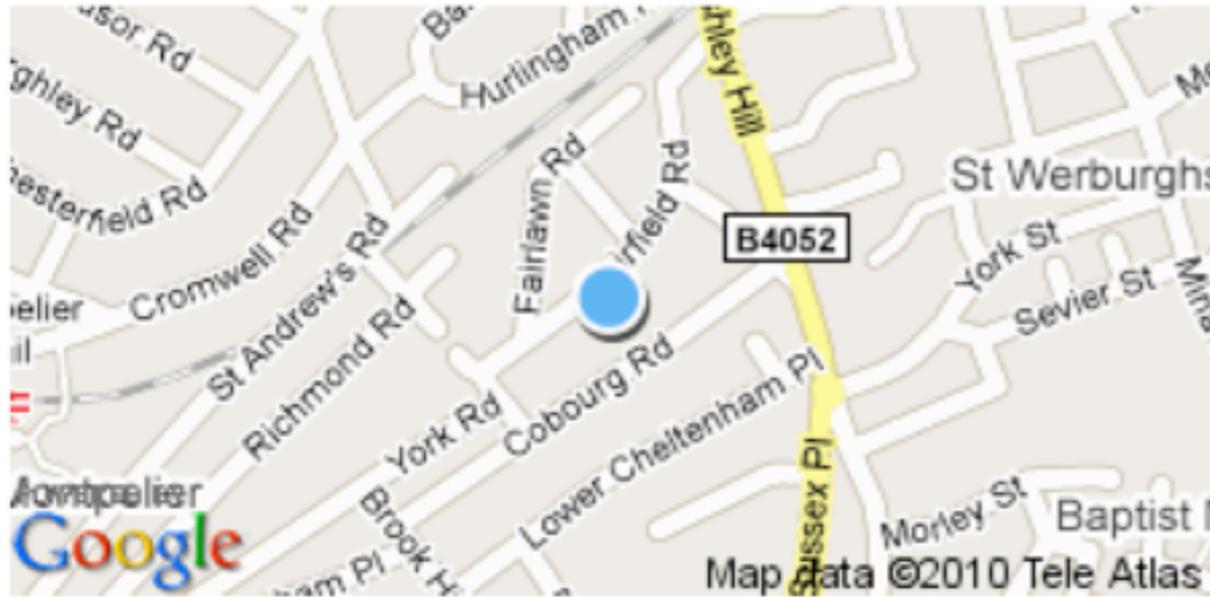
Location

Offline Web Applications

Cache Manifest

Client-side storage

localStorage

Web SQL Database

Index Database

Offline

Orientation and Gestures

- orientationchange

- More general orientation on the way

- High level: gesturestart, change, end. Gives scale and rotation.

- Low level: if you really want it

Mobile Campus Assistant

http://mobilecampus.ilrt.bris.ac.uk/

- Where is the nearest wireless hotspot?

- Where is there a free PC to use?

- When is the next bus to the hall of residence?

- Which library is open now?

News
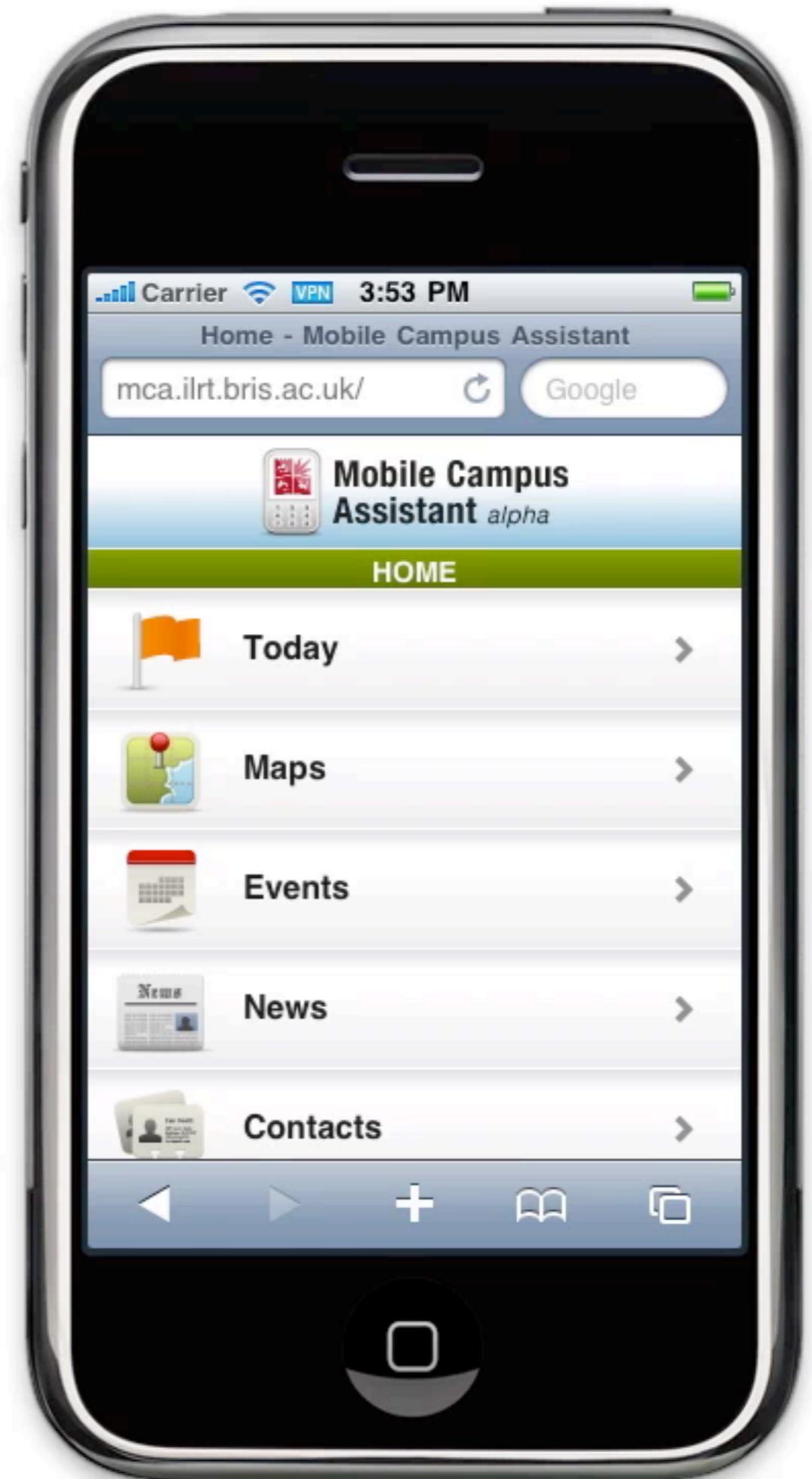
Local Information
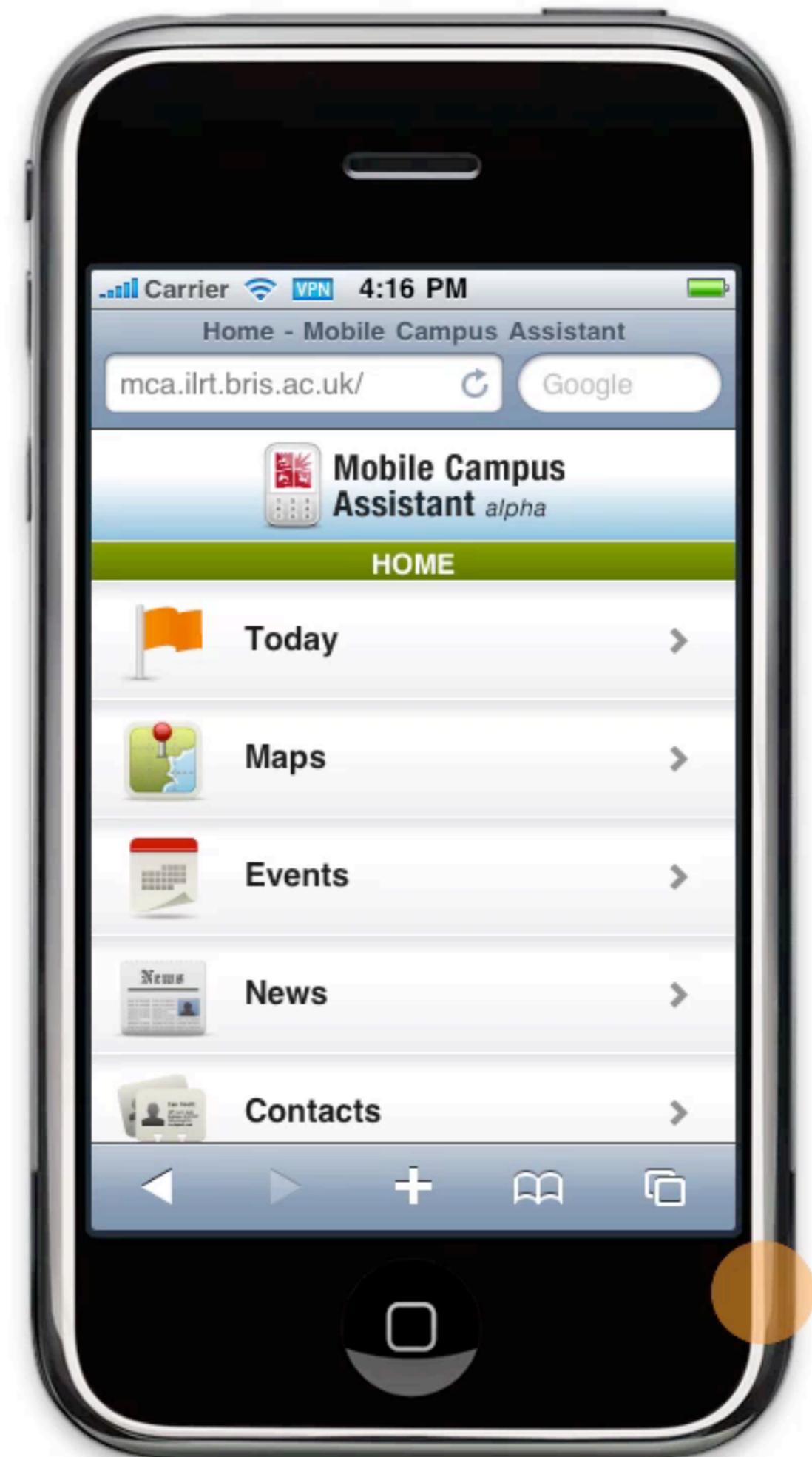
Public Transport
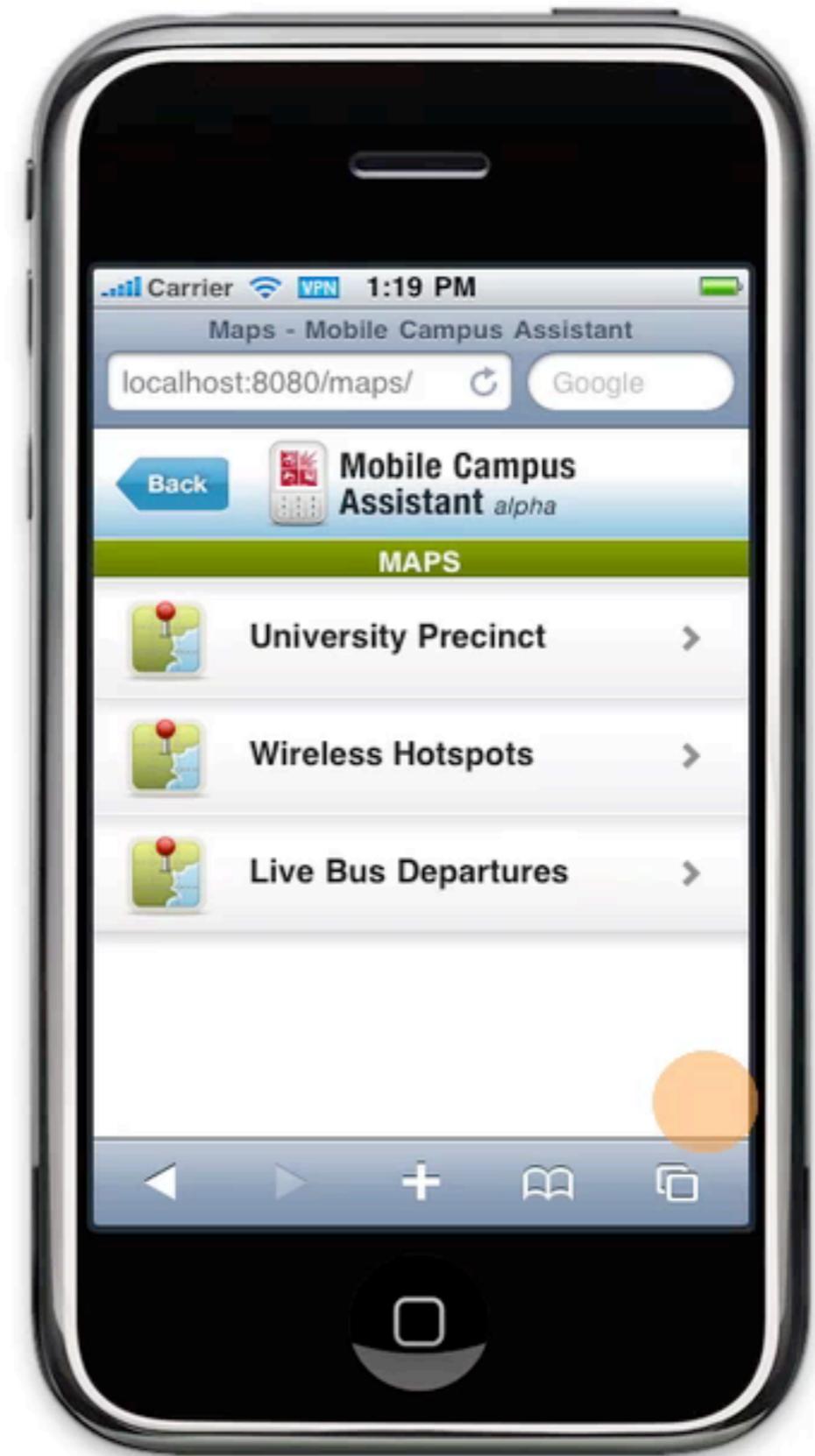
Ongoing...

- Open source

- Just provide the information

- Work continues

- Part of Greening Events

- MyMobile Bristol, with City Council.

- mike.a.jones@bristol.ac.uk @MrJ1971

Epilogue | The future is arriving rather quickly

Credits

1. http://en.wikipedia.org/wiki/File:DynaTAC8000X.jpg

2. http://commons.wikimedia.org/wiki/File:Wikipedia-FIT-SE_P800-Nutella.jpg

3. http://commons.wikimedia.org/wiki/File:BlackBerry_7230.jpg

4. http://commons.wikimedia.org/wiki/File:VPAcompact.jpg

5. http://commons.wikimedia.org/wiki/File:IPhone_at_Macworld_(angled_view).jpg

6. http://commons.wikimedia.org/wiki/File:IPhone_at_Macworld_(rear_view).jpg

7. http://www.flickr.com/photos/londonmatt/4607192152/

8. http://commons.wikimedia.org/wiki/File:Gesture_raised_fist_with_index_and_pinky_lifted.jpg

9. http://commons.wikimedia.org/wiki/File:Br%C3%BAjula_azimutal_espa%C3%B1ola_s.XVIII_(M.A.N._Madrid)_01.jpg

10. http://commons.wikimedia.org/wiki/File:MontreGouset002.jpg