# Smartphones SIG
## Mtg 1 – Intro

### John Shiel

### Mobile Phones with fast connection, easy text entry

---

# *Agenda*

- Mobile phones power – processor and comms
- Other Features
  - **Usability**
  - **Advanced storage**
  - **Calendar,**
  - **Office & pdf docs,**
  - **Browsing,**
  - **Email,**
- Break for a cuppa
- Features of member phones

- **Next Week**
  - Specs of popular phones, prices
  - Mapping,
  - Video,
  - Photo,
  - Radio,
  - Music,

2

# My Wish List – early 2007

- Windows OS
- WiFi
- 5 MPx camera
- GPS for maps, restaurants
- Music eg. MP3
- Radio
- High storage card
- Edit Office docs
- Movies
- Keypad
- Push email
- Browsing
- Quad band
- 3G speed
- Good memory
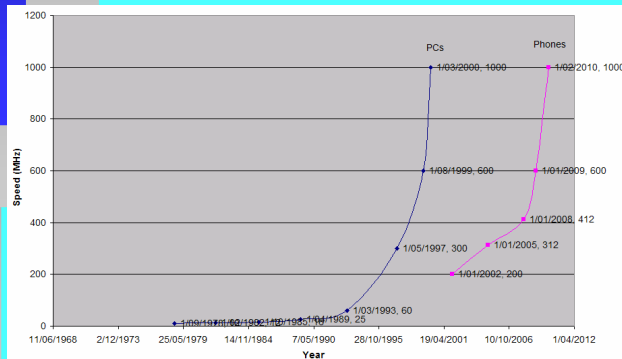- Voice Recognition
- Maps
- Low data charge

3

# Current Market Share - 2009

- Nokia Symbian – 40% - reduced no. of model, free satellite nav.
- RIM (Blackberries) – 20% - business
- Apple iPhone – now 14% (in just 3 years ! )
- HTC/ Google's Nexus One
- Samsung – 3% - 5.7m phones
- Motorola – Android OS
- Sony-Eriksson - Symbian, Android and Windows
- LG

- Why
  - Useability
  - Features
  - Now apple has standardised its platform
    - Lets developers add features

4

## Processor Comparison
### PCs and Phones



- *Phones have about the same speed as a PC in the year 2000*

---

## Communications Features
### Generations - 1G, 2G, 2.5G, 3G, 3.5G

http://reviews.cnet.com/4520-11288_7-5664933-2.html?tag=rb_content;rb_mtx



- *1G (AMPS) – analogue – voice only, easily intercepted*
- *2G (GSM, CDMA) – digital – voice & limited data*
  - *Speeds less than 20 Kbps*
- *2.5G (GPRS, 1xRTT - an early version of CDMA2000 - to EDGE) – data at dial-up speeds*
  - *Speeds 30 – 90 Kbps*
- *3G (UMTS, 1xEV-DO) brings wireless broadband data services to your mobile phone*
  - *Speeds 144 Kbps - 2.4 Mbps*
    - *Speed through Web pages, enjoy streaming music video, watch on-demand video programming, download and play 3D games, and videoconference*
- *3.5G (HSDPA)*
  - *Speeds 7.2 Mbps - 14.4 Mbps*

## *Usability*
### *The challenges of fast input/output*

- **Screen size, brightness, text size**
- **Ease of data entry**
  - *Qwerty pads*
  - *Number/letter pad*
    - *"T9" type ahead dictionary predictive text*
- **Output to screen/TV/data proj**
  - *Replace PC*
- **Shortcuts**
  - *Quick dial*
  - *Voice Recognition*
  - *One button menu access*

## *Advanced Storage*

- *Small to 32 GB (eg. microSDHC cards)*
- *Grid*
  - *Fast connection*
  - *Reach SAS*
    - *OCC – when connection is available*
      - *Eg. Email is sent to "Outbox" for forwarding*
      - *Navigation by AGPS (indoors by mobile phone cells) or GPS (by satellites directly)*
- *Reach google*
- *Keep a wiki version (only updates differences), maps of world, videos*

## *Calendar, Office docs, pdfs*

- **Easy to use calendar essential**
  - Month at a time, week, day
  - Set alarms and reminders
- **Office docs**
  - Read
  - Edit if data input, screen ok
- **Pdfs**
  - View

## *Internet*

- **Browsing**
  - **Quickly browse internet**
  - **Favourite pages**
    - Trackwork for train
    - Google
- **Email**
  - **Multiple email addresses arrive in real time**
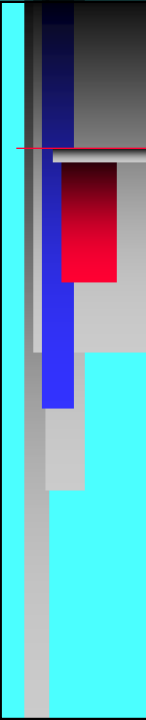  - **Instant short replys**

# *Cuppa*

- *Back at…*

# *Features of Members' Phones*