



## **SMART PHONES**

A review based on Android from Samsung  
Apple iPhones will have very similar operational characteristics

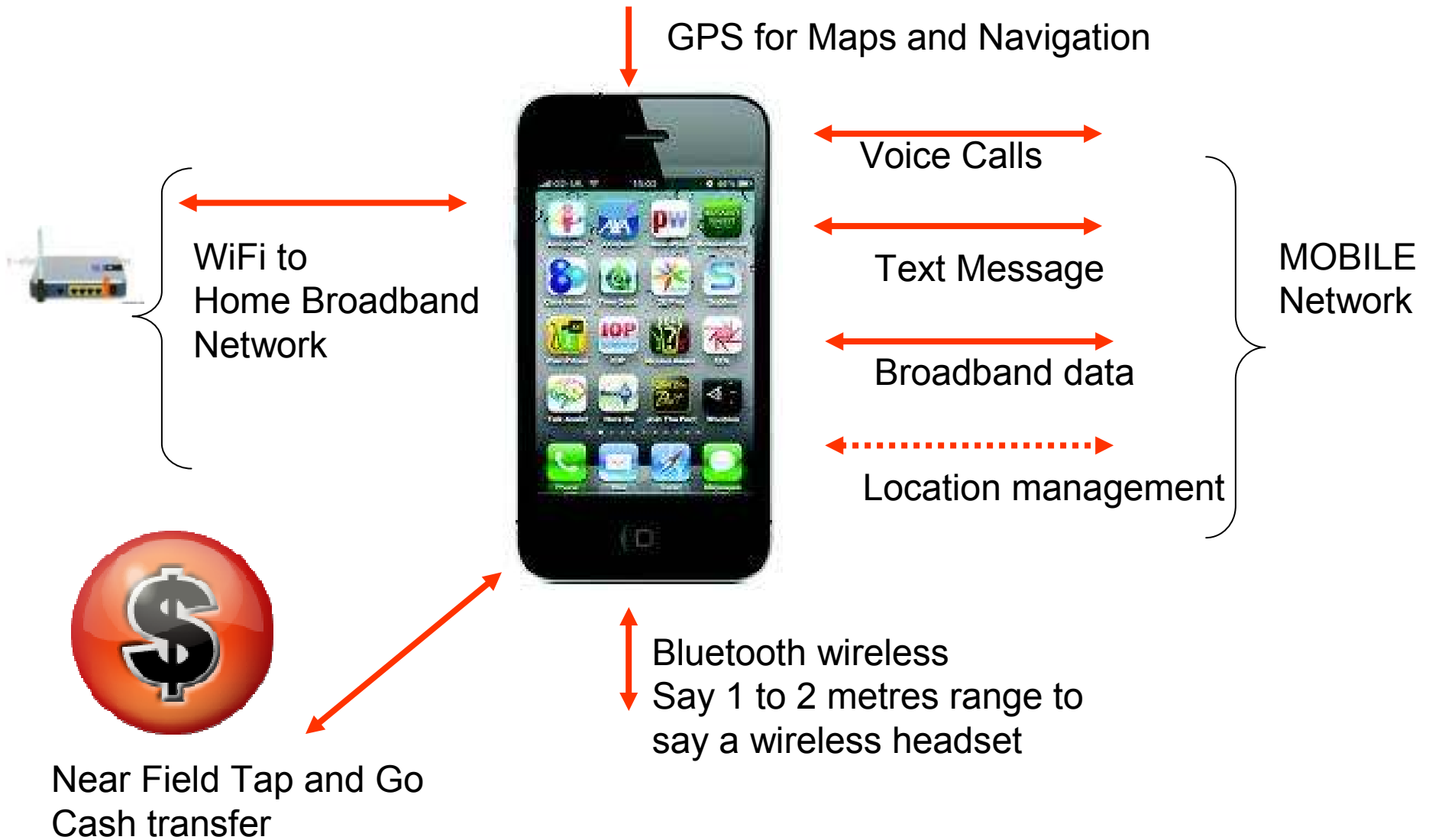


## Compelling reasons to own one

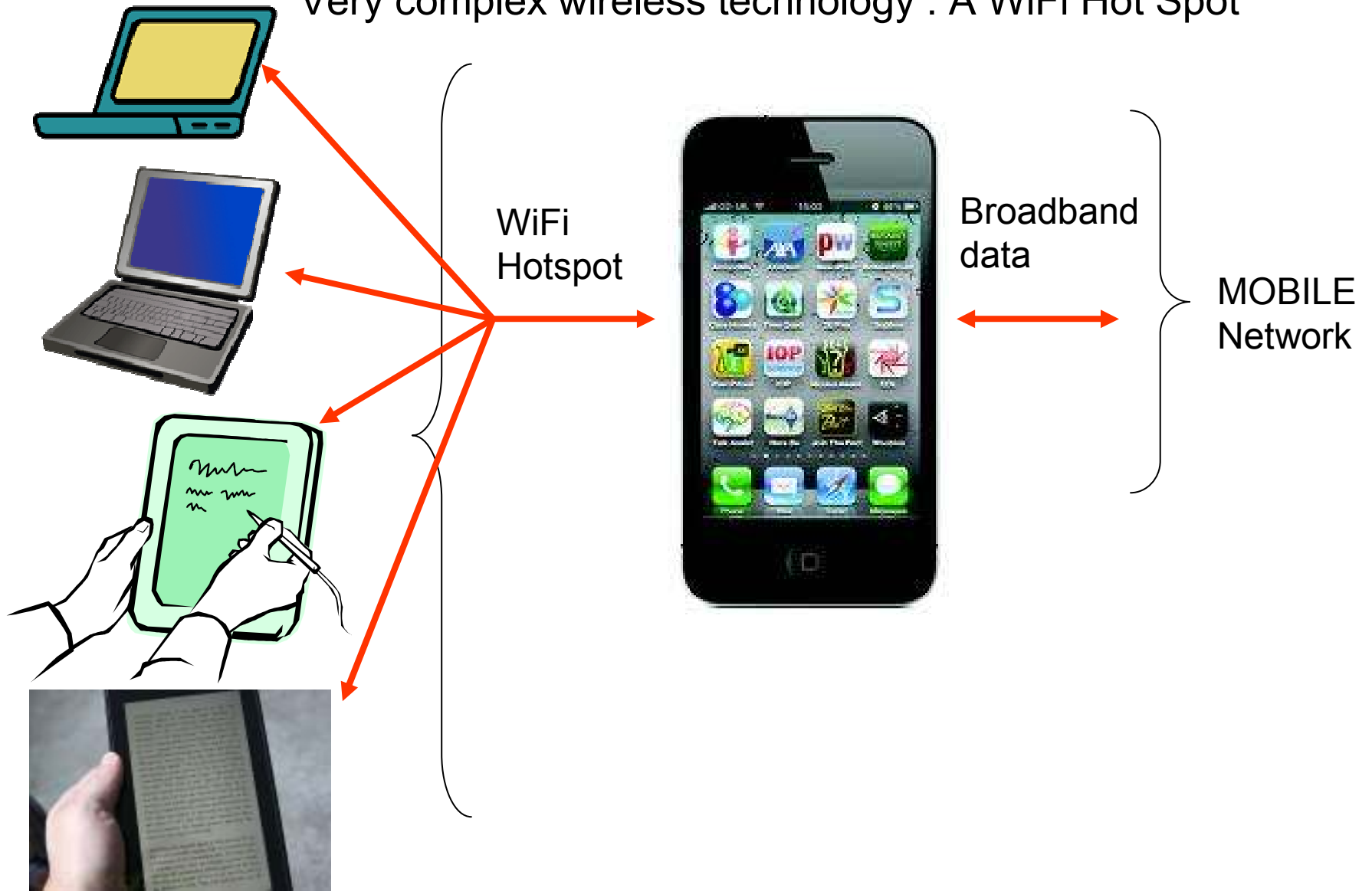
- Some are now low cost
- May cost less than a new battery for current phone
- Large Screen
- Pinch-spread magnification
- Full on screen keyboard
- Voice activated keyboard
- Ease of Text Messaging
- Ease of making a Contact List
- Ease of web browsing
- Reasonable quality still camera
- Reasonable quality video camera
- Some alternative calling options
- A myriad of APPS some of which may appeal

A bit about the 6 or 7 wireless connections employed  
In  
Smartphones

# Very complex wireless technology



# Very complex wireless technology : A WiFi Hot Spot



What does it cost to use these wireless connections

All connections are made as digital data connections

So a comparison can be made in dollars and cents per MB

# Rough assessment of mobile pricing (Varies considerably with your PLAN)



Voice Calls  
**1c to 4c** / MB



Text **Free to \$100** / MB



Mobile Broadband data  
**2c to 20c** / MB



Location management **Free**

# Rough assessment of mobile pricing ( Now add the free or low prices connections)





What are APPs and how do they impact mobile running costs

APPS ( Applications) are available from

Apple Store

Samsung

Google

Anyone

Some are free others have a purchase price



Here are five very useful APPS

You may have easily a 100 APPS installed

They mostly use the mobile data connection and price is a reflection of mobile broadband charges



Viber  
Free Phone Calls



I will look at the details of these later



An important point about APPS is that they will seek updates and do this at any time, whether you are using them or not, and without your knowledge



Updating can consume mobile data dollars

An APP using Mobile Broadband can run up unexpected bills  
If you are Roaming Overseas these costs can exceed your Airfares



Mobile Broadband data

**2c to 20c** / MB

Roaming Mobile Broadband data

**\$1 to \$5** / MB

**TURN OFF mobile broadband to reduce monthly bills**

This will ensure APPs only consume Home Broadband  
via WiFi

You can control how the Smart Phone uses Mobile Broadband data

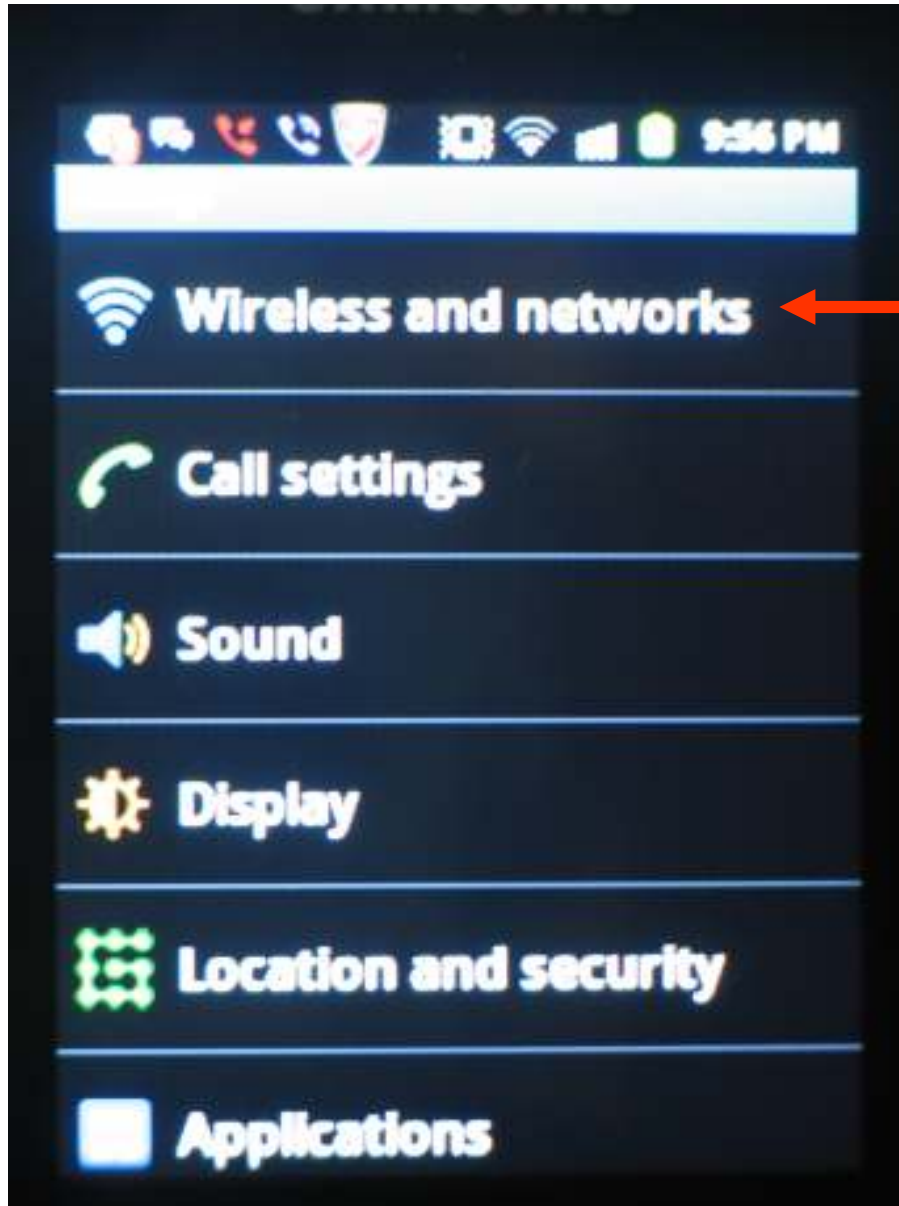


This view is the screen when you first turn on

Go to **SETTINGS**

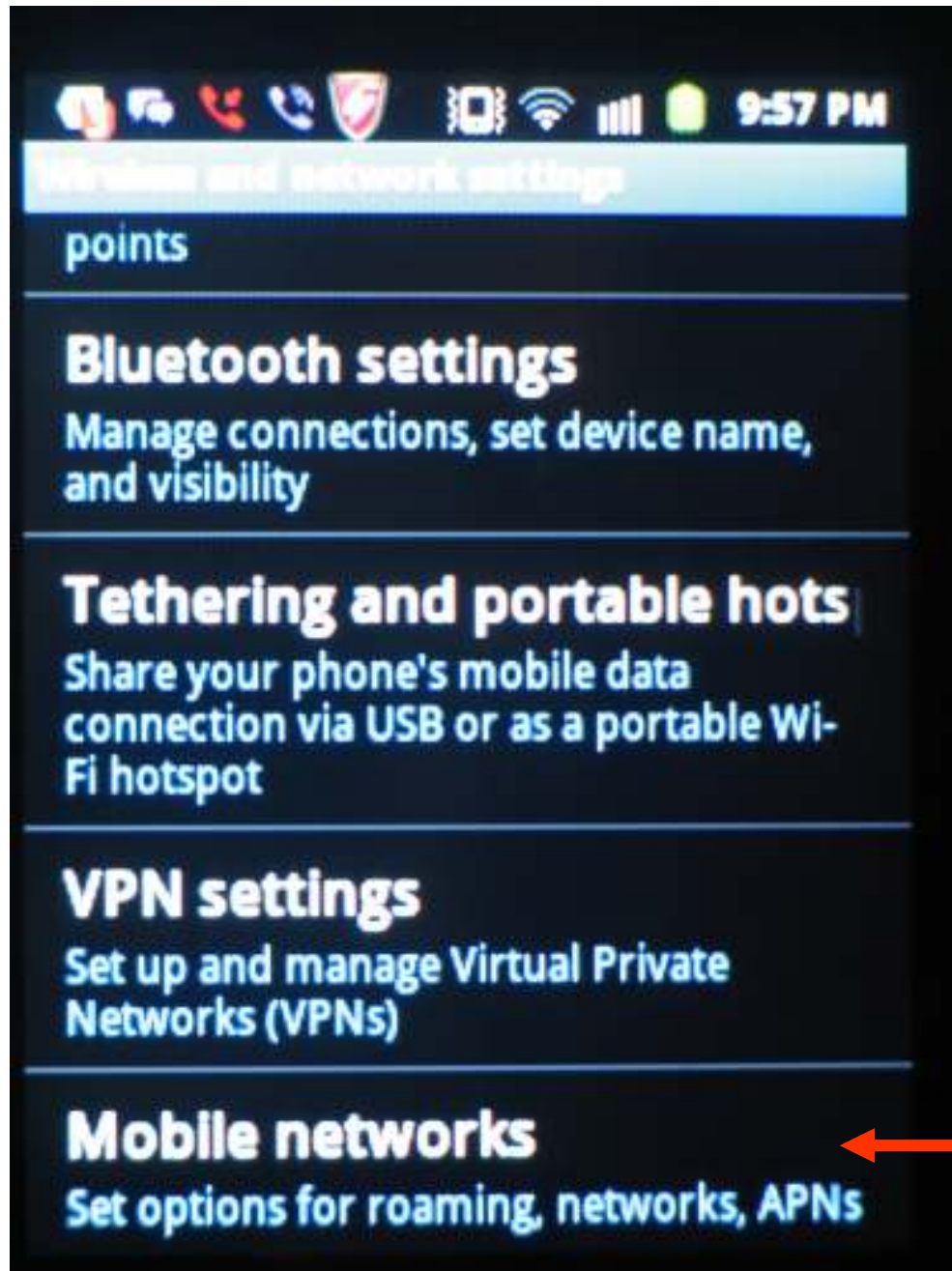
All actions are fingertip  
**TAP** or **SLIDE**

# SETTINGS



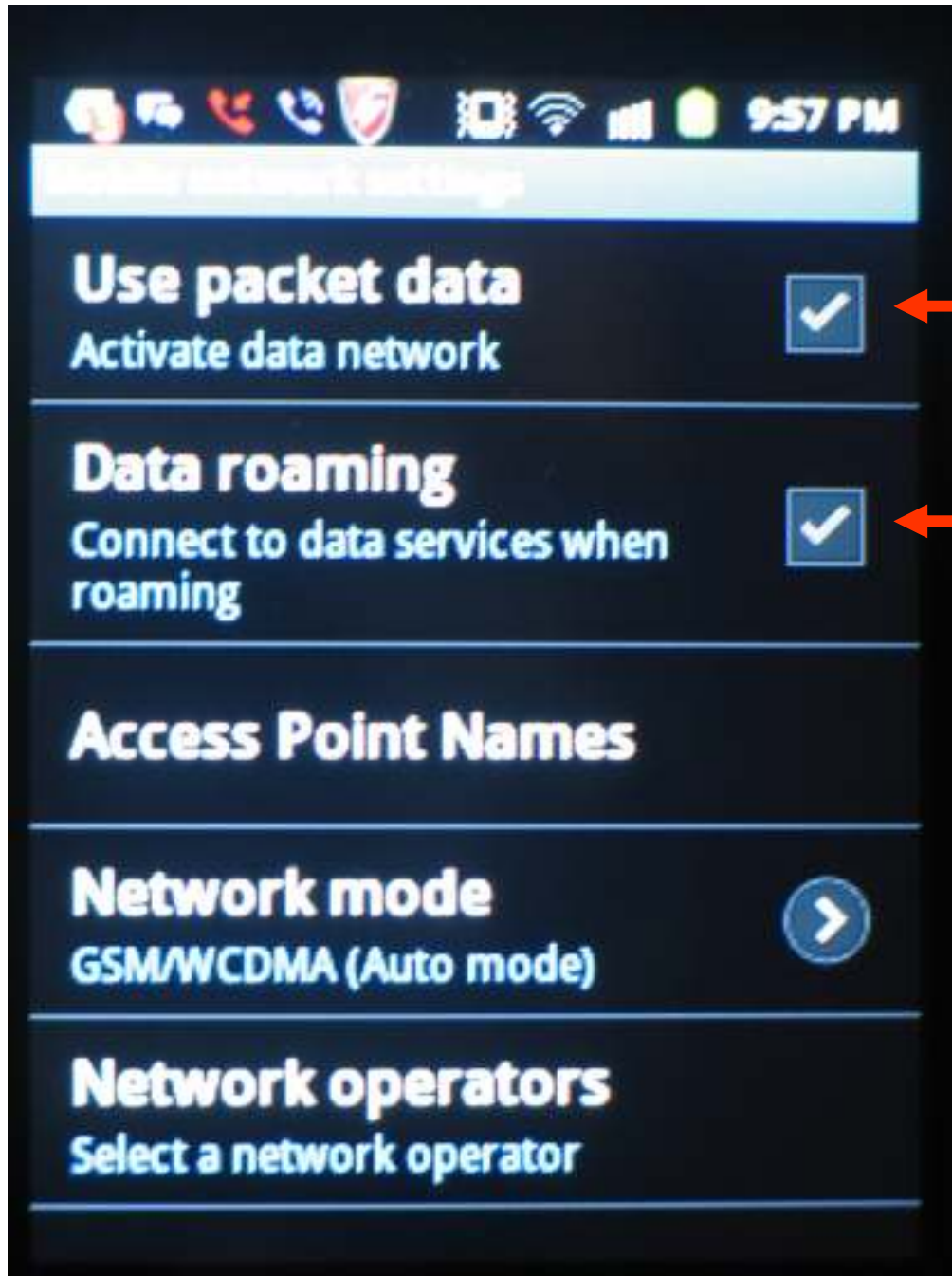
Tap WIRELESS and NETWORKS

## NETWORKS



← Tap Mobile Networks

## MOBILE NETWORKS

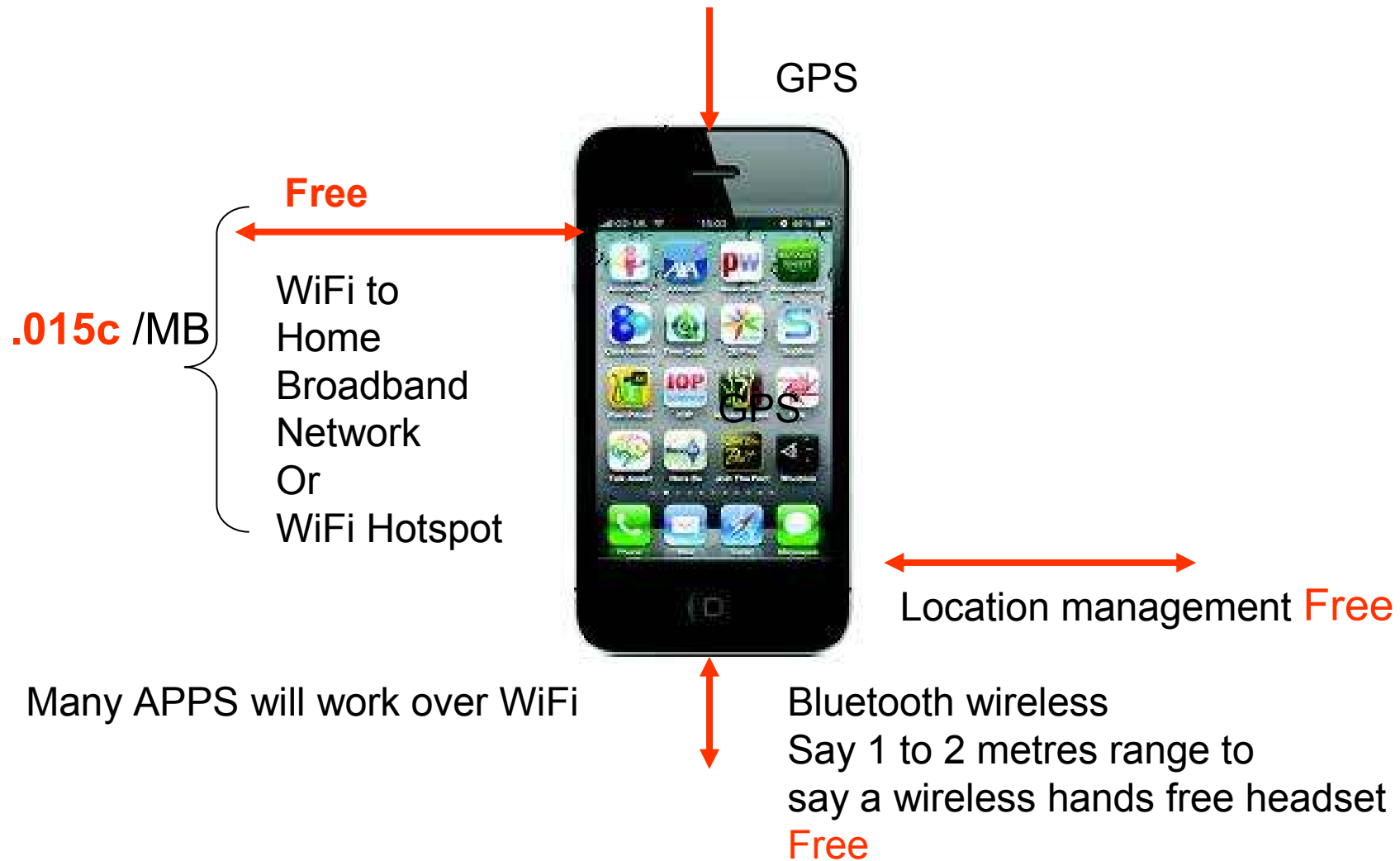


Tap for OFF / ON Mobile Data

Tap for OFF / ON Mobile data  
Overseas roaming



# With MOBILE DATA turned off WiFi is still active



.015c /MB

Free

WiFi to Home  
Broadband Network  
Or  
WiFi Hotspot

GPS

GPS

Location management Free

Many APPS will work over WiFi

Bluetooth wireless  
Say 1 to 2 metres range to  
say a wireless hands free headset  
Free

Typical Home WiFi – Wireless built into a modem as well as 4 plug connections  
Wireless range about 10 metres indoor.

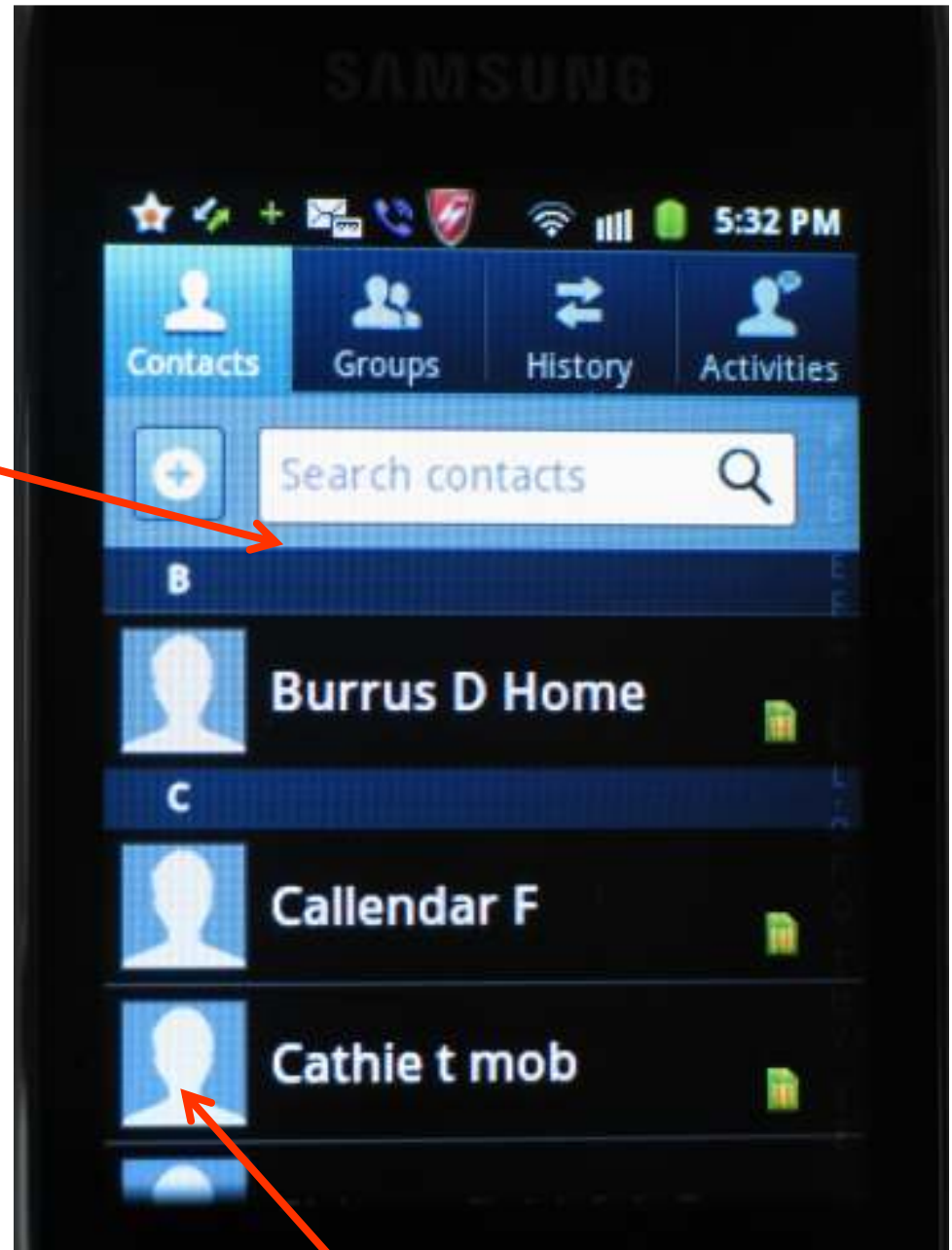


## Using the CONTACT LIST

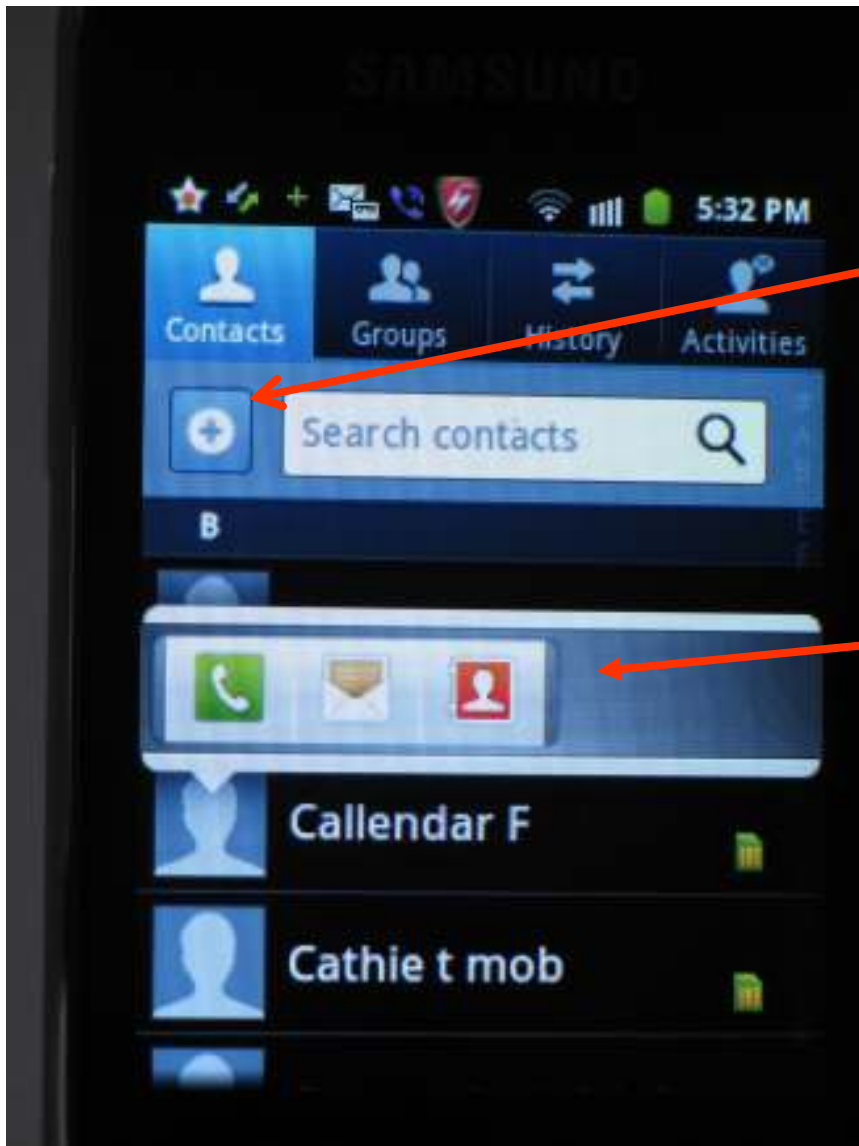
You can key in a number directly  
but a Contact list is more accurate

# CONTACTS

Select, Edit, Add



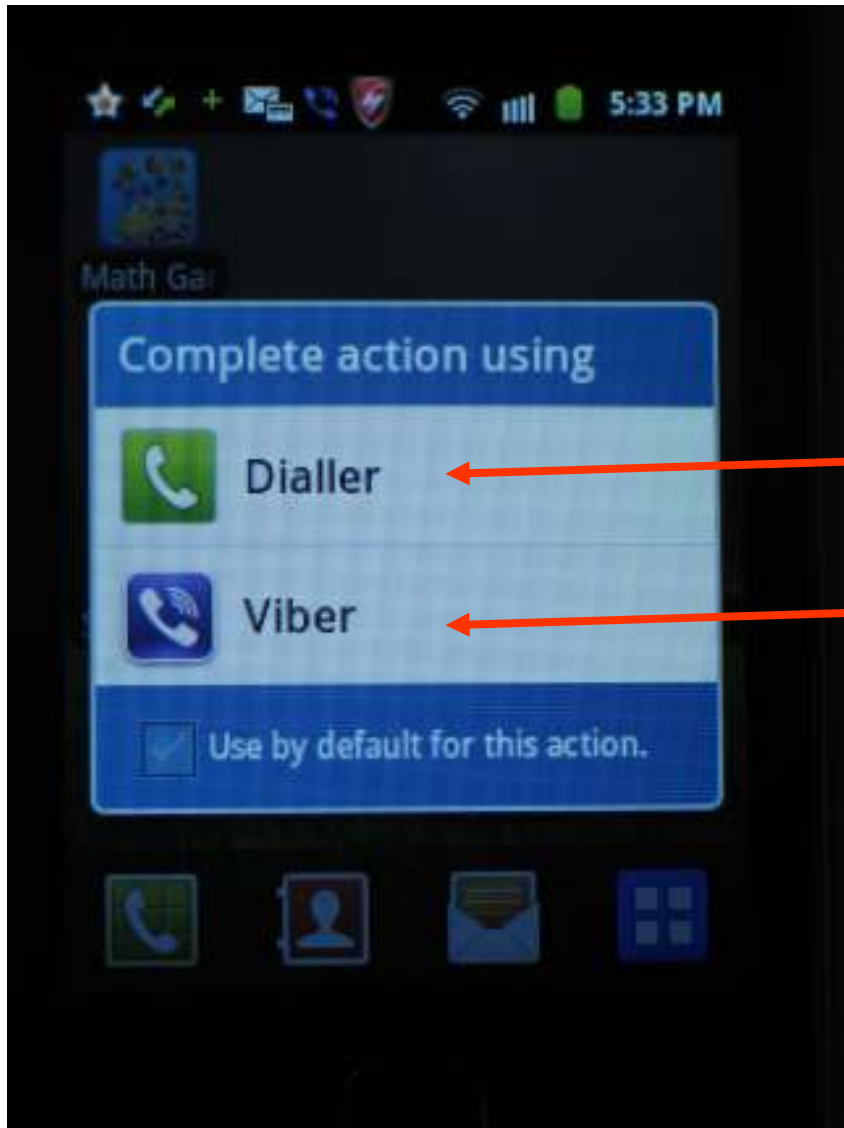
Contact person may even supply a photo thumbnail



Add a Contact  
Keyboard pops up with a  
template to guide you

Once Selected

Dial, Message or Edit



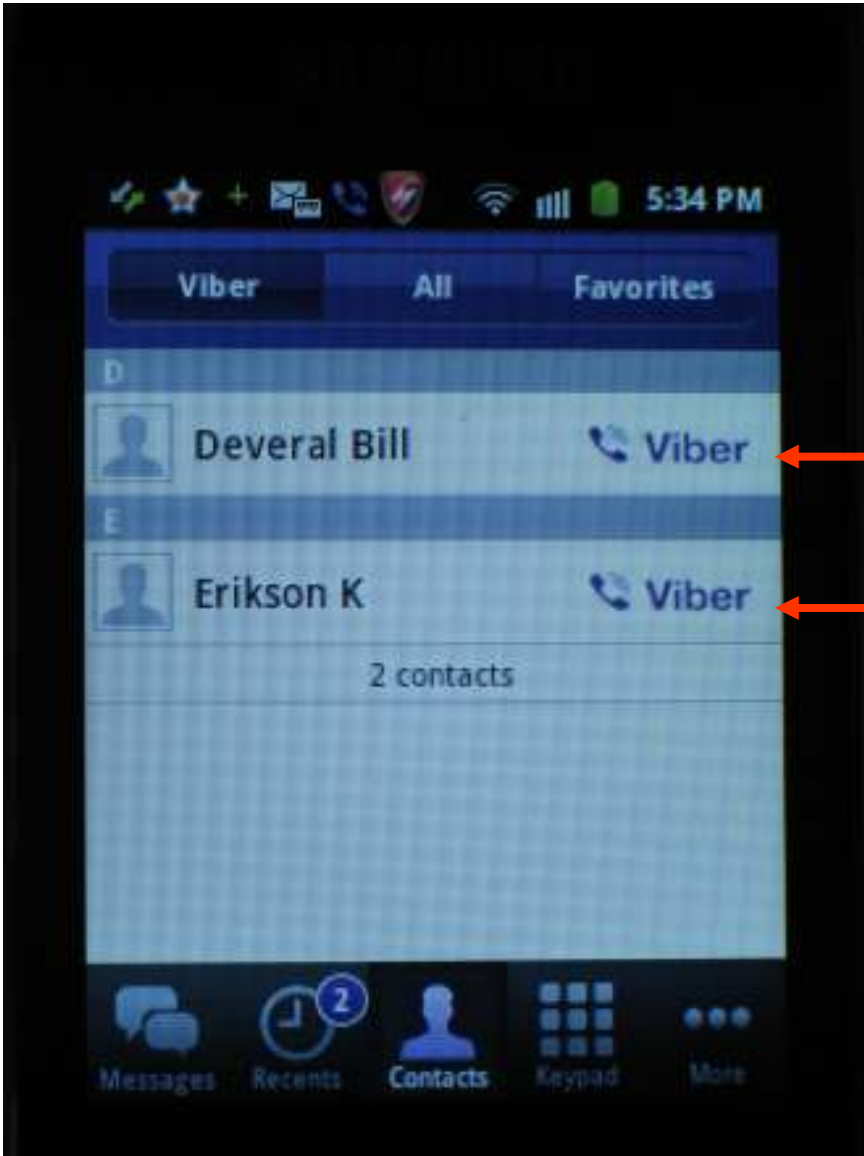
The same contact list will work For Mobile Calls, Viber Calls and Skype if Email details have been recorded

Call via normal mobile or

Free call via Viber and WiFi

Viber Free requires that the Called phone is connected To WiFi

Like Skype there is an OUT



Free call to Hong Kong

Free call to Singapore

## TEXT

Texts can start from the Main Screen  
Or the Contact List

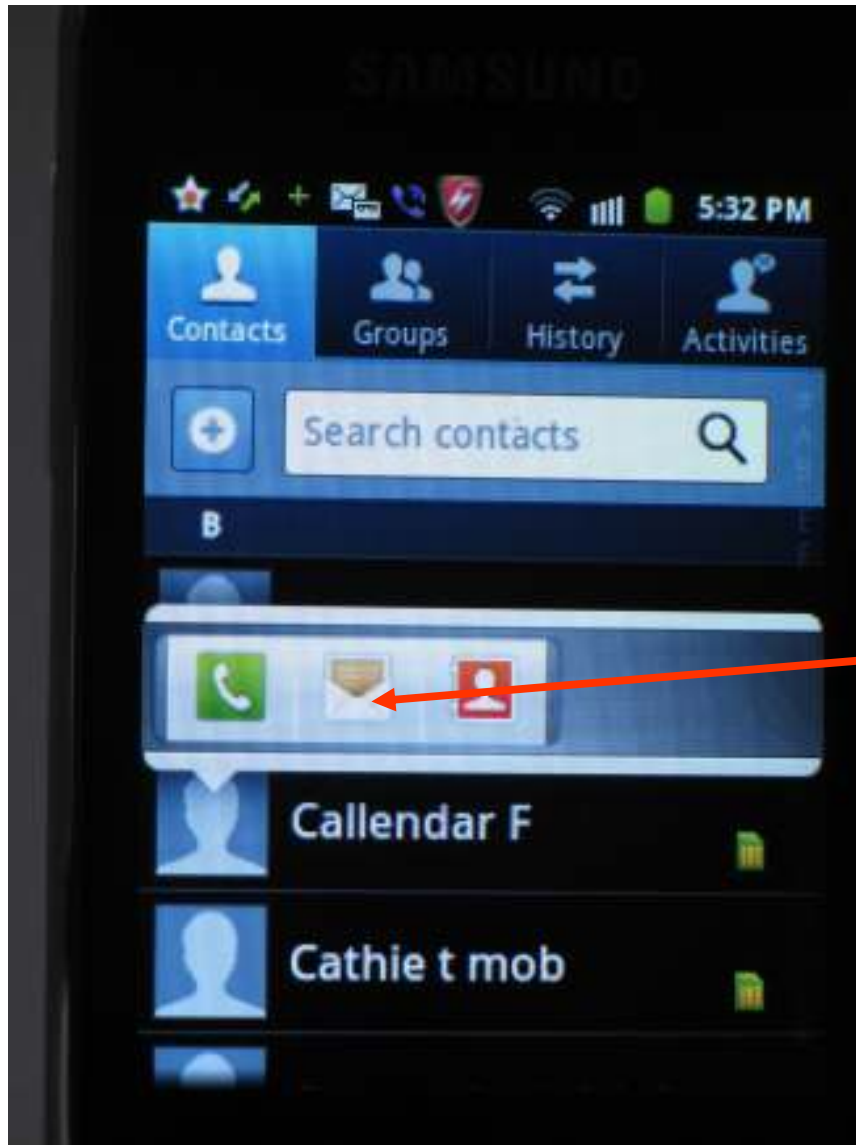


## Start a Text Message from the Main Screen



Text Icon

Or start Text Message from Contact Screen



Once Selected  
Select Contact

The TAP Message

# TEXT



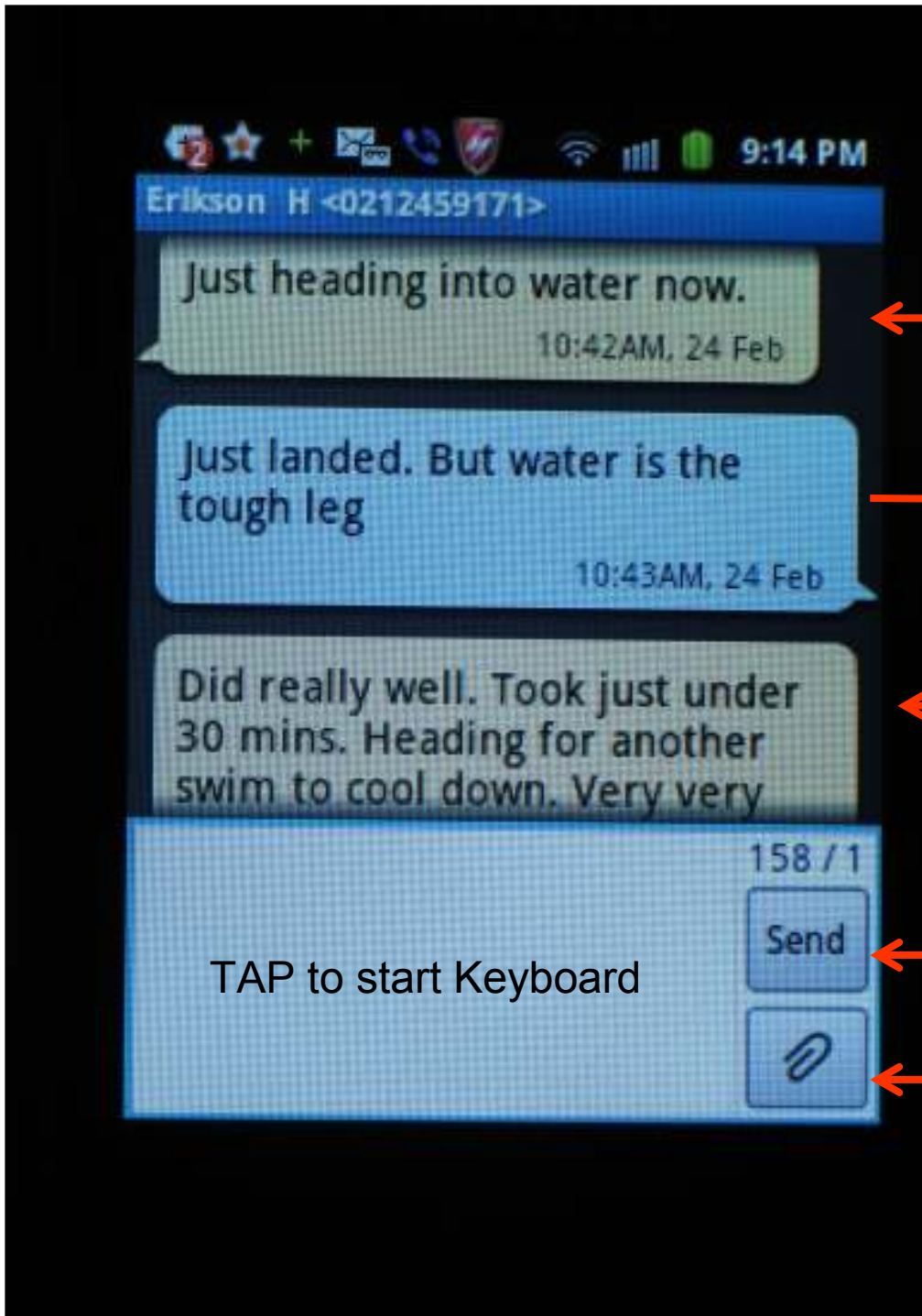
Address directly  
or select from Contacts

Counts the text characters used

Attach a file or photo  
(Goes via mobile broadband)

Compose message using  
screen keyboard

If you don't like typing use  
voice to text option



Text is shown as a Thread from the particular Contact. All others are hidden

Received 10:42 am

Response 10.43 am

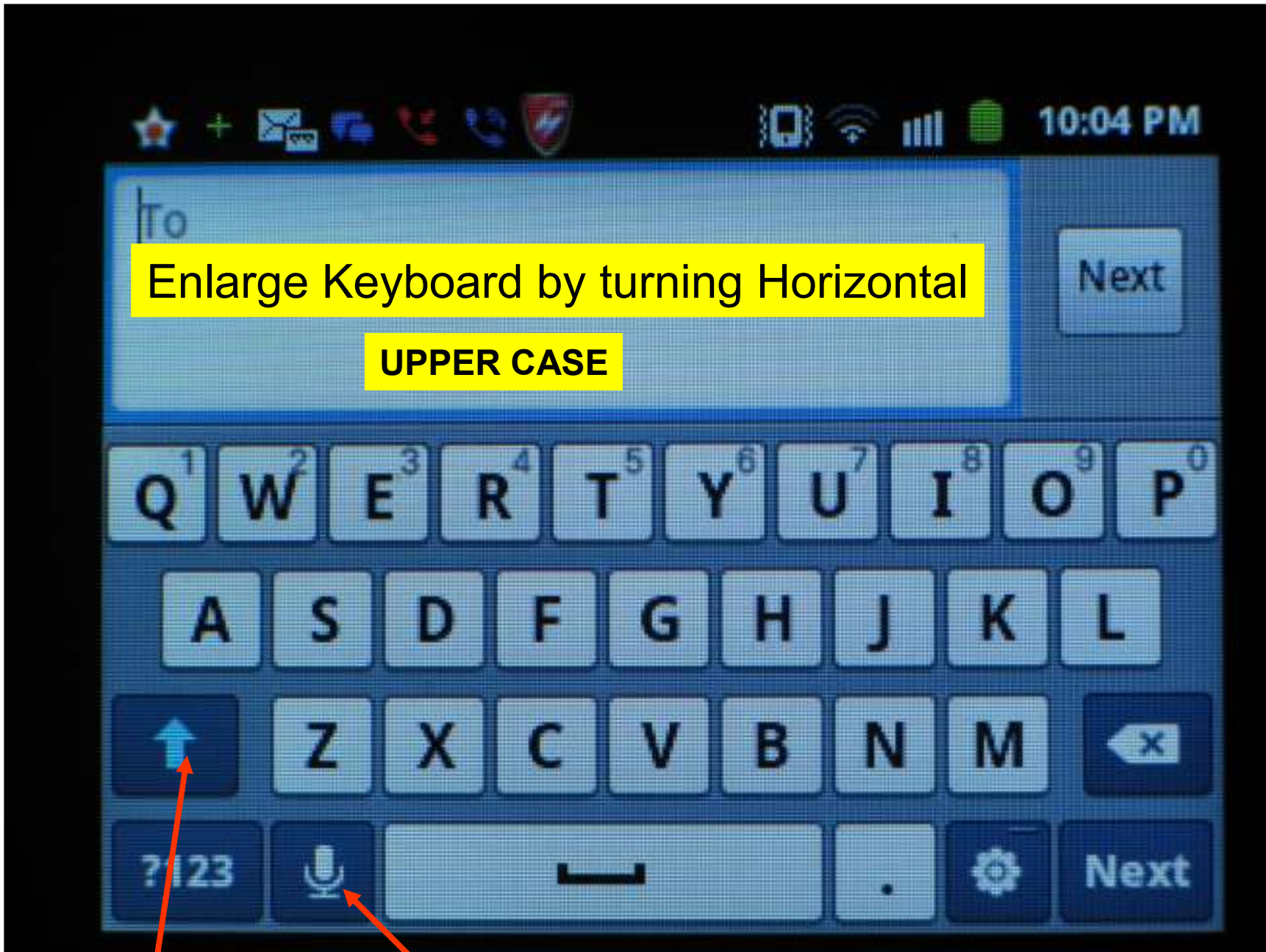
Recieved

Text area ready for further Response. Tap to send

Tap to attach a file (ie photo)

A bit more about the Keyboard





Enlarge Keyboard by turning Horizontal

**UPPER CASE**

Next



Z

X

C

V

B

N

M



?123



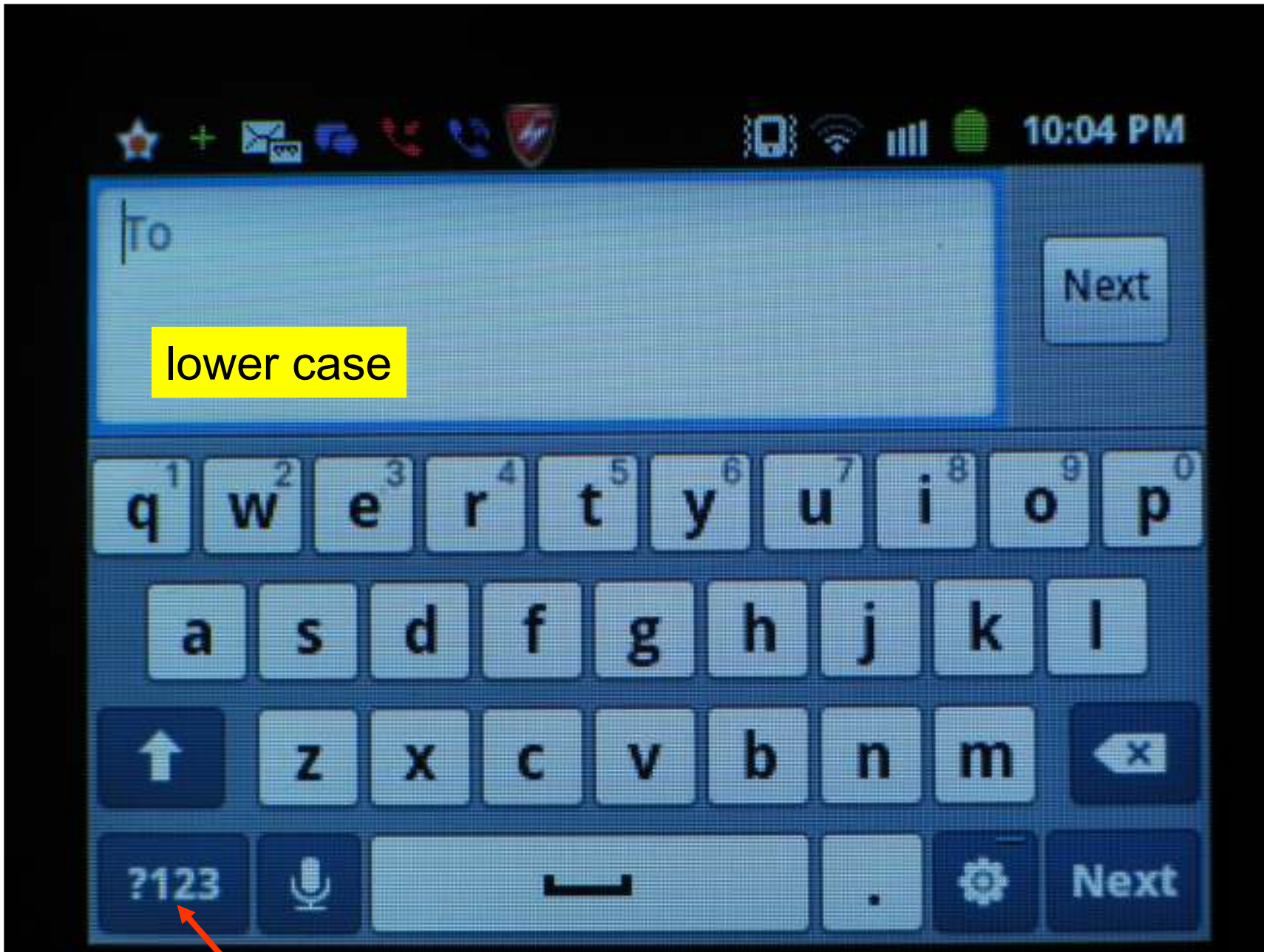
.



Next

Change Case

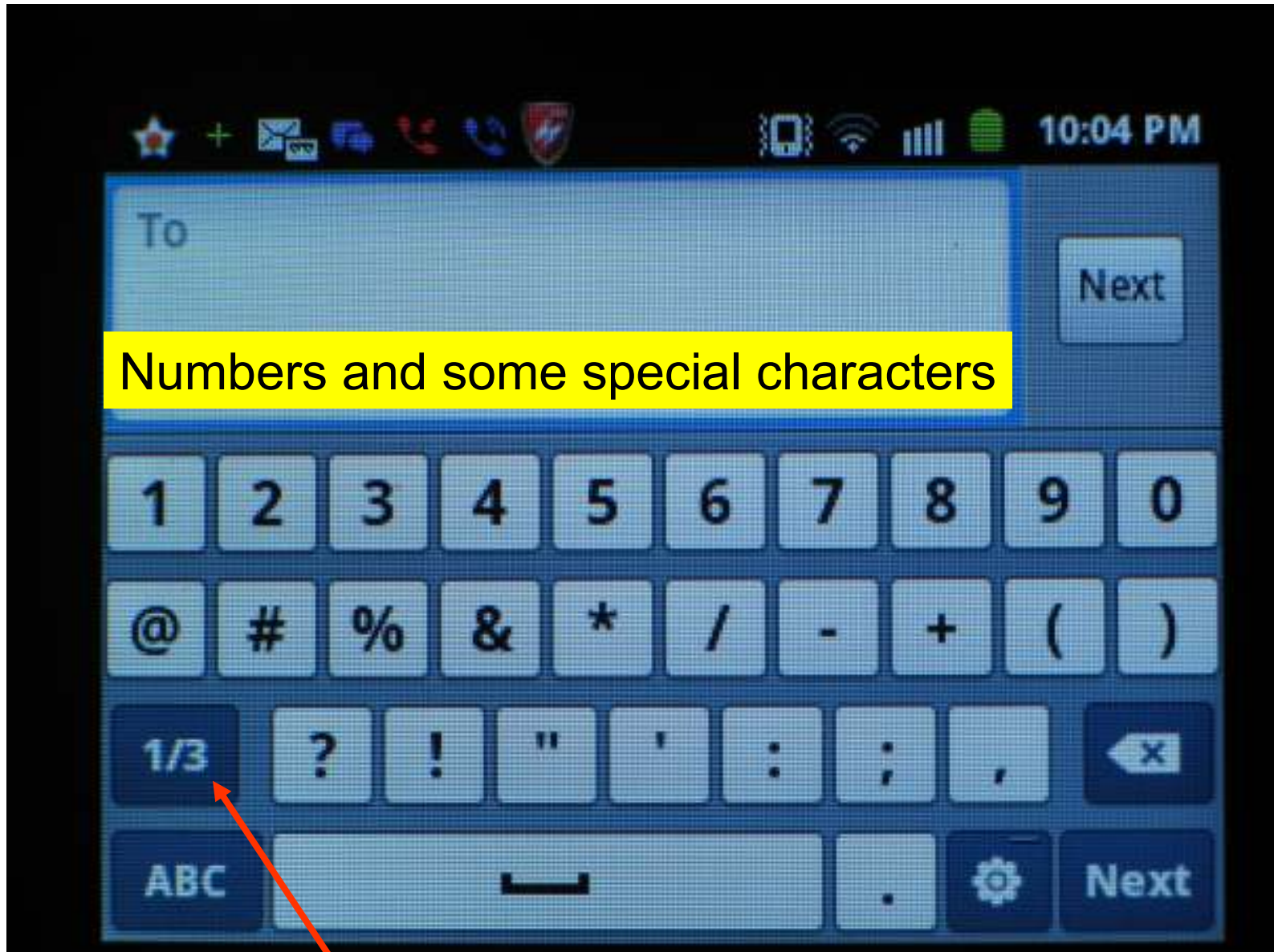
Voice to Text Input



lower case

Change to numbers and special characters





Numbers and some special characters

Three Keyboards of special characters



## The DROP BOX APP

This can be installed on a PC, Laptop, Tablet and Phone

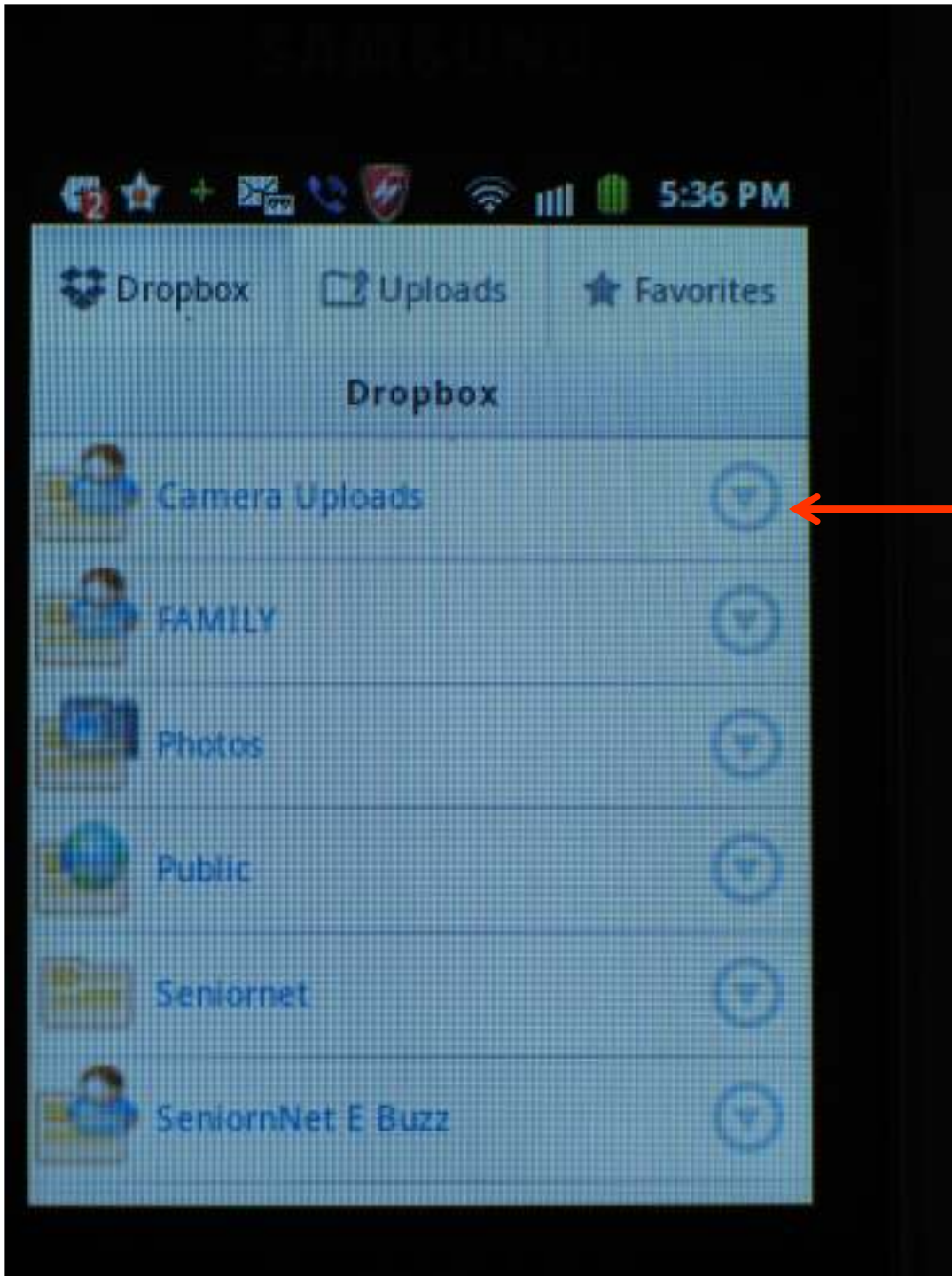


Each synchronises  
When next live



OWNER sets up  
a personal drop box in the CLOUD

Invites others to link in to specific folders in the BOX



## Drop Box for Mobile

Camera Upload folder

Whenever you are in range of WiFi DropBox uploads Recent photos to your DROP BOX

(no human intervention)



The Skype APP will work in a similar to Viber

But for Skype video your mobile needs a backwards facing camera

## Dragon Naturally Speaking

### Dragon Remote Microphone App: Free

Use your iPhone<sup>®</sup>, iPad<sup>®</sup> or your Android device as a wireless microphone for use with Dragon over a WiFi network to a to voice operate and dictate into local computer

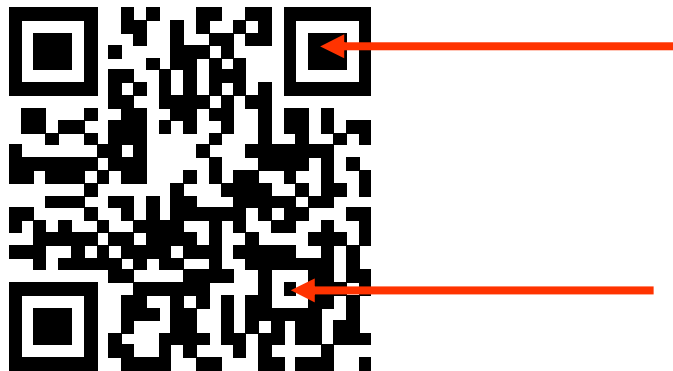
Possibly extended to a PC anywhere in the world but depending on bandwidth and delay in the connection

**QR code** (abbreviated from **Quick Response Code**)

is the trademark for a type of two dimensional bar code)

Designed by Toyota in 1994 for the automotive industry in Japan.

The code consists of black squares) arranged in a grid on a white background  
With 3 large positioning squares and usually 1 smaller square



May be scanned by a camera

Data is extracted from patterns in the camera image using a QR reader

# A Smart Phone with built in camera can be a QR reader

There are numerous free QR readers available but be wary of those supplied by Companies who want to sell you other stuff.

I have found HP code Scanner easy to use

Common uses of QR in a Smart Phone are:

Easy access to a web address : the web address is in the QR code and the QR reader starts a browser and inserts that address

Easy addressing an Email: the Email address is in the QR code and the QR reader starts an Email template.

Just some simple text information

## A Free QR Generator

Text **URL** Call SMS vCard

Your text:

`http://goqr.me/`

characters used:

Hint: To get the best results on older mobile phones, keep the text below 300 characters to get a less complex QR Code.



size: 250x250px

Download Open Options <Embed>

Your generated QR Code on:



Advertising - In association with Zazzle.co.nz



<http://www.seniornetpakuranga.org.nz>



# Comodo APP



## Anti-malware

After all the Smartphone is a pocket computer with voice features (some say more powerful than a 1970's Super Computer)



Google Search

Maps

Navigation

Quick Office



Dictaphone

Start Chart

You Tube



Some Smartphones have a short battery life between charges

APPS can also use up the battery

Keeping in touch with the Cell Sites

Ready to answer or make a Call

Ready to answer or make a Call

Keeping in touch with Home WiFi

The Display



Tap to turn OFF / ON all wireless

SAMSUNG



Tethering and portable hotspot

USB tethering



No USB device connected

Portable Wi-Fi hotspot



Portable Wi-Fi hotspot settin

Set up and manage portable Wi-Fi hotspot