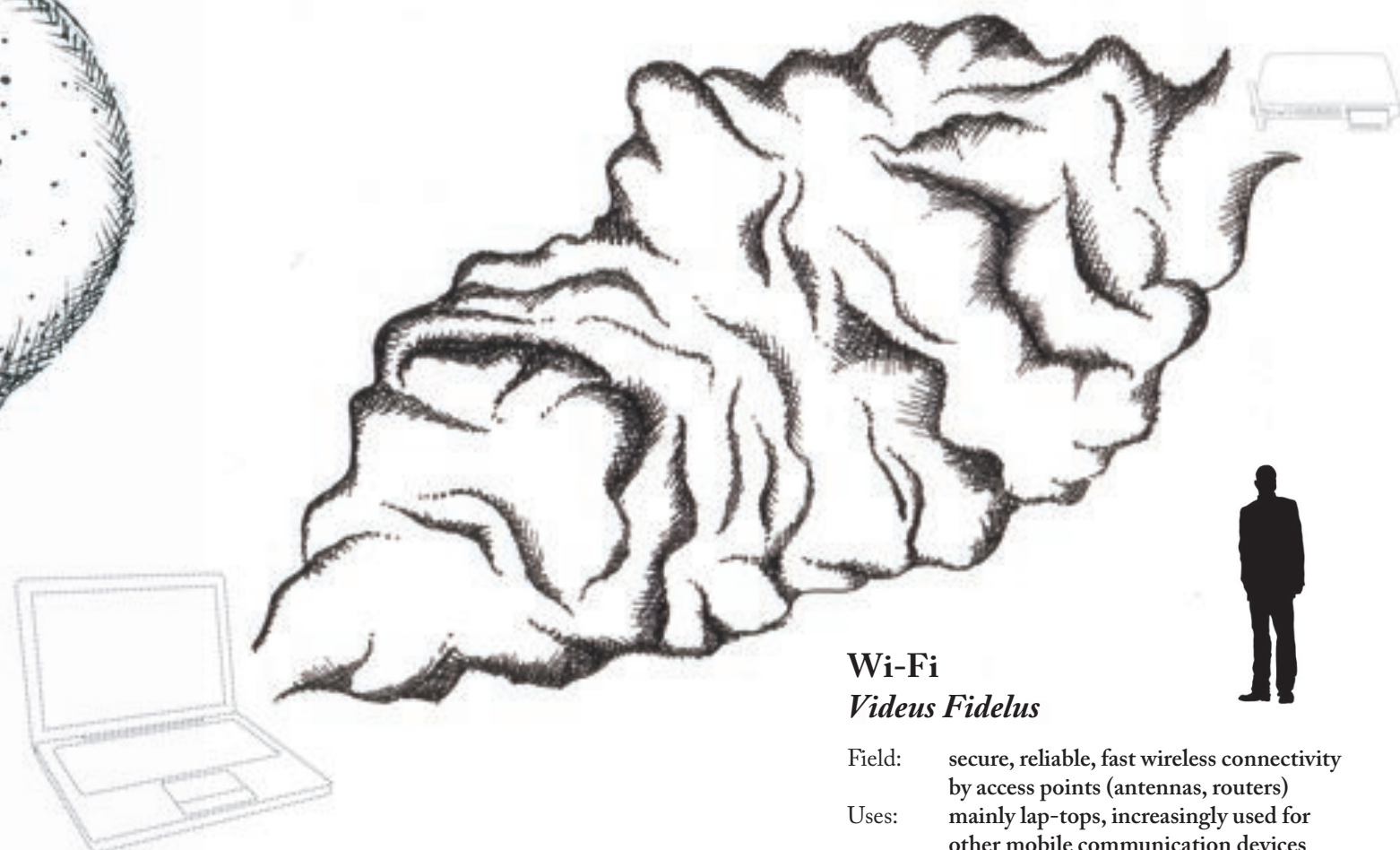
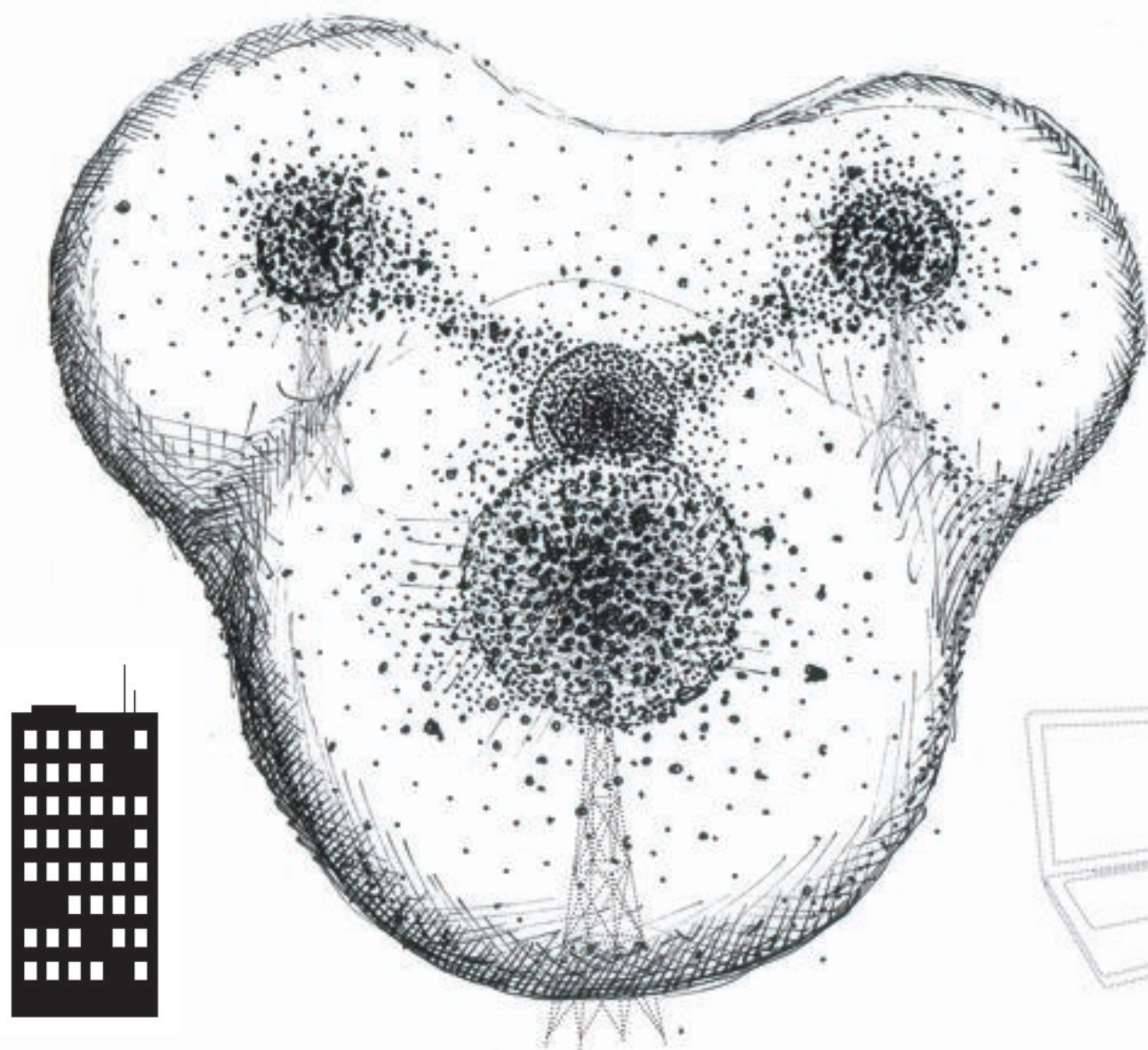


**Elektromagnetiske
Felter**

**Electromagnetic
Fields**

**Elektromagnetische
Felder**

**Champs
Electromagnetiques**



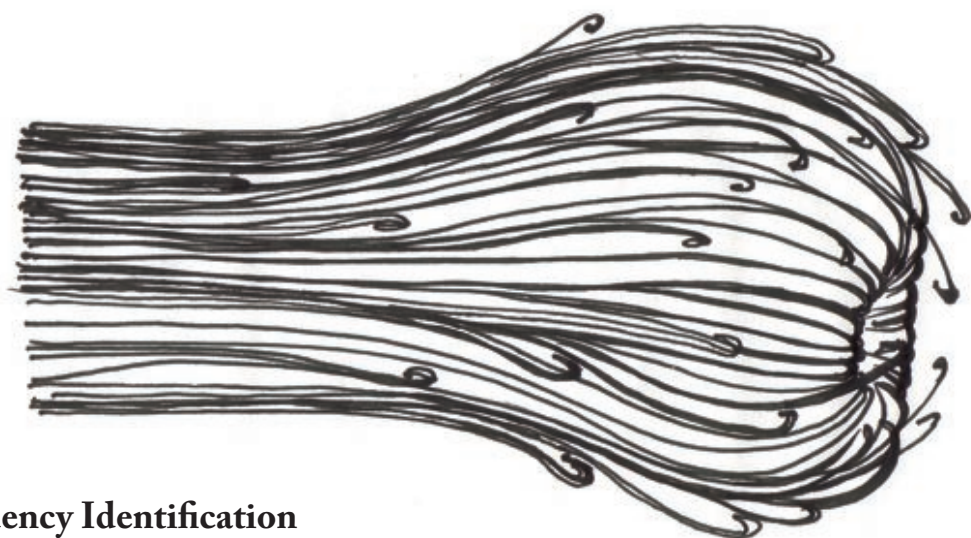
GSM - Global System for Mobile communication
Spherum Magnea Globalum

Field: cellular network (a cell being a transmission point, with a base station antenna)
Uses: mainly mobile phones
Range: depending on various conditions: 200 meters up to 35 km
Capacity: 13 kbit/s

**the
bubbles
of Radio**

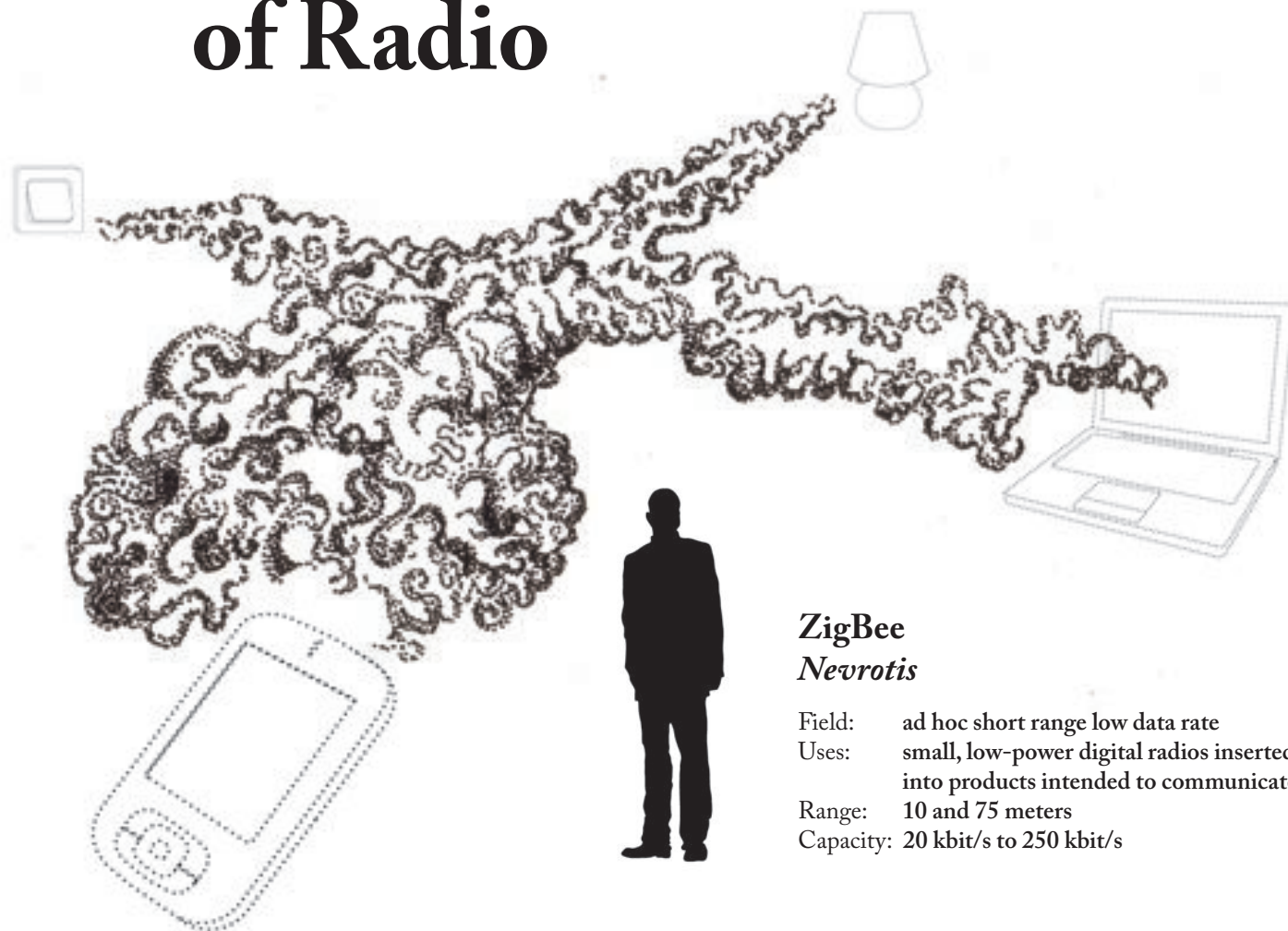
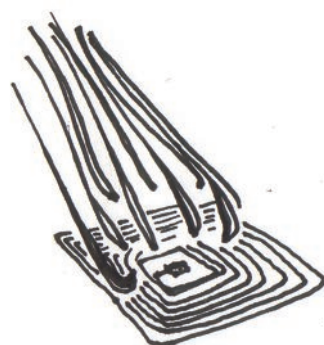
Wi-Fi
Videus Fidelus

Field: secure, reliable, fast wireless connectivity by access points (antennas, routers)
Uses: mainly lap-tops, increasingly used for other mobile communication devices
Range: from a single room to many square miles
Capacity: 11 Mbp/s (802.11b) or 54 Mbp/s (802.11a or g)



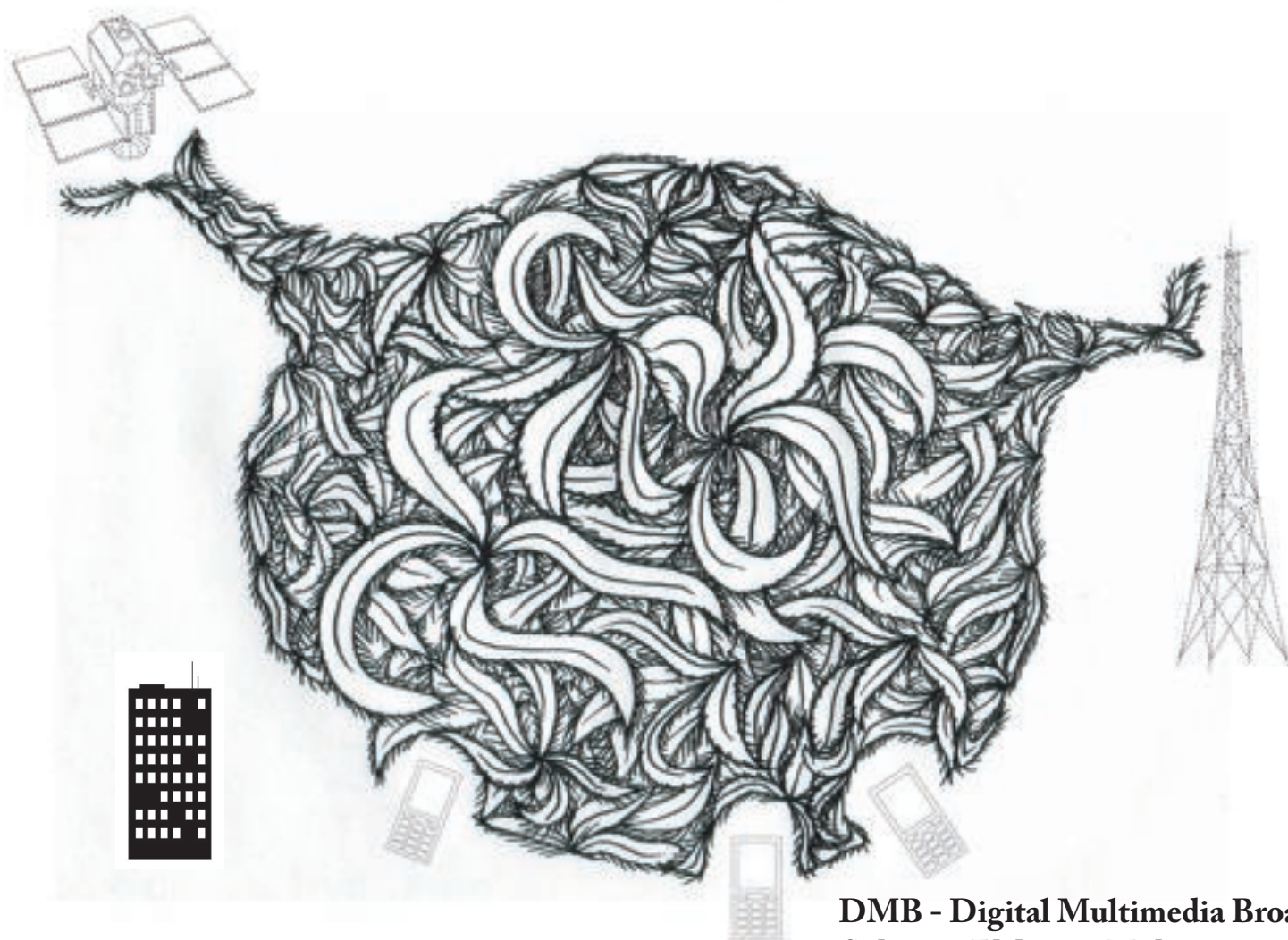
RFID - Radio Frequency Identification
Raptus Arphadus

Field: automatic identification method, using radio waves
Uses: RFID tags integrated in a product, animal, or person
Range: Passive tags 1 cm - a few metres. Many active tags have practical ranges of hundreds of meters
Capacity: from 128-bits to 2.840 bytes depending on size and activeness



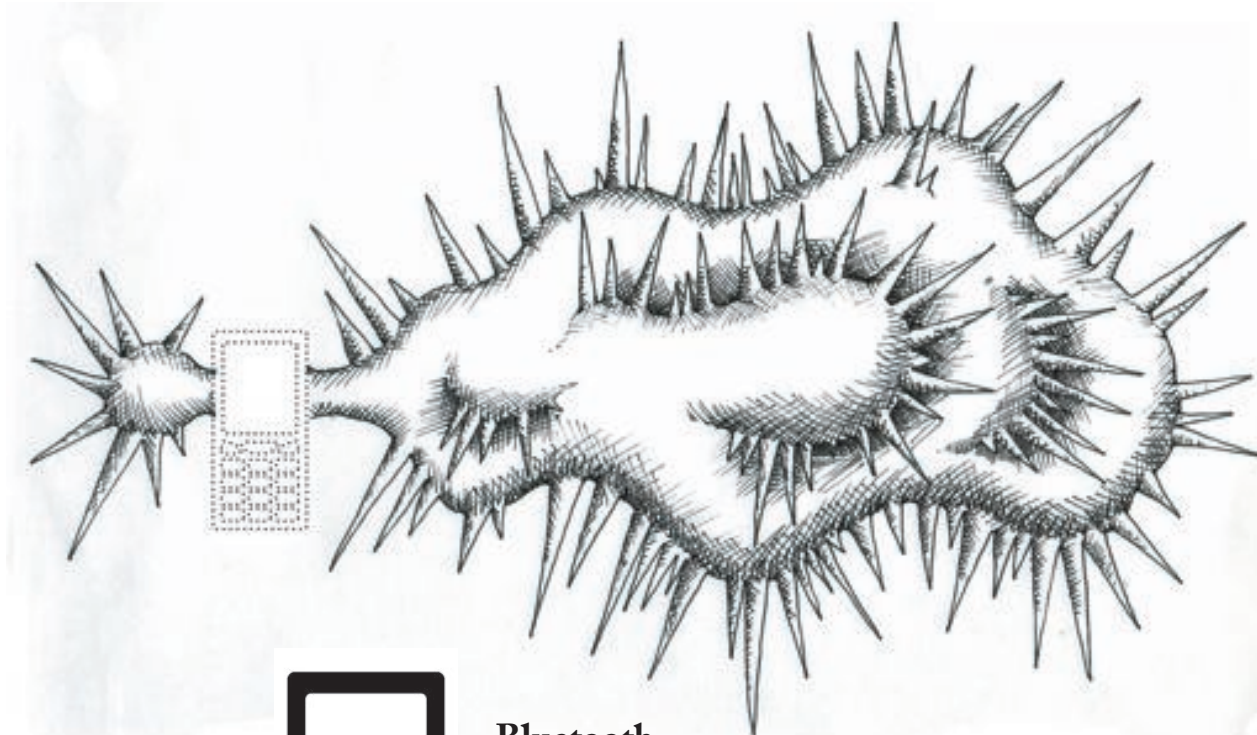
ZigBee
Nevrotis

Field: ad hoc short range low data rate
Uses: small, low-power digital radios inserted into products intended to communicate
Range: 10 and 75 meters
Capacity: 20 kbit/s to 250 kbit/s



DMB - Digital Multimedia Broadcasting
Spherum Elektrum Multanum

Field: radio transmission using satellites and radio towers
Uses: mobile devices
Range: potentially worldwide, FM Coverage
Capacity: 1 Mbps at max. 200 km/h



Bluetooth
Nevrotis Dentus Aquarae

Field: Short-range, ad-hoc
Uses: mobile phones, laptops, PCs, printers, digital cameras, video game consoles
Range: between 1 to 100 meters
Capacity: currently up to 2.1 Mbit/s



Indications of proportions, in comparison to a mobile phone, a human being and a building; typically measuring approximately 10 cm, 1.8 metres and 20 metres. Not to scale. Rough guides only.

