

16 settembre - 2 ottobre 2011



COMUNICANDO

da strumenti di calcolo a strumenti di comunicazione

38 anni di telefonate
Da Martin Cooper a
Tizen

ITALIA
IRPINIA
150



PROVINCIA DI AVELLINO



Storia Informatica

Who am i?



maemo.ORG

MeeGo™

 **LIZARD**
SOLUTIONS



LiMo Foundation

TIZEN 



Da Martin Cooper a Tizen



Le origini

- AT&T
- Bell labs
- Motorola



La prima telefonata

- 3 aprile 1973
- Joel Engel
- Peso primo cellulare 1.5 Kg
- Costo 3500\$ (all'incirca 9000 € odierni)
- Aspetti sociali



Brevetto

United States Patent [19]

[11] **3,906,166**

Cooper et al.

[45] **Sept. 16, 1975**

[54] **RADIO TELEPHONE SYSTEM**

[75] Inventors: **Martin Cooper**, Glencoe; **Richard W. Dronsuth**, Westchester; **Albert J. Mikulski**, Chicago; **Charles N. Lynk, Jr.**, Arlington Heights; **James J. Mikulski**, Deerfield; **John F. Mitchell**, Elmhurst; **Roy A. Richardson**, Skokie; **John H. Sangster**, Hoffman Estates, all of Ill.

[73] Assignee: **Motorola, Inc.**, Chicago, Ill.

[22] Filed: **Oct. 17, 1973**

[21] Appl. No.: **403,725**

[52] U.S. Cl. **179/41 A; 325/16**

[51] Int. Cl. **H04q 7/00**

[58] Field of Search **179/41 A; 325/16, 55, 64**

[56] **References Cited**

UNITED STATES PATENTS

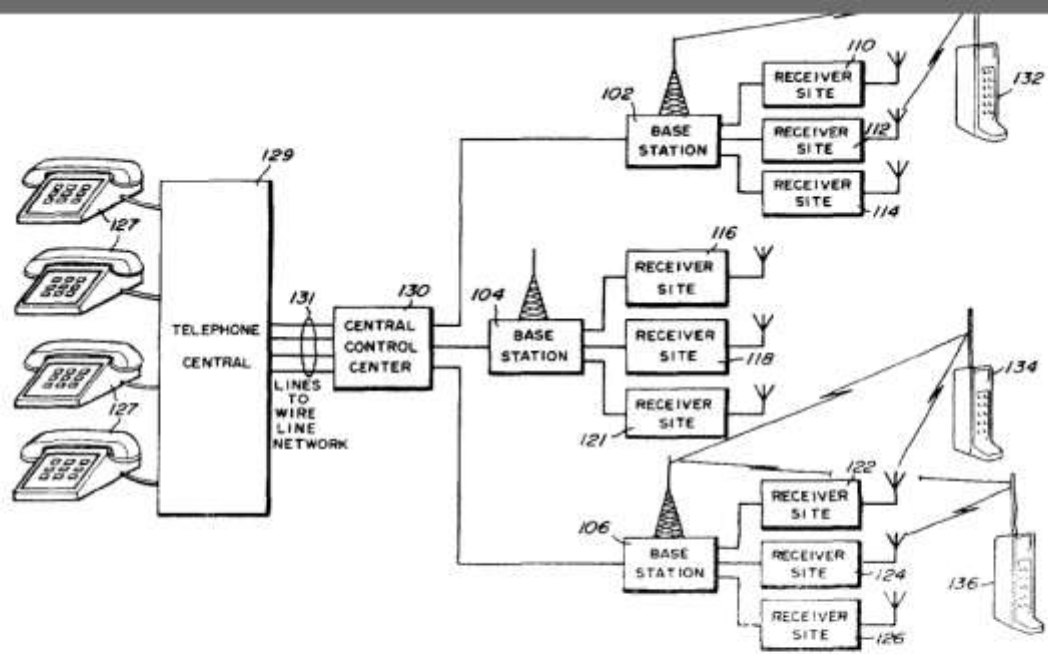
3,517,315	6/1970	Malm	179/41 A
3,586,978	6/1971	Van Gorder	179/41 A
3,663,762	5/1972	Joel, Jr.	179/41 A
3,745,462	7/1973	Trimble	325/55

Primary Examiner—**Kathleen H. Claffy**

Assistant Examiner—**Gerald L. Brigance**

Attorney, Agent, or Firm—**Eugene A. Parsons; James W. Gillman**

least one base station transmitter having a predetermined base transmission range, and a plurality of portable or mobile units each having a predetermined portable maximum transmission range predeterminedly shorter than the base transmission range. Satellite receivers are deployed about the base station within the base station transmission range for receiving transmissions from the portable units. The base station transmitter transmits signals on a signalling channel and on at least one communications channel. Each transmitter signalling and communications channel has a frequency that is paired or associated with a receiving frequency of the satellite receivers. In a multiple base station system, the portable receiver has means for scanning the base station transmitter signalling frequencies and for tuning the portable transmitter to the signalling frequency associated with the frequency of the strongest signalling signal received from the base transmitter. When communication is initiated, the portable transmitter and receiver are automatically retuned to one of the communications channels as determined by the strongest signalling frequency received by the portable receiver and by channel availability. Means are also provided in the system to continuously locate a portable unit and switch the operating frequency thereof as the portable unit moves between base station transmitter coverage areas. Further means are provided to automatically reduce the output power of each portable transmitter to the minimum level required for satisfactory communications in order to reduce battery drain and the inter-



Generazioni

- Analogica (160 / 450 / 900) Mhz
 - 0 G
 - 1 G
- Digitale (GSM, GPRS, UMTS / EDGE e VSF-Spread OFDM)
 - 2 G; 2.5 G; 2.75G
 - 3G; 3.5 G
 - 4G



Smartphone



Da Simon agli ecosistemi

- 1992 Simon
- 1996 Nokia 9000 Communicator
- 2000 Ericsson R380; Nokia 9210; Pocket Pc 2000
- 2002 Blackberry; Treo 180
- 2003 3
- 2004 Nokia 9500
- 2007 Iphone
- 2008 Android



Ecosistema

- Hardware
- Software
- Servizi
- Tools di sviluppo



Symbian

- 1998 Symbian Ltd
- 1998 partnership tra Nokia, Ericsson, Psion e Motorola
- 2008 Nokia
- 2009 Symbian Foundation
- 2010 Fine Symbian Foundation
- 2011 Accordo con Accenture
- 2016 Ultima versione Symbian



Windows Mobile

- Pocket Pc
- Windows Mobile 2003 (HTC)
- 2003 seconda edizione (vga, wep/wa, ecc.)
- Magento
- Windows Mobile 6
- Windows Mobile 6.1
- Windows Mobile 6.5
- Windows Mobile 7



Iphone

- 2007
- 11 luglio 2008 Iphone 3
- 7 giugno 2010 Iphone 4
- 2011 ? Iphone 5



Android

- Android Inc.
- 2005 Google Inc.
- Novembre 2007 presentato ufficialmente
- Ottobre 2009 2.0
- Luglio 2010 2.2
- Febbraio 2011 3.0



Architettura Android



WebOS

- PalmOs
- Hp
- Prepalm 2
- Prepalm 3
- Agosto 2011 the end?



Blackberry

- 1999 cerca persone
- 2003 nasce lo smartphone
- Push to Talk



Meego → Tizen

maemo.org + moblin.org = MeeGo

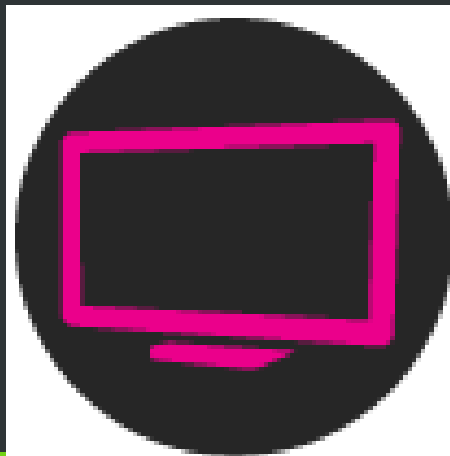
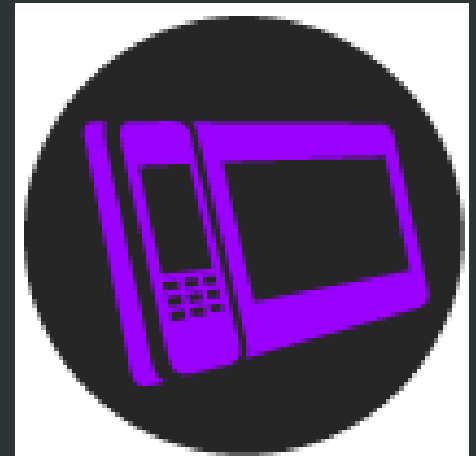


LiMo Foundation

TIZEN™



Meego / Tizen Devices



Cose da sapere...

- Progetto completamente Open Source
- Linux Foundation
- Strettamente allineato con i progetti upstream
- Completo stack software
- Programma di conformità
- Coinvolgimento delle industrie interessate
- Facilmente caratterizzabile

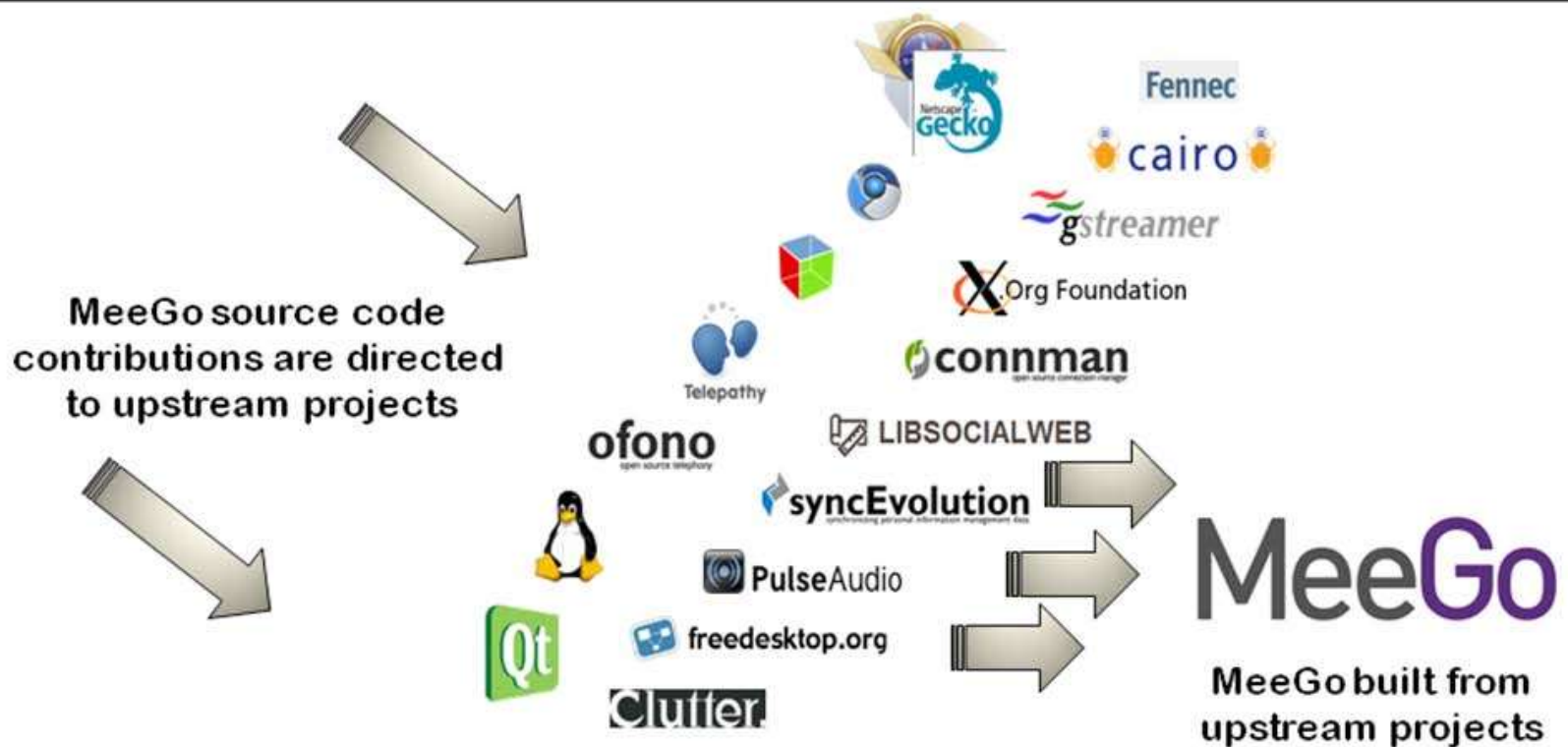




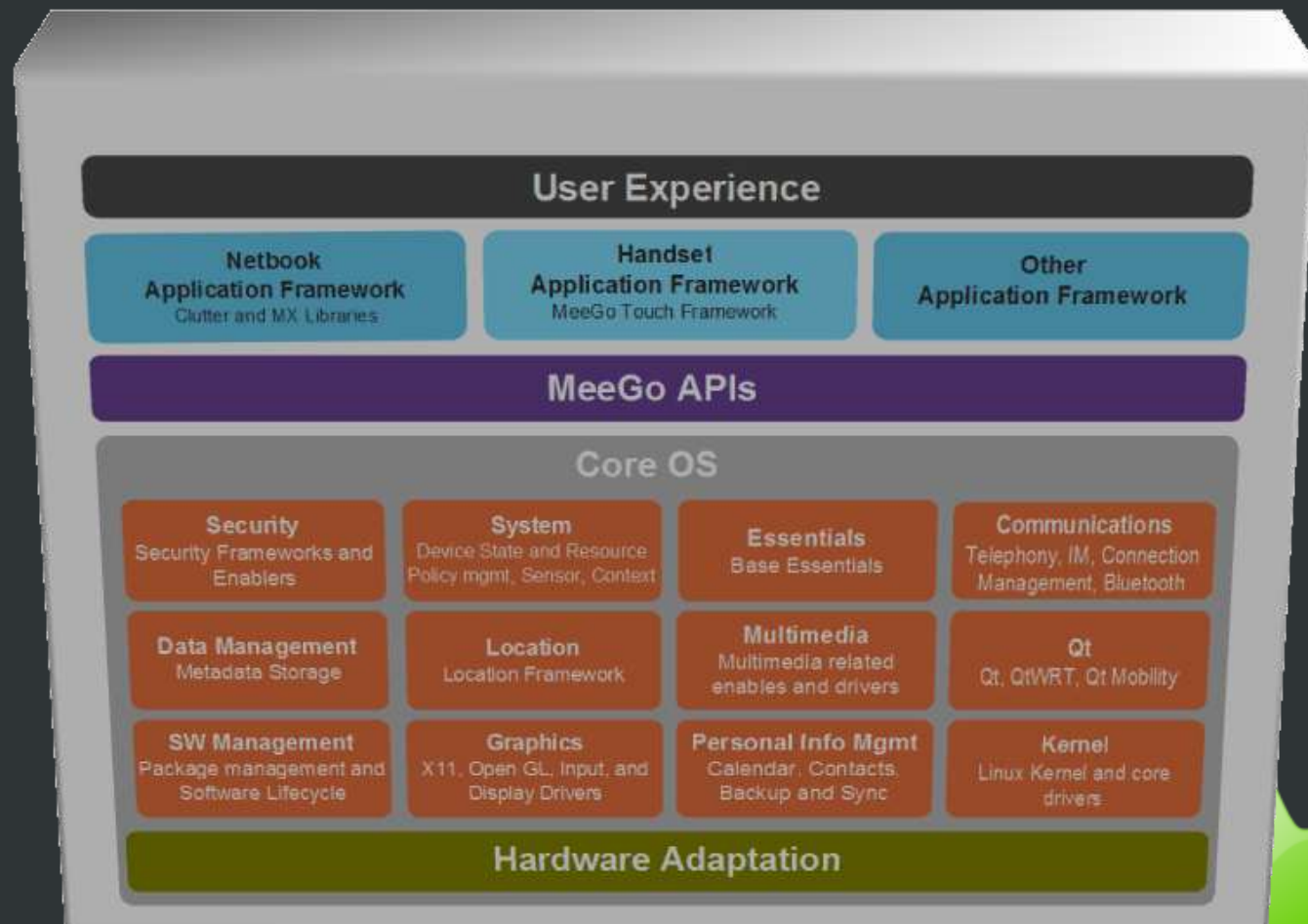
- Ambiente di sviluppo multiplatforma
- Diverse architetture Hardware
- Diversi Apps Store



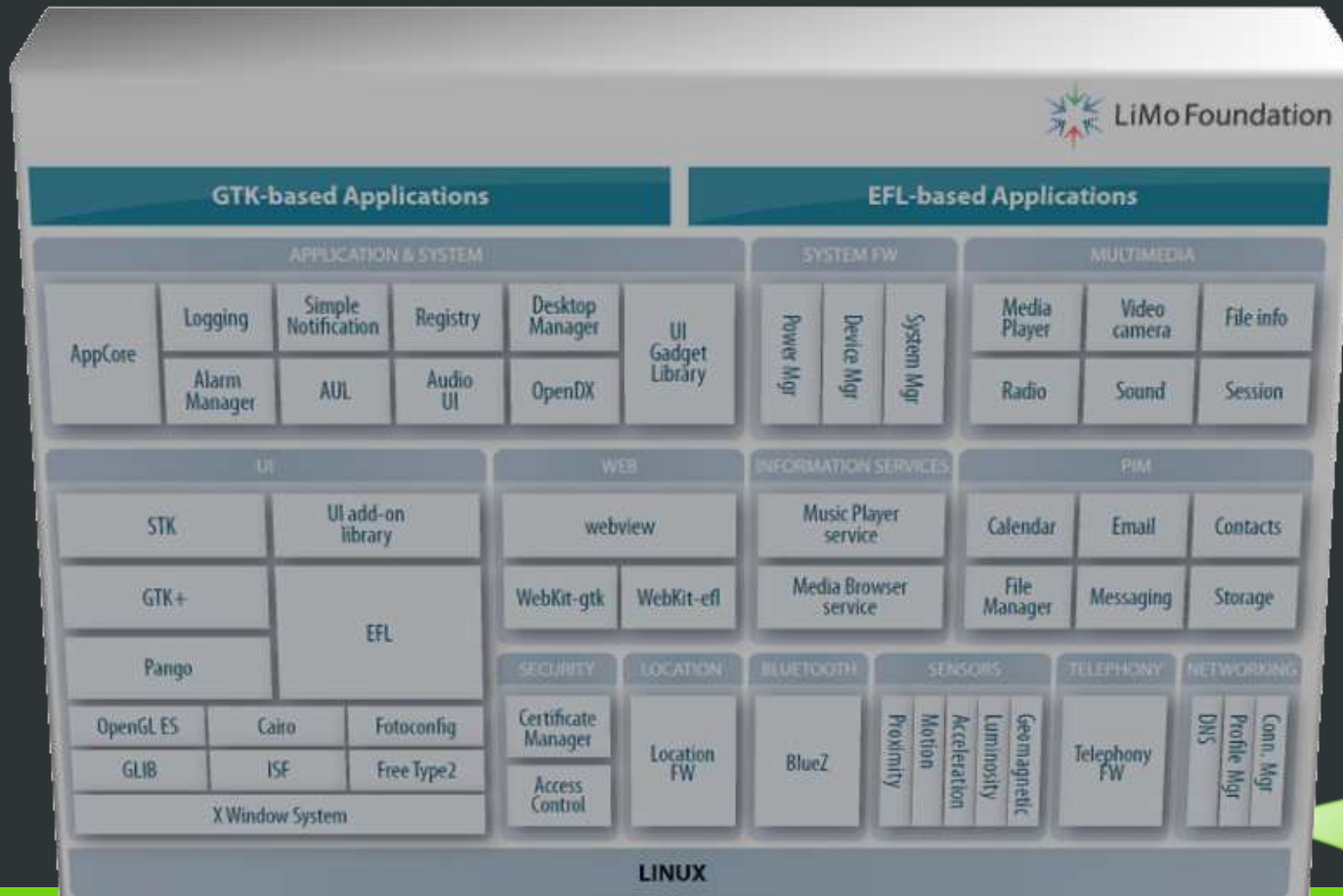
Upstream projects



Meego – L'architettura



Limo



Benefici per gli sviluppatori OpenSource

- Tools
- Mailing-list
- Meeting



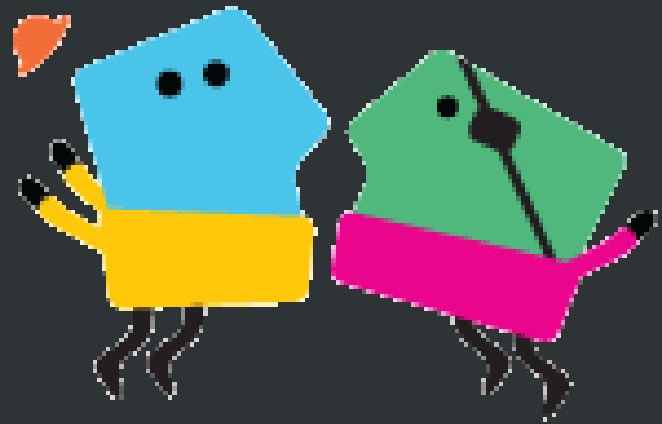
Benefici per gli sviluppatori di applicazioni

- Diversi Store
- Strumenti di sviluppo multiplatforma
- Dispositivi diversi



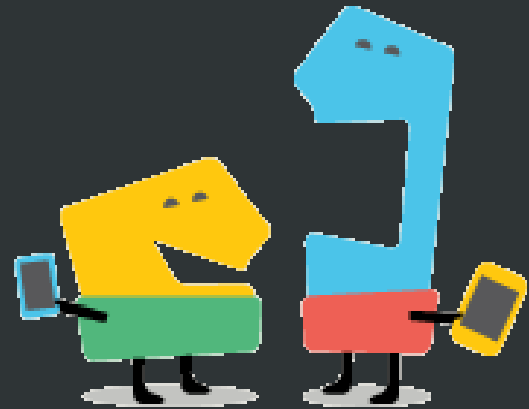
Benefici per i costruttori

- Diversi tipi di dispositivi
- Semplice caratterizzazione



Benefici per gli operatori

- Una interfaccia per dispositivi diversi
- Facile personalizzazione



Futuro ?

- Intel
- Nokia
- Panasonic
- Nvidia
- Samsung
- LG
- HTC



Scenari Applicativi 1

- GPS
 - Posizione
 - Rilievi
 - Sopralluoghi
 - Condivisione (Social)



Scenari Applicativi 2

- Realtà aumentata
 - Turismo
 - Giochi
 - Informazioni



Scenari Applicativi 3

- NFC (Near Field Communication)
 - Riconoscimento
 - Pagamenti
 - Informazioni
 - Trasferimento File
 - Biglietteria
 - Chioschi



Grazie!!!

Domande?

Per contatti:

nicola.defilippo@lizard-solutions.com

