

Maemo

Future is open

Open source ..

- WHY ?
 - Easier, Faster, Better, Cheaper, Scalable
- HOW ?
 - Agile, Beta mode, Release often, Release early, Openly
- WHERE ?
 - Development tools
 - Core
 - Middle ware
 - Frameworks
 - Runtimes
 - UI
 - Applications

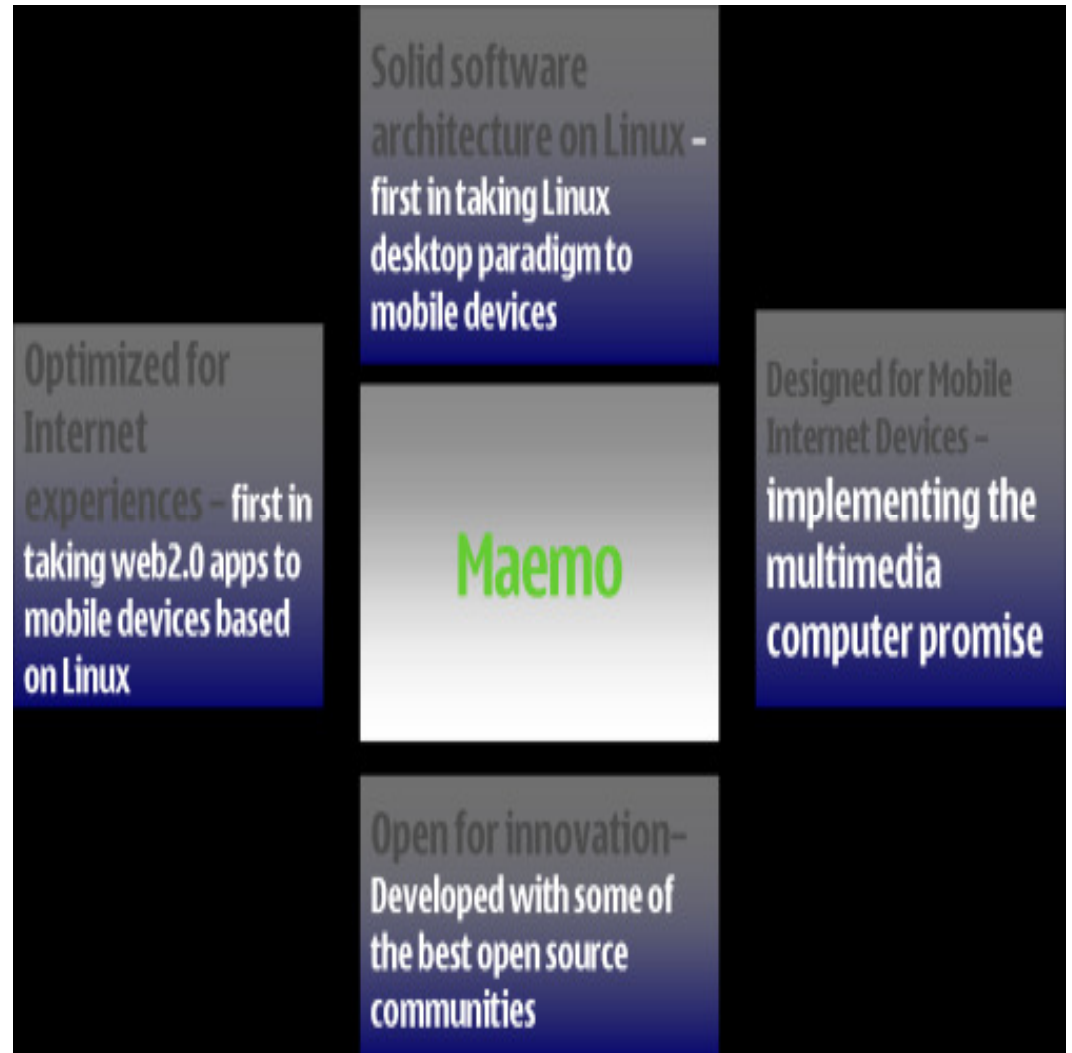
Maemo

- Software platform that is mostly based on open source code
- Collaboration with many open source projects such as [the Linux kernel](#) , [Debian](#) , [GNOME](#) , and many more.



Software platform

- Consists of the software stack from the Linux kernel to the Maemo APIs and the Hildon UI framework.

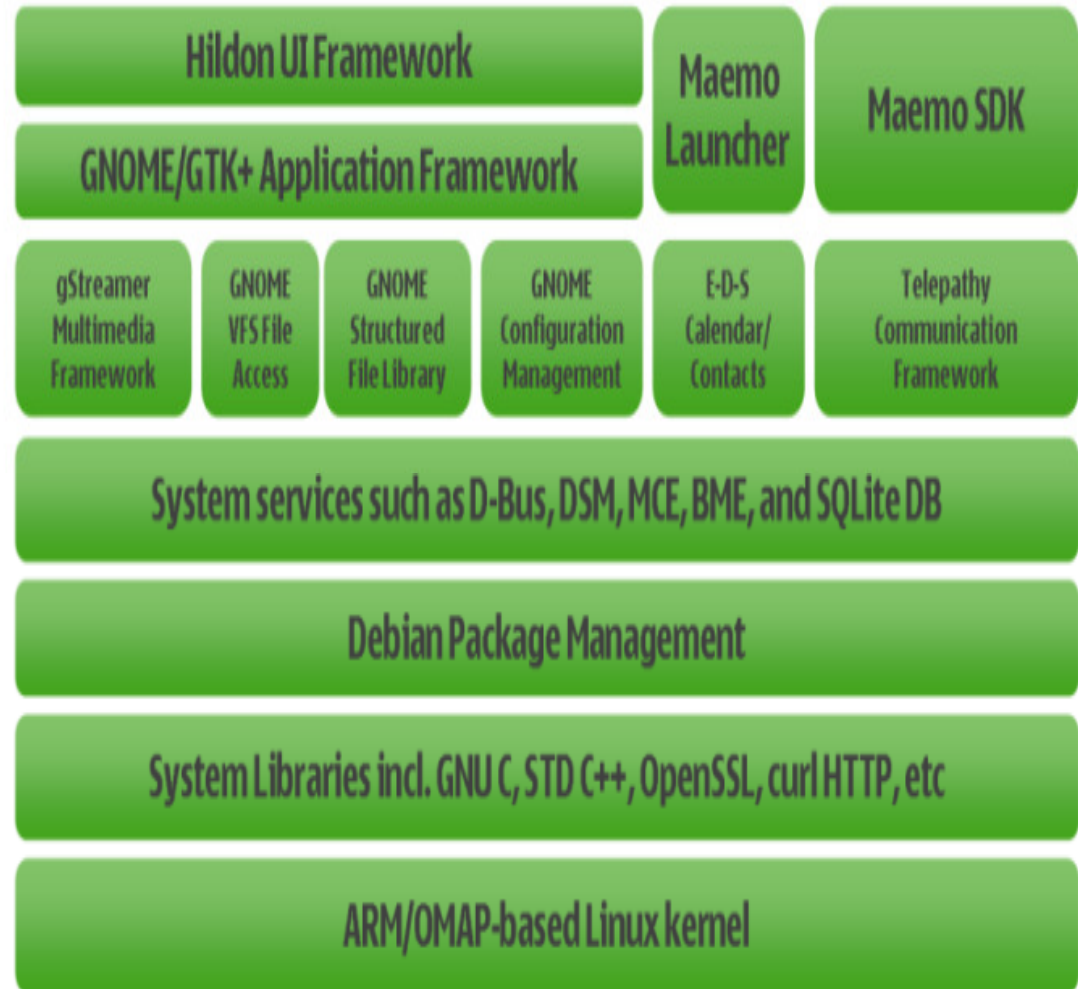


Maemo Architecture

Maemo platform is based on the Linux operating system kernel

The user interface architecture of Maemo 4 is based on GNOME framework, especially the GTK+ widget set.

Maemo platform has inherited many central components such as GTK+, the GStreamer framework, the GConf configuration management, and the XML library



Key Components

- Linux Kernel
- System libraries
- Debian package management
- System services
- Maemo Launcher
- Hildon UI framework
- Maemo SDK

Why Should I develop for Maemo

- Well-defined API interface by Glib and Qt based APIs
- OpenSource components
- Multi-tasking support
- Powerful and easy to use development, build, and test environment
- Easy deployment
- Uses standard C, C++ and OpenSource tools

Why Should we develop for Maemo (Contd...)

- Has a large developer community.
- Provides omnipresent Internet experience using a rich UI together with computer performance in a mobile device.
- Provides you with similar capabilities to a desktop environment .
- Simplification of development for handheld devices enhances developer productivity and reduces the learning curve.

What do we need for Maemo Development

- Linux distribution (preferably Ubuntu)
- Scratchbox components
 - Specially packaged sandbox environment that helps in doing development on Linux independent of host system.
 - Cross compiling tools
 - Executing non-native binaries on emulator.
 - core, libs, devkit, doctools, target, rootstrap, toolchain
- Maemo SDK
 - Available at maemo.org and it has both x86 and arm targets
- X SERVER

How do we develop on Maemo

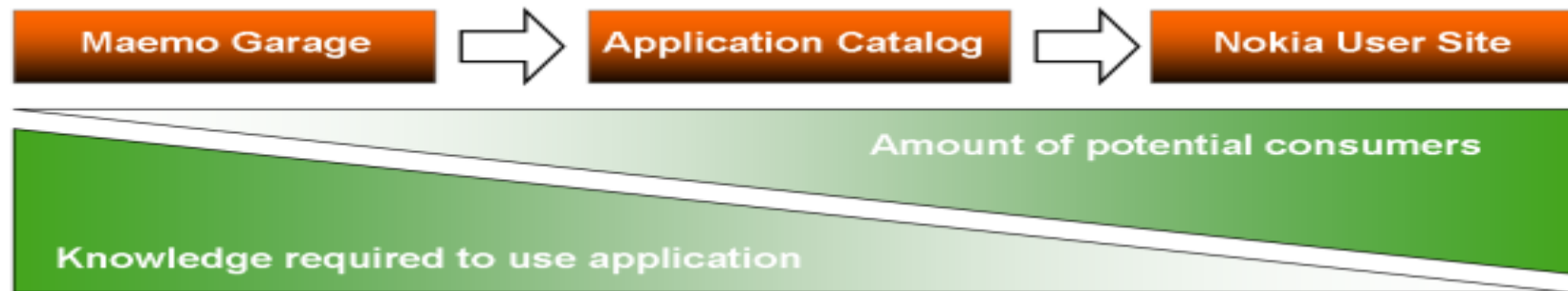
- Install scratchbox -
<http://repository.maemo.org/stable/diablo/INSTALL.txt>
- Install Maemo SDK -
<http://repository.maemo.org/stable/diablo/INSTALL.txt>
- Develop your code (HelloWorld.c)
- Compile your code in scratchbox
- Build package
- Run in emulator
- Build package for target
- Transfer to device
- Install the package
- Run the application

How do we contribute to Maemo

- Maemo Garage is place for working on various software projects related to the Maemo platform.
- Two steps in creating a Maemo Garage project.
 - You must have a user account within the Garage
 - Create a project

Distributing application in Maemo

- Maemo SDK
- 3 step process for developing application to distributing to audience:
 - share your application project in the [Maemo Garage](#)
 - make your application easy to install and put in the [Application Catalog](#)
 - once your application has a high quality - be promoted to the [Nokia user site](#)



Maemo Releases

- Maemo 5 SDK is latest release and Nokia N900 is device.
- Future Maemo SDKs will also have support for Qt to give better UI experience

Where to find information

- www.maemo.org
- http://www.forum.nokia.com/Technology_Topics/Device_Platforms/Maemo.xhtml
- http://wiki.forum.nokia.com/index.php/How_to_deploy_applications_on_Maemo
- <http://maemo.org/community/community-projects/getting-started/>
- Maemo have very active chat room in IRC so Please join the Maemo community on #maemo on irc.freenode.net.

Q & A